

PSYCHROMETRIC TESTING FACILITY RESTORATION AND COOLING
CAPACITY TESTING

A Thesis

by

VINCENT EDWARD CLINE

Submitted to the Office of Graduate Studies of
Texas A&M University
in partial fulfillment of the requirements for the degree of

MASTER OF SCIENCE

August 2010

Major Subject: Mechanical Engineering

Psychrometric Testing Facility Restoration and Cooling

Capacity Testing

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Approved by:

Chair of Committee,	Michael B. Pate
Committee Members,	Angie Hill Price
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Major Subject: Mechanical Engineering

ABSTRACT

Psychrometric Testing Facility Restoration and Cooling
Capacity Testing. (August 2010)

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Chair of Advisory Committee: Dr. Michael B. Pate

The Psychrometric Testing Facility at the Riverside Energy Efficiency Laboratory at Texas A&M University has not been operational for several years. The goal of this project was to restore the testing facility to a fully operational condition for the purpose of supporting research and cooling capacity testing, with the latter following the appropriate standards.

Numerous changes were made to the coolant piping system, the data acquisition system, instrumentation, and temperature and humidity control to update and improve the facility. In addition, a computer program was developed and implemented that allows for flexible control of the facility's conditions and collection of data while showing real time performance and refrigerant and psychrometric calculations. The current program flexibility, along with the proper combination of instrumentation, allows the Psychrometric Facility to operate with separate steady state environmental conditions in each room, according to, and meeting, the AHRI 210/240 standard.

Cooling capacity testing done on a split system residential unit was compared to the published AHRI rating to benchmark the state of the facility. Tested cooling

capacity was about 3% below the published cooling capacity; tested EER was about 7% below the published EER; and finally, the calculated SEER based on the default degradation coefficient was about 10% below the published SEER. The difference in the calculated performance parameters to the published are expected due to unknown testing conditions used to calculate the published rating.

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Thanks go to Michael Chadwell who taught me more about using Visual Basic programming and the data acquisition system so that I could make changes as needed.

Thanks also go to Kelly Milligan, Jim Sweeney, Kathy Wadle, and Sankar Ravi for the support they provided at the laboratory.

NOMENCLATURE

AHRI	The Air-Conditioning, Heating, and Refrigeration Institute
ASHRAE	The American Society of Heating, Refrigerating and Air-Conditioning Engineers
cfm	Cubic feet per minute
EER	Energy efficiency ratio
HVAC	Heating, ventilating, and air conditioning
ISO	International Organization for Standardization
NI	National Instruments
PI	Proportional-integral
PVC	Polyvinyl chloride
REEL	Riverside Energy Efficiency Laboratory
RTD	Resistive thermal devices
SEER	Seasonal energy efficiency ratio
TXV	Thermostatic expansion valve
VFD	Variable-frequency drive

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1. INTRODUCTION

The purpose of a psychrometric test facility is to support testing and research related to unitary air conditioning and air source heat pump systems. The scope of the testing and research that can be done is rather large, however a major part of testing that is done and needed for industry is cooling or heating capacity testing of a system. The Psychrometric Facility at the Riverside Energy Efficiency Laboratory is specifically geared toward testing residential units up to about 5 tons of cooling/heating capacity. This testing alone is governed by roughly ten or so ASHRAE standards depending on the specific testing conditions or methods used. The main standards that are used for the performance rating of unitary air conditioners and heat pumps are AHRI 210/240 and ASHRAE 37 [1, 2]. Several secondary standards such as ASHRAE 51, ASHRAE 41.1, ASHRAE 23, ASHRAE 116, and ASHRAE 41.6 are necessary to follow for certain data collection methods and requirements that are presented in AHRI 210/240 [2, 3, 4, 5, 6, 7].

A system's capacity is determined through two different enthalpy methods [1]. The primary method used is the indoor air enthalpy method based on calculating the sensible and latent cooling capacities of the unit by using the air flow rate and the enthalpy change of the air crossing the evaporator coil [1]. A secondary capacity calculation method, which can be anyone out of a choice of five available, is required to be within 6% to verify the results of the primary enthalpy method [1]. The secondary

This thesis follows the style of Applied Thermal Engineering.

method currently being utilized in this psychrometric facility is the refrigerant enthalpy method. This method is a calculation of the enthalpy change in the refrigerant going through the evaporator coil [1]. The cooling capacity equations for these methods can be seen in Appendix E and are presented in ASHRAE 37 [1].

In order for the capacity calculation method described in the standards to work properly and meet the required enthalpy balance, the rooms' temperatures and humidity must be at steady state conditions [2]. This is accomplished through several devices. Each room has a large blower that is ducted down the front walls of the rooms to circulate the air in the room to avoid temperature or humidity stratification. In the ducting of each room, there is a cooling coil and four 10kW duct heaters. The cooling coil in each room is supplied with a glycol mixture circulated by pumps from a reservoir that is kept at a set temperature by a chiller and cooling tower system. The pumps for each coil are controlled by variable frequency drives (VFD) that allow for operation at different pump speeds. The flow of glycol mixture through the cooling coils at the selected pump speeds is controlled with Belimo™ three way actuated valves. Specifically, the valve and controlling computer program together adjust the amount of coolant flow through the coils, while the rest of the cooling fluid bypasses the coil and goes back to the tank.

Humidity control is accomplished through a small boiler that releases steam into the duct work for each room via two actuated two way valves. The indoor room has a Bry-Air MiniPAC™ 100 desiccant rotor dehumidification unit ducted to it in order to support dry coil testing.

As a result of this project, the Psychrometric Facility has been set up to do three of four different cooling capacity tests. Specifically, there are four testing conditions established by AHRI 210/240 for systems that have a single speed compressor and a single speed evaporator indoor fan that are titled Test A, B, C, and D [2]. Tests A, B, and C have been successfully performed while Test D is in the process of being implemented. Test A conditions are based on indoor room dry-bulb and wet-bulb temperatures of 80 °F and 67 °F respectively and an outdoor dry-bulb temperature of 95 °F [2]. The outdoor wet-bulb temperature is not controlled unless the indoor unit rejects condensate to the outdoor coil [2]. Test B conditions are the same as Test A for the indoor room, while the outdoor room dry-bulb temperature is 82 °F [2]. Test C conditions are the same as Test B conditions except that the indoor room wet-bulb temperature is kept at 57 °F or less so that condensate does not form on the coil [2]. Test D conditions are the same as Test C, but the unit is cycled on for 6 minutes and off for 24 minutes throughout the test while maintaining the room conditions [2].

The air conditioning system and psychrometric rooms are run for at least 1.5 hours before data is recorded in order to allow the rooms to reach and maintain steady state conditions. Data is recorded every 10 seconds continually for a minimum of 30 minutes and then data is averaged to obtain the final data points for all of the above tests.

2. RESTORATION: SETUP AND CHANGES

2.1 Background

At the beginning of the project the state of the Psychrometric Facility was such that it was difficult to do performance tests of HVAC units according to standards. Specifically, the rooms contained a packaged HVAC unit air conditioning system however, it was configured with minimum instrumentation, and it lacked a functioning control and data acquisition system. Using two different incomplete programs, one being based on LabVIEW™ and the other based on Visual Basic™, the blowers and pumps in the rooms could be turned on and manually controlled with the VFDs. The only data that could be monitored was the indoor and outdoor temperatures and relative humidity as read from a couple of Vaisala™ duct mount humidity and temperature transmitters that were placed in the rooms. The readings from these devices had a high level of noise that was outside of the allowable deviation requirements in the standards. Measurements were taken at a single point in each room, which is a substandard approach. The data acquisition system was overloaded in that it consisted of a couple of NI cards that read only 8 analog voltage inputs and an NI CompactDAQ™ chassis with a couple of 4 channel thermocouple modules, a few 4 channel digital output modules and a few 4 channel analog output modules. The data acquisition equipment was installed and wired both poorly and inefficiently. The plumbing for the cooling coils in the duct system was different for each room, and the previously installed 3-way valves either had their actuators removed or damaged. The systems pumps could be controlled with the

VFDs, however, cooling of the rooms to the required test condition tolerances of 2° F maximum reading variation and a 0.5° F maximum average deviation from the set point temperature was uncontrollable and unpredictable [2].

One of the partially operational programs was modified to be fully operational to handle data acquisition and room control as well as having a method of handling calculations for air and refrigerant states real time, so testing data could be verified and monitored while running. The program code required changes and additions to accommodate for the continual improvements being made to the psychrometric rooms.

2.2 Program

The program code changes and additions were implemented as the psychrometric rooms were being improved and the data acquisition and instrumentation were being expanded. The program is continually expanding to improve the usability and testing function of the rooms. Changes also have to be made after each new installation to account appropriately for testing, data collection, or calculation differences if needed.

An Excel™ calculation page was created to implement the psychrometric calculations, refrigerant state calculations, and cooling capacity calculations that could run along with the program to allow monitoring of the calculations and energy balances during testing. The file has three Visual Basic™ modules that define new Excel™ functions to handle the different state and cooling capacity calculations needed from data inputted as it is being recorded. These calculations are then brought back into the program so they can be recorded with the rest of the data into a spreadsheet. The first

module uses the software REFPROP 8.0 and its included code to handle refrigerant state calculations. The second module uses equations from the 2009 ASHRAE Handbook's psychrometrics chapter to handle the psychrometric calculations of the air [5]. The third module uses ASHRAE 37 equations to do the cooling capacity and energy balance equations [1].

2.3 Changes

The problems encountered with operating the rooms required many steps to improve data acquisition, room operation, and data accuracy. Some of the major changes and additions to the facility included new coolant plumbing, data acquisition expansion, room temperature and humidity monitoring, and air flow measurement.

2.3.1 Coolant Piping

In order to improve the cooling control to the rooms and to fix the unpredictable flow through the plumbing and coil, the old plumbing and 3-way valves were removed, and new plumbing was installed that had identical flow paths for both coils. Belimo™ actuated 3-ways valves were installed to allow the pumps to be run at constant speeds while the valve controlled the flow of coolant through the coil. The plumbing was installed in a manner that allowed gravity to pull the coolant through the coil and through the return line to the storage tank. The previous plumbing setup involved the cooling being pumped from the ceiling of the rooms to the coil, and the return line came back up through the ceiling, which required the pumps to operate at a higher flow rate to

move coolant through the coil, hindering precise cooling changes to the rooms. Figure 1 shows a schematic of the previous plumbing layout for the cooling coils.

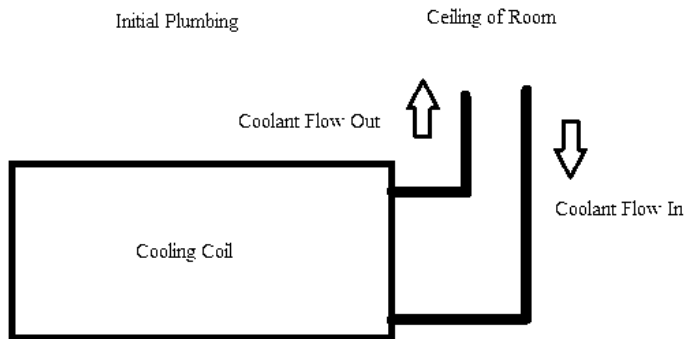


Figure 1. Schematic of the previous piping for the cooling coils.

Figure 2 shows a picture of the current cooling coil piping. The three way valve is installed at the bottom of the coil and directs coolant into the top of the coil. The bypassed coolant and the coolant from the coil meet at the valve and return to the storage tank.



Figure 2. Photograph of the current cooling coil piping.

2.3.2 Data Acquisition System

To have enough data channels, the data acquisition system was expanded from its previous configuration. The new system includes two NI CompactDAQ™ chassis loaded with a total of six 4 channel digital output modules, three 4 channel analog output modules, one 16 channel analog output module, one 16 channel analog input module, four 4 channel thermocouple modules, one 4 channel RTD module, and two 8 channel NI analog input cards. In order for the program to keep track of every channel, a channel configuration Excel™ sheet is used. The file gives each channel a name correlating it with a pointer in the program that is used in calculations, data recording, and room condition control. The sheet has the units for the input channels and any necessary linear transformations to convert the input voltages to the appropriate unit. Figure 3 shows a photograph of the data acquisition system at the time of this document.

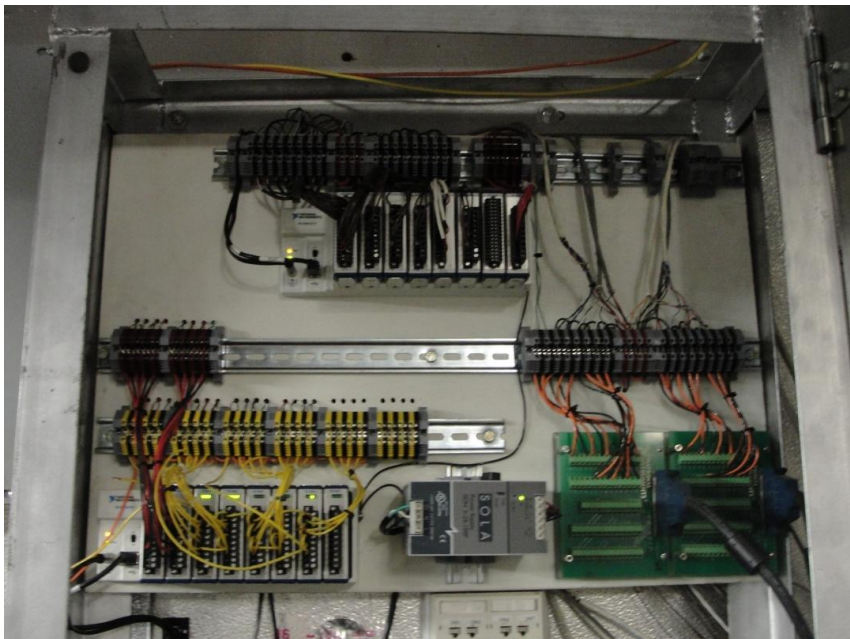


Figure 3. Photograph of the current data acquisition system.

2.3.3 Room Temperature and Moisture

One of the challenges of controlling the room temperatures and humidity is precisely and accurately reading the temperature and humidity in the rooms. Three psychrometric stations using RTDs for wet-bulb temperature readings were built using an inline blower and PVC pipe. This method of moist air measurement was selected over the relative humidity sensors for multiple reasons. Psychrometers will not suffer irreversible damage at 100% relative humidity like relative humidity sensors will; the cost of the device is low, and maintenance is easy [4]. The relative humidity transmitters were also more susceptible to electrical noise than RTDs or thermocouples. The psychrometric stations use the PVC pipe to sample the air entering the units with the inline blower pulling the air over an RTD probe with a cotton wick and an attached water reservoir to get the wet-bulb temperature of the air. The stations were built following ASHRAE 41.6 suggestions and requirements [7]. One station is set up in the outdoor room with pipe surrounding the condensing coil to sample air all around the unit. An RTD probe is installed upstream of the wet-bulb RTD with no wick to read the dry-bulb temperature. A psychrometer is set up at the inlet of the evaporator coil. The wet-bulb temperature is taken with the snorkel PVC device, and the dry-bulb temperature is read from an equal spaced 16 point thermocouple grid installed upstream of the coil. The third psychrometric station is installed in the evaporator exit ductwork. A 16 point thermocouple grid is utilized in the duct to get the dry-bulb temperature. A snorkel system is used to sample air from different points of the cross section of the duct for the wet-bulb temperature. The flow rate of the air across the wet-bulb is an

important variable in the accuracy of the wet-bulb reading [4]. In order to tune the flow rates, a hot wire anemometer was inserted in the PVC pipe in place of the wet-bulb to read the velocity of air that would cross the wet-bulb. The exhaust of the fan was covered until a flow rate was obtained within 100 feet per minute of 1000 feet per minute. Figure 4 shows the indoor evaporator inlet psychrometric station and the psychrometric station set up around the outdoor unit.



Figure 4. Photograph of the indoor room and outdoor room psychrometric stations.

2.3.4 Air Flow

One of the measurements required for cooling capacity calculation is the airflow of the evaporator unit. An airflow testing chamber was setup in the room to obtain this measurement. The chamber is a steel sectioned tube with a nozzle board consisting of two 5" nozzles, one 3' nozzle, and one 8" nozzle. The chamber was built to ASHRAE 51 requirements for a "Figure 12" outlet chamber setup [3]. The Figure 12 chamber

layout is shown in Figure 5 [3]. Three airflow pressures are taken at the planes shown in Figure 5. These are used to calculate the volume of air that passes through the known open nozzle size or sizes [3].

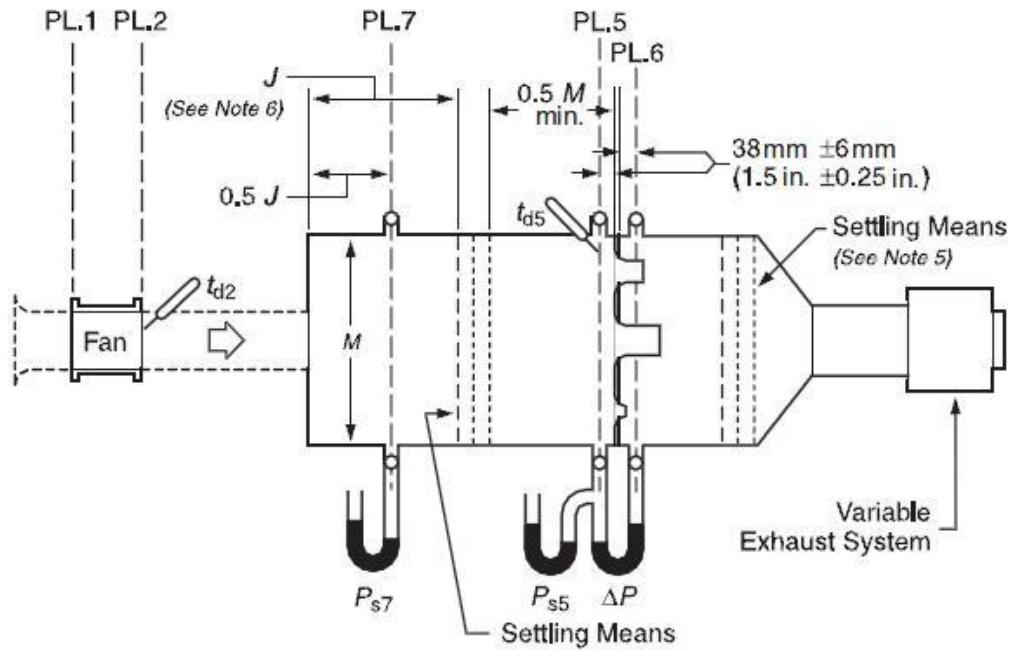


Figure 5. Sketch from ASHRAE 51 “Figure 12” chamber layout [3].

2.4 Test Setup

The testing setup and system orientation are shown in Figure 6. The key data collection locations are specified by the number labels and correspond to the measurement devices listed in Table 1.

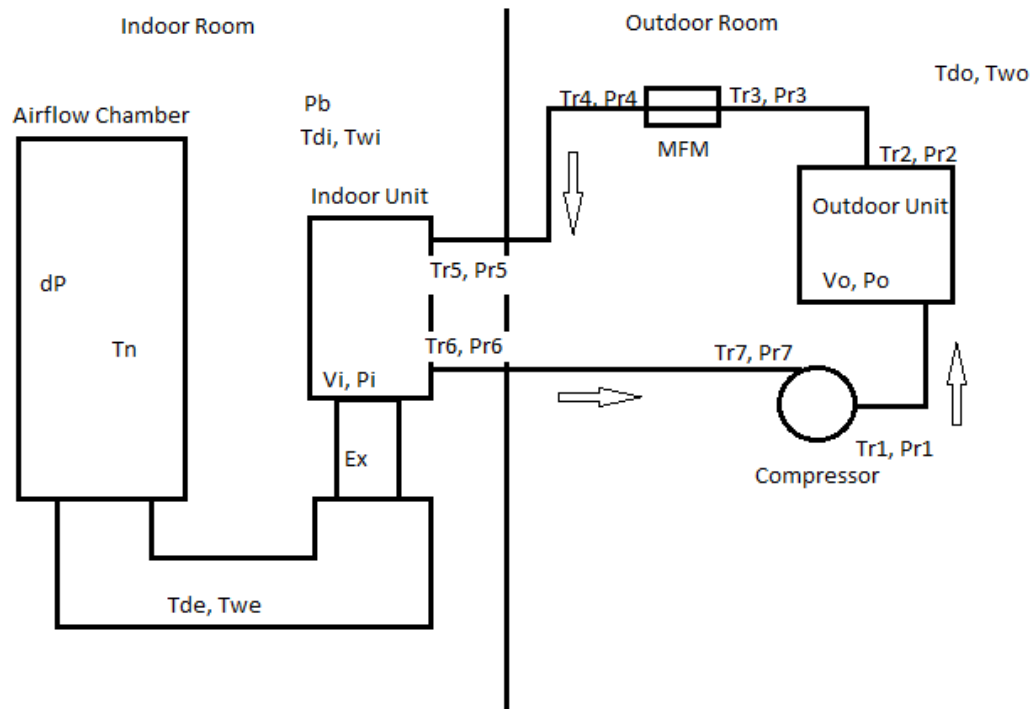


Figure 6. Sketch of refrigeration system layout and data collection locations.

Table 1

Instrumentation list and corresponding accuracies

Label	Description	Device	Accuracy \pm
Tr1	Temperature of Refrigerant entering the condenser	Thermocouple, type T, 30 gauge wire	0.9 °F
Pr1	Pressure of Refrigerant entering the condenser	Setra c206, 0-1000 psig pressure transducer	1.3 psig
Tr2	Temperature of Refrigerant exiting the condenser	Thermocouple, type T, 30 gauge wire	0.9 °F
Pr2	Pressure of Refrigerant exiting the condenser	Setra c206, 0-1000 psig pressure transducer	1.3 psig
Tr3	Temperature of Refrigerant entering the mass flow meter	Thermocouple, type T, 30 gauge wire	0.9 °F
Pr3	Pressure of Refrigerant entering the mass flow meter	Setra c206, 0-1000 psig pressure transducer	1.3 psig
Tr4	Temperature of Refrigerant exiting the mass flow meter	Thermocouple, type T, 30 gauge wire	0.9 °F
Pr4	Pressure of Refrigerant exiting the mass flow meter	Setra c206, 0-1000 psig pressure transducer	1.3 psig
Tr5	Temperature of Refrigerant entering the TXV	Thermocouple, type T, 30 gauge wire	0.9 °F

Table 1. Continued

Label	Description	Device	Accuracy \pm
Pr5	Pressure of Refrigerant entering the TXV	Setra c206, 0-1000 psig pressure transducer	1.3 psig
Tr6	Temperature of Refrigerant exiting the evaporator	Thermocouple, type T, 30 gauge wire	0.9 °F
Pr6	Pressure of Refrigerant exiting the evaporator	Setra c206, 0-1000 psig pressure transducer	1.3 psig
Tr7	Temperature of Refrigerant entering the compressor	Thermocouple, type T, 30 gauge wire	0.9 °F
Pr7	Pressure of Refrigerant entering the compressor	Setra c206, 0-1000 psig pressure transducer	1.3 psig
MFM	Mass flow rate of the refrigerant-oil mixture	Micro Motion F series flow meter with 1700 transmitter	0.10%
Pb	Barometric pressure in the indoor room	Vaisala digital barometer	0.30 hPa
Tdo	Dry-bulb temperature of air entering outdoor unit	RTD probe 3 wire, 1/4", 4" length	0.27 °F
Two	Wet-bulb temperature of air entering outdoor unit	RTD probe 3 wire, 1/4", 4" length	0.27 °F
Tdi	Dry-bulb temperature of air entering indoor unit	Thermocouple grid, type T, 16 gauge wire, 16 point grid	0.9 °F
Twi	Wet-bulb temperature of air entering indoor unit	RTD probe 3 wire, 1/4", 4" length	0.27 °F
Tde	Dry-bulb temperature of air exiting indoor unit	Thermocouple grid, type T, 16 gauge wire, 16 point grid	0.9 °F
Twe	Wet-bulb temperature of air exiting indoor unit	RTD probe 3 wire, 1/4", 4" length	0.27 °F
Vo	Voltage at outdoor unit	Ohio Semitronics voltage transducer	0.75 volts
Po	Power to outdoor unit	Ohio Semitronics Power transducer	0.01 KW
Vi	Voltage at indoor unit	Ohio Semitronics voltage transducer	0.75 volts
Pi	Power to indoor unit	Ohio Semitronics Power transducer	0.01 KW
Tn	Dry-bulb temperature of air at the nozzle	Thermocouple type T probe	0.9 °F
Ex	External resistance to airflow at the evaporator air exit	Dwyer pressure transmitter 0-2 in. wg	0.005 in. wg
dP	Differential pressure across the nozzles	Dwyer pressure transmitter 0-1 in. wg	0.0025 in. wg

3. RESULTS

To benchmark the improvements made to the Psychrometric Facility, cooling capacity tests A and B of standard ASHRAE 210/240 were performed on a RUUD™ 2-ton split R410A air conditioning system with a thermostatic expansion valve. The system's outdoor unit is a RUUD™13AJL24 and the indoor unit is a RUUD™ RHLL HM2417. The system was charged with 91.25 ounces of R410A refrigerant following the manufacturer's suggested method. Following the ASHRAE 210/240 standard, each test was run three times to show variation and relationships between tests [2].

3.1 Variation and Tolerances

The psychrometric testing facility's performance can be characterized by any number of different ways. The first way to benchmark the performance of the rooms is to compare the measured temperatures and humidity levels during testing with set point values. Table 2 shows the average dry-bulb and wet-bulb temperature for the indoor room, the dry-bulb temperature for the outdoor room, and the deviation from the set point for all the tests along with the maximum and the standard deviation for the test run. The outdoor room wet-bulb temperatures were recorded but not controlled, so they were omitted from Table 2.

Table 2

Controlled temperature averages, deviation from their set point, and variations for all tests

Test	DB/WB	IR Avg.	Dev.	Max range	IR StDev.	OR Avg.	Dev.	Max range	OR StDev.
1A	DB	80.05	0.05	0.45	0.07	95.03	0.03	0.52	0.17
1A	WB	67.06	0.06	0.29	0.11				
2A	DB	80.03	0.03	0.43	0.07	95.01	0.01	0.49	0.12
2A	WB	66.83	-0.17	0.09	0.02				
3A	DB	79.94	-0.06	0.41	0.07	95.11	0.11	0.27	0.09
3A	WB	66.88	-0.12	0.09	0.02				
1B	DB	79.98	-0.02	0.45	0.08	82.01	0.01	0.50	0.17
1B	WB	66.80	-0.20	0.31	0.09				
2B	DB	79.94	-0.06	0.47	0.08	82.04	0.04	0.36	0.09
2B	WB	66.99	-0.01	0.14	0.03				
3B	DB	79.97	-0.03	0.43	0.08	82.08	0.08	0.59	0.17
3B	WB	67.03	0.03	0.16	0.05				

All units are in °F

ASHRAE 116 provides permissible variations in the test conditions for cooling capacity testing [6]. There are two tolerances that must be met for some of the listed conditions, while other conditions must only meet one tolerance [6]. The test operation tolerance is the maximum permissible range of any measurement [6]. The test condition tolerance is the maximum permissible variation of the average value of the measurement from the specified test condition [6]. Table 3 shows the test operation and condition tolerances specified by ASHRAE 210/240 [2]. These tolerances were used as a

benchmark for the capability of the psychrometric testing facility and as a check that the facility meets requirements.

Table 3
Specified test tolerances for cooling capacity testing according to ASHRAE 210/240

	Test Condition Tolerance	Test Operation Tolerance
IR Dry-bulb, °F		
Entering	2.0	0.5
Leaving	2.0	
IR Wet-bulb, °F		
Entering	1.0	0.3
Leaving	1.0	
OR Dry-bulb, °F		
Entering	2.0	0.5
OR Wet-bulb, °F		
Entering	1.0	
External resistance to airflow, inches of water	0.05	0.02
Electrical voltage, ±%	2.0	

Table 2 contains the test tolerances for the indoor room entering dry-bulb and wet-bulb and the outdoor room entering dry-bulb. Table 4 shows the test condition tolerances for the indoor room leaving temperatures, outdoor room wet-bulb, external resistance to airflow, and compressor electrical voltage.

Table 4
Required test condition variations not covered in Table 2

Test	Evap Exit DB °F	Evap Exit WB °F	OD WB °F	Ex Res Air, in/H ₂ O	Voltage ±%
1A	0.32	0.29	0.45	0.087	2.2
2A	0.31	0.07	0.56	0.095	2.2
3A	0.29	0.14	0.22	0.082	2.6
1B	0.43	0.31	0.50	0.098	3.0
2B	0.34	0.13	0.25	0.104	2.4
3B	0.34	0.16	0.41	0.102	3.6

The data presented in Tables 2 and 4 shows all the measured tolerances that are specified by the standard in Table 3. A comparison of the results in these three tables shows that all temperatures entering and leaving the units in the rooms were within specified tolerances during all tests. However, Table 4 shows that the test condition tolerances are not met for any of the external resistance to airflow or voltage test condition variations. Figure 7 shows the noise of the external resistance to airflow for a typical test. The condition variation is about twice of the allowed tolerance.

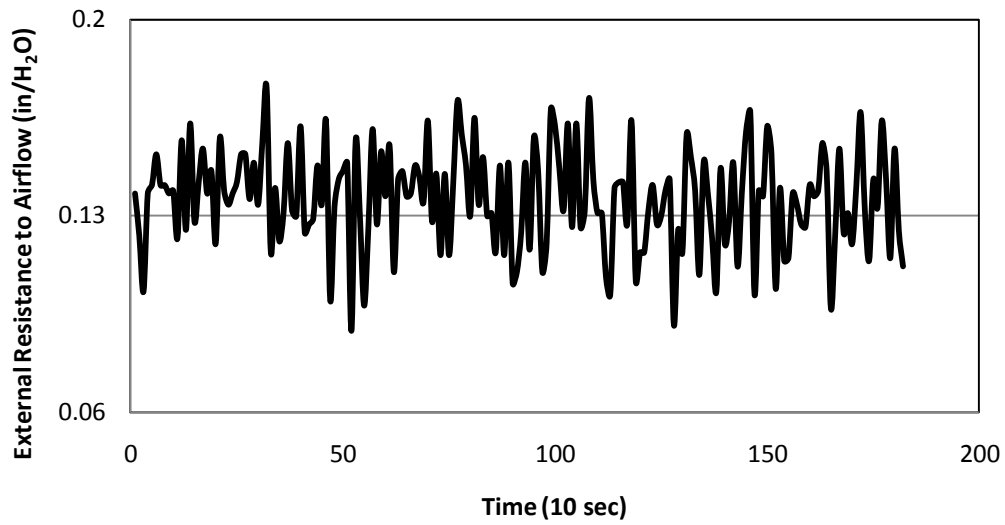


Figure 7. Variation of the typical external resistance to airflow.

The variability in the voltage can be seen in Figure 8. The highest percent of variability from all the completed tests was $\pm 3.6\%$ as seen in Table 4. The remaining tests had a voltage variation within a percent over the requirement of $\pm 2.0\%$.

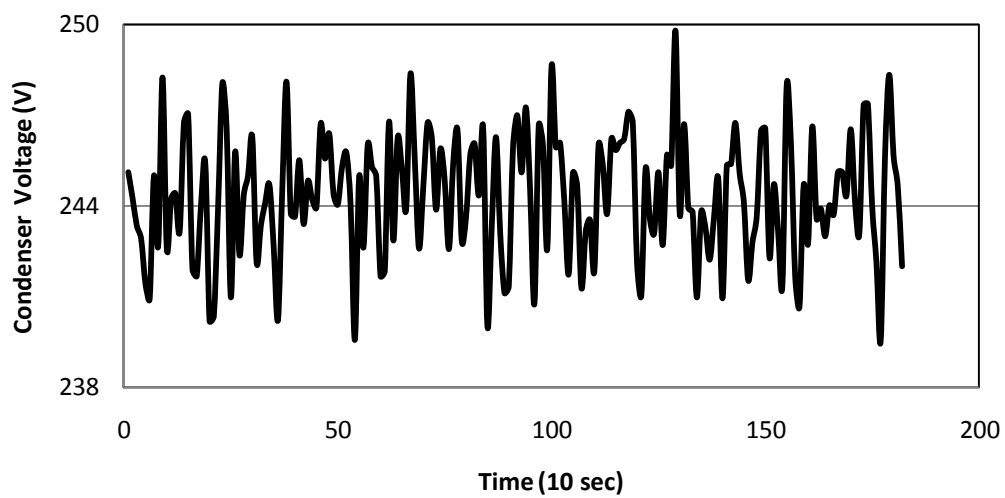


Figure 8. Variation of the typical condenser voltage.

The two variations that fall outside of the requirement present the most concern and should be the priority for future improvements to the Psychrometric Test Facility. The variation in the external resistance to airflow is the most significant because the airflow calculation correlates directly with the static pressure reading, and the cooling capacity correlates directly with the airflow calculation as shown in Appendix E [1]. Specifically, the variability in the static pressure measurements adds unwanted variability to the air side cooling capacities via the measured air flow as shown in Figures 9 and 10. The airflow and the capacity have variations similar to the external resistance to airflow pressure shown in Figure 7.

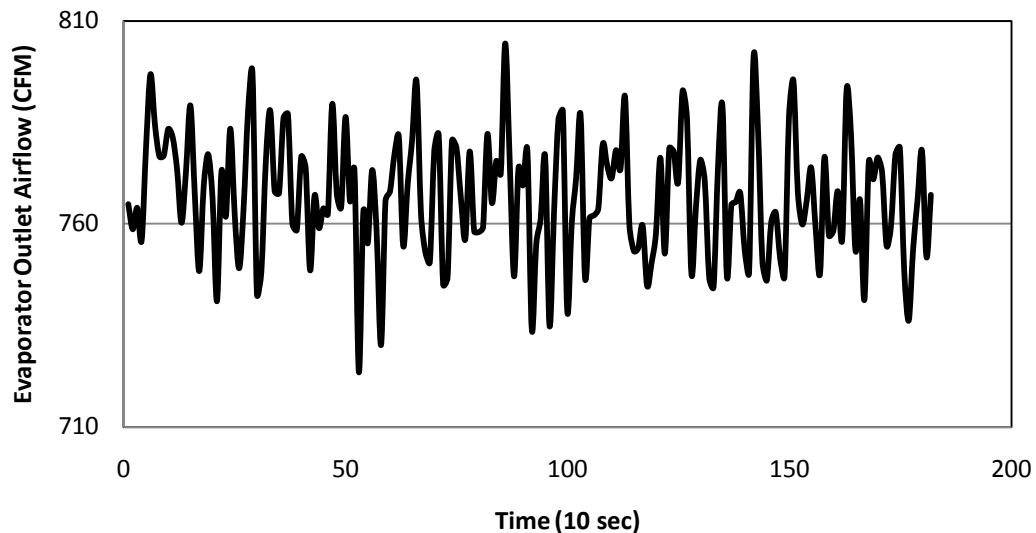


Figure 9. Variation of the airflow calculation during testing.

The airflow variation shown in Figure 9 varies about 80 cfm during the respective test, which is over 10% of the average airflow.

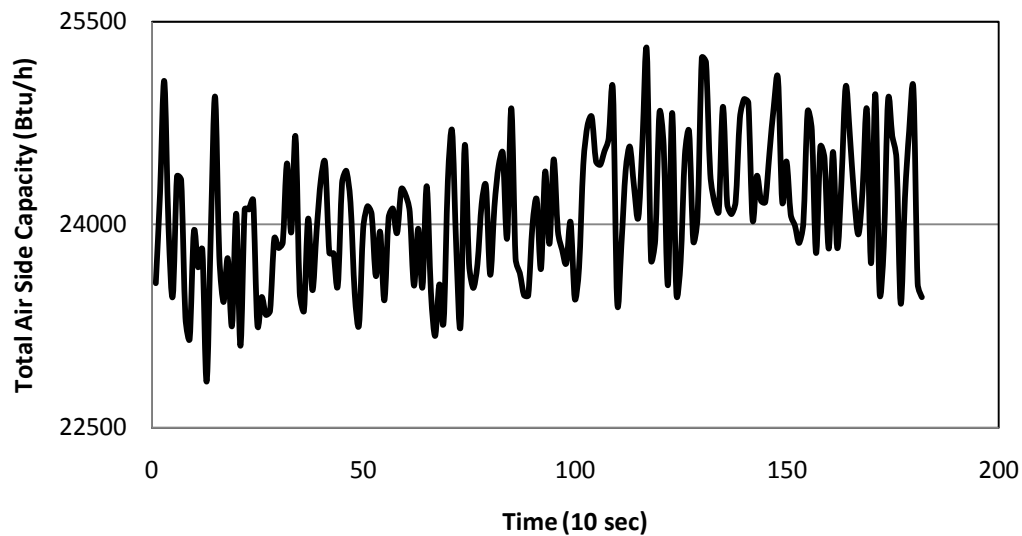


Figure 10. Variation of the total airside cooling capacity during testing.

The variation of the total airside cooling capacity shown in Figure 10 is of over 2400 Btu/h. This is about a 10% variation of the average cooling capacity. It is important to note that even though the variations exceed the allowable tolerance, they do not affect the accuracy of the cooling capacity, since the capacity is based on averaging data. Proof of the fact that these variations do not meaningfully affect cooling capacity is shown in Table 5 where the air side cooling capacity agrees with the refrigerant cooling capacity to within 2%.

3.2 Cooling Capacity Correlation between Enthalpy Methods

The secondary cooling capacity measurement based on the refrigerant side is used to verify the primary airside cooling capacity calculation; for the Test A, the secondary cooling capacity must be within 6% of the primary cooling capacity according

to the standard [2]. Test B cooling capacities are not required to correlate the way Test A cooling capacities are; however, the same level of correlation should be seen. Table 5 shows the primary and secondary cooling capacity correlations for all tests.

Table 5

Correlation between the primary and secondary cooling capacity methods for each test			
Test No.	Avg Total CC (Btu/h)	Avg Refrigerant CC (Btu/h)	Percent Difference (%)
1A	24091	23951	0.58
1B	25683	25223	1.79
2A	23881	23626	1.07
2B	25654	25289	1.42
3A	24046	23720	1.36
3B	25532	25289	0.95

The data in Table 5 shows that the correlation between enthalpy methods ranges from 0.58% to 1.79%, which is within the required 6%. The refrigerant cooling capacity was less than the total cooling capacity for every test.

3.3 Cooling Capacity Repeatability

Another method for benchmarking the current state of the rooms' capabilities is to show the cooling capacity repeatability for the Test A and Test B conditions. Table 6 shows the averages and standard deviations for the three Test A and three Test B tests' cooling capacities.

Table 6

Comparison of the performance for the different tests and cooling capacity calculations

CC Test	Test 1 (Btu/h)	Test 2 (Btu/h)	Test 3 (Btu/h)	Three Test Avg (Btu/h)	Std Dev (Btu/h)
A Total	24091	23881	24046	24006	110.8
B Total	25683	25654	25532	25632	79.8
A Refrigerant	23951	23626	23720	23766	167.6
B Refrigerant	25223	25289	25285	25282	37.0
A Sensible	16629	16767	16278	16558	252.1
B Sensible	17122	16957	16890	16978	119.4
A Latent	7462	7114	7768	7448	327.2
B Latent	8560	8697	8642	8654	68.7

The data in Table 6 shows that the cooling capacities between the three different tests have standard deviations that range from 37.0 to 327.2 Btu/h. Test A cooling capacities have the higher standard deviations when compared to Test B capacities.

3.4 Performance Comparison

The last benchmark that will be used to show the current capability of the Psychrometric Testing Facility is the comparison of the tested performance of the RUUD™ system to the published performance for the same system. The performance results are compared to the published capacity provided for this specific system by AHRI in Table 7. The data in Table 7 is not rounded as specified by AHRI 210/240. The systems cooling capacity is calculated during Test A conditions while the Test B cooling capacity is used to calculate the seasonal energy efficiency rating (SEER). The equations used for the energy efficiency rating (EER) and the seasonal energy efficiency

rating (SEER) can be seen in Appendix E. The SEER calculations were made by using the default coefficient of degradation of 0.25 as specified in AHRI 210/240 [2]. The published results do not specify if the published SEER was calculated by using the default coefficient of degradation or the calculated value that requires Test C and Test D results, the refrigerant charge of the system, or the airflow rate across the coil. The published cooling capacity was rounded to the nearest 200 Btu/h, while the published EER and SEER were rounded to the nearest 0.05 Btu/(W*h) [2].

Table 7

Comparison of tested performance and published ratings for the RUUD™ system

Test No.	Total CC (Btu/h)	Sensible CC (Btu/h)	Latent CC (Btu/h)	Refrigerant CC (Btu/h)	EER (Btu/(W*h))	SEER (Btu/(W*h))
1	24091	16629	7462	23951	11.78	12.63 ^a
2	23881	16767	7114	23626	11.70	12.65 ^a
3	24046	16278	7768	23720	11.76	12.59 ^a
Published	24800				12.60	14.00

^a Calculated using the default coefficient of degradation $C_D^c=0.25$

Table 7 shows the calculated performance parameters for the three sets of tests against the published performance parameters for the system and the percent difference between the calculated and the published values.

Table 8

Tested performance compared to published performance

Test No.	Total CC (Btu/h)	Percent Diff (%)	EER (Btu/(W*h))	Percent Diff (%)	SEER (Btu/(W*h))	Percent Diff (%)
1	24091	-2.9	11.78	-6.51	12.63 ^a	-9.81
2	23881	-3.7	11.70	-7.16	12.65 ^a	-9.61
3	24046	-3.0	11.76	-6.63	12.59 ^a	-10.10
Published	24800		12.60		14.00	

^a Calculated using the default coefficient of degradation $C_D^c=0.25$

The data in Table 8 shows that the calculated cooling capacity for the RUUD™ system was about 3% below the published data. The calculated EER was about 7% lower than the published EER, and the calculated SEER was about 10% less than the published SEER. Differences in the calculated performance parameters to the published parameters are expected due to the lack of information on exactly how the published data was calculated or measured.

4. REFRIGERATION CYCLE CHANGES WITH OUTDOOR ROOM CONDITION

The refrigeration cycle results for Test A and Test B were compared in order to provide insight into how HVAC systems perform and vary with outdoor temperature. Table 9 shows some of the refrigerant cycle parameters from averaged Test A and averaged Test B data taken from all six sets of data. The only difference in the Test B conditions is the outdoor room held at a lower dry-bulb temperature of 82 °F instead of the 95 °F temperature for Test A.

Table 9

Refrigeration cycle behavior for two different outdoor temperatures				
	A	B	Delta	Percent Different
Outdoor dry-bulb temperature	95.1	82.0	13.0	-
Refrigerant temperature condenser in	169.4	151.6	17.8	-
Refrigerant pressure condenser in	403.2	339.2	64.0	-
Refrigerant temperature condenser out	105.2	93.1	12.1	-
Refrigerant pressure condenser out	385.6	321.7	63.9	-
Refrigerant temperature evaporator in	103.2	91.7	11.6	-
Refrigerant pressure evaporator in	383.9	319.3	64.6	-
Refrigerant temperature evaporator out	57.0	57.6	-0.6	-
Refrigerant pressure evaporator out	134.4	130.7	3.7	-
Evaporator exit air temperature	60.4	59.7	0.7	-
Condenser/Compressor power	1.91	1.64	0.27	-14.1
Refrigerant cooling capacity	23766	25260	-1494	6.3

Temperature units are in °F, pressure units are in psig, power units are in kW

4.1 Refrigerant Temperature and Pressure

Table 9 shows that the pressures and temperatures of the refrigerant at the condenser in, condenser out, and the evaporator in, are noticeably different for Test A and Test B. The refrigerant pressure downstream of the condensing coil has about a 64 psig lower pressure during Test B than Test A, while the temperature is about 12 °F different. The higher pressures and temperature downstream of the condensing coil is expected since the outdoor temperature is 13 °F higher for Test A compared to Test B

Table 9 also shows the evaporator exit air temperature, the refrigerant temperature, and pressure for the evaporator exit, do not change much between Test A and Test B conditions. The above values are all measured downstream of the TXV device. The similar refrigerant temperatures and pressures between the two test conditions in the result of the indoor air temperature being fixed, and it also suggests that the TXV is properly functioning.

4.2 Power Usage and Cooling Capacity

The section above showed that the refrigerant conditions downstream of the TXV are similar for Test A and Test B when only the outdoor temperature is changed, however, as shown in Table 9, the power used by the outdoor room unit decreases by about 14% for the lower outdoor temperature for Test B. This 14% decrease in electrical power usages increased the systems cooling capacity by over 6%.

5. FUTURE WORK

The work and testing that has been accomplished to this point has provided insight into future changes that will improve the Psychrometric Facility. Some of the recommended future work and changes are documented below.

5.1 Variation in Readings

The results in section 3.1 of this document show that the external resistance to airflow and the voltage variability are too high in that they exceed the tolerance specified in the standard. The variability could be coming from three sources. The first is noise that the channel picks up while operating. There are several electrical devices running in each room during operation, and electrical noise has the potential to be a significant issue. Another possibility is that the particular instrument is inherently noisy. The third possible source of the variability is that the data source actually has high variability. The variability source could also be a combination of the possible sources. The unit voltage and voltage signal sent by the device can be checked with a multimeter while the rooms are running to determine if they are the source of the problem. Similarly, the voltage from the pressure meters can be checked with a multimeter and the pressure in the duct can be read with the lab's Fluke™ 717 pressure calibrator to determine the source of the problem so it can be corrected.

5.2 Refrigerant Valves

Currently there are no inline valves before and after the refrigerant mass flow meter. These should be installed when the next unit is installed in order to make zeroing the mass flow meter easier and more accurate.

5.3 Airflow Chamber

The airflow chamber and assist blower in the indoor room are oversized for most applications that will be tested in the Psychrometric Facility. When time and funding permit, it is recommended to build a smaller nozzle chamber that will free up more space in the indoor room. The chamber can be build out of plywood and mastic to reduce the cost if necessary.

5.4 Mass Flow Meter

When the next installation takes place, it is recommended that the D-S025S119 Mirco Motion™ mass flow meter be used instead of the one currently installed in the outdoor room. It is a better size for the refrigerant flow rate applications that will be tested, and it also has higher accuracy compared to the current model. In order to set up the meter properly a sample program from Mirco Motion™ and a RS485 connection to the computer may be needed.

5.5 Refrigerant Temperature

The current method of measuring the refrigerant temperatures is through small diameter copper tubing with a sealed end inserted and brazed into the refrigerant line. A small 30 gauge thermocouple is inserted into the copper tube that is immersed into the refrigerant. This method causes pressure drops and restrictions on the liquid side of the system, but is preferred for the suction side of the refrigerant. A better method for getting refrigerant temperatures on the liquid side may be to attach the thermocouples to the surface of the refrigerant line and insulate the area to about six inches on either side of the thermocouple. This installation will reduce any restrictions and pressure drops that the inserted probes may have on the system while still providing accurate temperature measurements.

5.6 Evaporator Exit Ductwork

The ductwork that directs the air from the evaporator unit to the airflow chamber is made out of an insulated sheet metal duct section that is bulky, heavy, and provides an unknown, but insufficient amount of insulation. This makes calculating the duct losses, and moving or modifying the duct more difficult. A bundle of 1.5 inch thick polyisocyanurate insulation board has been ordered to build a new duct section. If two layers of the insulation board are used to make the duct, the R value for the duct will exceed the requested $19 \text{ ft}^2 \cdot \text{°F} \cdot \text{h/Btu}$ that the standard recommends [2]. It would also provide a known R value that can be accurately used to calculate any duct losses during testing [1]. After the ductwork size is determined, an air mixing device as described in

ASHRAE 41.1 will need to be installed to help keep any air temperature difference to a minimum across the area of the duct [7].

5.7 Heater Control

Currently heater control is handled by switching the heaters on and off using digital out channels and 24 Volt AC contactors. This method is hard on the modules, contactors, and the heaters due to the repeated switching on and off that occurs. There is also a visible sine wave in the outdoor room temperature as the heaters switch on and off as shown in Figure 11. The peak to peak amplitude of this wave is inside of the 2 °F maximum reading variation required by the standard, and it is within 0.6° F of the set point so the average temperature is not affected.

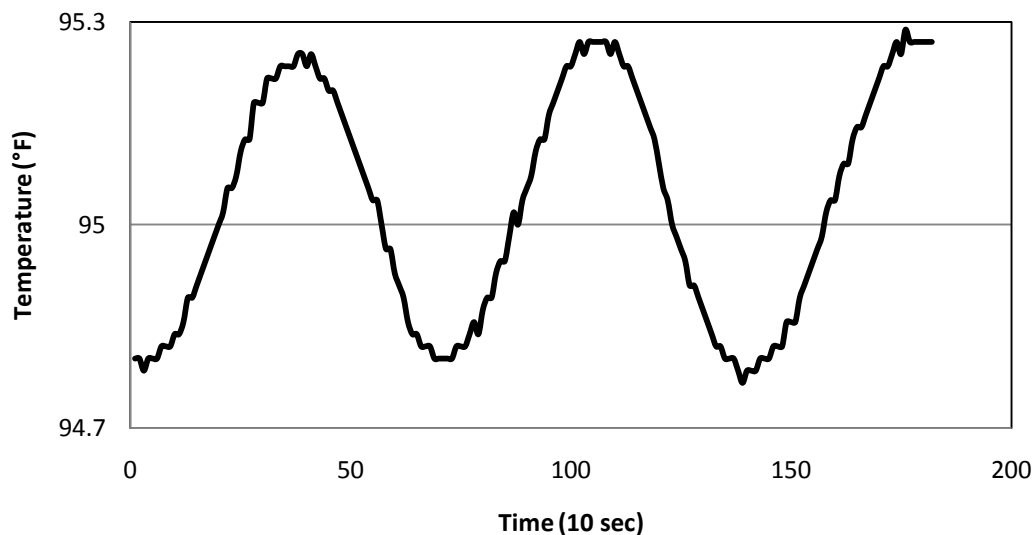


Figure 11. Typical dry-bulb temperature variations in the outdoor room during testing.

The indoor room temperature variation is more dynamic. It is monitored with a 16 point thermocouple grid instead of an RTD probe, so the temperature change response is quicker. Figure 12 shows how the dry-bulb temperature in the indoor room varies during a typical test. In order to eliminate the reliability and wear problems while also reducing temperature variation, 3-phase Watlow™ solid state power controllers have been acquired that can increase or decrease the voltage to the heaters instead of switching them on and off at full power. This will increase the life of the heater coils as well as the instrumentation used to control the heaters. The sine wave amplitude seen in the temperature of the room should be reduced or eliminated, giving the Psychrometric Facility more precise control of the room temperatures and humidity. The solid state power controls will utilize the analog out channels to control the voltage through the heaters and provide linear heating. This method allows for more freedom of how the heaters are used for different testing scenarios as well.

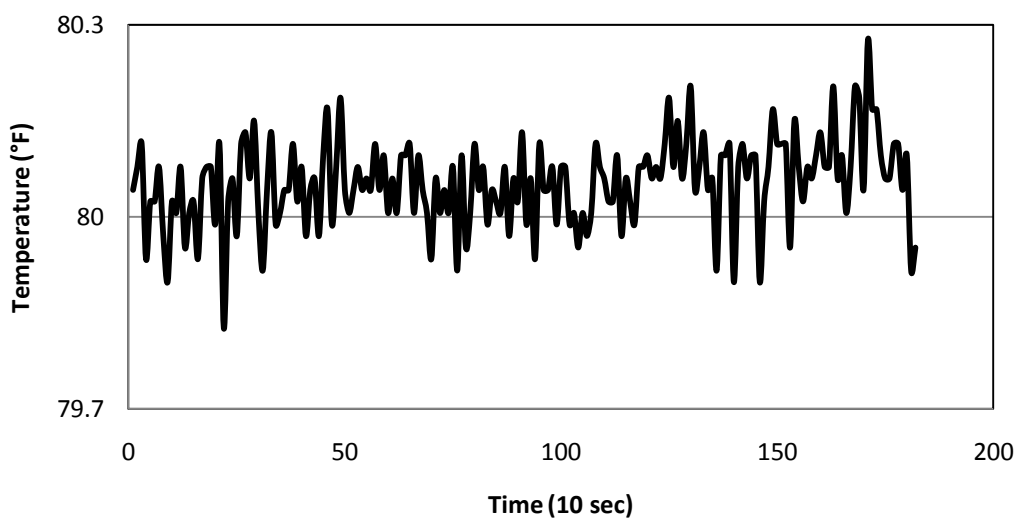


Figure 12. Typical dry-bulb temperature variations in the indoor room during testing.

5.8 Floor Insulation

If any heating mode or other testing is performed where the conditions in the outdoor or indoor room are below freezing, the floor of the room should be insulated. Repeated freezing and thawing cycles of concrete will cause cracking and damage of the floor.

5.9 Data Acquisition Expansion

The current state of the data acquisition system allows for variations in controls, inputs and outputs. There are extra channels available, and if any testing requires different types of channels or a number of channels beyond the capability of the current system, modules can be replaced to meet those needs without any major changes to the system. For example, an NI SCXI chassis is available that has two 16 channel thermocouple cards that can be utilized if more thermocouple channels are needed.

5.10 Voltage Control

The use of a variable transformer to control the voltage being supplied to the evaporator unit and the condensing unit is recommended. In industry, it is customary and beneficial to monitor the power of the condenser fan and the compressor separately, and it is suggested that this be done for future testing.

5.11 Dehumidification

Currently the dehumidification process of the indoor room typically requires the dehumidification unit to run for several hours in order to get to the proper humidity level for dry-coil testing. Adding a ducted residential dehumidification unit to the back side of the rooms is recommended for decreasing the time required to condition the rooms between wet-coil testing and dry-coil testing.

6. CONCLUSIONS

The goal of this project was to restore the Psychrometric Facility to an operating condition capable of supporting cooling capacity testing according to the AHRI 210/240 standard [2]. To update and improve the facility, numerous changes were made to the coolant piping system, the data acquisition system, instrumentation, and temperature and humidity control. In addition, a computer program was developed and implemented that allows for flexible control of the facilities conditions and collection of data.

To benchmark the capabilities of the facilities after implementing the changes, Test A and Test B cooling capacity testing was run following AHRI 210/240 [2]. Each test was run three times so that repeatability of the results could be observed. The first benchmark looked at variations and room condition control. All temperatures were inside of the allowable variations. The next benchmark compared the primary and secondary cooling capacity correlation. The differences in cooling capacity for the two methods ranged from 0.58 to 1.79%. The standard allows for a difference of 6%. The next benchmark was the repeatability of the cooling capacity testing. The tests had standard deviations ranging from 37 to 327 Btu/h. The last benchmark compared the testing results to the manufacturer's specified results for the same system. The measured cooling capacity was within 4%, the EER was within about 7%, and finally the SEER was within about 10% of the manufactures specified performance.

The data from the Test A and B conditions have some notable differences in the refrigeration cycle parameters, which was due to the difference in outdoor dry-bulb

temperature for the two tests. The data also shows that there are no significant changes of the refrigeration system between the Test A and Test B condition on the indoor side of the system. The major change is seen in the 14% drop in power consumption in the outdoor unit and an increase of the cooling capacity of the system.

Documented herein are additional suggestions for improvements that can be made to the facility in the future. Suggestions for future work include reducing the variation in readings, building a new evaporator duct section, and improvements to the heater control system. This thesis also provides guidelines for operation of the facility, which can be used as further testing, research, and improvements continue with the Psychrometric Facility.

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APPENDIX A

INSTRUCTIONS FOR RUNNING THE PROGRAM

Channel Configuration

The folder that contains the up-to-date documents, data and code for running the psychrometric rooms is C:\PCDAQS Source, while the other folders with the PCDAQ name are all previous versions. There are three documents that control the testing parameters and calculations associated with the testing. All three can be found in C:\PCDAQS Source\bin\Lookup Tables. Under the folder Control Cycles is the Excel file ARI 210, which is from where the set points for the dry and wet-bulb temperatures for the rooms are read. Every line is a different mode that can have its own set points. After the list of modes is entered, the next line must have a -1 entered in the mode Number column. Under the folder named Tables, the Excel document Channel Configuration is the spreadsheet that the program uses to determine what channels contain what information or signals during testing. This spreadsheet has several tabs and each tab is for different data acquisition system channel type. Channel names are important because the program uses them to apply the proper data to the proper variables using pointers in the program. The channel name to pointer conversions can be found in the modFunctions.vb code starting at line 96. It is not important what order the channels are in; however, the channels must be named correctly and be grouped by the device they are on. Below is a description of the information on the respective tab of the channel configuration file.

Analog Input:

- Number of Tasks - the number of devices that have analog input signals that the program will read. Each NI device card counts a one, and the CompactDAQ chassis counts as one
- Channel Name – the channel name for the data or information the channel is receiving
- Device – the name of the device or the device and module that the channel comes from
- Channel – the channel number or name for the device the channel belongs.
- Task – the task number for the device the channel is on. All channels from a task must be in grouped together and tasks must be in order.
- Min and Max – the minimum and maximum voltages for the respective device on the channel
- Type – the type of data being read on the channel. Currently the program is set up to voltage, thermocouple, and RTD. The number after RTD is the number of wires the RTD has
- Thermocouple Type – the type of thermocouple or RTD on the respective channel. For voltage channels put a capital “N”
- Units – the place to enter the units for the scaled voltage reading
- Linear – the multiplier for linear scaling of the voltage to a particular unit
- Offset –the amount that is added to the linear multiplier times the voltage

- Precision – is the number of decimal places that will be visible while the program is running
- On/Off – “1” means the channel is on and will be read, “0” means the channel is off and will not be read
- Highlight – “1” means the data from the channel will be highlighted, “0” means that it will not be highlighted
- Log – “1” mean the data from the channel will be logged in the data file the program creates, “0” means the data will not be logged in the data file
- Chart – “1” means the data will show up on the chart while the program is running, “0” means that it will not

The program will add a channel for every row with channel information until it reads a blank row. The program will not read or add anything written below the first blank row on this page.

Analog Output:

- Number of AO Devices – the number of devices being used that have analog output channels
- Channel Name – the name of the channel
- Device – the name of the device or device and module that the channel is on
- Min and Max – the minimum and maximum voltage outputs for the particular channel

- Task – the number that separates each device. Every channel on each device will have the same task number and the channels from each device must be grouped

Digital Output:

- Number of Modules – the number of digital out modules being used
- Channel Name – the name of the digital out channel
- Device – the name of the device and module the channel is on
- Channel – the digital output channel number. These are listed in consecutive order and every channel has a unique channel number
- Power Source – not required but useful if using different power sources on different modules so they do not get mixed up

The digital output modules must all be in the same CompactDAQ™ chassis in order for the program to operate the properly.

Controls:

This tab is used for any channels that are controlled by the PI code. Currently there is just the indoor valve, outdoor valve, indoor steam, and outdoor steam.

The heaters will be added to this page when the solid state power controllers are installed and the heaters will run similarly to the steam and valves. The different K values are the different coefficients used in the PI calculation. Below is the PI

equation used to control the output voltages on the devices that the program controls.

$$\text{voltage out} = kc + kp * \text{error} + ki * \text{cumulative error} \quad (1)$$

Changes to the K coefficients will change how the program adjusts the output voltage for that channel. The min and max are the user set voltage out limits for that particular channel. When the program is shut down it will save every value on this page that was being used last in the program to this tab.

Real Time Calculations

The Excel™ page that takes care of the calculations is titled postproc and found in the Tables folder. This page is responsible for the air state calculations, refrigerant property calculations, and cooling capacity calculations. This page can be edited to add calculations or change the calculations on the page. Pointers from the program can be added to the sheet to use for calculations, or data calculated on the sheet can be recorded to the data file the program generates. There are three imbedded Visual Basic modules in the file. The first one has the code and equations necessary to do the refrigerant state calculations, the second has the psychrometric equations for the air calculations, and the third had the cooling capacity equations. This sheet will open when the program is started to show real time state and cooling capacity calculations.

Program Operation

The program page has 2 graphs, several buttons and several tabbed sections that contain different information. The graphs show the set point temperatures for the rooms and the current temperatures in the rooms. They are a visual way to see how the conditions of the rooms are compared to where they are supposed to be.

The Start button will start up all the equipment that runs the rooms and will start data collection. The Store Data/Pause Storage/Continue Storage button will start, continue, or pause the program's recording data function. The Next Mode button will change the set points from the current mode to the next mode set points from the ARI210 Excel™ file.

The round green lighted buttons show what devices are running or being powered. Some of these can be manually turned on and off using these buttons.

While the program is running there are several tabs that have different control options or data outputs:

The Status tab will record and show when there are errors associated the operation of the program or the data collecting and recording process.

The Airflow tab shows the static pressures in the chamber and the airflow calculations. The outlet area of the duct directly downstream of the evaporator unit should be inputted into the Outlet Area textbox in cubic feet. The Nozzle Key is the nozzle size configuration for the test.

The Readings tab will show all the analog input channels from the Channel Configuration file.

The Control tab has text boxes with the K coefficients, output voltages, manual heater control, and manual pump control. The coefficient Kc is the value the respective output voltage will start at when the program control is turned on. The K values can be changed by editing them in the text box. The voltage range for the wet-bulb and dry-bulb control channels can be changed by double clicking the label for that channel. Pop up text boxes will show the voltage limits which can be changed. The pumps are manually controlled and the value in the textbox is the output voltage to the VFD. The 0-10 volt control will translate to 0-60 Hz on the VFD. When the heaters are not switched to automatic control, they can be manually controlled by selecting the number of heaters that will be on in the room.

The Pointers tab shows the list of pointer numbers and names for each channel type. These are the inputs and output that the program uses for calculations and controlling the rooms.

The Switches page looks like a switchboard with several switches and the labels associated with them. The “Startup on Cooldown” switch is used for starting the program’s automatic control of the rooms when the Supply Tank Temperature is at or below the set point. The supply tank temperature is the temperature of the coolant in the coolant reservoir that is pumped to the cooling coils in the rooms. The set point is the number in the text box next to the label “Start When CW <”. This value can be changed to correlate with the tank temperature set point that the chiller is using. The tank temperature set point is controlled by the chiller on the west side of the lab. This temperature can be changed at the chiller control panel. The rest of the switch functions

are more intuitive as to what they do based on their labels. Most of them are for switching between manual and automatic control for devices. When manual control is selected for a device, the channel output voltage can be changed on the control tab for the respective device. The only switches that will need to be used for simple cooling capacity testing that is controlled by the program are the Start on Cooldown and the heater switches.

APPENDIX B

INSTRUCTIONS FOR OPERATING THE ROOMS

There are several steps involved in getting the rooms running for testing. These steps will vary depending on the particular test or research being done. This is an overview of how to operate the rooms at the time of this document.

Start by turning on the power to the rooms and all the devices incorporated with the operation of them. The REEL has frequent sound tests that go on in the evenings which typically involve the transformer supplying all the power to the rooms on the west side of the build being shut off. Devices that will need to be turned on include the computer, the three wet-bulb blowers, the condensate scale, the VFDs for the water pumps, chamber blower, etc. The wet-bulb wicks should be replaced at least after every new system installation, if not more frequently.

Open the file C:\PCDAQS Source\Psychro Controller Project.vbproj. This is the code for the program and can be run by pressing the green play arrow. Enter a file name for the data file when the box pops up on the screen. Once the program is running, there is a chart for the indoor room wet and dry-bulb temperatures and a chart for the outdoor room. This is a good time to verify that all the input channels are reading properly and working correctly. Pressing the start button will start up the rooms and the units under test. The program will start recording data once the start button is pressed. Pressing the button again will pause the data storage. To start the program controlling the rooms to the dry-bulb and wet-bulb temperature set points, the switch “Startup on Cooldown”

needs to be switched. When the tank temperature reaches the cool down set temperature then the program will start controlling the rooms. In order for the heaters to automatically run, the two heater switches should be switched to allow for automatic heater control instead of manual heater control. The water pump speeds for both rooms should be set, and the three way valves will adjust to control the temperature in the rooms. In order for the humidity control to work, the boiler will need to be turned on. Flip the switch on the boiler to the position labeled “XX”, open the water fill valve and close the drain valve. At this point the rooms will control themselves to get to the set wet-bulb and dry-bulb temperatures. The program may need periodic adjustments in order to speed the steady state process up by making small changes to the PI control coefficients, the pump speeds, and the voltage limits for the three way valves and steam valves.

Once the unit has been charged according to the manufacturer’s specifications and there is no refrigerant vapor passing through the mass flowmeter, the compressor should be shut down and the valves located before and after the mass flow should be shut to trap only liquid refrigerant. This will allow for the mass flowmeter to be precisely zeroed. The mass flowmeter should be zeroed at least after every new system installation or every time the refrigerant is pulled from the system.

Depending on the size of the system, the airflow chamber nozzle configuration may need to be adjusted along with the assist blower to bring the indoor unit to a particular static pressure. The duct cross-section in square feet will need to be entered

into the airflow tab of the program along with the nozzle configuration in order for the airflow to be calculated correctly.

The rooms usually take about one and a half to two hours to reach and maintain steady state conditions. Once steady state conditions are maintained the data for the test can be collected.

APPENDIX C

INSTRUMENT CALIBRATION INSTRUCTIONS

Instrument calibration for all the temperature measurement and pressure measurement instrumentation can be done in the lab. The lab has a Fluke™ 724 temperature calibrator and a Fluke™ 717 pressure calibrator which are currently calibrated. The temperature calibrator along with a high precision RTD probe and the temperature bath in the calibration room at the lab will allow for calibration of all thermocouples and RTDs over a range of temperatures by comparing the reading of the high precision RTD in the temperature bath on the Fluke™ 724 to the temperature the thermocouple or RTD read by the computer.

The pressure calibration can be done for the refrigerant pressure transducers by using the dead weight tester in the calibration room. The air flow pressure transducers can be calibrated using the standing mechanical monometer and the Fluke™ 717. The air flow pressure transducer can be connected to the manometer and the Fluke™. The manometer can create a pressure that can be verified by the Fluke and compared to the transducers pressure reading on the computer.

These processes can be done in the rooms by bringing in the required equipment and calibrating each device as needed. These methods will be useful when the lab's ISO certification extends to the Psychrometric Facility.

APPENDIX D

TROUBLESHOOTING INSTRUCTIONS

The testing and running that has been accomplished the last year along with interactions with people who have industry experience with psychrometric room testing has provided insight into some troubleshooting methods.

The largest problem that was encountered throughout the restoration process of the rooms was the lack of a balance between the refrigerant and air side enthalpy and cooling capacity calculations. The following is a list of things to check if the primary and secondary cooling capacity calculations do not correlate.

- Check the mass flow meter's zero.
- Check to see if there is any two phasing of the refrigerant through the mass flow meter using the sight glasses and the sub-cooling and superheat temperatures.
- Check for air leaks in the evaporator exit ducting.
- Verify the airflow rates over the wet-bulbs using a hot-wire anemometer.
- Run the indoor room with a dry coil and verify the humidity ratio of the air entering the evaporator correlates with the air exiting the evaporator. This can also be done with the evaporator fan running and the compressor shut off.
- Remove the wicks from the wet-bulbs and make sure the temperatures are the same as the dry-bulbs.

APPENDIX E
EQUATIONS

Psychrometric Equations:

$$\ln p_{ws} = \frac{C_8}{T} + C_9 + C_{10}T + C_{11}T^2 + C_{12}T^3 + C_{13} \ln T \quad (2)$$

$$\begin{aligned} C_8 &= -1.044\ 039\ 7\ E+04 \\ C_9 &= -1.129\ 465\ 0\ E+01 \\ C_{10} &= -2.702\ 235\ 5\ E-02 \\ C_{11} &= 1.289\ 036\ 0\ E-05 \\ C_{12} &= -2.478\ 068\ 1\ E-09 \\ C_{13} &= 6.545\ 967\ 3\ E+00 \end{aligned}$$

p_{ws} = saturation pressure, psia

T = absolute temperature, °R = °F + 459.67

$$W = (1093 - 0.556t^*)Ws^* - \frac{0.240(t - t^*)}{1093 + 0.444t - t^*} \quad (3)$$

W = humidity ratio, lb water vapor/lb dry air

$$Ws = 0.621945 * \frac{p_{ws}}{p - p_{ws}}$$

t = dry-bulb temperature, °F

p = barometric pressure, in/Hg

x^* represents the value calculated using wet-bulb instead of dry-bulb temperature

$$p_w = (p * W) / (0.621945 + W) \quad (4)$$

p_w = partial pressure of water vapor, in/Hg

$$h = 0.240t + W(1061 + 0.444t) \quad (5)$$

h = enthalpy, Btu/lbm

$$\phi = \frac{\bar{\omega}}{1 - (1 - \bar{\omega}) \left(\frac{p_w}{p} \right)} \quad (6)$$

ϕ = relative humidity

$$\mu = \frac{W}{W_s}$$

$\bar{\omega}$ = degree of saturation

$$v = 0.370486 * (t + 459.67) * \frac{1 + 1.607858 W}{p} \quad (7)$$

v = specific volume, ft³/lbm dry air

$$C_{pa} = 0.24 + 0.444 * W \quad (8)$$

C_{pa} = specific heat, Btu/lbm dry air ·° F

Cooling Capacity and Performance equations:

$$q_{tci} = \frac{60Q_{mi}(h_{a1} - h_{a2})}{v'_n(1 + W_n)} \quad (9)$$

q_{tci} = total cooling capacity, indoor side data, Btu/h

W_n = humidity ratio of air at the nozzle, lb water vapor/lb dry air

v'_n = specific volume of air at nozzle, ft³/lbmdry air

Q_{mi} = indoor airflow rate, cfm

h_{a1} = air enthalpy entering indoor coil, Btu/lbm

h_{a2} = air enthalpy exiting indoor coil, Btu/lbm

$$q_{sci} = \frac{60Q_{mi}(C_{pa1}t_{a1} - C_{pa2}t_{a2})}{v'_n(1+Wn)} \quad (10)$$

q_{sci} = sensible cooling capacity, indoor side data, Btu/h

C_{pa1} = specific heat entering the coil, Btu/lbm dry air \cdot ° F

C_{pa2} = specific heat leaving the coil, Btu/lbm dry air \cdot ° F

t_1 = dry-bulb temperature of air entering coil, ° F

t_2 = dry-bulb temperature of air leaving coil, ° F

$$q_{lci} = 1061 \frac{60Q_{mi}(W_1 - W_2)}{v'_n(1+Wn)} \quad (11)$$

q_{lci} = latent cooling capacity, indoor side data, Btu/h

W_1 = humidity ratio of air entering indoor coil, lb water vapor/lb dry air

W_2 = humidity ratio of air exiting the indoor coil, lb water vapor/lb dry air

$$q_{trci} = xw_{ro}(h_{r1} - h_{r2}) - 3.41E_i \quad (12)$$

q_{trc} = total refrigerant cooling capacity, Btu/h

h_{r1} = refrigerant enthalpy entering indoor coil, Btu/lbm

h_{r2} = refrigerant enthalpy exiting indoor coil, Btu/lbm

x = refrigerant to refrigerant-oil mixture mass ratio

w_{ro} = refrigerant-oil mixture mass flow rate, lbm/h

E_i = power input indoor side, watts

EER = cooling capacity in Btu/h to the power input value in watts, (Btu/h)/(W*h)

$$SEER = PLF(0.5) * EER_B \quad (13)$$

$$PLF(0.5) = 1 - 0.5 * C_D^c$$

EER_B = EER for Test B conditions

Airflow equations:

$$Q_{mi} = 1097.8Y\sqrt{\Delta P/\rho_s} \sum(CA_6) \quad (14)$$

$$Y = 1 - (0.548)(1 - \alpha) \quad (15)$$

Y = expansion factor

ΔP = differential pressure across the nozzle, in. wg

ρ_s = density of air at the nozzle, lb/ft³

A_6 = nozzle opening area, ft²

$$C = 0.9986 - \left(\frac{7.006}{\sqrt{Re}}\right) + \left(\frac{134.6}{Re}\right) \quad (16)$$

C = discharge coefficient

Re = Reynolds number

APPENDIX F
DATA FROM TESTS

The following pages include the raw test data for all six tests that were run for this document. The first table in this section shows the average values for all six tests compared to each other. The next six tables are the data from the individual tests starting with the first Test A and ending with the third Test B.

Table F-1

Average Data for all tests

Test	Barometric Pres mBar	Evap Air Static Pres in/H2O	Supply Tank Temp C	Refrig Temp Before MFM C	Refrig Temp After MFM C	Evap Air Exit Drybulb C	Refrig Temp Comp In C	Refrig Temp Cond Out C	Refrig Temp Comp Out Cond In C	Refrig Temp Evap In C	Refrig Temp Evap Out C	Indoor Air Temp C	Evap Air Nozzle Temp C	Indoor Wetbulb C	Evap Air Exit Wetbulb C
1A	1002.12	0.136	13.32	40.50	40.41	15.66	15.26	40.73	76.05	39.60	14.29	26.70	16.97	19.48	13.90
2A	1003.20	0.119	13.76	40.43	40.34	15.69	14.52	40.66	75.66	39.55	12.77	26.68	17.04	19.35	13.87
3A	1001.21	0.120	21.73	40.37	40.31	15.90	15.63	40.65	77.26	39.56	14.65	26.63	17.12	19.38	13.82
1B	1001.19	0.141	14.29	33.70	33.62	15.27	14.80	33.96	66.16	33.13	14.05	26.66	16.55	19.33	13.28
2B	1001.15	0.141	14.06	33.72	33.64	15.31	14.90	33.99	66.22	33.16	14.20	26.67	16.60	19.38	13.34
3B	1000.44	0.119	15.32	33.66	33.59	15.51	15.22	33.94	66.90	33.14	14.50	26.65	16.75	19.46	13.55

Pres = Pressure

Temp = Temperature

Evap = Evaporator

Cond = Condenser

Refrig = Refrigerant

Comp = Compressor

MFM = Mass Flow Meter

Noz = Chamber Nozzle

Chamber = Airflow Chamber

Rho = Density

Table F-1. Continued

Test	Outdoor Wetbulb C	Outdoor Air Temp C	Cond Power kW	Cond Voltage V	Evap Air Chamber Pres in/H2O	Evap Air Diff Pres in/H2O	Evap Noz Static Pres in/H2O	MFM Refrig lb/min	Evap Voltage V	Evap Power kW	Refrig Press Before MFM psig	Refrig Press After MFM psig	Refrig Press Evap In psig	Refrig Press Evap Out psig
1A	21.40	35.02	1.91	244.33	0.172	0.315	0.170	5.76	243.45	0.1377	386.41	388.34	384.25	134.90
2A	22.05	35.01	1.91	244.13	0.151	0.322	0.146	5.73	243.16	0.1353	385.67	387.56	383.31	134.10
3A	22.43	35.06	1.91	244.29	0.149	0.316	0.148	5.69	243.72	0.1354	386.38	388.24	384.11	134.05
1B	17.94	27.78	1.64	244.98	0.170	0.311	0.170	5.64	244.56	0.1381	321.56	323.03	319.04	130.48
2B	18.02	27.79	1.64	244.99	0.169	0.311	0.170	5.65	244.74	0.1385	321.84	323.24	319.26	130.67
3B	18.79	27.82	1.64	244.05	0.148	0.319	0.148	5.64	243.54	0.1356	322.22	323.67	319.68	130.84

Table F-1. Continued

Test	Refrig Press Comp In psig	Refrig Press Cond Out psig	Refrig Press Comp Out Cond In psig	Evap Air Rho Inlet lb/ft ³	Evap Air Rho Nozzle lb/ft ³	Evap Air CFM Nozzle CFM	Evap Air CFM Outlet CFM	Total Cooling Capacity Btu/hr	Sensible Cooling Capacity Btu/hr	Latent Cooling Capacity Btu/hr	Degree of Sub- cooling F	Degree of Super- heat F	Refrig Cooling Capacity Btu/hr
1A	134.95	386.01	403.75	0.07220	0.07459	770.83	766.76	24091.19	16629.45	7461.75	10.16	10.68	23951.27
2A	134.27	384.91	402.81	0.07229	0.07466	780.75	776.51	23880.56	16766.62	7113.94	10.05	8.54	23625.75
3A	133.84	385.83	403.10	0.07215	0.07448	776.45	772.58	24045.70	16277.81	7767.88	10.22	11.83	23719.52
1B	130.24	321.39	338.97	0.07215	0.07464	766.61	762.62	25682.75	17122.29	8560.46	8.41	12.20	25223.34
2B	130.49	321.70	339.29	0.07214	0.07462	767.17	763.18	25708.32	17085.20	8623.12	8.43	12.38	25271.35
3B	131.04	322.05	339.44	0.07208	0.07451	775.83	771.90	25532.41	16890.19	8642.21	8.55	12.81	25285.30

Table F-2

Data from the first A test

Barometric Pres mBar	Evap Static Pres in/H2O	Supply Tank Temp C	Refrig Temp Before MFM C	Refrig Temp After MFM C	Evap Exit Drybulb C	Refrig Temp Comp In C	Refrig Temp Cond Out C	Refrig Temp Comp Out In C	Refrig Temp Evap In C	Refrig Temp Evap Out C	Indoor Temp C	Evap Nozzle Temp C
1002.2	0.138	13.24	40.22	40.16	15.59	15.37	40.54	75.77	39.49	14.94	26.69	16.93
1002.1	0.123	13.24	40.41	40.28	15.64	15.34	40.61	75.70	39.45	13.93	26.71	16.92
1002.1	0.103	13.39	40.47	40.29	15.64	15.24	40.71	75.63	39.38	12.61	26.73	16.95
1002.1	0.138	13.25	40.56	40.37	15.66	15.09	40.74	75.64	39.39	12.10	26.63	16.96
1002.3	0.141	13.24	40.51	40.44	15.58	14.99	40.69	75.65	39.45	12.17	26.68	16.99
1002.1	0.152	13.29	40.43	40.36	15.63	14.89	40.55	75.73	39.55	14.72	26.68	16.99
1002.0	0.141	13.28	40.32	40.25	15.65	15.01	40.56	75.80	39.50	15.43	26.71	16.93
1002.2	0.141	13.31	40.30	40.23	15.64	15.15	40.49	75.88	39.60	15.28	26.65	16.90
1002.3	0.138	13.23	40.30	40.20	15.61	15.27	40.52	75.80	39.40	15.14	26.61	16.98
1002.2	0.139	13.16	40.36	40.26	15.63	15.36	40.61	75.85	39.47	14.42	26.68	16.94
1002.2	0.122	13.24	40.44	40.33	15.60	15.43	40.69	75.83	39.47	14.35	26.67	16.94
1002.2	0.157	13.22	40.49	40.36	15.64	15.31	40.77	75.78	39.43	12.18	26.71	16.93
1002.4	0.125	13.29	40.54	40.49	15.62	15.17	40.79	75.89	39.46	13.24	26.64	16.97
1002.1	0.163	13.20	40.58	40.42	15.62	15.08	40.80	75.90	39.52	13.75	26.67	16.99
1002.1	0.128	13.22	40.50	40.37	15.64	15.04	40.73	75.99	39.57	14.97	26.68	16.97
1002.1	0.142	13.26	40.41	40.36	15.64	15.18	40.66	76.07	39.58	15.43	26.63	16.99
1002.2	0.154	13.25	40.38	40.36	15.66	15.31	40.68	76.08	39.60	15.43	26.70	17.02
1002.1	0.138	13.26	40.46	40.36	15.60	15.44	40.70	76.02	39.55	14.61	26.71	16.95
1002.2	0.146	13.24	40.62	40.48	15.69	15.41	40.84	76.11	39.56	13.71	26.71	16.95
1001.8	0.120	13.26	40.71	40.55	15.63	15.30	40.92	76.03	39.59	13.64	26.66	16.91
1002.1	0.158	13.23	40.62	40.54	15.60	15.24	40.86	76.07	39.58	14.94	26.73	16.94
1002.1	0.139	13.22	40.59	40.52	15.68	15.32	40.78	76.24	39.67	15.54	26.57	17.00
1002.2	0.134	13.26	40.55	40.45	15.66	15.50	40.79	76.27	39.69	15.58	26.68	17.02
1002.2	0.138	13.25	40.59	40.46	15.63	15.61	40.80	76.23	39.70	14.97	26.70	16.90
1002.4	0.142	13.18	40.63	40.54	15.63	15.61	40.94	76.27	39.67	13.83	26.65	16.95
1001.7	0.152	13.25	40.74	40.60	15.66	15.43	40.98	76.20	39.66	12.54	26.73	16.93
1002.1	0.152	13.16	40.76	40.61	15.66	15.29	41.00	76.21	39.70	12.40	26.74	16.97
1002.1	0.136	13.21	40.74	40.70	15.65	15.17	40.98	76.21	39.80	14.24	26.70	16.98
1002.2	0.149	13.23	40.76	40.65	15.62	15.14	40.96	76.25	39.76	14.80	26.75	16.84
1002.2	0.134	13.13	40.67	40.61	15.66	15.20	40.90	76.31	39.79	15.12	26.67	16.97
1002.5	0.156	13.21	40.63	40.57	15.67	15.27	40.78	76.32	39.82	15.13	26.62	16.89
1002.2	0.176	13.19	40.56	40.52	15.66	15.38	40.80	76.32	39.75	15.29	26.69	16.99
1002.1	0.117	13.24	40.61	40.51	15.65	15.52	40.86	76.30	39.75	15.15	26.74	17.01
1002.2	0.140	13.32	40.65	40.55	15.63	15.54	40.90	76.34	39.74	14.13	26.66	16.95
1001.9	0.121	13.28	40.67	40.59	15.59	15.54	40.97	76.28	39.76	14.50	26.67	16.96
1002.2	0.131	13.28	40.67	40.58	15.62	15.53	40.94	76.28	39.71	14.63	26.69	16.92
1002.0	0.156	13.22	40.75	40.59	15.61	15.48	40.92	76.28	39.72	14.25	26.69	16.94
1002.3	0.132	13.39	40.75	40.67	15.59	15.43	41.01	76.33	39.72	14.20	26.73	16.89
1002.3	0.130	13.21	40.76	40.64	15.66	15.31	40.96	76.27	39.79	12.17	26.68	16.93
1002.2	0.162	13.17	40.71	40.63	15.61	15.19	40.95	76.18	39.80	14.37	26.71	16.93
1002.5	0.124	13.25	40.72	40.62	15.65	15.19	40.94	76.22	39.77	14.64	26.65	16.91
1002.3	0.127	13.37	40.69	40.56	15.64	15.18	40.85	76.15	39.79	14.58	26.69	16.96
1002.0	0.129	13.34	40.52	40.56	15.70	15.21	40.82	76.16	39.81	14.97	26.70	17.05
1001.4	0.148	13.20	40.54	40.51	15.65	15.32	40.74	76.17	39.79	15.40	26.65	16.90
1002.2	0.134	13.30	40.38	40.39	15.66	15.45	40.64	76.17	39.75	15.37	26.72	16.99
1002.1	0.164	13.21	40.39	40.34	15.61	15.55	40.67	76.21	39.71	14.91	26.76	17.01
1001.6	0.100	13.29	40.49	40.35	15.65	15.63	40.70	76.14	39.64	15.29	26.66	16.91
1002.0	0.133	13.31	40.47	40.40	15.67	15.67	40.70	76.14	39.66	15.26	26.71	16.97
1002.1	0.143	13.24	40.46	40.37	15.62	15.66	40.71	76.09	39.56	14.28	26.77	16.99
1001.9	0.146	13.41	40.47	40.43	15.69	15.60	40.71	76.11	39.59	14.12	26.69	16.95

1002.1	0.149	13.28	40.50	40.43	15.67	15.50	40.76	76.02	39.62	12.55	26.67	17.00
1002.1	0.089	13.28	40.47	40.44	15.66	15.29	40.67	76.00	39.62	13.54	26.69	16.95
1002.3	0.157	13.17	40.51	40.39	15.66	15.21	40.75	75.97	39.58	13.28	26.71	16.94
1002.2	0.130	13.25	40.46	40.41	15.69	15.03	40.68	75.93	39.59	12.44	26.69	16.94
1002.2	0.098	13.20	40.46	40.37	15.67	14.93	40.67	75.90	39.61	13.52	26.70	16.95
1002.1	0.126	13.23	40.50	40.36	15.68	14.78	40.72	75.86	39.57	12.09	26.69	16.96
1002.1	0.161	13.26	40.41	40.37	15.66	14.76	40.63	75.78	39.61	14.58	26.73	16.92
1002.1	0.127	13.12	40.36	40.27	15.68	14.86	40.50	75.81	39.57	15.26	26.69	17.02
1002.0	0.153	13.26	40.21	40.24	15.67	15.01	40.41	75.80	39.55	15.21	26.72	17.02
1002.0	0.137	13.23	40.11	40.11	15.65	15.21	40.39	75.84	39.53	15.37	26.67	17.01
1002.0	0.155	13.21	40.10	40.12	15.63	15.41	40.41	75.80	39.46	15.42	26.70	16.99
1002.3	0.110	13.34	40.19	40.09	15.66	15.47	40.43	75.80	39.40	15.05	26.67	17.00
1002.3	0.143	13.27	40.23	40.17	15.64	15.58	40.47	75.72	39.29	14.74	26.72	16.99
1002.1	0.146	13.27	40.33	40.17	15.65	15.55	40.53	75.69	39.35	12.95	26.72	16.91
1002.0	0.137	13.36	40.31	40.21	15.64	15.42	40.63	75.71	39.30	14.12	26.73	16.99
1002.1	0.138	13.38	40.29	40.32	15.64	15.30	40.65	75.73	39.38	14.02	26.67	16.92
1002.0	0.148	13.32	40.39	40.29	15.66	15.21	40.63	75.69	39.44	13.83	26.72	16.95
1002.0	0.144	13.27	40.41	40.30	15.67	15.17	40.58	75.73	39.46	14.33	26.69	16.95
1002.2	0.135	13.29	40.31	40.29	15.68	15.17	40.53	75.72	39.45	15.00	26.67	17.04
1002.1	0.164	13.24	40.25	40.22	15.66	15.24	40.41	75.78	39.44	15.19	26.63	16.96
1002.2	0.128	13.33	40.22	40.15	15.64	15.37	40.39	75.89	39.47	15.28	26.70	16.95
1002.1	0.145	13.38	40.24	40.16	15.68	15.45	40.49	75.79	39.45	14.58	26.67	17.03
1002.1	0.116	13.31	40.32	40.16	15.71	15.43	40.58	75.76	39.41	14.41	26.69	16.99
1002.2	0.145	13.36	40.43	40.29	15.67	15.35	40.66	75.80	39.37	13.08	26.67	16.92
1002.2	0.116	13.31	40.48	40.34	15.62	15.26	40.73	75.75	39.37	13.58	26.71	17.00
1002.0	0.142	13.32	40.53	40.45	15.66	15.14	40.78	75.79	39.41	13.74	26.62	16.94
1002.1	0.171	13.43	40.56	40.42	15.63	15.10	40.79	75.80	39.54	14.30	26.72	16.98
1002.1	0.159	13.19	40.46	40.38	15.65	15.02	40.70	75.84	39.59	14.52	26.64	16.91
1002.1	0.148	13.38	40.47	40.39	15.63	15.05	40.68	75.88	39.55	14.61	26.67	16.93
1002.2	0.130	13.31	40.44	40.44	15.65	15.10	40.65	75.93	39.63	14.31	26.73	17.06
1002.2	0.165	13.38	40.42	40.33	15.68	15.20	40.60	75.92	39.57	15.08	26.69	16.96
1002.1	0.134	13.37	40.40	40.32	15.67	15.29	40.62	75.96	39.59	15.39	26.71	16.96
1002.1	0.151	13.31	40.41	40.30	15.63	15.46	40.64	76.04	39.55	15.56	26.66	17.08
1002.2	0.130	13.33	40.48	40.34	15.67	15.58	40.70	76.10	39.54	15.31	26.69	16.97
1002.2	0.131	13.18	40.48	40.37	15.63	15.66	40.76	76.06	39.58	14.57	26.68	16.97
1002.1	0.117	13.28	40.64	40.43	15.65	15.59	40.90	76.12	39.53	12.96	26.67	16.89
1002.2	0.148	13.33	40.74	40.55	15.66	15.33	40.96	76.05	39.60	13.37	26.71	16.95
1002.1	0.116	13.20	40.74	40.63	15.63	15.09	41.02	76.09	39.61	13.15	26.65	17.01
1002.2	0.149	13.33	40.69	40.62	15.63	15.06	40.90	76.15	39.64	14.43	26.70	16.95
1001.9	0.106	13.28	40.61	40.56	15.67	15.06	40.85	76.22	39.74	15.02	26.68	16.92
1002.3	0.110	13.35	40.58	40.47	15.69	15.17	40.79	76.23	39.76	15.18	26.74	17.02
1002.2	0.124	13.41	40.62	40.54	15.66	15.30	40.82	76.29	39.81	15.23	26.66	16.95
1001.9	0.149	13.37	40.52	40.53	15.58	15.39	40.82	76.23	39.73	14.81	26.70	16.95
1002.1	0.118	13.22	40.63	40.53	15.65	15.43	40.88	76.23	39.69	14.51	26.63	16.93
1002.3	0.158	13.32	40.74	40.56	15.66	15.31	40.98	76.29	39.67	13.50	26.73	16.94
1002.1	0.146	13.27	40.79	40.67	15.65	15.28	41.06	76.29	39.73	13.63	26.69	16.87
1001.9	0.110	13.24	40.78	40.72	15.68	15.18	40.96	76.27	39.70	14.21	26.69	16.94
1002.2	0.120	13.30	40.76	40.71	15.66	15.22	40.98	76.28	39.77	15.04	26.71	16.98
1001.9	0.168	13.20	40.65	40.60	15.70	15.30	40.94	76.35	39.81	15.43	26.66	16.98
1002.2	0.162	13.32	40.58	40.52	15.64	15.40	40.79	76.39	39.85	15.49	26.71	16.89
1002.2	0.147	13.38	40.66	40.49	15.72	15.57	40.83	76.42	39.80	15.41	26.71	17.01
1002.6	0.132	13.39	40.63	40.53	15.72	15.65	40.87	76.36	39.78	15.15	26.66	16.98
1002.2	0.163	13.36	40.59	40.52	15.69	15.67	40.89	76.37	39.76	15.25	26.67	16.94
1002.3	0.126	13.26	40.71	40.59	15.67	15.73	40.93	76.37	39.73	14.40	26.64	17.06
1002.2	0.163	13.36	40.72	40.66	15.66	15.66	41.01	76.34	39.71	13.43	26.67	16.93
1002.3	0.126	13.31	40.82	40.68	15.70	15.47	41.03	76.33	39.71	13.40	26.65	16.90
1002.2	0.132	13.32	40.84	40.67	15.62	15.26	41.03	76.28	39.78	11.96	26.67	17.01
1002.1	0.172	13.33	40.72	40.68	15.63	15.11	40.97	76.24	39.82	14.22	26.73	17.00
1002.1	0.143	13.32	40.68	40.68	15.67	15.14	40.87	76.25	39.85	14.96	26.71	17.04

1001.7	0.131	13.47	40.55	40.50	15.67	15.20	40.80	76.36	39.82	15.18	26.70	16.96
1002.0	0.131	13.21	40.52	40.47	15.71	15.31	40.76	76.29	39.80	14.71	26.68	16.98
1002.1	0.108	13.23	40.58	40.43	15.67	15.30	40.81	76.15	39.79	12.55	26.68	16.89
1002.0	0.102	13.19	40.70	40.56	15.65	15.13	40.94	76.16	39.72	10.63	26.72	16.99
1002.3	0.140	13.33	40.67	40.64	15.70	14.85	40.91	76.09	39.71	12.47	26.65	16.98
1002.2	0.142	13.20	40.56	40.54	15.70	14.77	40.80	76.04	39.72	13.54	26.70	16.94
1002.2	0.142	13.23	40.52	40.47	15.71	14.79	40.74	76.05	39.74	14.71	26.68	16.99
1002.3	0.127	13.32	40.40	40.39	15.69	14.87	40.59	76.00	39.80	15.07	26.66	16.96
1002.2	0.164	13.35	40.31	40.31	15.71	15.08	40.48	76.06	39.68	15.38	26.71	17.04
1002.1	0.107	13.28	40.24	40.25	15.68	15.23	40.47	76.09	39.71	15.13	26.71	16.95
1002.1	0.117	13.35	40.27	40.27	15.63	15.27	40.50	75.99	39.60	14.81	26.72	16.97
1002.3	0.117	13.36	40.27	40.18	15.62	15.38	40.51	75.95	39.48	14.67	26.70	17.00
1002.2	0.132	13.34	40.37	40.22	15.64	15.40	40.53	75.97	39.45	13.81	26.71	16.96
1002.4	0.141	13.23	40.38	40.27	15.65	15.40	40.57	75.90	39.39	14.05	26.70	16.96
1002.1	0.127	13.31	40.39	40.26	15.64	15.27	40.58	75.84	39.45	13.31	26.73	16.93
1002.3	0.130	13.19	40.38	40.27	15.67	15.24	40.58	75.82	39.43	14.19	26.77	16.97
1002.0	0.139	13.25	40.38	40.27	15.69	15.18	40.53	75.79	39.42	13.51	26.71	16.97
1002.1	0.143	13.25	40.24	40.18	15.68	15.14	40.43	75.78	39.43	14.81	26.75	16.98
1002.3	0.091	13.34	40.19	40.16	15.68	15.16	40.44	75.85	39.46	14.75	26.70	17.03
1002.3	0.125	13.21	40.12	40.12	15.69	15.25	40.34	75.81	39.42	15.32	26.73	16.96
1001.9	0.117	13.21	40.13	40.08	15.71	15.40	40.35	75.75	39.39	15.50	26.78	17.00
1002.4	0.159	13.22	40.08	40.08	15.68	15.50	40.34	75.86	39.34	15.02	26.69	16.94
1001.9	0.151	13.26	40.17	40.03	15.70	15.56	40.44	75.80	39.35	14.76	26.71	16.94
1002.2	0.139	13.22	40.23	40.03	15.63	15.57	40.50	75.78	39.20	12.54	26.74	16.98
1002.1	0.109	13.20	40.27	40.20	15.64	15.48	40.57	75.77	39.29	14.38	26.69	17.00
1002.2	0.149	13.26	40.29	40.24	15.71	15.29	40.53	75.79	39.35	14.17	26.70	16.96
1001.3	0.138	13.28	40.27	40.20	15.65	15.28	40.51	75.90	39.33	14.98	26.62	17.02
1002.1	0.122	13.29	40.21	40.14	15.68	15.35	40.44	75.90	39.42	15.07	26.72	17.01
1002.4	0.103	13.29	40.25	40.16	15.70	15.36	40.50	75.85	39.40	13.68	26.72	16.93
1002.2	0.147	13.17	40.27	40.19	15.70	15.39	40.52	75.77	39.38	14.55	26.73	16.97
1002.0	0.120	13.20	40.36	40.21	15.66	15.29	40.59	75.85	39.38	13.83	26.61	17.01
1002.3	0.128	13.17	40.41	40.26	15.64	15.24	40.61	75.79	39.38	13.02	26.71	16.94
1002.1	0.149	13.25	40.45	40.27	15.66	15.05	40.62	75.75	39.40	12.81	26.73	16.95
1002.2	0.112	13.26	40.45	40.32	15.67	14.89	40.65	75.79	39.46	13.10	26.70	16.95
1002.4	0.138	13.22	40.41	40.33	15.70	14.81	40.65	75.78	39.46	13.63	26.72	16.98
1002.0	0.160	13.15	40.38	40.30	15.66	14.78	40.61	75.80	39.46	14.01	26.72	17.07
1002.2	0.167	13.12	40.38	40.30	15.72	14.83	40.58	75.81	39.52	14.20	26.61	17.03
1002.3	0.102	13.17	40.40	40.26	15.70	14.85	40.63	75.80	39.53	14.74	26.68	17.02
1002.2	0.139	13.13	40.35	40.29	15.70	15.04	40.55	75.83	39.50	14.53	26.71	17.01
1002.1	0.137	13.19	40.31	40.25	15.72	15.09	40.55	75.91	39.48	14.71	26.76	17.02
1002.2	0.162	13.27	40.37	40.27	15.70	15.16	40.57	75.92	39.50	14.92	26.73	16.95
1002.3	0.152	13.26	40.37	40.28	15.68	15.27	40.58	75.96	39.39	14.97	26.73	17.01
1002.1	0.104	13.23	40.38	40.28	15.64	15.36	40.63	76.07	39.42	14.57	26.73	16.93
1002.1	0.140	13.17	40.40	40.31	15.69	15.40	40.67	76.09	39.47	14.31	26.64	16.93
1002.1	0.114	13.33	40.47	40.37	15.65	15.42	40.69	76.08	39.42	14.16	26.75	16.95
1002.1	0.115	13.38	40.47	40.39	15.64	15.42	40.74	76.15	39.51	14.80	26.71	16.98
1002.3	0.138	13.29	40.52	40.38	15.68	15.43	40.78	76.15	39.56	14.54	26.68	16.96
1002.1	0.134	13.25	40.51	40.40	15.69	15.41	40.74	76.11	39.53	14.54	26.71	16.94
1002.1	0.127	13.38	40.53	40.42	15.71	15.33	40.82	76.22	39.56	14.31	26.70	17.01
1002.2	0.126	13.42	40.60	40.51	15.70	15.35	40.81	76.21	39.60	14.78	26.72	17.02
1002.1	0.141	13.31	40.60	40.41	15.71	15.32	40.81	76.21	39.62	14.48	26.74	17.00
1002.1	0.137	13.37	40.60	40.50	15.70	15.31	40.79	76.26	39.61	14.32	26.71	16.98
1002.1	0.139	13.39	40.65	40.51	15.70	15.28	40.88	76.25	39.66	14.21	26.71	17.04
1002.1	0.156	13.46	40.64	40.51	15.71	15.21	40.85	76.25	39.70	14.42	26.78	16.97
1002.1	0.146	13.57	40.62	40.51	15.71	15.20	40.88	76.29	39.72	14.43	26.70	17.00
1002.1	0.097	13.48	40.71	40.51	15.61	15.23	40.88	76.29	39.70	14.24	26.72	16.99
1002.0	0.123	13.59	40.68	40.54	15.71	15.18	40.85	76.23	39.72	14.42	26.67	16.99
1002.3	0.154	13.55	40.65	40.56	15.72	15.22	40.87	76.33	39.73	14.69	26.71	16.98
1001.4	0.124	13.58	40.67	40.60	15.71	15.24	40.91	76.30	39.75	14.43	26.78	16.97

1002.1	0.131	13.57	40.67	40.56	15.71	15.23	40.81	76.33	39.72	14.31	26.77	16.96
1002.0	0.120	13.51	40.69	40.52	15.72	15.22	40.92	76.37	39.69	14.43	26.69	17.07
1002.0	0.141	13.66	40.66	40.62	15.76	15.23	40.98	76.30	39.75	13.91	26.82	16.99
1002.0	0.167	13.71	40.68	40.61	15.71	15.20	40.89	76.38	39.71	14.22	26.76	17.02
1002.1	0.132	13.59	40.76	40.68	15.73	15.20	40.97	76.34	39.77	14.22	26.76	16.99
1002.1	0.114	13.67	40.71	40.67	15.74	15.15	40.91	76.30	39.82	14.18	26.72	16.97
1002.2	0.143	13.66	40.67	40.57	15.73	15.13	40.92	76.33	39.79	14.28	26.70	16.95
1002.0	0.133	13.76	40.69	40.60	15.73	15.14	40.90	76.38	39.88	14.26	26.70	17.01
1002.3	0.164	13.79	40.66	40.55	15.69	15.14	40.91	76.30	39.79	14.25	26.73	17.05
1002.2	0.143	13.85	40.61	40.52	15.72	15.09	40.83	76.28	39.77	13.72	26.73	17.06
1002.2	0.115	13.70	40.64	40.50	15.63	15.06	40.85	76.32	39.74	13.69	26.69	16.96
1002.0	0.154	13.75	40.62	40.55	15.67	15.03	40.80	76.27	39.78	13.83	26.72	17.03
1002.1	0.125	13.91	40.57	40.50	15.63	14.97	40.81	76.24	39.75	13.01	26.62	17.02
1002.0	0.112	13.85	40.58	40.52	15.58	14.93	40.80	76.27	39.74	13.49	26.64	16.95

Table F-2. Continued

Indoor Wetbulb C	Evap		Outdoor Temp C	Cond Power kW	Cond Voltage V	Evap Chamber Pres in/H2O	Evap Diff Pres in/H2O	Evap			Evap Power kW	Refrig Press Before MFM psig	Refrig Press After MFM psig
	Exit Wetbulb C	Outdoor Wetbulb C						Static Pres in/H2O	MFM Refrig lb/min	Evap Voltage V			
19.43	13.89	21.27	34.89	1.89	245.11	0.173	0.323	0.170	5.84	241.92	0.14	385.17	386.60
19.43	13.88	21.27	34.89	1.90	244.25	0.172	0.299	0.182	5.81	240.71	0.13	383.47	386.45
19.43	13.88	21.27	34.88	1.91	243.33	0.171	0.302	0.169	5.74	238.04	0.14	384.40	386.14
19.42	13.88	21.27	34.89	1.91	242.91	0.176	0.299	0.172	5.75	242.11	0.14	384.35	386.70
19.42	13.87	21.28	34.89	1.89	241.43	0.177	0.340	0.165	5.67	245.21	0.14	384.86	387.11
19.41	13.88	21.27	34.89	1.89	240.93	0.165	0.359	0.169	5.69	242.65	0.14	386.45	388.19
19.41	13.88	21.28	34.90	1.90	244.99	0.166	0.299	0.164	5.78	243.68	0.13	386.86	390.50
19.41	13.88	21.28	34.90	1.89	242.68	0.172	0.314	0.172	5.79	241.76	0.14	384.24	386.29
19.41	13.88	21.28	34.90	1.90	248.24	0.175	0.324	0.176	5.78	241.08	0.14	385.63	387.37
19.42	13.88	21.29	34.91	1.90	242.59	0.172	0.305	0.182	5.81	242.80	0.14	384.81	387.53
19.42	13.86	21.29	34.91	1.89	244.22	0.175	0.311	0.181	5.80	245.27	0.14	382.40	387.73
19.42	13.88	21.30	34.92	1.91	244.41	0.172	0.319	0.167	5.77	244.43	0.14	386.76	388.40
19.42	13.88	21.30	34.94	1.90	243.13	0.166	0.332	0.160	5.65	241.92	0.14	386.86	389.12
19.42	13.88	21.30	34.94	1.89	246.74	0.174	0.337	0.158	5.66	238.91	0.14	385.94	388.96
19.43	13.88	21.30	34.95	1.92	247.02	0.179	0.325	0.175	5.74	241.02	0.13	389.02	390.14
19.43	13.89	21.31	34.96	1.90	241.90	0.166	0.312	0.160	5.80	242.63	0.14	386.71	388.76
19.43	13.88	21.31	34.97	1.91	241.67	0.182	0.308	0.171	5.79	245.58	0.14	386.60	387.99
19.43	13.89	21.32	34.98	1.90	244.01	0.176	0.330	0.170	5.81	243.05	0.14	387.17	388.35
19.43	13.89	21.32	34.99	1.91	245.41	0.172	0.324	0.177	5.81	242.31	0.14	386.81	389.42
19.43	13.88	21.33	35.00	1.90	240.19	0.173	0.282	0.174	5.62	239.22	0.14	386.66	388.35
19.44	13.89	21.33	35.01	1.92	240.34	0.180	0.310	0.167	5.64	237.92	0.13	388.61	390.24
19.43	13.89	21.33	35.03	1.92	243.93	0.178	0.340	0.168	5.83	243.08	0.14	389.43	389.22
19.44	13.88	21.34	35.03	1.92	248.05	0.164	0.301	0.169	5.83	241.28	0.14	388.09	389.06
19.43	13.90	21.34	35.04	1.91	246.56	0.168	0.310	0.168	5.82	242.19	0.14	388.71	389.83
19.43	13.90	21.35	35.06	1.92	240.97	0.168	0.323	0.165	5.84	238.97	0.14	388.14	392.19
19.43	13.89	21.36	35.07	1.92	245.79	0.174	0.327	0.158	5.73	243.14	0.14	387.63	387.27
19.43	13.88	21.36	35.07	1.93	242.37	0.167	0.313	0.169	5.71	239.36	0.13	387.53	389.73
19.43	13.89	21.36	35.10	1.93	244.34	0.174	0.329	0.187	5.72	245.81	0.13	389.79	390.91
19.42	13.89	21.36	35.10	1.91	244.99	0.176	0.334	0.168	5.67	242.28	0.14	388.04	389.47
19.42	13.89	21.37	35.10	1.91	246.27	0.177	0.306	0.173	5.75	244.40	0.14	388.71	390.81
19.42	13.89	21.37	35.12	1.91	242.14	0.177	0.324	0.173	5.76	244.80	0.13	388.09	390.60
19.41	13.89	21.37	35.12	1.92	243.34	0.176	0.310	0.171	5.76	242.65	0.14	388.81	389.12
19.41	13.89	21.38	35.12	1.92	244.08	0.171	0.304	0.174	5.81	246.49	0.14	387.22	388.65
19.41	13.87	21.38	35.13	1.90	244.70	0.159	0.317	0.163	5.78	242.42	0.13	388.40	390.40
19.41	13.88	21.38	35.13	1.92	242.65	0.175	0.324	0.166	5.78	247.98	0.14	386.40	388.40
19.41	13.88	21.38	35.13	1.92	240.22	0.165	0.313	0.168	5.80	246.07	0.13	387.48	387.73
19.41	13.88	21.38	35.13	1.92	244.47	0.171	0.301	0.173	5.77	244.84	0.14	388.61	390.86
19.41	13.88	21.39	35.14	1.92	248.10	0.183	0.316	0.169	5.76	242.89	0.14	388.55	390.30
19.42	13.87	21.38	35.14	1.92	243.74	0.179	0.333	0.156	5.75	244.11	0.14	387.22	389.06
19.42	13.88	21.39	35.13	1.91	243.64	0.170	0.318	0.169	5.77	243.17	0.14	387.68	390.76
19.43	13.89	21.39	35.14	1.92	245.51	0.173	0.333	0.170	5.74	241.62	0.13	387.07	388.86
19.43	13.89	21.39	35.13	1.91	243.40	0.169	0.314	0.162	5.74	245.60	0.14	387.94	388.55
19.43	13.89	21.39	35.12	1.92	244.82	0.167	0.334	0.167	5.75	244.18	0.14	386.96	389.63
19.43	13.91	21.39	35.12	1.92	244.21	0.164	0.298	0.170	5.75	247.39	0.14	387.63	388.45
19.43	13.89	21.38	35.11	1.90	243.94	0.168	0.306	0.164	5.76	243.74	0.14	387.32	387.47
19.43	13.90	21.38	35.11	1.91	246.71	0.176	0.327	0.167	5.78	239.62	0.14	387.53	389.27
19.44	13.90	21.38	35.10	1.93	245.56	0.163	0.331	0.171	5.78	247.81	0.14	386.50	388.50
19.44	13.90	21.38	35.09	1.91	246.38	0.169	0.297	0.163	5.76	243.92	0.14	385.22	387.63
19.44	13.90	21.38	35.08	1.91	244.39	0.172	0.311	0.170	5.81	248.31	0.14	385.27	387.32
19.44	13.91	21.38	35.07	1.90	244.04	0.172	0.335	0.170	5.76	246.84	0.14	386.25	387.94

19.44	13.91	21.37	35.06	1.90	245.28	0.170	0.294	0.172	5.76	245.35	0.14	385.12	387.53
19.44	13.91	21.37	35.05	1.91	245.76	0.169	0.315	0.171	5.81	242.72	0.14	386.30	386.81
19.44	13.91	21.37	35.04	1.91	244.02	0.180	0.312	0.169	5.79	248.96	0.13	383.83	386.55
19.44	13.91	21.37	35.03	1.91	239.57	0.178	0.342	0.160	5.79	245.44	0.14	385.42	387.53
19.43	13.92	21.37	35.02	1.91	244.96	0.179	0.291	0.182	5.80	242.28	0.14	386.55	386.86
19.43	13.91	21.37	35.02	1.90	242.62	0.170	0.318	0.176	5.72	244.43	0.14	384.45	388.60
19.43	13.91	21.36	35.00	1.90	246.01	0.161	0.289	0.167	5.67	242.34	0.14	386.25	387.17
19.43	13.92	21.36	34.98	1.91	245.27	0.177	0.318	0.160	5.72	241.68	0.14	385.17	386.45
19.43	13.90	21.36	34.98	1.89	244.97	0.177	0.337	0.166	5.79	243.03	0.14	384.14	386.96
19.42	13.90	21.35	34.96	1.88	241.67	0.170	0.334	0.171	5.80	245.52	0.13	381.88	384.45
19.42	13.90	21.35	34.95	1.90	241.85	0.170	0.304	0.172	5.82	244.98	0.14	385.22	386.35
19.42	13.89	21.35	34.94	1.91	246.78	0.177	0.316	0.181	5.80	239.68	0.14	383.58	386.55
19.42	13.89	21.34	34.92	1.89	242.85	0.170	0.301	0.168	5.82	242.55	0.13	382.04	385.11
19.43	13.89	21.34	34.91	1.89	246.24	0.174	0.330	0.163	5.78	242.94	0.14	384.45	386.50
19.43	13.89	21.34	34.91	1.88	245.21	0.174	0.341	0.165	5.79	243.77	0.14	384.60	386.35
19.44	13.89	21.34	34.90	1.89	243.90	0.171	0.327	0.174	5.75	245.06	0.14	383.47	386.09
19.44	13.89	21.34	34.90	1.90	248.36	0.175	0.268	0.177	5.73	244.57	0.14	385.01	385.73
19.44	13.89	21.34	34.90	1.89	245.56	0.177	0.310	0.179	5.71	242.00	0.13	382.86	387.63
19.45	13.89	21.34	34.89	1.90	242.59	0.173	0.321	0.171	5.72	245.84	0.14	384.60	385.52
19.45	13.90	21.34	34.89	1.90	244.62	0.170	0.312	0.173	5.77	243.40	0.14	384.04	386.40
19.44	13.90	21.34	34.89	1.90	246.74	0.165	0.294	0.176	5.84	244.11	0.14	384.81	385.37
19.45	13.90	21.34	34.89	1.90	246.25	0.174	0.283	0.170	5.82	241.06	0.13	384.19	386.09
19.44	13.90	21.34	34.89	1.91	243.87	0.175	0.344	0.156	5.82	244.55	0.14	384.81	386.70
19.45	13.89	21.35	34.90	1.91	245.88	0.176	0.317	0.176	5.77	243.09	0.14	384.65	386.81
19.45	13.91	21.35	34.90	1.90	244.85	0.170	0.329	0.173	5.79	242.28	0.14	385.89	386.86
19.44	13.90	21.35	34.90	1.90	242.57	0.166	0.318	0.163	5.72	242.19	0.14	386.19	387.58
19.44	13.90	21.35	34.91	1.90	245.42	0.172	0.324	0.171	5.76	243.91	0.14	386.50	389.01
19.44	13.90	21.36	34.92	1.90	246.51	0.173	0.300	0.169	5.74	243.28	0.14	387.17	387.22
19.44	13.90	21.35	34.91	1.90	242.84	0.178	0.316	0.171	5.72	241.79	0.13	385.73	388.55
19.44	13.91	21.36	34.93	1.91	243.62	0.173	0.302	0.174	5.75	242.48	0.14	386.40	387.68
19.44	13.90	21.37	34.94	1.91	245.70	0.184	0.310	0.173	5.74	244.26	0.14	386.76	388.19
19.43	13.91	21.36	34.94	1.89	246.05	0.174	0.339	0.164	5.74	245.81	0.14	385.89	388.86
19.43	13.91	21.37	34.96	1.92	244.34	0.166	0.301	0.162	5.77	243.68	0.14	388.25	389.17
19.43	13.90	21.38	34.97	1.91	246.59	0.166	0.287	0.162	5.82	242.45	0.14	384.96	387.63
19.42	13.90	21.38	34.97	1.92	240.02	0.177	0.311	0.180	5.83	243.68	0.14	386.91	387.22
19.42	13.90	21.39	34.99	1.90	243.25	0.170	0.322	0.179	5.86	244.23	0.13	386.50	390.40
19.42	13.89	21.39	35.01	1.92	246.27	0.172	0.300	0.179	5.72	241.82	0.14	387.17	390.30
19.41	13.89	21.39	35.00	1.91	243.08	0.172	0.324	0.174	5.72	244.55	0.14	387.99	390.50
19.41	13.88	21.40	35.02	1.93	241.11	0.174	0.331	0.171	5.68	247.09	0.14	388.45	389.89
19.41	13.88	21.41	35.03	1.90	241.34	0.177	0.319	0.172	5.72	244.21	0.13	387.53	387.27
19.41	13.89	21.41	35.04	1.92	245.96	0.178	0.313	0.192	5.79	242.34	0.14	387.27	389.83
19.42	13.89	21.41	35.06	1.90	246.99	0.181	0.301	0.178	5.78	242.32	0.14	388.91	390.24
19.42	13.88	21.42	35.07	1.92	245.10	0.172	0.313	0.162	5.78	243.38	0.13	387.63	389.99
19.42	13.89	21.42	35.07	1.91	247.25	0.169	0.330	0.163	5.82	243.23	0.14	388.50	389.58
19.43	13.89	21.43	35.09	1.91	244.47	0.162	0.298	0.166	5.80	243.25	0.14	387.94	390.65
19.43	13.90	21.43	35.10	1.91	240.76	0.177	0.312	0.163	5.80	246.10	0.14	386.86	389.06
19.43	13.90	21.43	35.11	1.92	246.64	0.171	0.347	0.166	5.70	242.23	0.13	388.04	389.42
19.44	13.90	21.44	35.12	1.91	245.99	0.165	0.322	0.166	5.71	243.86	0.14	390.04	391.42
19.44	13.90	21.44	35.13	1.91	242.56	0.164	0.311	0.172	5.74	246.99	0.14	388.55	390.40
19.45	13.90	21.45	35.13	1.92	248.61	0.171	0.284	0.161	5.78	240.97	0.14	389.37	390.50
19.47	13.92	21.45	35.14	1.92	245.94	0.179	0.316	0.175	5.80	243.48	0.14	390.04	391.73
19.50	13.91	21.45	35.15	1.90	246.08	0.177	0.327	0.173	5.82	245.09	0.13	389.22	390.76
19.52	13.91	21.45	35.14	1.93	244.13	0.170	0.310	0.175	5.80	243.20	0.14	388.81	391.42
19.53	13.92	21.46	35.15	1.93	241.73	0.175	0.276	0.167	5.83	244.18	0.14	388.19	390.24
19.53	13.90	21.46	35.15	1.90	245.08	0.175	0.324	0.169	5.78	248.24	0.13	387.94	390.04
19.54	13.90	21.46	35.15	1.92	244.67	0.171	0.292	0.175	5.77	245.30	0.13	387.99	390.76
19.54	13.90	21.46	35.15	1.92	241.28	0.167	0.294	0.171	5.73	242.17	0.14	388.25	390.04
19.54	13.91	21.46	35.15	1.92	243.16	0.176	0.344	0.175	5.72	242.69	0.14	388.55	389.53
19.55	13.91	21.46	35.14	1.91	243.53	0.171	0.320	0.174	5.72	242.51	0.14	389.84	389.42

19.55	13.91	21.46	35.15	1.93	241.82	0.172	0.315	0.165	5.87	244.94	0.13	386.25	389.78
19.55	13.90	21.46	35.14	1.92	246.01	0.173	0.342	0.165	5.84	243.98	0.14	387.32	388.81
19.54	13.92	21.46	35.13	1.90	245.34	0.168	0.332	0.171	5.86	245.61	0.13	385.68	389.42
19.54	13.92	21.46	35.13	1.91	243.73	0.173	0.323	0.191	5.72	248.47	0.14	387.99	387.78
19.54	13.91	21.46	35.12	1.91	246.21	0.178	0.288	0.179	5.71	241.99	0.14	384.30	389.01
19.54	13.91	21.45	35.11	1.92	245.84	0.175	0.311	0.176	5.71	243.25	0.13	385.78	388.14
19.54	13.92	21.45	35.10	1.92	246.08	0.172	0.324	0.173	5.71	243.54	0.14	386.14	386.70
19.54	13.92	21.45	35.09	1.91	246.21	0.176	0.286	0.170	5.74	243.95	0.14	386.35	388.81
19.53	13.92	21.45	35.08	1.91	247.11	0.171	0.314	0.157	5.78	243.48	0.14	384.71	387.27
19.53	13.91	21.45	35.07	1.91	246.76	0.166	0.325	0.156	5.81	242.40	0.13	384.71	386.81
19.53	13.91	21.44	35.05	1.90	242.11	0.170	0.318	0.160	5.75	244.74	0.13	384.24	385.37
19.53	13.90	21.44	35.03	1.90	241.03	0.165	0.308	0.163	5.79	245.43	0.13	385.37	386.29
19.53	13.90	21.43	35.02	1.91	245.22	0.167	0.285	0.179	5.79	246.09	0.14	383.53	387.01
19.54	13.89	21.43	35.00	1.89	243.57	0.177	0.332	0.169	5.80	240.19	0.14	383.89	383.47
19.54	13.90	21.42	34.99	1.91	243.08	0.172	0.348	0.161	5.77	242.58	0.14	384.96	386.81
19.55	13.90	21.42	34.98	1.90	245.11	0.170	0.328	0.159	5.72	240.33	0.14	384.45	384.96
19.55	13.90	21.42	34.97	1.89	242.70	0.176	0.332	0.176	5.72	241.88	0.13	383.63	386.70
19.55	13.92	21.41	34.95	1.91	245.68	0.176	0.302	0.188	5.75	245.10	0.14	385.68	387.11
19.56	13.91	21.41	34.95	1.89	245.34	0.178	0.302	0.184	5.73	243.77	0.14	385.48	385.52
19.56	13.92	21.41	34.94	1.90	249.78	0.171	0.312	0.179	5.75	244.15	0.13	385.42	385.88
19.56	13.93	21.41	34.93	1.91	243.70	0.166	0.333	0.168	5.82	243.06	0.14	383.78	386.09
19.56	13.92	21.41	34.92	1.90	246.70	0.174	0.311	0.174	5.83	241.31	0.14	384.45	386.96
19.56	13.91	21.40	34.91	1.91	243.93	0.174	0.304	0.163	5.77	243.45	0.14	383.27	384.91
19.56	13.91	21.40	34.90	1.89	243.79	0.176	0.317	0.166	5.82	242.58	0.13	383.73	384.75
19.56	13.92	21.40	34.90	1.91	240.97	0.169	0.328	0.170	5.68	245.27	0.13	384.76	386.76
19.57	13.91	21.40	34.89	1.89	243.79	0.173	0.309	0.176	5.66	243.95	0.14	385.12	387.73
19.56	13.91	21.40	34.89	1.91	243.28	0.176	0.278	0.174	5.78	243.23	0.14	384.19	385.52
19.56	13.92	21.40	34.89	1.91	242.22	0.175	0.325	0.174	5.82	242.75	0.14	384.04	384.50
19.56	13.90	21.40	34.88	1.89	243.60	0.168	0.329	0.170	5.79	244.00	0.14	380.29	385.06
19.56	13.92	21.40	34.87	1.89	244.90	0.173	0.329	0.175	5.76	244.64	0.14	384.71	386.60
19.56	13.91	21.40	34.88	1.91	240.94	0.171	0.282	0.173	5.80	243.00	0.14	386.76	386.09
19.56	13.91	21.40	34.88	1.90	245.33	0.171	0.314	0.158	5.82	239.51	0.13	384.55	385.99
19.55	13.91	21.40	34.88	1.89	245.38	0.170	0.354	0.170	5.76	242.82	0.13	385.07	387.88
19.56	13.91	21.41	34.89	1.89	246.74	0.173	0.320	0.181	5.70	242.05	0.14	383.01	387.06
19.55	13.91	21.41	34.89	1.89	245.07	0.169	0.278	0.182	5.72	243.61	0.14	384.96	386.91
19.55	13.91	21.41	34.89	1.90	244.10	0.175	0.312	0.175	5.75	243.29	0.14	385.37	389.89
19.55	13.91	21.42	34.90	1.90	241.54	0.179	0.312	0.173	5.77	242.37	0.14	385.99	387.47
19.54	13.91	21.42	34.90	1.91	242.80	0.162	0.306	0.169	5.73	246.39	0.14	385.07	385.58
19.54	13.92	21.41	34.90	1.89	243.64	0.170	0.316	0.169	5.75	244.20	0.14	385.58	388.65
19.54	13.91	21.42	34.92	1.90	246.48	0.169	0.318	0.159	5.76	241.16	0.13	386.25	387.68
19.54	13.91	21.42	34.92	1.90	246.56	0.177	0.337	0.165	5.75	238.76	0.13	385.01	386.09
19.54	13.90	21.43	34.92	1.90	242.28	0.165	0.319	0.178	5.73	244.75	0.14	386.19	387.11
19.53	13.90	21.43	34.94	1.90	244.71	0.170	0.291	0.183	5.74	242.35	0.14	386.60	387.06
19.54	13.89	21.43	34.95	1.90	243.16	0.175	0.326	0.177	5.74	244.43	0.14	384.76	386.65
19.54	13.89	21.44	34.96	1.92	241.36	0.168	0.298	0.166	5.76	240.66	0.13	386.14	388.45
19.54	13.89	21.44	34.97	1.91	247.96	0.172	0.300	0.179	5.76	243.91	0.14	386.35	389.37
19.55	13.88	21.45	34.98	1.92	246.07	0.173	0.289	0.177	5.76	241.14	0.14	387.58	388.40
19.55	13.89	21.45	34.99	1.90	241.65	0.174	0.319	0.167	5.76	243.63	0.13	387.17	389.83
19.56	13.90	21.46	35.01	1.93	240.66	0.177	0.337	0.160	5.76	243.58	0.14	387.84	389.53
19.56	13.90	21.46	35.02	1.91	244.70	0.176	0.298	0.164	5.76	244.18	0.14	387.27	387.94
19.56	13.91	21.46	35.02	1.91	242.73	0.174	0.304	0.176	5.75	244.09	0.14	388.71	390.09
19.56	13.91	21.47	35.04	1.90	246.62	0.171	0.311	0.170	5.78	239.62	0.14	388.71	390.76
19.56	13.91	21.48	35.05	1.92	243.57	0.162	0.309	0.158	5.73	242.28	0.14	387.37	388.81
19.56	13.92	21.47	35.05	1.92	243.91	0.168	0.342	0.170	5.77	240.76	0.14	387.07	390.81
19.57	13.92	21.48	35.07	1.91	242.99	0.173	0.319	0.176	5.76	243.35	0.14	389.07	391.01
19.57	13.92	21.49	35.08	1.90	244.01	0.170	0.309	0.169	5.73	244.98	0.14	388.09	389.58
19.57	13.92	21.49	35.08	1.90	243.71	0.170	0.300	0.174	5.76	243.75	0.14	386.40	389.42
19.57	13.93	21.49	35.09	1.89	245.11	0.177	0.307	0.163	5.77	242.71	0.13	387.78	391.37
19.57	13.92	21.49	35.10	1.92	245.11	0.173	0.335	0.164	5.77	244.70	0.14	386.71	389.68

19.57	13.92	21.50	35.11	1.91	244.34	0.180	0.337	0.173	5.78	245.03	0.14	388.81	391.94
19.57	13.94	21.50	35.12	1.91	246.53	0.174	0.321	0.173	5.76	247.25	0.14	389.02	390.65
19.57	13.93	21.50	35.13	1.92	244.11	0.164	0.297	0.167	5.76	248.71	0.14	388.09	390.76
19.57	13.93	21.51	35.13	1.91	243.08	0.172	0.315	0.171	5.78	244.12	0.14	387.22	390.86
19.57	13.94	21.51	35.14	1.92	247.33	0.184	0.314	0.170	5.78	242.23	0.14	388.30	391.89
19.57	13.94	21.51	35.15	1.91	247.36	0.176	0.303	0.179	5.74	241.46	0.14	388.61	389.83
19.56	13.93	21.51	35.14	1.93	243.99	0.170	0.306	0.177	5.80	248.05	0.14	389.07	390.60
19.55	13.93	21.52	35.16	1.91	242.13	0.171	0.280	0.171	5.78	243.38	0.14	389.07	391.37
19.53	13.93	21.52	35.15	1.90	239.53	0.168	0.303	0.169	5.74	244.38	0.14	387.17	390.04
19.51	13.92	21.52	35.15	1.91	245.61	0.178	0.322	0.171	5.78	243.08	0.13	387.22	388.60
19.49	13.91	21.52	35.15	1.91	248.33	0.171	0.318	0.158	5.76	241.36	0.14	387.73	390.30
19.47	13.89	21.52	35.15	1.91	245.67	0.167	0.298	0.170	5.76	243.08	0.14	387.43	389.89
19.44	13.87	21.52	35.15	1.91	244.64	0.173	0.299	0.172	5.78	243.57	0.14	386.30	389.78
19.42	13.85	21.52	35.15	1.90	242.00	0.172	0.340	0.170	5.76	244.77	0.14	387.01	389.37

Table F-2. Continued

Refrig Press Evap In psig	Refrig Press Evap Out psig	Refrig Press Comp In psig	Refrig Press Cond Out psig	Refrig Press Comp Out psig	Condinsate weight oz	Evap Rho Inlet lb/ft ³	Evap Rho Nozzle lb/ft ³	Evap CFM Nozzle CFM	Evap CFM Outlet CFM	Capacity Balance Pass/Fail	Total Cooling Capacity Btu/hr
382.47	135.94	134.12	384.33	402.88	370.16	0.07221	0.07461	769.0	764.9	PASS	23567.2
381.03	137.23	136.07	383.05	399.85	366.44	0.07221	0.07462	762.6	758.7	PASS	24231.4
381.96	135.64	135.76	384.69	402.77	369.15	0.07220	0.07461	768.0	764.0	PASS	25061.2
384.16	137.07	134.28	384.95	399.80	375.04	0.07222	0.07460	759.9	755.9	PASS	23988.6
382.52	132.66	136.28	385.41	403.44	375.74	0.07221	0.07459	783.5	779.0	PASS	23469.8
384.11	135.84	134.64	385.62	403.65	373.79	0.07220	0.07458	801.4	796.9	PASS	24356.5
383.09	133.64	134.79	386.59	400.36	378.77	0.07220	0.07460	788.6	784.5	PASS	24328.1
382.01	135.94	134.43	384.95	398.46	370.34	0.07222	0.07461	780.7	776.7	PASS	23314.6
383.70	134.82	135.61	384.39	402.41	376.09	0.07222	0.07459	781.2	776.9	PASS	23155.7
384.88	133.53	135.46	384.69	404.01	372.85	0.07221	0.07460	787.6	783.4	PASS	23949.3
383.14	134.82	135.51	385.00	399.64	369.64	0.07220	0.07460	785.6	781.4	PASS	23684.6
383.03	132.71	134.48	385.21	401.44	370.48	0.07221	0.07461	777.5	773.4	PASS	23813.0
385.09	135.07	135.20	386.28	402.98	371.00	0.07222	0.07460	764.4	760.3	PASS	22839.7
384.68	136.35	134.58	385.77	400.88	378.74	0.07221	0.07459	777.2	772.9	PASS	23943.8
385.50	131.02	134.69	386.23	401.85	372.05	0.07221	0.07459	793.6	789.2	PASS	24946.0
383.96	133.33	134.79	387.67	402.93	373.30	0.07221	0.07459	771.3	767.1	PASS	23769.5
385.34	134.51	133.40	388.08	405.85	380.93	0.07220	0.07459	752.5	748.4	PASS	23428.0
387.81	135.12	135.05	387.51	404.98	372.43	0.07220	0.07461	773.5	769.3	PASS	23751.1
385.86	135.84	135.82	388.75	404.26	374.28	0.07220	0.07461	781.2	777.2	PASS	23252.1
386.78	136.61	136.02	387.16	402.77	378.46	0.07221	0.07461	770.3	766.3	PASS	24081.1
385.80	130.71	135.51	388.23	406.98	376.89	0.07220	0.07461	744.9	741.0	PASS	23104.9
387.96	136.15	135.20	387.51	406.42	375.22	0.07223	0.07459	777.0	772.9	PASS	24113.9
386.01	134.71	134.23	386.90	408.26	378.77	0.07222	0.07459	766.1	761.9	PASS	24111.9
385.70	135.02	136.64	387.72	404.67	377.03	0.07220	0.07460	787.6	783.5	PASS	24180.7
388.27	132.92	135.35	390.08	406.88	377.62	0.07221	0.07460	766.3	762.2	PASS	23262.0
385.86	134.87	135.25	385.92	406.21	374.00	0.07219	0.07461	752.9	749.1	PASS	23464.9
384.47	134.97	136.79	388.64	405.70	378.60	0.07219	0.07460	767.9	763.9	PASS	23332.9
387.70	134.61	134.53	388.64	407.39	383.75	0.07219	0.07458	792.0	787.7	PASS	23363.8
385.60	134.35	133.56	387.72	405.70	378.56	0.07220	0.07463	801.2	797.2	PASS	23898.0
385.96	134.61	135.56	388.64	405.08	379.36	0.07221	0.07460	746.8	742.9	PASS	23827.2
382.88	137.02	136.02	388.95	402.47	373.23	0.07222	0.07462	751.8	748.1	PASS	23868.9
385.09	133.17	134.74	387.93	405.44	384.31	0.07220	0.07459	779.4	775.2	PASS	24452.7
385.80	135.74	135.46	390.95	404.06	379.01	0.07219	0.07459	792.4	788.0	PASS	23942.7
386.83	132.92	135.46	389.82	405.34	375.91	0.07221	0.07460	772.2	768.1	PASS	24651.3
389.55	134.97	135.61	386.69	402.26	380.34	0.07221	0.07460	771.9	767.6	PASS	23499.4
385.91	133.69	135.87	385.10	407.49	382.43	0.07221	0.07461	790.4	786.2	PASS	23361.9
383.80	136.05	134.69	387.77	407.75	383.89	0.07219	0.07459	791.4	787.1	PASS	24044.2
384.37	135.69	135.66	387.16	403.95	385.60	0.07219	0.07462	764.1	760.1	PASS	23515.8
387.09	134.66	135.97	387.10	402.57	385.08	0.07221	0.07461	762.5	758.5	PASS	23957.5
386.42	136.10	133.97	389.52	404.77	381.91	0.07220	0.07461	780.8	776.6	PASS	24331.7
384.01	137.53	135.51	387.46	406.47	383.51	0.07221	0.07461	777.8	773.8	PASS	24456.4
384.11	136.51	134.89	387.77	408.78	386.75	0.07220	0.07460	752.6	748.6	PASS	23792.0
387.75	136.05	134.94	386.64	405.03	381.59	0.07220	0.07457	771.2	767.0	PASS	23788.9
382.47	136.00	134.79	387.16	406.11	381.56	0.07221	0.07461	762.9	759.0	PASS	23548.4
384.42	134.76	133.97	386.95	405.95	379.40	0.07220	0.07459	768.1	763.9	PASS	24307.1
384.47	137.28	134.53	385.21	406.37	387.76	0.07219	0.07459	766.7	762.4	PASS	24398.0
386.57	134.51	134.84	385.67	405.24	380.51	0.07221	0.07461	793.7	789.6	PASS	24162.8
383.09	133.99	135.92	382.38	402.67	383.86	0.07220	0.07459	771.7	767.6	PASS	23489.9
381.24	136.51	138.48	386.13	403.65	379.61	0.07218	0.07459	768.3	764.1	PASS	23256.0
383.50	135.58	134.58	384.28	404.16	382.36	0.07220	0.07459	790.5	786.4	PASS	23970.9

384.68	133.07	135.51	384.54	402.57	385.56	0.07221	0.07459	769.8	765.6	PASS	24135.7
384.11	135.79	137.61	385.57	403.08	376.82	0.07220	0.07460	777.3	773.3	PASS	24077.4
384.52	135.74	134.38	385.87	402.31	378.63	0.07219	0.07460	727.2	723.5	PASS	23620.2
381.60	134.61	134.48	385.77	404.31	388.32	0.07221	0.07461	766.9	763.0	PASS	23947.5
382.73	135.07	136.23	385.57	403.18	386.09	0.07221	0.07461	759.2	755.3	PASS	23440.5
382.83	137.23	136.07	386.64	402.11	387.03	0.07220	0.07460	777.4	773.3	PASS	24050.5
383.91	135.64	133.35	382.59	402.47	385.35	0.07219	0.07460	762.0	758.1	PASS	24119.4
382.01	131.43	134.02	385.21	403.24	383.33	0.07220	0.07459	734.1	730.2	PASS	23938.1
383.70	136.05	132.94	383.62	402.11	385.08	0.07220	0.07458	769.9	765.7	PASS	24261.7
381.39	134.71	133.51	383.20	400.88	389.15	0.07221	0.07459	772.1	767.9	PASS	24220.8
381.90	134.97	134.17	384.49	402.77	385.81	0.07220	0.07459	781.3	777.0	PASS	24093.2
383.85	134.56	135.61	381.87	401.65	388.94	0.07221	0.07459	785.9	781.6	PASS	23549.9
380.47	135.33	135.66	383.26	400.47	386.23	0.07219	0.07459	758.7	754.6	PASS	23970.2
382.26	135.84	135.00	384.23	400.11	386.96	0.07219	0.07460	773.7	769.7	PASS	23536.9
380.88	135.79	133.40	383.67	400.88	384.10	0.07220	0.07459	784.9	780.6	PASS	24284.7
382.37	135.38	136.43	383.36	400.16	387.13	0.07221	0.07460	799.4	795.2	PASS	23503.4
382.67	135.43	134.84	382.85	401.70	384.73	0.07219	0.07460	766.7	762.7	PASS	23177.8
380.93	137.53	134.53	384.18	399.28	388.14	0.07219	0.07459	756.8	753.0	PASS	23558.7
381.60	133.79	132.89	385.10	401.75	388.66	0.07220	0.07458	754.7	750.6	PASS	23280.8
380.83	135.38	134.94	383.36	404.01	382.74	0.07221	0.07459	782.2	778.0	PASS	24323.7
382.37	134.46	135.10	383.31	402.41	388.66	0.07219	0.07459	786.1	781.9	PASS	24693.9
380.98	134.51	133.61	382.79	400.21	385.15	0.07220	0.07458	749.2	745.1	PASS	23820.4
383.55	135.02	134.43	385.00	402.00	395.11	0.07221	0.07460	750.7	746.8	PASS	23252.4
383.60	135.79	135.35	384.08	402.36	384.31	0.07221	0.07460	784.6	780.6	PASS	24584.8
382.21	135.43	135.61	384.08	400.26	388.39	0.07219	0.07458	783.3	778.9	PASS	23712.5
381.08	134.35	134.38	384.64	401.85	393.33	0.07221	0.07459	770.6	766.5	PASS	23531.9
384.21	133.84	135.61	388.03	401.75	390.89	0.07219	0.07459	760.5	756.3	PASS	23708.7
382.67	135.23	133.97	384.23	402.88	389.29	0.07221	0.07460	781.9	777.9	PASS	24154.8
384.83	131.99	130.79	386.95	404.52	393.92	0.07220	0.07460	762.2	758.2	PASS	24286.3
389.19	136.35	135.61	386.33	404.11	389.71	0.07219	0.07457	762.3	758.0	PASS	23630.5
383.96	134.87	134.43	384.80	403.29	382.43	0.07220	0.07460	763.2	759.2	PASS	24128.9
384.68	133.02	135.56	386.90	404.26	392.39	0.07219	0.07459	786.3	782.2	PASS	24434.2
384.42	133.53	134.02	386.18	401.75	393.58	0.07220	0.07457	769.5	765.2	PASS	24527.6
384.68	135.12	134.64	385.87	402.47	391.70	0.07221	0.07460	779.8	775.6	PASS	23898.5
383.60	131.22	135.56	384.74	405.39	397.37	0.07220	0.07459	776.6	772.4	PASS	24860.1
385.14	136.20	136.12	388.03	404.42	394.31	0.07220	0.07461	808.6	804.5	PASS	23751.9
385.60	135.43	135.15	385.92	402.72	394.24	0.07220	0.07460	780.1	776.0	PASS	23643.3
387.29	132.30	134.94	388.85	406.06	396.96	0.07222	0.07459	751.2	747.1	PASS	23478.4
382.98	134.87	135.82	388.13	405.19	390.37	0.07220	0.07460	778.0	773.8	PASS	23477.8
385.91	135.07	134.23	386.28	406.57	390.51	0.07219	0.07460	773.4	769.5	PASS	23997.2
385.55	135.28	135.82	386.03	406.16	397.34	0.07219	0.07458	782.3	778.1	PASS	24186.5
384.88	137.69	134.53	387.57	404.36	395.88	0.07221	0.07461	737.7	733.9	PASS	23672.5
385.39	136.05	138.18	385.41	402.98	390.37	0.07221	0.07460	759.0	755.0	PASS	24392.6
385.60	134.92	134.12	387.57	406.72	394.69	0.07221	0.07460	765.3	761.3	PASS	23857.8
388.47	136.00	135.51	389.41	404.77	389.60	0.07219	0.07460	780.7	776.6	PASS	24482.7
384.62	136.30	135.92	388.59	406.62	396.29	0.07220	0.07462	738.5	734.9	PASS	23953.7
385.03	135.23	137.77	388.85	404.93	389.26	0.07220	0.07460	766.6	762.7	PASS	23814.7
389.96	135.79	133.82	388.13	407.44	411.00	0.07220	0.07459	790.1	785.8	PASS	23715.7
387.81	132.56	132.79	387.77	406.47	398.04	0.07221	0.07458	792.0	787.9	PASS	24018.9
387.04	133.89	135.76	387.31	405.13	395.88	0.07219	0.07462	742.2	738.5	PASS	23451.2
388.01	134.46	135.46	388.13	406.26	394.97	0.07219	0.07458	764.0	760.1	PASS	23681.4
384.62	135.33	133.15	387.41	407.34	394.03	0.07220	0.07458	775.4	771.4	PASS	24441.6
384.21	134.97	135.92	389.11	410.21	394.48	0.07221	0.07461	790.8	786.8	PASS	24732.7
382.98	137.48	135.97	388.23	405.03	394.13	0.07221	0.07457	750.9	746.8	PASS	24796.5
383.91	133.33	135.25	386.54	405.95	400.34	0.07220	0.07460	765.3	761.4	PASS	24468.8
386.01	135.58	136.43	387.72	406.11	393.61	0.07221	0.07461	765.8	762.1	PASS	24441.9
391.24	136.56	139.61	388.08	406.62	399.43	0.07220	0.07458	768.1	763.8	PASS	24542.1
383.70	136.00	134.48	387.51	404.98	395.53	0.07219	0.07458	784.0	779.7	PASS	24638.2
387.81	134.66	133.05	389.67	406.16	396.47	0.07219	0.07457	778.7	774.4	PASS	24992.6

385.91	133.58	133.71	388.95	406.31	399.50	0.07219	0.07459	775.4	771.3	PASS	23436.0
385.75	135.23	135.00	383.41	406.16	403.44	0.07220	0.07458	782.3	778.2	PASS	23847.2
385.24	138.15	137.05	386.80	408.93	401.35	0.07219	0.07460	777.6	773.6	PASS	24395.3
384.83	136.05	136.48	386.44	402.93	395.42	0.07219	0.07458	795.8	791.5	PASS	24576.5
385.24	136.10	135.92	385.72	403.80	395.60	0.07220	0.07459	763.9	759.9	PASS	24277.7
384.78	136.87	135.41	385.57	403.18	400.34	0.07221	0.07461	757.2	753.4	PASS	24052.5
383.03	135.43	135.10	385.62	403.54	398.42	0.07219	0.07458	758.0	754.1	PASS	24628.9
382.47	135.33	133.51	383.31	404.16	400.79	0.07221	0.07460	763.5	759.6	PASS	25288.0
383.50	134.51	135.30	386.13	400.82	397.20	0.07220	0.07458	748.7	744.8	PASS	23744.7
383.44	133.22	132.53	385.57	402.72	398.63	0.07220	0.07460	754.3	750.4	PASS	23885.6
381.39	131.07	137.61	384.54	402.62	402.84	0.07219	0.07459	761.8	757.7	PASS	24828.5
380.47	133.58	135.15	385.15	402.36	402.22	0.07219	0.07457	780.7	776.3	PASS	24580.2
384.93	135.79	135.25	383.97	398.41	401.80	0.07219	0.07460	756.7	752.7	PASS	23553.3
381.44	134.71	135.97	384.39	403.80	406.33	0.07219	0.07459	782.9	778.7	PASS	24825.5
382.57	129.02	134.33	382.54	399.23	401.87	0.07218	0.07459	782.0	777.9	PASS	23494.3
385.34	135.48	135.15	384.08	405.08	402.84	0.07218	0.07459	774.4	770.3	PASS	23726.5
379.70	130.61	135.20	383.72	402.11	400.06	0.07220	0.07459	797.0	792.8	PASS	24512.3
383.03	134.82	132.07	382.90	399.44	401.69	0.07218	0.07458	790.0	785.9	PASS	24687.7
382.67	133.99	134.43	383.77	404.52	403.64	0.07219	0.07458	751.8	747.7	PASS	23875.8
381.24	135.74	133.97	382.38	400.62	401.42	0.07219	0.07460	767.8	763.9	PASS	24057.6
380.26	134.15	132.99	383.15	402.98	402.39	0.07217	0.07458	779.9	775.8	PASS	25232.7
381.75	135.43	134.23	380.79	401.39	402.01	0.07220	0.07461	774.6	770.7	PASS	25198.9
381.90	134.30	135.82	383.05	402.57	406.22	0.07219	0.07460	750.6	746.8	PASS	24377.6
378.21	134.97	138.33	384.18	401.03	402.60	0.07219	0.07460	748.6	744.5	PASS	24165.5
380.21	133.99	133.40	385.26	403.18	399.71	0.07220	0.07458	778.5	774.3	PASS	24095.4
381.65	134.87	135.05	384.18	399.80	402.70	0.07219	0.07459	793.1	789.0	PASS	24871.2
381.03	136.00	134.43	384.39	402.31	406.08	0.07221	0.07457	751.2	747.1	PASS	24153.8
379.44	134.56	135.10	381.41	402.26	398.11	0.07219	0.07458	768.8	764.7	PASS	24077.6
381.60	135.89	135.92	382.64	400.26	405.98	0.07220	0.07460	769.3	765.4	PASS	24170.2
382.21	136.51	136.59	384.08	399.59	402.81	0.07219	0.07460	771.7	767.7	PASS	24785.7
383.34	136.71	133.97	383.31	400.31	405.77	0.07221	0.07458	757.8	753.7	PASS	24928.1
384.11	137.59	134.28	382.13	401.59	411.90	0.07219	0.07460	752.1	748.1	PASS	24900.3
381.14	141.64	134.74	384.80	401.18	409.18	0.07218	0.07458	805.3	801.0	PASS	24037.0
384.27	134.82	135.56	385.77	402.26	409.22	0.07219	0.07459	787.8	783.7	PASS	24360.1
381.75	135.64	135.05	384.80	403.54	414.44	0.07219	0.07459	754.7	750.8	PASS	24175.7
382.98	134.61	133.25	382.49	403.70	403.99	0.07219	0.07458	750.3	746.1	PASS	24167.6
380.42	137.28	135.51	384.85	402.62	401.90	0.07221	0.07457	764.5	760.5	PASS	24531.4
382.42	133.48	135.15	384.03	402.26	406.22	0.07220	0.07458	767.0	762.9	PASS	24868.6
383.80	132.87	134.64	383.05	402.16	413.57	0.07219	0.07458	755.6	751.6	PASS	25077.2
384.37	134.82	132.43	385.05	404.88	404.06	0.07217	0.07457	751.0	747.1	PASS	24171.0
384.37	134.76	133.15	384.69	405.39	404.55	0.07219	0.07459	790.5	786.4	PASS	24467.2
383.75	134.71	135.20	384.33	403.80	403.44	0.07219	0.07458	799.7	795.4	PASS	24077.1
384.73	137.59	135.05	388.28	403.65	404.52	0.07219	0.07461	771.7	767.7	PASS	23994.5
383.91	134.56	131.35	384.49	405.34	406.92	0.07221	0.07460	763.8	759.9	PASS	23864.6
385.55	133.43	131.87	387.21	406.31	411.14	0.07218	0.07459	769.9	765.8	PASS	24015.2
384.62	135.38	134.12	387.98	404.72	406.71	0.07221	0.07460	778.1	773.9	PASS	24834.9
383.65	134.25	134.23	387.05	404.26	405.70	0.07220	0.07459	763.0	759.1	PASS	24698.1
385.70	132.46	134.38	387.26	403.44	403.96	0.07219	0.07460	751.6	747.8	PASS	23790.2
385.60	135.43	133.66	388.39	404.67	409.85	0.07220	0.07458	780.6	776.5	PASS	24572.9
381.60	133.99	135.35	387.00	406.72	410.44	0.07219	0.07458	761.2	757.2	PASS	24490.1
386.27	135.17	133.35	386.03	406.01	407.90	0.07218	0.07457	762.3	758.3	PASS	23822.7
385.65	135.23	134.28	386.69	401.80	407.13	0.07218	0.07458	772.1	768.1	PASS	24537.4
385.03	133.64	135.56	386.03	406.11	410.40	0.07219	0.07457	760.3	756.2	PASS	23828.1
385.14	134.66	137.00	387.57	403.54	405.98	0.07217	0.07458	797.4	793.2	PASS	24318.7
384.06	132.92	134.89	389.62	405.34	411.90	0.07218	0.07456	786.1	781.8	PASS	25019.6
383.85	135.38	134.28	387.62	404.83	411.62	0.07218	0.07458	757.6	753.4	PASS	24652.5
385.60	135.94	135.20	387.36	404.83	412.84	0.07220	0.07458	770.0	766.0	PASS	24203.4
386.98	134.97	136.69	387.67	404.01	408.59	0.07219	0.07459	745.1	741.3	PASS	23928.2
382.78	137.59	135.30	387.87	408.67	411.59	0.07217	0.07458	779.4	775.4	PASS	24260.6

389.60	134.92	135.15	388.34	405.39	412.39	0.07218	0.07459	775.0	771.0	PASS	24850.9
386.11	134.61	135.76	389.87	405.19	412.74	0.07219	0.07456	780.7	776.4	PASS	23714.6
385.09	134.82	134.43	387.00	404.98	413.19	0.07216	0.07458	776.6	772.7	PASS	24964.7
387.60	132.46	135.30	389.21	406.01	411.80	0.07218	0.07456	758.7	754.7	PASS	23503.2
386.52	134.92	134.12	388.44	405.65	410.47	0.07218	0.07458	763.4	759.5	PASS	23841.2
385.55	133.94	137.46	386.33	403.29	405.60	0.07218	0.07458	781.1	777.1	PASS	24915.3
388.11	135.17	133.92	388.95	404.47	414.58	0.07219	0.07458	782.7	778.8	PASS	24653.4
385.34	133.28	134.12	388.39	406.01	419.74	0.07219	0.07457	752.1	748.2	PASS	24483.2
384.78	134.92	134.94	387.77	407.03	412.28	0.07219	0.07458	740.2	736.2	PASS	23417.6
387.14	132.61	137.82	387.67	404.06	413.75	0.07219	0.07457	758.0	753.9	PASS	24197.9
386.78	134.87	134.58	387.82	403.65	417.48	0.07219	0.07459	770.1	766.0	PASS	24693.4
384.47	134.40	133.92	384.74	399.28	413.82	0.07219	0.07457	782.3	778.0	PASS	25001.5
385.86	133.33	131.92	386.28	402.88	410.68	0.07222	0.07458	756.1	751.9	PASS	23566.6
384.98	132.81	133.87	386.28	403.24	413.61	0.07221	0.07460	771.4	767.2	PASS	23463.8

Table F-2. Continued

Sensible Cooling Capacity Btu/hr	Latent Cooling Capacity Btu/hr	Degree of Sub- cooling F	Degree of Super- heat F	Refrigerating Capacity Btu/hr	Time hhmmss
16473.3	7094.0	10.0	13.0	24478.5	172830
16924.6	7306.8	9.8	10.0	24147.6	172840
17576.5	7484.6	10.2	6.4	23609.7	172850
16778.6	7210.0	10.3	4.8	23400.0	172900
16299.4	7170.3	10.4	9.0	23414.1	172910
16981.6	7374.9	10.2	10.8	23625.3	172920
16947.6	7380.5	10.1	12.9	24169.2	172930
16220.8	7093.8	10.0	12.8	24313.8	172940
16179.6	6976.0	10.1	12.6	24298.8	172950
16786.3	7163.0	10.1	10.5	24209.8	173000
16444.0	7240.6	10.1	11.1	24215.7	173010
16612.5	7200.4	10.3	8.6	23867.0	173020
15870.7	6969.0	10.5	8.7	23605.1	173030
16643.7	7300.1	10.5	9.1	23436.0	173040
17308.3	7637.8	10.3	12.0	23739.8	173050
16546.1	7223.4	10.1	13.1	24389.4	173100
16271.7	7156.3	10.2	13.2	24470.4	173110
16600.0	7151.1	10.2	11.7	24279.6	173120
16195.2	7056.9	10.3	9.9	24126.9	173130
16733.0	7348.0	10.5	8.4	23209.4	173140
16119.9	6985.0	10.6	11.8	23582.3	173150
16841.7	7272.3	10.6	12.9	24357.5	173200
16713.7	7398.3	10.2	13.2	24388.6	173210
16937.0	7243.6	10.2	12.7	24356.8	173220
16124.5	7137.5	10.4	9.2	24089.4	173230
16380.9	7084.0	10.2	7.7	23685.9	173240
16344.0	6988.9	10.5	8.3	23523.2	173250
16367.9	6995.9	10.6	10.1	23792.4	173300
16674.1	7223.8	10.1	11.7	23735.2	173310
16620.5	7206.7	10.2	12.2	23865.8	173320
16647.2	7221.7	9.9	12.4	24162.6	173330
17022.2	7430.5	9.9	13.3	24196.5	173340
16804.6	7138.1	10.2	13.0	24185.7	173350
17243.4	7407.9	10.3	10.2	24020.3	173400
16381.8	7117.6	10.1	10.6	23984.9	173410
16298.9	7063.0	10.0	10.8	23987.2	173410
16949.4	7094.9	10.1	9.9	23965.5	173420
16347.1	7168.7	10.2	10.4	23979.6	173430
16670.2	7287.3	10.1	5.9	23518.2	173440
17014.1	7317.5	10.2	10.4	23842.1	173450
17022.3	7434.1	10.2	11.5	23933.7	173500
16572.9	7219.1	10.0	11.3	23933.9	173510
16583.5	7205.4	10.1	11.6	23913.7	173520
16171.2	7377.2	10.1	12.7	24019.4	173530
16964.1	7343.0	9.9	12.8	24142.0	173540
17078.7	7319.4	10.0	12.5	24263.8	173550
16761.0	7401.8	10.0	12.6	24259.7	173600
16342.5	7147.4	9.9	12.3	24157.2	173610
16253.2	7002.9	10.2	11.2	24168.7	173620
16759.4	7211.5	10.1	10.1	24000.2	173630

16796.4	7339.3	9.9	6.0	23528.1	173640
16751.5	7325.9	10.1	8.9	23805.9	173650
16434.6	7185.6	10.1	9.3	23931.9	173700
16649.4	7298.1	9.8	7.5	23713.1	173710
16350.4	7090.1	9.9	9.4	23852.8	173720
16708.2	7342.3	10.0	4.5	23319.5	173730
16884.7	7234.7	9.9	10.8	23753.4	173740
16842.3	7095.8	10.0	12.5	23910.9	173750
16926.0	7335.8	9.9	12.5	24165.4	173800
16861.5	7359.3	9.7	13.1	24345.9	173810
16923.0	7170.2	9.9	12.8	24370.7	173820
16517.7	7032.2	10.0	12.1	24283.5	173830
16798.7	7171.4	10.0	12.3	24292.4	173840
16381.3	7155.6	10.1	6.4	23789.4	173850
16889.3	7395.4	10.2	10.2	24103.9	173900
16369.6	7133.8	10.0	9.6	23921.4	173910
16062.4	7115.4	10.2	8.9	23677.5	173920
16304.8	7253.9	10.2	10.7	23825.4	173930
16193.8	7087.0	10.0	11.9	23891.8	173940
16940.1	7383.6	10.0	12.3	24088.1	173950
17203.1	7490.8	10.1	12.7	24415.5	174000
16500.0	7320.4	10.0	10.8	24215.3	174010
16166.0	7086.4	10.1	10.6	24202.8	174020
17104.3	7480.5	10.5	6.9	23807.7	174030
16430.8	7281.7	10.2	9.3	23902.8	174040
16307.9	7224.1	10.3	8.5	23667.3	174050
16413.3	7295.4	10.4	10.2	23877.3	174100
16778.3	7376.5	9.9	11.3	23878.1	174110
16885.2	7401.1	10.0	11.1	23826.9	174120
16639.6	6990.9	10.1	11.0	23883.5	174130
16674.6	7454.3	10.1	12.2	23992.9	174140
16986.0	7448.2	10.1	13.0	24155.0	174150
17014.9	7512.8	10.4	12.8	24129.8	174200
16669.4	7229.1	10.2	12.2	24356.3	174210
17255.7	7604.4	10.4	11.7	24331.4	174220
16556.2	7195.7	10.6	8.7	24055.9	174230
16437.2	7206.1	10.3	7.9	23403.7	174240
16406.1	7072.3	10.5	9.4	23580.9	174250
16361.4	7116.4	10.6	10.6	23748.3	174300
16699.3	7297.8	10.2	11.8	23816.9	174310
16725.6	7460.9	10.1	12.5	23910.5	174320
16440.9	7231.6	10.2	12.4	24179.5	174330
17020.6	7372.0	10.0	12.1	24147.5	174340
16709.4	7148.4	10.1	10.7	24010.8	174350
17027.7	7455.0	10.6	8.1	23813.2	174400
16496.1	7457.6	10.1	9.2	23845.1	174410
16635.2	7179.5	10.3	9.7	23543.4	174420
16517.7	7198.0	10.5	12.0	23793.8	174430
16712.7	7306.2	10.2	12.9	23847.3	174440
16206.2	7245.0	10.1	13.5	24221.3	174450
16383.3	7298.1	10.3	13.1	24336.8	174500
16784.9	7656.8	10.0	12.5	24220.8	174510
17022.6	7710.1	10.4	12.3	24233.7	174520
16804.1	7992.4	10.5	11.3	24163.7	174530
16582.1	7886.7	10.2	10.1	23974.5	174540
16683.7	7758.2	10.3	7.9	23782.2	174550
16766.8	7775.3	10.1	8.3	23756.0	174600
16742.0	7896.2	10.1	9.8	23494.4	174610
17024.6	7968.0	10.1	11.8	23752.2	174620

15984.9	7451.1	10.0	12.4	24424.8	174630
16179.1	7668.2	9.9	12.0	24391.0	174640
16726.7	7668.6	9.8	9.4	24175.9	174650
16870.3	7706.2	9.9	4.2	23190.5	174700
16639.4	7638.3	9.9	5.6	23224.1	174710
16447.4	7605.1	10.1	9.5	23586.5	174720
16911.8	7717.1	10.0	11.2	23731.5	174730
17151.5	8136.5	9.7	12.8	23848.4	174740
16200.4	7544.3	9.8	13.3	24229.0	174750
16284.6	7601.0	10.1	12.4	24244.3	174800
16940.6	7887.8	9.7	11.6	24105.9	174810
16889.6	7690.5	10.0	12.1	24155.3	174820
16169.0	7384.3	10.0	8.8	23965.9	174830
16969.0	7856.5	10.0	10.4	24017.4	174840
16085.5	7408.8	10.0	10.1	24017.9	174850
16290.1	7436.4	10.0	10.8	23859.6	174900
16759.1	7753.2	10.0	9.3	23708.5	174910
16818.1	7869.7	10.1	11.3	23918.0	174920
16321.0	7554.8	10.1	11.3	23916.9	174930
16392.2	7665.5	10.2	12.8	24046.8	174940
17173.0	8059.7	10.3	13.2	24184.0	174950
17189.9	8009.0	10.1	12.1	24342.4	175000
16708.7	7668.9	10.1	11.6	24297.7	175010
16407.2	7758.3	10.1	8.3	23999.7	175020
16382.8	7712.6	10.5	10.7	23688.0	175030
16947.8	7923.4	10.2	10.6	23686.7	175040
16347.1	7806.7	10.2	11.8	24269.1	175050
16340.1	7737.4	10.2	11.8	24293.9	175100
16440.9	7729.3	9.9	10.3	24051.2	175110
16917.5	7868.1	10.0	11.1	24163.3	175120
16948.6	7979.5	10.2	9.4	24070.7	175130
17075.4	7825.0	10.0	8.2	23835.2	175140
16493.7	7543.3	10.1	7.8	23670.5	175150
16561.6	7798.6	10.2	8.1	23687.8	175200
16519.5	7656.2	10.0	9.6	23770.9	175210
16548.3	7619.3	10.2	9.8	23793.1	175220
16758.9	7772.5	10.3	11.3	23941.6	175230
16938.2	7930.4	10.0	11.6	23954.0	175240
17025.3	8051.8	10.4	11.4	23940.0	175250
16520.8	7650.2	10.3	12.5	24099.2	175300
16649.8	7817.4	10.4	12.1	23975.0	175310
16409.1	7668.0	10.2	12.3	24078.4	175320
16502.1	7492.5	10.4	11.6	24051.8	175330
16132.9	7731.7	10.4	11.3	24032.2	175340
16297.5	7717.7	10.4	10.5	23924.4	175350
16915.8	7919.0	10.4	11.6	24031.4	175400
16702.1	7996.0	10.3	11.2	24007.0	175410
16276.0	7514.2	10.3	11.1	23938.7	175420
16719.4	7853.5	10.4	10.6	23950.7	175430
16730.3	7759.7	10.1	11.4	23921.4	175440
16308.2	7514.5	10.4	11.2	23960.8	175450
16710.1	7827.3	10.3	10.8	24001.4	175500
16193.6	7634.5	10.3	11.1	23913.2	175510
16477.7	7841.0	10.3	11.1	23953.7	175520
16994.0	8025.6	10.6	10.6	23968.3	175530
16778.3	7874.2	10.2	10.9	23877.2	175540
16504.3	7699.1	10.1	10.9	23871.0	175550
16363.7	7564.4	10.2	11.6	24005.7	175600
16544.7	7715.9	10.3	10.8	23923.9	175610

16937.5	7913.4	10.1	10.8	23904.8	175620
16211.8	7502.9	10.5	10.9	23970.1	175630
17050.5	7914.2	10.3	9.6	23798.0	175640
16040.3	7463.0	10.4	10.7	23886.0	175650
16200.1	7641.1	10.4	10.3	23844.4	175700
16908.6	8006.7	10.2	9.7	23751.4	175710
16835.4	7818.0	10.1	10.7	23869.9	175720
16567.9	7915.3	10.2	10.2	23890.1	175730
16019.6	7398.0	10.0	10.8	23781.8	175740
16670.2	7527.7	10.1	10.0	23789.4	175750
17027.9	7665.5	10.1	9.0	23716.1	175800
17214.8	7786.7	9.9	10.1	23759.8	175810
16301.5	7265.1	10.2	8.5	23667.0	175820
16322.4	7141.4	10.2	9.1	23756.2	175830

Table F-3

Data from the second A test

Barometric Pres mBar	Evap Static Pres in/H2O	Supply Tank Temp C	Refrig Temp Before MFM C	Refrig Temp After MFM C	Evap Exit Drybulb C	Refrig Temp Comp In C	Refrig Temp Cond Out C	Refrig Temp Comp Out In C	Refrig Temp Evap In C	Refrig Temp Evap Out C	Indoor Temp C	Evap Nozzle Temp C
1003.4	0.117	13.19	40.42	40.35	15.65	14.42	40.69	75.63	39.62	11.46	26.67	17.04
1003.4	0.124	13.24	40.46	40.29	15.74	14.42	40.72	75.70	39.61	12.12	26.74	17.04
1003.4	0.131	13.13	40.51	40.37	15.68	14.39	40.71	75.61	39.53	12.03	26.72	17.05
1003.4	0.099	13.10	40.50	40.36	15.66	14.33	40.73	75.66	39.56	12.57	26.76	17.07
1003.2	0.166	13.16	40.46	40.40	15.67	14.38	40.70	75.59	39.59	12.39	26.72	17.08
1003.4	0.113	13.16	40.48	40.40	15.67	14.38	40.73	75.62	39.60	12.88	26.70	16.99
1003.4	0.142	13.13	40.49	40.40	15.67	14.36	40.74	75.64	39.62	12.89	26.70	16.99
1003.3	0.137	13.23	40.46	40.37	15.67	14.38	40.70	75.61	39.59	13.07	26.69	17.03
1003.4	0.118	13.15	40.46	40.38	15.63	14.40	40.74	75.60	39.63	12.48	26.70	17.06
1003.3	0.130	13.07	40.42	40.31	15.67	14.38	40.66	75.60	39.55	13.01	26.64	17.03
1003.3	0.119	13.17	40.46	40.38	15.65	14.42	40.67	75.61	39.60	12.77	26.75	17.09
1003.3	0.093	13.24	40.37	40.36	15.71	14.47	40.67	75.62	39.63	12.38	26.68	17.12
1003.4	0.103	13.15	40.41	40.36	15.68	14.48	40.61	75.65	39.59	13.30	26.69	17.12
1003.5	0.152	13.14	40.40	40.32	15.71	14.56	40.60	75.66	39.53	13.47	26.74	17.15
1003.2	0.095	13.10	40.39	40.35	15.78	14.55	40.66	75.69	39.58	13.49	26.75	17.08
1003.3	0.114	13.14	40.44	40.37	15.69	14.58	40.69	75.72	39.48	12.49	26.70	17.13
1003.2	0.124	13.13	40.39	40.38	15.70	14.60	40.71	75.72	39.51	13.02	26.69	17.03
1003.6	0.101	13.09	40.42	40.32	15.71	14.57	40.64	75.74	39.54	12.81	26.69	17.05
1002.9	0.115	13.18	40.46	40.34	15.69	14.57	40.70	75.72	39.59	12.60	26.70	17.01
1003.2	0.106	13.15	40.50	40.31	15.67	14.58	40.69	75.70	39.58	12.44	26.74	17.08
1003.3	0.122	13.14	40.43	40.31	15.72	14.54	40.68	75.66	39.59	12.96	26.72	17.12
1003.3	0.121	13.15	40.39	40.30	15.71	14.55	40.67	75.63	39.58	12.72	26.70	17.12
1003.2	0.128	13.00	40.43	40.33	15.71	14.56	40.63	75.65	39.61	12.82	26.70	17.00
1003.1	0.108	13.08	40.33	40.34	15.70	14.59	40.62	75.71	39.55	13.28	26.77	17.06
1003.2	0.148	13.10	40.39	40.26	15.70	14.59	40.66	75.68	39.59	12.46	26.73	17.06
1003.4	0.103	13.07	40.40	40.28	15.67	14.58	40.58	75.64	39.55	12.65	26.68	17.05
1003.2	0.098	13.06	40.33	40.28	15.69	14.51	40.59	75.66	39.56	12.26	26.73	17.03
1003.2	0.116	13.10	40.34	40.27	15.73	14.53	40.55	75.59	39.46	13.24	26.65	17.03
1003.3	0.110	13.09	40.24	40.16	15.70	14.57	40.51	75.64	39.46	12.22	26.71	17.08
1003.2	0.120	13.13	40.27	40.18	15.69	14.53	40.49	75.58	39.49	13.24	26.72	16.97
1003.4	0.127	13.09	40.30	40.17	15.66	14.53	40.52	75.62	39.44	13.11	26.70	17.05
1003.0	0.130	12.98	40.29	40.20	15.71	14.56	40.49	75.60	39.43	13.35	26.69	17.04
1003.2	0.101	13.08	40.28	40.25	15.66	14.54	40.55	75.57	39.41	12.08	26.72	17.03
1003.3	0.114	13.00	40.25	40.19	15.66	14.53	40.47	75.57	39.41	13.14	26.71	17.07
1003.1	0.096	13.03	40.25	40.15	15.68	14.52	40.50	75.55	39.40	12.53	26.71	17.09
1003.5	0.094	13.07	40.24	40.16	15.72	14.54	40.50	75.55	39.41	12.74	26.71	17.01
1003.2	0.123	13.09	40.23	40.17	15.68	14.54	40.53	75.54	39.45	13.43	26.72	17.09
1003.8	0.105	13.07	40.28	40.22	15.73	14.57	40.52	75.54	39.39	13.37	26.73	17.03
1003.3	0.119	12.99	40.29	40.22	15.70	14.64	40.44	75.57	39.36	13.69	26.75	17.05
1003.2	0.137	13.08	40.25	40.14	15.69	14.57	40.50	75.51	39.41	13.36	26.71	17.05
1003.3	0.116	13.05	40.29	40.16	15.70	14.63	40.45	75.51	39.42	13.56	26.68	17.01
1003.3	0.131	12.99	40.23	40.13	15.69	14.65	40.41	75.54	39.42	13.50	26.69	17.01
1003.3	0.129	13.08	40.21	40.07	15.68	14.65	40.41	75.57	39.41	13.22	26.75	17.02
1003.3	0.117	13.02	40.21	40.09	15.70	14.76	40.45	75.61	39.41	13.34	26.65	17.09
1003.3	0.133	13.04	40.25	40.12	15.72	14.75	40.48	75.56	39.32	12.47	26.76	17.05
1003.2	0.143	13.05	40.24	40.09	15.67	14.70	40.53	75.55	39.31	11.94	26.67	17.03
1003.2	0.118	13.02	40.33	40.21	15.65	14.62	40.60	75.47	39.37	11.21	26.72	17.12
1003.4	0.092	13.07	40.39	40.29	15.65	14.43	40.68	75.37	39.37	10.05	26.66	16.98
1003.1	0.108	13.05	40.46	40.29	15.68	14.23	40.74	75.35	39.41	9.98	26.70	17.03
1003.1	0.112	13.09	40.49	40.39	15.61	13.97	40.73	75.25	39.48	9.94	26.70	17.02

1003.4	0.126	13.05	40.48	40.33	15.65	13.77	40.69	75.21	39.51	9.89	26.68	17.05
1003.2	0.103	13.06	40.46	40.25	15.68	13.73	40.70	75.23	39.59	10.84	26.70	17.03
1002.9	0.127	13.06	40.41	40.32	15.69	13.72	40.63	75.19	39.60	12.79	26.72	17.07
1003.3	0.140	13.16	40.30	40.33	15.70	13.83	40.53	75.26	39.53	13.69	26.71	17.00
1003.5	0.130	13.17	40.31	40.23	15.69	14.06	40.56	75.33	39.55	12.62	26.70	17.09
1003.3	0.123	13.11	40.30	40.25	15.62	14.19	40.45	75.37	39.53	14.02	26.68	17.05
1003.3	0.102	13.13	40.28	40.22	15.70	14.36	40.53	75.43	39.50	14.17	26.72	17.00
1003.0	0.096	13.17	40.28	40.21	15.67	14.54	40.55	75.54	39.53	14.42	26.63	17.03
1003.0	0.153	13.10	40.30	40.21	15.70	14.76	40.56	75.56	39.44	14.13	26.67	17.09
1003.2	0.132	13.14	40.37	40.22	15.70	14.84	40.59	75.64	39.41	14.00	26.70	17.06
1002.8	0.138	13.21	40.41	40.23	15.70	14.86	40.61	75.66	39.47	13.92	26.69	17.04
1003.2	0.114	13.20	40.34	40.28	15.69	14.90	40.58	75.71	39.43	13.49	26.70	17.05
1003.4	0.139	13.29	40.43	40.26	15.66	14.92	40.69	75.78	39.48	13.10	26.72	17.09
1003.3	0.111	13.16	40.54	40.35	15.70	14.89	40.76	75.82	39.50	12.85	26.76	17.01
1003.2	0.116	13.21	40.51	40.38	15.68	14.84	40.76	75.78	39.45	13.28	26.69	17.06
1003.2	0.106	13.22	40.56	40.37	15.69	14.78	40.77	75.84	39.58	13.04	26.72	17.01
1002.9	0.113	13.28	40.57	40.44	15.68	14.71	40.81	75.86	39.56	12.97	26.70	17.00
1003.2	0.121	13.31	40.64	40.46	15.68	14.63	40.85	75.78	39.57	12.46	26.65	17.04
1003.2	0.126	13.36	40.64	40.51	15.71	14.57	40.86	75.85	39.65	11.97	26.69	16.97
1003.1	0.094	13.34	40.67	40.53	15.69	14.53	40.87	75.84	39.65	11.74	26.63	17.03
1003.4	0.130	13.34	40.65	40.49	15.67	14.51	40.86	75.89	39.69	12.16	26.73	17.05
1003.1	0.123	13.40	40.59	40.48	15.72	14.46	40.82	75.90	39.68	12.66	26.68	17.00
1003.1	0.149	13.37	40.67	40.55	15.70	14.45	40.87	75.86	39.72	11.65	26.60	17.12
1003.2	0.104	13.45	40.62	40.56	15.68	14.43	40.88	75.89	39.73	12.07	26.70	17.00
1003.2	0.109	13.41	40.65	40.51	15.68	14.36	40.85	75.94	39.74	12.51	26.66	16.93
1003.2	0.107	13.36	40.63	40.53	15.71	14.38	40.86	75.91	39.75	11.75	26.65	17.04
1003.1	0.113	13.44	40.62	40.54	15.72	14.39	40.85	75.92	39.71	12.40	26.67	17.08
1003.4	0.150	13.44	40.70	40.56	15.71	14.37	40.89	75.91	39.72	12.43	26.68	17.01
1002.7	0.135	13.42	40.65	40.60	15.72	14.35	40.92	75.89	39.69	12.61	26.73	17.04
1003.1	0.126	13.41	40.66	40.58	15.68	14.38	40.90	75.85	39.75	12.64	26.65	17.04
1002.8	0.150	13.43	40.70	40.56	15.67	14.37	40.93	75.89	39.76	12.64	26.66	17.02
1003.2	0.109	13.54	40.70	40.59	15.67	14.34	40.88	75.88	39.79	12.34	26.71	17.02
1003.2	0.115	13.57	40.67	40.55	15.65	14.37	40.87	75.86	39.78	12.54	26.70	17.00
1003.2	0.109	13.55	40.66	40.50	15.67	14.32	40.86	75.86	39.83	11.84	26.73	17.01
1003.2	0.111	13.49	40.61	40.52	15.71	14.37	40.84	75.85	39.68	12.95	26.62	17.07
1003.2	0.107	13.54	40.61	40.49	15.70	14.42	40.78	75.84	39.74	12.48	26.63	17.02
1003.3	0.138	13.54	40.56	40.53	15.73	14.42	40.80	75.84	39.75	12.69	26.71	17.00
1003.2	0.133	13.57	40.61	40.50	15.67	14.47	40.77	75.83	39.73	12.92	26.65	17.03
1003.2	0.115	13.62	40.53	40.45	15.72	14.53	40.75	75.85	39.66	13.46	26.68	16.98
1003.4	0.117	13.64	40.46	40.49	15.70	14.58	40.76	75.83	39.66	13.66	26.67	17.02
1003.3	0.129	13.60	40.58	40.41	15.71	14.64	40.70	75.89	39.68	13.60	26.67	16.98
1003.1	0.127	13.66	40.54	40.44	15.70	14.68	40.72	75.82	39.66	13.58	26.60	17.07
1003.2	0.096	13.64	40.46	40.39	15.74	14.72	40.69	75.77	39.66	13.78	26.64	17.13
1003.1	0.098	13.72	40.43	40.38	15.75	14.75	40.64	75.86	39.61	13.79	26.68	17.03
1003.1	0.143	13.76	40.39	40.35	15.75	14.80	40.63	75.81	39.58	13.70	26.64	17.02
1003.2	0.107	13.73	40.44	40.30	15.68	14.79	40.64	75.83	39.60	13.32	26.60	17.08
1003.2	0.127	13.77	40.41	40.35	15.73	14.81	40.57	75.82	39.55	13.72	26.63	17.07
1003.2	0.071	13.67	40.35	40.32	15.71	14.79	40.61	75.85	39.51	13.63	26.54	17.01
1003.2	0.132	13.72	40.41	40.32	15.71	14.83	40.63	75.84	39.51	12.04	26.66	17.04
1003.2	0.121	13.74	40.42	40.31	15.69	14.77	40.60	75.78	39.57	12.80	26.64	17.00
1003.3	0.136	13.71	40.41	40.32	15.72	14.78	40.61	75.80	39.49	12.86	26.69	17.03
1003.4	0.106	13.75	40.45	40.33	15.69	14.71	40.62	75.78	39.59	12.75	26.65	17.03
1003.4	0.124	13.85	40.34	40.26	15.71	14.67	40.64	75.78	39.40	13.35	26.58	17.05
1003.1	0.115	13.76	40.44	40.31	15.66	14.66	40.62	75.73	39.55	12.58	26.63	17.03
1002.9	0.115	13.90	40.46	40.33	15.70	14.60	40.58	75.69	39.56	13.37	26.66	17.01
1003.3	0.142	13.89	40.40	40.31	15.70	14.58	40.59	75.71	39.49	12.89	26.66	16.99
1003.3	0.117	13.86	40.35	40.29	15.71	14.58	40.57	75.66	39.50	12.93	26.64	16.99
1003.3	0.130	13.91	40.33	40.27	15.69	14.59	40.57	75.68	39.53	12.83	26.66	17.03
1003.4	0.125	13.92	40.35	40.29	15.70	14.59	40.59	75.68	39.52	13.11	26.65	17.00

1003.2	0.126	13.93	40.37	40.23	15.74	14.58	40.56	75.65	39.55	13.29	26.69	17.07
1003.3	0.127	14.00	40.26	40.23	15.68	14.61	40.50	75.62	39.46	12.79	26.69	17.05
1003.2	0.126	13.95	40.26	40.30	15.68	14.55	40.55	75.62	39.49	13.21	26.68	17.02
1003.3	0.099	13.95	40.30	40.23	15.67	14.60	40.59	75.64	39.47	11.66	26.66	16.97
1003.3	0.128	13.94	40.27	40.28	15.71	14.49	40.57	75.66	39.48	12.75	26.58	17.03
1003.3	0.098	14.00	40.33	40.20	15.68	14.47	40.59	75.67	39.46	12.39	26.71	17.01
1003.4	0.122	13.97	40.38	40.25	15.70	14.51	40.60	75.64	39.49	13.10	26.56	17.08
1003.3	0.114	14.08	40.35	40.27	15.70	14.47	40.56	75.59	39.43	13.30	26.66	16.97
1002.9	0.099	13.94	40.34	40.25	15.70	14.49	40.56	75.56	39.45	12.79	26.65	17.00
1003.4	0.152	14.07	40.33	40.27	15.67	14.46	40.55	75.57	39.50	13.34	26.60	17.02
1003.3	0.138	14.04	40.35	40.24	15.71	14.48	40.55	75.54	39.48	13.21	26.70	16.98
1003.3	0.113	14.10	40.32	40.19	15.70	14.50	40.52	75.51	39.50	13.04	26.68	17.02
1003.2	0.122	14.13	40.27	40.22	15.70	14.53	40.49	75.50	39.49	12.42	26.64	17.00
1003.3	0.100	14.12	40.32	40.24	15.73	14.57	40.51	75.53	39.43	13.52	26.75	16.96
1003.1	0.130	14.19	40.27	40.18	15.68	14.64	40.50	75.52	39.43	13.70	26.69	17.01
1003.4	0.099	14.18	40.25	40.17	15.73	14.68	40.50	75.50	39.43	13.56	26.65	17.00
1003.3	0.122	14.18	40.29	40.17	15.68	14.75	40.46	75.54	39.41	13.85	26.69	17.06
1003.0	0.130	14.20	40.26	40.20	15.70	14.72	40.52	75.58	39.42	14.01	26.70	17.07
1003.1	0.107	14.18	40.26	40.22	15.71	14.84	40.49	75.58	39.44	13.68	26.61	17.05
1003.1	0.094	14.22	40.28	40.20	15.70	14.77	40.51	75.58	39.40	13.49	26.66	17.02
1003.3	0.130	14.21	40.32	40.22	15.68	14.72	40.54	75.59	39.41	13.04	26.64	16.98
1003.1	0.107	14.25	40.30	40.26	15.70	14.81	40.58	75.62	39.41	13.25	26.67	17.05
1003.5	0.109	14.30	40.38	40.23	15.70	14.74	40.57	75.65	39.43	13.40	26.69	17.04
1003.2	0.137	14.27	40.31	40.24	15.71	14.69	40.58	75.59	39.46	12.10	26.61	17.07
1003.4	0.129	14.23	40.34	40.23	15.69	14.68	40.56	75.57	39.46	12.81	26.65	17.02
1003.3	0.117	14.30	40.30	40.17	15.67	14.68	40.56	75.59	39.44	12.68	26.70	16.99
1003.2	0.120	14.34	40.34	40.17	15.70	14.65	40.57	75.53	39.42	13.36	26.67	17.03
1003.4	0.105	14.33	40.30	40.22	15.68	14.62	40.55	75.55	39.46	13.13	26.67	17.06
1003.2	0.124	14.31	40.37	40.24	15.71	14.60	40.58	75.62	39.45	12.63	26.62	17.10
1003.3	0.109	14.35	40.32	40.26	15.71	14.58	40.58	75.60	39.46	13.20	26.70	16.98
1003.2	0.128	14.40	40.40	40.32	15.68	14.57	40.65	75.56	39.44	11.84	26.69	17.06
1003.2	0.127	14.45	40.34	40.26	15.72	14.54	40.57	75.56	39.44	12.36	26.62	16.99
1003.2	0.133	14.41	40.37	40.25	15.68	14.48	40.61	75.58	39.47	12.82	26.67	17.01
1003.0	0.105	14.46	40.42	40.32	15.67	14.50	40.66	75.60	39.46	12.54	26.78	17.08
1003.2	0.098	14.44	40.38	40.33	15.69	14.49	40.59	75.59	39.48	11.65	26.69	17.05
1003.1	0.148	14.47	40.40	40.28	15.71	14.48	40.63	75.64	39.54	13.21	26.68	17.06
1003.2	0.129	14.39	40.42	40.32	15.71	14.49	40.66	75.66	39.53	13.08	26.65	17.10
1003.4	0.100	14.45	40.43	40.33	15.66	14.43	40.66	75.67	39.54	13.25	26.66	17.05
1003.2	0.129	14.42	40.48	40.38	15.69	14.45	40.67	75.63	39.51	12.65	26.71	16.99
1003.4	0.103	14.45	40.42	40.35	15.72	14.47	40.67	75.63	39.50	11.84	26.71	17.00
1003.3	0.132	14.54	40.49	40.35	15.66	14.50	40.74	75.62	39.56	12.75	26.64	17.04
1003.3	0.128	14.48	40.46	40.41	15.73	14.47	40.76	75.62	39.55	12.29	26.74	17.08
1003.1	0.098	14.55	40.49	40.36	15.71	14.39	40.74	75.56	39.55	12.81	26.69	17.10
1003.1	0.110	14.60	40.45	40.41	15.71	14.45	40.76	75.60	39.59	12.58	26.67	16.98
1003.2	0.131	14.60	40.52	40.47	15.70	14.37	40.71	75.59	39.55	12.77	26.63	17.10
1003.2	0.119	14.57	40.47	40.35	15.65	14.42	40.67	75.55	39.57	13.09	26.62	17.04
1003.2	0.088	14.61	40.49	40.37	15.69	14.42	40.71	75.59	39.62	12.39	26.64	17.05
1003.2	0.112	14.69	40.48	40.40	15.69	14.44	40.73	75.61	39.65	12.92	26.65	17.00
1003.2	0.138	14.54	40.52	40.40	15.70	14.43	40.72	75.60	39.59	13.27	26.74	17.05
1003.2	0.116	14.66	40.54	40.43	15.70	14.48	40.71	75.63	39.58	13.04	26.70	17.09
1003.0	0.131	14.59	40.54	40.38	15.66	14.46	40.74	75.63	39.57	13.11	26.73	17.04
1002.6	0.107	14.70	40.51	40.37	15.69	14.50	40.73	75.66	39.56	12.35	26.69	17.10
1003.2	0.108	14.70	40.56	40.42	15.67	14.51	40.76	75.69	39.59	13.06	26.70	16.98
1003.2	0.140	14.71	40.52	40.43	15.72	14.51	40.78	75.75	39.62	12.72	26.67	17.00
1003.1	0.140	14.74	40.57	40.37	15.67	14.46	40.78	75.65	39.70	12.67	26.66	17.07
1003.2	0.113	14.73	40.51	40.45	15.72	14.47	40.80	75.61	39.68	12.62	26.69	17.01
1003.3	0.122	14.77	40.55	40.43	15.71	14.48	40.78	75.69	39.61	12.91	26.63	17.03
1003.1	0.130	14.77	40.50	40.47	15.72	14.48	40.76	75.66	39.63	11.60	26.70	16.98
1003.2	0.104	14.85	40.53	40.45	15.71	14.47	40.80	75.66	39.69	12.83	26.71	17.04

1003.1	0.098	14.79	40.53	40.50	15.71	14.44	40.81	75.75	39.67	12.75	26.74	17.03
1003.1	0.134	14.75	40.57	40.47	15.71	14.37	40.83	75.73	39.69	12.89	26.68	17.01
1002.8	0.108	14.77	40.65	40.49	15.70	14.41	40.85	75.75	39.66	12.41	26.70	16.97
1003.3	0.118	14.87	40.61	40.52	15.68	14.41	40.83	75.71	39.67	11.98	26.66	17.03
1003.2	0.131	14.88	40.59	40.52	15.73	14.40	40.87	75.73	39.70	12.23	26.71	17.01
1003.3	0.106	14.86	40.60	40.50	15.72	14.38	40.85	75.71	39.74	11.82	26.69	17.08
1003.0	0.116	14.89	40.60	40.53	15.69	14.35	40.81	75.72	39.71	12.33	26.68	16.93
1002.9	0.098	14.90	40.52	40.49	15.66	14.42	40.80	75.72	39.70	11.89	26.66	17.04
1003.1	0.116	14.84	40.54	40.48	15.69	14.37	40.78	75.70	39.70	12.18	26.73	17.13
1003.2	0.124	14.89	40.56	40.48	15.68	14.36	40.75	75.74	39.69	12.43	26.73	17.03
1003.2	0.127	14.91	40.58	40.47	15.72	14.31	40.78	75.72	39.64	12.24	26.68	17.09
1003.2	0.115	14.90	40.57	40.53	15.68	14.38	40.80	75.73	39.66	12.39	26.67	17.01
1003.0	0.135	14.96	40.61	40.46	15.74	14.37	40.88	75.75	39.67	11.99	26.68	17.03

Table F-3. Continued

Indoor Wetbulb C	Evap		Outdoor Temp C	Cond Power kW	Cond Voltage V	Evap Chamber Pres in/H2O	Evap Diff Pres in/H2O	Evap			Evap Power kW	Refrig Press Before MFM psig	Refrig Press After MFM psig
	Exit Wetbulb C	Outdoor Wetbulb C						Static Pres in/H2O	MFM Refrig lb/min	Evap Voltage V			
19.35	13.88	21.91	35.04	1.91	241.16	0.153	0.312	0.140	5.72	244.94	0.13	386.60	385.42
19.34	13.87	21.91	35.04	1.92	238.88	0.160	0.305	0.157	5.75	244.64	0.13	387.73	387.68
19.34	13.88	21.91	35.04	1.92	241.05	0.142	0.296	0.142	5.71	245.12	0.14	385.78	388.09
19.34	13.86	21.91	35.04	1.91	243.05	0.152	0.342	0.142	5.74	243.66	0.14	387.89	387.78
19.35	13.88	21.92	35.04	1.90	243.25	0.152	0.322	0.134	5.74	242.69	0.13	384.71	387.99
19.35	13.87	21.92	35.04	1.90	241.03	0.147	0.318	0.133	5.74	244.60	0.13	386.19	388.96
19.36	13.88	21.92	35.04	1.90	244.25	0.154	0.330	0.151	5.72	242.63	0.14	387.01	388.29
19.36	13.88	21.93	35.04	1.90	245.61	0.143	0.363	0.141	5.75	242.83	0.14	386.04	388.24
19.37	13.88	21.93	35.04	1.91	243.08	0.148	0.345	0.142	5.73	244.74	0.13	385.83	387.94
19.37	13.88	21.93	35.04	1.92	242.39	0.159	0.312	0.150	5.75	243.37	0.13	386.25	386.70
19.37	13.89	21.93	35.03	1.92	245.25	0.151	0.326	0.155	5.73	241.57	0.13	385.42	387.58
19.37	13.88	21.93	35.03	1.90	241.77	0.145	0.320	0.143	5.73	242.45	0.13	385.83	387.68
19.37	13.89	21.93	35.04	1.90	244.16	0.145	0.299	0.150	5.72	243.17	0.13	385.12	387.17
19.37	13.89	21.93	35.03	1.90	240.40	0.151	0.304	0.156	5.76	245.33	0.14	387.27	388.55
19.37	13.88	21.94	35.04	1.90	244.94	0.151	0.326	0.153	5.76	244.01	0.14	386.66	389.94
19.37	13.89	21.94	35.04	1.90	244.68	0.156	0.304	0.134	5.73	243.52	0.14	386.81	388.86
19.37	13.88	21.94	35.04	1.90	243.17	0.158	0.303	0.152	5.75	246.03	0.14	385.12	388.09
19.37	13.89	21.94	35.04	1.91	244.54	0.152	0.329	0.151	5.76	244.69	0.14	386.76	387.88
19.37	13.89	21.94	35.04	1.90	243.24	0.153	0.338	0.141	5.76	243.77	0.14	384.30	387.22
19.37	13.89	21.94	35.04	1.91	245.08	0.139	0.321	0.145	5.77	241.34	0.14	385.99	387.42
19.37	13.89	21.95	35.04	1.90	244.79	0.146	0.309	0.143	5.76	242.66	0.13	384.86	387.94
19.37	13.89	21.95	35.04	1.91	246.50	0.151	0.308	0.151	5.75	243.57	0.14	384.19	387.88
19.37	13.89	21.95	35.03	1.89	245.87	0.158	0.309	0.153	5.72	243.14	0.14	385.63	387.22
19.37	13.88	21.95	35.03	1.91	244.04	0.153	0.340	0.151	5.73	241.69	0.14	387.07	387.53
19.36	13.89	21.95	35.02	1.90	244.36	0.153	0.343	0.155	5.74	245.09	0.13	385.94	387.63
19.35	13.88	21.95	35.02	1.91	242.22	0.150	0.287	0.142	5.74	241.23	0.14	384.81	386.60
19.35	13.88	21.95	35.01	1.88	244.34	0.156	0.343	0.143	5.74	244.49	0.13	385.83	386.55
19.35	13.89	21.95	35.00	1.92	247.78	0.154	0.299	0.164	5.69	242.12	0.14	383.63	386.35
19.34	13.87	21.95	35.00	1.91	241.34	0.149	0.313	0.152	5.70	239.28	0.14	384.55	387.78
19.34	13.87	21.95	34.99	1.91	248.67	0.155	0.330	0.145	5.72	241.33	0.14	385.73	386.76
19.33	13.87	21.95	34.99	1.91	243.96	0.155	0.325	0.142	5.71	238.56	0.13	384.81	385.37
19.33	13.86	21.95	34.98	1.90	241.43	0.155	0.319	0.141	5.73	242.51	0.14	383.99	385.99
19.33	13.87	21.95	34.97	1.89	242.77	0.147	0.320	0.136	5.69	244.66	0.13	384.09	387.01
19.32	13.87	21.95	34.97	1.91	242.02	0.149	0.344	0.149	5.69	244.21	0.14	384.35	386.29
19.33	13.85	21.95	34.96	1.89	243.71	0.141	0.341	0.128	5.69	242.34	0.13	383.99	386.45
19.33	13.85	21.95	34.95	1.91	243.36	0.150	0.314	0.154	5.76	243.98	0.13	383.47	386.40
19.34	13.86	21.95	34.95	1.90	244.05	0.159	0.335	0.165	5.69	243.45	0.13	383.78	383.88
19.34	13.86	21.94	34.94	1.90	245.07	0.152	0.325	0.153	5.71	240.80	0.13	383.78	386.04
19.34	13.85	21.95	34.94	1.89	244.68	0.154	0.324	0.144	5.75	240.99	0.14	384.19	385.99
19.35	13.85	21.95	34.93	1.90	246.42	0.159	0.310	0.150	5.69	240.56	0.13	382.86	386.40
19.35	13.87	21.95	34.92	1.90	244.30	0.151	0.295	0.152	5.69	242.43	0.13	384.24	385.06
19.36	13.87	21.95	34.92	1.90	246.42	0.153	0.316	0.147	5.74	242.95	0.13	384.04	386.04
19.36	13.87	21.95	34.91	1.90	238.83	0.146	0.328	0.134	5.75	242.43	0.14	385.68	386.50
19.35	13.87	21.95	34.90	1.88	240.65	0.152	0.318	0.143	5.74	244.70	0.13	383.78	384.96
19.35	13.88	21.95	34.90	1.90	247.50	0.147	0.329	0.136	5.81	239.34	0.14	382.40	388.04
19.35	13.87	21.95	34.90	1.89	246.70	0.154	0.356	0.150	5.77	243.32	0.13	383.73	385.73
19.35	13.86	21.95	34.89	1.90	244.19	0.142	0.348	0.135	5.75	242.80	0.14	384.40	385.73
19.35	13.86	21.95	34.90	1.91	243.57	0.149	0.302	0.150	5.75	246.35	0.14	384.55	386.55
19.34	13.85	21.95	34.89	1.90	241.94	0.154	0.326	0.155	5.77	244.06	0.13	383.68	384.40
19.34	13.87	21.95	34.88	1.89	242.47	0.161	0.327	0.153	5.72	242.58	0.13	384.35	386.29

19.34	13.87	21.95	34.89	1.90	241.91	0.146	0.310	0.135	5.71	240.80	0.14	384.71	386.70
19.34	13.86	21.95	34.89	1.89	244.64	0.143	0.297	0.147	5.69	241.91	0.14	385.37	387.63
19.34	13.87	21.96	34.89	1.90	241.99	0.148	0.280	0.149	5.71	239.42	0.13	384.65	386.96
19.35	13.88	21.96	34.90	1.90	244.82	0.147	0.334	0.132	5.74	242.20	0.13	387.07	387.42
19.36	13.87	21.97	34.91	1.91	242.36	0.146	0.319	0.139	5.74	238.24	0.14	385.37	387.47
19.36	13.87	21.97	34.91	1.91	240.80	0.151	0.330	0.151	5.73	239.88	0.13	384.91	387.01
19.36	13.87	21.97	34.92	1.92	240.70	0.156	0.318	0.153	5.70	238.94	0.13	385.32	386.86
19.36	13.87	21.98	34.93	1.91	242.08	0.148	0.336	0.146	5.73	241.74	0.13	387.12	386.86
19.36	13.87	21.98	34.93	1.89	245.47	0.156	0.337	0.145	5.73	245.27	0.14	387.78	387.94
19.36	13.87	21.98	34.94	1.92	241.87	0.161	0.310	0.149	5.74	243.14	0.14	385.42	387.63
19.36	13.87	21.99	34.95	1.92	249.02	0.150	0.304	0.152	5.72	241.36	0.14	386.35	387.06
19.36	13.87	21.99	34.96	1.90	243.57	0.165	0.302	0.150	5.74	242.55	0.14	386.14	387.68
19.36	13.86	22.00	34.97	1.91	246.39	0.150	0.336	0.143	5.78	240.65	0.14	387.73	390.04
19.36	13.86	22.01	34.98	1.92	242.31	0.155	0.327	0.146	5.71	241.80	0.13	386.25	388.09
19.37	13.87	22.01	34.99	1.91	244.08	0.167	0.343	0.159	5.76	241.09	0.13	385.68	388.50
19.36	13.86	22.01	35.00	1.91	241.90	0.148	0.310	0.146	5.75	239.62	0.14	385.73	388.81
19.36	13.87	22.02	35.01	1.92	247.28	0.143	0.326	0.136	5.73	241.11	0.13	387.27	389.53
19.36	13.87	22.02	35.02	1.91	244.19	0.148	0.324	0.144	5.73	239.93	0.13	388.04	389.37
19.36	13.87	22.03	35.03	1.92	242.34	0.149	0.331	0.144	5.73	245.35	0.14	386.25	388.65
19.35	13.87	22.03	35.05	1.91	243.77	0.146	0.319	0.153	5.73	244.17	0.13	387.84	389.73
19.35	13.87	22.04	35.05	1.91	246.38	0.150	0.331	0.146	5.76	242.29	0.14	387.53	389.06
19.35	13.87	22.04	35.07	1.92	245.07	0.148	0.336	0.146	5.74	243.09	0.13	388.25	389.47
19.35	13.87	22.05	35.08	1.90	241.22	0.149	0.298	0.155	5.74	244.37	0.13	388.55	389.68
19.34	13.87	22.05	35.08	1.91	244.24	0.146	0.318	0.150	5.71	244.51	0.14	387.12	389.73
19.34	13.88	22.06	35.10	1.91	243.77	0.156	0.323	0.146	5.73	239.30	0.14	387.58	389.47
19.34	13.87	22.06	35.10	1.91	245.50	0.154	0.323	0.146	5.75	243.84	0.13	387.94	390.09
19.34	13.87	22.07	35.11	1.91	245.39	0.146	0.323	0.136	5.72	244.01	0.13	388.40	389.89
19.34	13.87	22.07	35.12	1.92	242.16	0.149	0.315	0.140	5.74	245.30	0.13	388.19	389.83
19.34	13.87	22.07	35.13	1.92	243.59	0.142	0.344	0.147	5.72	243.84	0.13	387.58	389.17
19.33	13.87	22.08	35.13	1.92	244.56	0.148	0.340	0.148	5.74	245.46	0.14	386.40	389.83
19.33	13.87	22.08	35.14	1.92	246.28	0.149	0.311	0.138	5.71	240.79	0.13	388.45	390.19
19.33	13.86	22.09	35.14	1.92	242.50	0.147	0.367	0.142	5.72	239.67	0.13	386.25	388.71
19.34	13.87	22.09	35.14	1.92	242.36	0.154	0.330	0.151	5.71	246.49	0.13	388.35	390.24
19.35	13.86	22.09	35.15	1.91	246.42	0.155	0.333	0.144	5.73	240.86	0.14	387.48	389.17
19.35	13.88	22.09	35.15	1.92	244.33	0.154	0.325	0.146	5.73	242.85	0.14	387.68	389.22
19.35	13.87	22.09	35.14	1.91	239.46	0.151	0.322	0.153	5.70	242.02	0.13	390.61	388.24
19.35	13.88	22.09	35.14	1.93	240.82	0.164	0.315	0.158	5.73	243.09	0.13	387.43	389.12
19.36	13.88	22.10	35.14	1.90	241.83	0.156	0.288	0.151	5.73	240.88	0.14	383.58	387.06
19.36	13.88	22.09	35.13	1.93	239.97	0.149	0.294	0.144	5.73	243.71	0.13	386.76	388.76
19.36	13.88	22.09	35.14	1.92	239.14	0.159	0.325	0.150	5.72	244.08	0.14	387.43	388.04
19.36	13.88	22.10	35.13	1.91	242.48	0.149	0.325	0.140	5.77	243.75	0.14	388.14	389.63
19.37	13.89	22.09	35.12	1.91	243.04	0.150	0.332	0.132	5.72	243.06	0.13	387.37	388.40
19.36	13.89	22.09	35.12	1.91	245.70	0.153	0.327	0.143	5.72	243.11	0.14	385.94	388.29
19.36	13.89	22.10	35.11	1.91	243.24	0.139	0.348	0.126	5.70	243.55	0.13	386.50	387.11
19.36	13.88	22.09	35.10	1.91	245.41	0.152	0.361	0.155	5.72	242.32	0.13	387.89	388.09
19.36	13.88	22.09	35.10	1.91	243.87	0.150	0.321	0.155	5.74	243.49	0.13	385.89	387.01
19.36	13.89	22.09	35.09	1.91	247.61	0.148	0.307	0.154	5.69	245.70	0.13	385.63	388.04
19.35	13.88	22.09	35.09	1.90	245.94	0.143	0.303	0.153	5.74	244.35	0.13	385.48	388.65
19.35	13.88	22.09	35.08	1.89	243.10	0.147	0.311	0.149	5.72	243.81	0.14	384.55	387.78
19.36	13.88	22.09	35.07	1.92	242.71	0.157	0.293	0.151	5.74	244.80	0.14	386.50	387.94
19.36	13.88	22.09	35.07	1.91	247.81	0.145	0.326	0.138	5.74	241.76	0.14	385.68	387.83
19.35	13.87	22.09	35.07	1.91	247.05	0.155	0.319	0.133	5.73	242.69	0.14	385.58	387.58
19.35	13.87	22.09	35.06	1.89	245.67	0.146	0.351	0.134	5.71	247.25	0.14	385.94	387.68
19.35	13.87	22.09	35.05	1.92	240.97	0.143	0.349	0.137	5.72	244.31	0.13	385.07	386.70
19.35	13.88	22.09	35.04	1.90	248.78	0.146	0.332	0.144	5.72	243.37	0.14	386.09	386.65
19.35	13.87	22.09	35.03	1.90	245.45	0.148	0.328	0.155	5.73	242.49	0.13	384.40	387.17
19.34	13.86	22.09	35.03	1.91	241.62	0.149	0.301	0.138	5.71	244.75	0.14	385.53	386.86
19.34	13.87	22.09	35.02	1.90	244.42	0.154	0.334	0.149	5.73	243.02	0.13	384.76	386.70
19.34	13.86	22.09	35.02	1.90	248.13	0.155	0.316	0.153	5.74	242.97	0.14	384.71	386.14

19.33	13.87	22.09	35.01	1.90	244.85	0.146	0.310	0.145	5.70	245.40	0.14	383.63	384.70
19.33	13.86	22.09	35.01	1.90	244.10	0.146	0.300	0.148	5.74	247.35	0.13	384.40	386.86
19.33	13.86	22.09	35.00	1.91	243.90	0.150	0.325	0.140	5.72	244.14	0.13	384.30	386.35
19.33	13.85	22.09	34.99	1.91	245.76	0.148	0.317	0.133	5.74	243.77	0.14	384.55	386.60
19.32	13.85	22.09	34.99	1.90	243.19	0.152	0.318	0.130	5.74	243.38	0.13	384.76	386.91
19.32	13.85	22.09	34.99	1.90	244.22	0.144	0.330	0.144	5.72	242.72	0.13	384.55	384.65
19.33	13.85	22.09	34.98	1.91	245.65	0.153	0.329	0.144	5.73	241.69	0.13	382.55	386.24
19.33	13.85	22.10	34.98	1.90	246.39	0.152	0.324	0.140	5.74	243.43	0.14	384.19	387.27
19.34	13.85	22.10	34.98	1.90	244.36	0.150	0.321	0.158	5.75	248.18	0.14	383.47	387.22
19.34	13.86	22.09	34.97	1.91	241.93	0.157	0.295	0.151	5.72	244.01	0.14	384.55	386.60
19.35	13.86	22.09	34.97	1.91	242.50	0.147	0.321	0.152	5.73	244.31	0.14	384.55	385.01
19.35	13.87	22.09	34.96	1.89	246.19	0.155	0.334	0.157	5.74	240.93	0.14	383.01	385.58
19.35	13.87	22.09	34.96	1.91	247.56	0.159	0.318	0.142	5.72	244.00	0.14	383.17	386.09
19.35	13.86	22.09	34.96	1.89	246.44	0.151	0.308	0.135	5.71	245.15	0.14	383.47	387.37
19.36	13.87	22.09	34.95	1.91	243.17	0.146	0.337	0.145	5.73	249.64	0.14	384.40	386.65
19.36	13.87	22.09	34.95	1.90	242.47	0.157	0.365	0.146	5.72	243.52	0.14	383.58	386.24
19.36	13.87	22.10	34.94	1.90	248.59	0.155	0.348	0.141	5.71	242.45	0.14	384.96	388.24
19.36	13.88	22.10	34.94	1.91	247.15	0.148	0.317	0.144	5.73	243.51	0.14	384.96	386.14
19.36	13.87	22.09	34.94	1.90	245.22	0.146	0.336	0.140	5.71	244.29	0.14	384.30	386.45
19.36	13.87	22.09	34.94	1.90	244.13	0.153	0.323	0.155	5.72	244.61	0.14	384.35	386.60
19.36	13.87	22.10	34.94	1.91	247.44	0.156	0.287	0.157	5.74	243.95	0.13	381.94	386.04
19.35	13.87	22.10	34.93	1.91	242.85	0.156	0.321	0.151	5.72	243.52	0.14	383.89	386.24
19.36	13.87	22.10	34.93	1.89	247.56	0.146	0.303	0.152	5.74	242.00	0.14	385.17	386.86
19.35	13.86	22.10	34.93	1.89	242.20	0.146	0.325	0.145	5.74	242.75	0.14	384.14	385.52
19.35	13.87	22.10	34.92	1.89	244.59	0.152	0.288	0.154	5.70	244.92	0.13	382.96	386.70
19.35	13.87	22.10	34.92	1.91	242.94	0.152	0.348	0.140	5.72	246.87	0.14	384.04	386.14
19.35	13.86	22.10	34.91	1.90	245.05	0.157	0.279	0.148	5.72	246.13	0.13	384.14	386.91
19.35	13.87	22.10	34.92	1.90	243.73	0.157	0.321	0.151	5.73	244.34	0.14	384.24	385.22
19.35	13.86	22.11	34.92	1.91	245.90	0.148	0.286	0.143	5.75	243.91	0.13	383.17	386.09
19.35	13.87	22.11	34.92	1.91	241.71	0.157	0.328	0.142	5.71	246.07	0.14	386.25	386.91
19.34	13.87	22.11	34.93	1.89	243.20	0.148	0.345	0.141	5.76	244.11	0.14	384.91	386.29
19.34	13.87	22.11	34.93	1.92	244.74	0.162	0.336	0.145	5.74	242.42	0.14	384.24	386.29
19.34	13.86	22.11	34.93	1.90	244.76	0.147	0.315	0.145	5.74	240.65	0.14	385.42	387.22
19.34	13.85	22.12	34.94	1.91	245.78	0.154	0.328	0.150	5.72	241.68	0.13	385.22	386.04
19.34	13.86	22.12	34.94	1.91	244.01	0.153	0.355	0.149	5.73	245.06	0.13	385.17	387.32
19.34	13.87	22.12	34.94	1.91	247.98	0.151	0.310	0.153	5.73	238.47	0.14	387.37	387.99
19.33	13.85	22.13	34.95	1.91	244.53	0.150	0.309	0.154	5.73	240.53	0.14	385.68	387.37
19.33	13.85	22.13	34.96	1.91	246.85	0.156	0.324	0.153	5.73	243.46	0.14	384.40	386.14
19.33	13.85	22.13	34.96	1.91	244.62	0.157	0.308	0.143	5.73	239.27	0.13	385.42	387.32
19.33	13.85	22.13	34.96	1.90	243.16	0.153	0.298	0.146	5.75	239.34	0.13	385.22	387.32
19.34	13.85	22.14	34.97	1.91	245.08	0.146	0.331	0.143	5.76	243.98	0.13	385.63	388.19
19.34	13.85	22.14	34.97	1.90	245.28	0.150	0.347	0.141	5.70	242.00	0.13	385.53	387.78
19.35	13.86	22.14	34.97	1.91	245.88	0.150	0.325	0.137	5.75	242.37	0.14	385.83	389.01
19.35	13.87	22.14	34.98	1.91	242.84	0.155	0.341	0.146	5.72	243.45	0.14	385.68	387.11
19.35	13.87	22.14	34.98	1.91	241.40	0.144	0.352	0.141	5.73	244.47	0.14	385.42	387.94
19.35	13.86	22.15	34.98	1.90	242.94	0.154	0.334	0.152	5.74	241.42	0.13	384.65	388.04
19.35	13.87	22.15	34.99	1.91	247.87	0.159	0.318	0.158	5.73	245.98	0.14	384.04	388.09
19.35	13.86	22.15	34.99	1.90	245.79	0.146	0.304	0.153	5.75	244.14	0.13	387.17	388.04
19.35	13.87	22.16	34.99	1.91	242.48	0.152	0.295	0.154	5.75	244.43	0.13	388.40	388.04
19.36	13.87	22.16	35.00	1.90	245.25	0.146	0.324	0.144	5.76	241.16	0.14	385.73	387.37
19.36	13.87	22.17	35.00	1.91	246.05	0.152	0.335	0.141	5.74	242.95	0.14	384.65	386.50
19.36	13.87	22.17	35.01	1.89	247.22	0.159	0.320	0.147	5.77	240.07	0.13	385.73	388.40
19.36	13.86	22.17	35.01	1.91	244.90	0.149	0.323	0.133	5.76	244.06	0.14	385.32	388.24
19.36	13.87	22.17	35.02	1.91	242.65	0.152	0.342	0.129	5.73	241.29	0.13	386.50	386.91
19.36	13.87	22.17	35.02	1.91	244.82	0.152	0.325	0.148	5.76	252.28	0.14	387.07	387.63
19.36	13.88	22.17	35.02	1.90	241.02	0.151	0.311	0.151	5.74	245.32	0.13	388.55	388.24
19.36	13.87	22.18	35.03	1.90	244.24	0.150	0.329	0.146	5.72	242.51	0.14	386.76	388.45
19.36	13.87	22.18	35.03	1.90	246.16	0.143	0.335	0.145	5.76	241.49	0.13	386.50	388.76
19.36	13.87	22.19	35.04	1.91	246.67	0.155	0.323	0.153	5.73	241.03	0.14	387.68	388.60

19.36	13.87	22.19	35.04	1.90	245.36	0.153	0.300	0.157	5.73	244.90	0.14	386.60	389.42
19.36	13.88	22.19	35.05	1.92	244.28	0.157	0.317	0.139	5.73	243.37	0.14	386.86	388.14
19.36	13.87	22.19	35.06	1.91	242.44	0.152	0.350	0.141	5.73	243.28	0.13	386.35	390.04
19.35	13.87	22.20	35.06	1.91	244.01	0.152	0.326	0.139	5.76	242.97	0.13	387.07	388.35
19.35	13.87	22.20	35.06	1.91	247.05	0.152	0.333	0.144	5.74	244.75	0.14	387.43	389.22
19.35	13.87	22.20	35.07	1.90	246.24	0.151	0.323	0.143	5.71	243.43	0.13	386.81	389.63
19.34	13.86	22.21	35.07	1.92	242.44	0.148	0.296	0.146	5.73	245.30	0.14	387.01	388.19
19.34	13.86	22.21	35.07	1.90	245.62	0.156	0.335	0.148	5.74	241.60	0.13	386.04	389.27
19.34	13.86	22.21	35.08	1.90	244.61	0.152	0.317	0.154	5.74	244.24	0.13	387.78	389.32
19.33	13.86	22.21	35.08	1.90	244.91	0.148	0.306	0.155	5.74	244.66	0.13	387.17	388.86
19.33	13.86	22.22	35.08	1.91	240.97	0.150	0.321	0.157	5.76	241.39	0.14	387.43	389.32
19.33	13.86	22.22	35.09	1.91	242.02	0.158	0.322	0.146	5.73	242.43	0.14	387.12	389.27
19.34	13.87	22.22	35.09	1.91	243.37	0.145	0.300	0.136	5.76	245.52	0.13	386.76	390.04

Table F-3. Continued

Refrig Press Evap In psig	Refrig Press Evap Out psig	Refrig Press Comp In psig	Refrig Press Cond Out psig	Refrig Press Comp Out psig	Condinsate weight oz	Evap Rho Inlet lb/ft ³	Evap Rho Nozzle lb/ft ³	Evap CFM Nozzle CFM	Evap CFM Outlet CFM	Capacity Balance Pass/Fail	Total Cooling Capacity Btu/hr
382.11	133.89	135.30	386.03	407.34	74.98	0.07229	0.07466	742.0	737.9	PASS	23590.2
381.55	133.58	135.25	385.72	404.26	80.66	0.07228	0.07467	755.6	751.6	PASS	24088.1
383.44	134.76	134.33	384.44	402.77	80.41	0.07229	0.07466	767.4	763.2	PASS	24311.5
387.45	133.43	134.23	386.13	403.34	79.58	0.07228	0.07466	771.6	767.2	PASS	24494.3
383.24	135.43	135.56	385.05	404.57	76.02	0.07228	0.07465	759.4	755.1	PASS	23705.1
383.75	132.30	134.38	386.33	407.03	77.70	0.07229	0.07468	768.5	764.4	PASS	23964.3
383.60	137.12	134.48	385.67	403.70	81.91	0.07228	0.07467	795.3	791.0	PASS	24648.7
383.24	134.40	135.56	386.39	403.49	74.67	0.07229	0.07466	813.4	808.9	PASS	23896.7
377.65	134.66	133.87	384.54	399.18	76.72	0.07229	0.07465	784.1	779.5	PASS	22835.0
382.98	135.33	135.82	385.21	401.95	84.80	0.07230	0.07466	767.0	762.8	PASS	23804.9
383.65	134.25	132.12	383.77	400.47	81.98	0.07228	0.07465	800.1	795.5	PASS	24458.3
382.42	136.15	132.22	383.82	404.21	86.58	0.07230	0.07464	791.6	787.1	PASS	23930.7
385.91	134.97	134.07	385.72	402.31	78.18	0.07229	0.07464	778.2	773.8	PASS	24021.0
386.88	134.15	132.84	387.36	405.08	84.63	0.07228	0.07463	802.1	797.4	PASS	23916.7
385.75	134.20	135.87	385.36	402.00	83.62	0.07227	0.07465	779.4	775.3	PASS	23805.8
384.47	133.17	133.10	385.72	403.29	79.96	0.07229	0.07465	728.7	724.6	PASS	23808.5
384.47	132.15	135.00	386.33	404.06	86.72	0.07229	0.07467	785.1	780.9	PASS	24475.0
383.14	136.25	134.43	385.26	402.62	85.01	0.07229	0.07466	793.5	789.2	PASS	24362.9
382.83	135.12	130.58	383.82	402.83	88.78	0.07229	0.07467	782.4	778.2	PASS	23863.0
383.19	133.48	134.38	385.10	404.42	80.34	0.07228	0.07466	778.1	773.7	PASS	23426.7
381.75	133.79	134.33	385.36	406.52	89.33	0.07228	0.07464	775.5	771.2	PASS	23713.5
385.70	132.92	133.15	383.82	403.80	90.76	0.07229	0.07465	788.5	784.0	PASS	23918.4
383.70	133.58	135.51	385.36	402.83	87.10	0.07229	0.07467	773.6	769.5	PASS	23527.2
384.32	135.43	135.15	383.51	402.52	83.03	0.07227	0.07465	775.6	771.3	PASS	24424.9
386.01	134.10	134.07	384.28	399.08	80.80	0.07228	0.07465	814.4	809.9	PASS	23706.1
385.14	133.64	133.82	385.62	402.67	82.33	0.07229	0.07466	754.6	750.4	PASS	23377.8
381.29	133.84	133.82	386.13	402.21	78.95	0.07228	0.07466	791.0	786.7	PASS	24348.2
384.88	134.30	135.35	384.28	402.57	82.37	0.07230	0.07466	778.3	774.2	PASS	23459.4
382.26	132.35	137.00	384.33	403.03	84.25	0.07228	0.07465	785.2	780.8	PASS	23359.4
382.26	137.18	134.12	382.64	401.03	85.15	0.07228	0.07468	770.6	766.7	PASS	24001.3
383.24	137.02	134.89	383.87	401.70	93.65	0.07229	0.07466	755.6	751.4	PASS	23786.1
380.62	133.02	134.48	383.20	402.36	85.67	0.07228	0.07466	767.1	763.0	PASS	24411.8
383.34	134.40	133.05	384.33	405.03	81.35	0.07228	0.07466	770.3	766.0	PASS	24461.2
382.06	134.15	134.33	383.31	402.06	82.19	0.07228	0.07465	783.4	778.9	PASS	24637.3
382.26	134.71	136.18	383.26	400.67	81.77	0.07228	0.07464	782.7	778.2	PASS	23969.0
378.83	132.61	132.99	383.72	398.67	82.71	0.07228	0.07466	801.5	797.2	PASS	23650.3
381.39	134.05	134.38	387.77	401.65	85.36	0.07228	0.07464	831.0	826.3	PASS	24339.2
382.06	131.27	134.69	383.15	401.54	80.62	0.07229	0.07466	788.3	783.9	PASS	22608.6
383.03	135.64	135.41	384.44	400.62	93.51	0.07228	0.07466	783.0	778.7	PASS	23365.4
382.73	134.56	133.46	382.49	400.26	86.55	0.07227	0.07465	773.1	768.9	PASS	23213.3
380.37	133.02	135.25	383.41	400.93	88.36	0.07229	0.07467	784.3	780.1	PASS	24453.4
381.65	135.89	134.43	383.10	399.80	97.83	0.07229	0.07467	790.0	785.8	PASS	23979.4
384.47	133.99	137.97	382.59	400.21	88.91	0.07228	0.07467	788.2	783.9	PASS	23646.4
383.34	133.02	134.23	384.28	401.54	87.63	0.07229	0.07464	780.4	776.0	PASS	24080.6
381.49	134.76	134.17	382.33	400.52	91.32	0.07227	0.07465	787.7	783.4	PASS	24437.3
381.39	132.97	131.25	382.08	400.16	90.10	0.07229	0.07466	813.5	808.9	PASS	24003.4
380.88	133.48	135.25	382.79	401.29	77.87	0.07228	0.07463	774.9	770.4	PASS	23455.4
381.39	136.46	135.61	381.97	401.08	88.11	0.07229	0.07467	770.5	766.4	PASS	24592.2
380.21	135.94	136.02	382.28	400.62	86.23	0.07229	0.07466	801.0	796.6	PASS	23941.9
378.21	134.15	135.51	383.10	402.21	87.10	0.07229	0.07466	796.4	791.9	PASS	23901.7

382.16	134.51	136.84	383.92	402.31	97.76	0.07228	0.07465	755.5	751.3	PASS	23450.2
382.62	131.79	134.17	384.39	401.03	85.47	0.07228	0.07466	777.6	773.4	PASS	23774.5
381.55	135.48	136.74	384.95	400.72	89.26	0.07227	0.07465	770.6	766.4	PASS	24317.0
383.39	133.58	134.23	384.44	402.36	85.99	0.07227	0.07466	778.1	774.0	PASS	24027.0
381.65	133.48	134.28	384.39	404.36	89.96	0.07229	0.07465	767.4	763.1	PASS	23884.7
382.67	131.89	131.61	385.26	402.93	88.08	0.07229	0.07465	779.0	774.6	PASS	23725.1
382.78	133.33	133.56	385.15	403.59	89.33	0.07228	0.07467	785.1	781.0	PASS	24044.6
382.21	134.92	135.05	386.08	403.34	91.77	0.07230	0.07465	804.8	800.3	PASS	23446.8
383.19	133.79	133.71	385.00	402.06	93.72	0.07229	0.07464	780.4	776.0	PASS	23460.4
382.98	133.33	132.38	385.92	403.03	86.30	0.07227	0.07464	774.7	770.5	PASS	23042.1
382.88	131.22	134.23	382.54	401.13	85.54	0.07228	0.07466	761.1	757.0	PASS	24034.6
382.42	135.48	134.12	386.75	403.18	91.81	0.07228	0.07466	753.2	749.1	PASS	24184.7
384.42	133.99	134.69	385.00	402.47	88.04	0.07228	0.07464	780.0	775.5	PASS	23837.1
382.88	132.71	134.89	386.80	404.93	86.96	0.07227	0.07467	763.1	759.1	PASS	24046.0
384.42	131.74	134.89	385.87	403.70	96.34	0.07228	0.07465	809.9	805.4	PASS	24282.0
384.52	133.64	133.51	386.64	404.57	91.67	0.07228	0.07467	774.8	770.7	PASS	24265.5
384.98	133.69	134.74	385.41	403.29	87.24	0.07228	0.07466	769.7	765.6	PASS	24364.9
383.44	132.87	134.48	386.39	404.42	91.18	0.07229	0.07465	782.3	778.0	PASS	24341.4
387.39	134.05	134.58	387.21	403.85	95.81	0.07229	0.07467	797.5	793.3	PASS	24230.1
382.42	135.02	134.12	386.08	403.90	87.38	0.07230	0.07465	804.5	800.1	PASS	23783.7
385.60	133.99	133.97	384.18	404.47	88.84	0.07228	0.07465	789.7	785.3	PASS	23005.8
383.29	133.99	133.61	387.31	404.01	92.75	0.07228	0.07465	804.2	799.9	PASS	22768.6
389.65	134.66	131.92	386.33	403.44	97.87	0.07230	0.07463	771.8	767.4	PASS	23370.9
385.29	133.64	134.94	384.90	404.52	91.81	0.07228	0.07466	798.4	794.2	PASS	24103.9
386.52	134.82	133.35	387.00	406.21	95.71	0.07229	0.07468	780.7	776.7	PASS	24131.2
384.88	136.71	134.69	386.33	405.54	100.45	0.07229	0.07466	776.5	772.4	PASS	23892.7
385.80	138.92	134.64	386.90	401.39	93.90	0.07229	0.07465	758.5	754.4	PASS	24118.4
382.42	133.48	133.05	387.10	404.93	95.64	0.07229	0.07467	774.3	770.2	PASS	23997.8
385.65	134.35	135.66	386.90	404.26	96.51	0.07227	0.07464	819.9	815.5	PASS	24071.4
385.45	134.25	134.89	386.85	405.39	94.94	0.07229	0.07464	801.0	796.5	PASS	23570.6
383.44	132.10	133.76	386.49	403.70	102.33	0.07229	0.07466	747.3	743.3	PASS	23900.5
384.37	134.97	134.89	387.41	404.57	94.98	0.07228	0.07466	790.7	786.4	PASS	24133.8
386.37	135.28	132.69	386.49	406.62	98.67	0.07229	0.07467	789.1	784.8	PASS	23577.2
384.27	134.76	135.46	387.00	405.85	93.55	0.07228	0.07467	788.1	783.8	PASS	23496.6
385.55	133.28	133.71	384.85	404.93	92.50	0.07230	0.07464	775.3	771.0	PASS	23558.9
383.24	133.53	134.43	387.36	405.80	94.66	0.07230	0.07466	797.9	793.7	PASS	23892.1
384.98	133.12	136.02	387.05	405.95	86.89	0.07228	0.07467	755.9	752.0	PASS	23117.7
384.98	134.82	134.84	387.87	403.70	95.26	0.07229	0.07466	762.5	758.4	PASS	24213.0
383.60	132.81	133.76	388.23	404.72	95.57	0.07229	0.07468	754.0	750.2	PASS	24353.0
382.73	135.69	132.94	385.51	402.83	91.74	0.07228	0.07466	762.2	758.1	PASS	23970.7
383.80	133.74	134.43	384.59	404.31	101.14	0.07229	0.07467	780.9	776.9	PASS	24471.4
384.06	131.22	133.71	384.18	404.52	94.00	0.07230	0.07464	772.1	767.8	PASS	24546.7
384.98	134.46	136.07	385.87	403.13	102.57	0.07229	0.07463	797.2	792.7	PASS	25181.9
381.03	134.40	132.99	387.10	403.90	96.13	0.07229	0.07466	774.1	770.0	PASS	24211.0
383.65	132.92	133.92	385.21	403.85	96.68	0.07230	0.07465	804.5	800.2	PASS	23493.2
382.98	133.99	134.58	383.72	403.59	98.04	0.07231	0.07465	788.1	783.6	PASS	23596.9
383.09	135.69	134.84	384.49	400.21	92.05	0.07229	0.07464	787.0	782.8	PASS	23261.8
386.63	133.99	134.07	384.64	402.83	105.32	0.07232	0.07466	792.7	788.5	PASS	23765.5
382.52	132.46	135.66	387.05	404.21	99.71	0.07229	0.07466	772.9	768.8	PASS	23532.1
383.44	134.35	133.30	384.44	400.57	97.38	0.07230	0.07467	744.8	741.0	PASS	23578.9
384.57	135.28	136.69	385.00	405.75	103.30	0.07229	0.07466	783.2	779.0	PASS	24495.1
380.52	132.81	134.02	382.74	401.95	100.79	0.07230	0.07466	782.6	778.4	PASS	23876.2
384.42	132.87	134.84	384.69	403.39	108.35	0.07232	0.07466	791.5	787.2	PASS	24263.6
381.80	130.61	133.87	384.54	402.36	110.31	0.07230	0.07466	790.8	786.4	PASS	23592.4
382.11	133.28	133.56	384.64	401.65	98.95	0.07229	0.07466	778.5	774.4	PASS	23637.9
380.06	135.43	134.43	387.10	403.13	101.80	0.07229	0.07467	815.0	810.7	PASS	23582.5
380.88	138.20	133.56	384.28	401.95	97.28	0.07230	0.07467	767.4	763.4	PASS	24046.3
383.34	135.12	133.40	384.59	402.11	94.87	0.07230	0.07467	789.7	785.4	PASS	23302.6
382.78	131.84	132.17	383.51	401.65	102.71	0.07230	0.07467	773.4	769.3	PASS	23664.1

383.80	134.46	134.64	383.92	401.18	100.86	0.07229	0.07465	786.9	782.7	PASS	24510.2
382.37	137.84	134.28	383.62	400.41	104.94	0.07229	0.07466	779.0	774.7	PASS	24100.7
381.03	135.07	132.38	383.56	400.67	104.21	0.07229	0.07467	764.3	760.2	PASS	23554.4
383.24	134.30	134.48	383.26	401.80	106.06	0.07230	0.07468	761.5	757.5	PASS	23491.9
383.03	131.48	133.82	383.92	400.52	107.52	0.07231	0.07466	771.8	767.7	PASS	24378.1
381.90	133.69	136.12	385.67	402.21	101.46	0.07229	0.07466	804.7	800.3	PASS	24687.3
381.65	130.61	134.94	384.08	403.49	101.18	0.07232	0.07465	790.7	786.3	PASS	23258.3
381.75	134.61	133.05	383.82	400.82	102.26	0.07230	0.07468	783.3	779.2	PASS	22873.1
381.70	135.43	134.84	381.46	401.59	104.73	0.07230	0.07467	787.3	783.2	PASS	23714.5
381.75	134.40	133.92	383.62	401.70	104.91	0.07231	0.07467	770.1	766.0	PASS	23602.1
382.11	133.28	133.56	385.67	401.70	108.15	0.07228	0.07467	790.6	786.5	PASS	24476.8
382.93	134.87	132.53	383.51	401.39	94.56	0.07229	0.07468	764.1	760.1	PASS	23161.4
383.96	134.40	133.97	383.67	404.11	107.24	0.07230	0.07467	771.2	767.2	PASS	23736.7
382.47	134.61	132.89	381.97	401.34	106.89	0.07227	0.07468	775.5	771.6	PASS	24558.7
383.85	135.38	132.79	382.33	404.31	106.79	0.07228	0.07466	801.0	796.6	PASS	24459.0
380.83	134.66	134.33	384.54	400.88	103.02	0.07230	0.07466	807.7	803.4	PASS	24082.1
382.67	133.43	134.33	383.26	400.93	107.59	0.07229	0.07466	771.3	767.0	PASS	23762.6
379.96	133.94	134.58	383.97	403.44	100.59	0.07229	0.07465	770.0	765.7	PASS	23819.5
381.08	133.94	134.69	383.82	402.93	102.95	0.07230	0.07465	766.7	762.5	PASS	23999.8
384.01	136.41	134.33	384.44	400.57	104.07	0.07229	0.07466	798.8	794.5	PASS	23605.9
382.47	133.58	132.38	382.90	401.13	103.69	0.07230	0.07468	774.9	770.9	PASS	23842.0
383.09	134.51	132.99	382.79	402.77	106.16	0.07229	0.07465	779.1	774.8	PASS	23140.1
382.47	134.30	134.89	384.49	401.18	109.50	0.07229	0.07466	791.5	787.2	PASS	23628.8
384.01	134.30	132.84	385.21	403.24	107.90	0.07231	0.07465	770.9	766.7	PASS	23394.1
382.06	134.51	136.07	381.36	400.36	110.17	0.07230	0.07467	759.2	755.1	PASS	24480.1
381.08	134.25	135.20	384.44	402.57	110.86	0.07228	0.07467	790.4	786.1	PASS	23935.1
381.70	136.15	134.17	383.92	398.93	119.68	0.07229	0.07467	759.1	755.0	PASS	24036.2
382.47	133.33	137.41	384.64	402.00	111.21	0.07229	0.07466	777.8	773.5	PASS	24731.9
380.98	133.94	134.84	383.92	402.41	106.19	0.07230	0.07464	773.9	769.6	PASS	24102.8
382.37	132.61	131.97	384.44	403.80	109.78	0.07229	0.07467	777.0	772.9	PASS	23939.8
380.88	134.05	133.76	384.49	402.52	113.75	0.07229	0.07465	779.3	775.0	PASS	23622.6
382.16	133.28	135.66	385.46	402.21	108.74	0.07230	0.07467	782.1	778.1	PASS	24237.3
383.75	133.38	134.07	382.64	401.13	112.43	0.07229	0.07467	773.1	768.9	PASS	23939.4
383.03	132.61	134.33	383.51	402.16	111.49	0.07226	0.07464	805.6	801.0	PASS	24010.2
384.57	133.89	132.64	383.10	403.95	111.00	0.07229	0.07465	822.0	817.4	PASS	23236.0
383.03	134.66	134.07	385.36	402.88	114.56	0.07229	0.07465	794.9	790.5	PASS	23998.9
382.67	134.40	134.74	383.67	401.54	105.67	0.07229	0.07464	783.4	779.0	PASS	23435.0
383.60	134.82	134.94	384.85	402.26	106.06	0.07229	0.07466	766.7	762.5	PASS	23497.4
383.24	133.53	133.56	385.82	402.88	114.03	0.07228	0.07467	756.6	752.6	PASS	24136.5
386.98	133.22	134.58	384.80	401.70	109.64	0.07228	0.07467	763.3	759.3	PASS	24529.6
384.32	135.12	133.10	382.85	402.57	113.37	0.07229	0.07465	792.1	787.7	PASS	24664.8
384.57	135.58	134.02	384.74	404.06	114.24	0.07227	0.07464	781.4	777.2	PASS	24288.0
383.03	132.92	134.58	384.95	404.26	113.51	0.07228	0.07463	780.3	775.9	PASS	23978.4
384.06	132.81	133.87	383.36	403.39	115.81	0.07229	0.07467	787.4	783.3	PASS	23945.3
384.83	134.10	134.28	384.74	401.13	109.96	0.07230	0.07463	800.5	795.9	PASS	23689.7
382.98	131.74	134.89	385.67	403.90	107.45	0.07230	0.07465	790.1	785.7	PASS	23302.4
385.70	130.92	134.48	385.92	403.95	112.85	0.07230	0.07466	792.7	788.4	PASS	23852.5
384.16	135.74	132.33	385.05	404.01	111.46	0.07229	0.07466	787.7	783.5	PASS	23934.6
383.91	134.40	132.58	384.54	402.72	112.64	0.07228	0.07466	775.5	771.3	PASS	23360.9
385.19	133.89	134.64	386.18	400.67	108.18	0.07229	0.07465	772.9	768.6	PASS	23601.4
386.16	135.07	134.94	385.36	404.11	114.14	0.07227	0.07465	773.8	769.5	PASS	24631.1
385.14	132.40	133.97	385.46	403.49	124.10	0.07228	0.07463	766.7	762.3	PASS	24689.3
385.19	134.35	135.82	385.77	403.95	110.13	0.07228	0.07467	787.9	783.7	PASS	24105.2
385.34	135.58	135.00	385.82	401.08	107.90	0.07228	0.07465	785.0	780.9	PASS	23954.1
386.32	134.51	134.33	385.15	397.44	113.51	0.07228	0.07464	779.5	775.1	PASS	24126.4
384.83	134.40	132.02	385.57	404.26	119.92	0.07228	0.07466	774.8	770.8	PASS	23716.4
381.55	135.38	134.43	385.72	403.29	115.32	0.07229	0.07464	797.2	792.9	PASS	23989.2
383.75	134.46	134.48	385.72	401.70	117.34	0.07227	0.07466	797.9	793.8	PASS	22973.9
383.80	135.69	134.38	385.26	403.54	117.55	0.07227	0.07465	786.5	782.2	PASS	23313.6

384.98	134.10	134.07	385.00	402.77	121.17	0.07227	0.07465	777.4	773.3	PASS	23717.8
384.01	134.30	137.05	383.92	404.21	114.56	0.07228	0.07465	780.0	775.9	PASS	24102.7
384.11	134.61	134.89	387.93	404.83	121.35	0.07227	0.07466	769.2	765.3	PASS	23347.7
383.50	133.12	134.79	387.21	404.72	123.51	0.07229	0.07465	776.6	772.4	PASS	24276.1
382.98	133.12	131.87	383.46	403.54	117.87	0.07228	0.07466	790.5	786.3	PASS	24106.2
384.62	130.71	134.38	385.72	402.52	117.83	0.07228	0.07464	776.0	771.8	PASS	24161.6
383.03	132.46	133.40	386.75	407.49	116.26	0.07228	0.07468	767.3	763.4	PASS	23412.4
385.03	136.97	133.87	386.95	404.36	119.64	0.07229	0.07465	782.6	778.3	PASS	23556.4
386.11	136.71	136.07	386.44	401.03	116.23	0.07228	0.07464	774.6	770.2	PASS	22966.7
384.21	132.51	134.02	386.75	403.70	116.02	0.07227	0.07466	776.3	772.1	PASS	23840.9
381.75	133.64	134.23	387.36	404.98	118.60	0.07228	0.07464	791.8	787.4	PASS	23714.9
383.91	132.92	133.15	386.54	403.90	131.97	0.07228	0.07466	772.3	768.2	PASS	23415.9
381.70	135.07	134.23	387.93	402.41	120.13	0.07228	0.07466	747.2	743.3	PASS	23873.0

Table F-3. Continued

Sensible Cooling Capacity Btu/hr	Latent Cooling Capacity Btu/hr	Degree of Sub- cooling F	Degree of Refrig Super- heat F	Refrigerant Cooling Capacity Btu/hr	Time hhmmss
16595.2	6995.0	10.1	7.3	23488.8	104110
16885.7	7202.4	10.2	6.4	23415.3	104120
17238.7	7072.9	10.0	8.3	23613.3	104130
17354.1	7140.2	10.1	7.3	23507.6	104140
16644.6	7060.5	10.1	8.2	23612.9	104150
16832.5	7131.8	10.2	8.7	23661.6	104200
17305.2	7343.5	10.1	8.4	23552.9	104210
16939.2	6957.5	9.9	8.2	23565.8	104220
16139.4	6695.6	10.1	7.8	23602.2	104230
16726.7	7078.3	9.8	8.3	23582.4	104240
17199.8	7258.5	9.9	9.0	23673.2	104250
16872.5	7058.2	10.0	9.6	23722.9	104300
16838.2	7182.8	9.9	8.7	23602.5	104310
16749.4	7167.3	10.1	9.9	23730.6	104320
16659.3	7146.5	10.1	9.0	23722.5	104330
16616.5	7192.0	10.0	6.4	23401.6	104340
17184.8	7290.2	10.2	8.7	23646.2	104350
17166.6	7196.3	10.1	6.7	23395.3	104400
16799.9	7063.1	10.2	8.2	23629.3	104410
16426.0	7000.7	9.9	9.1	23685.7	104420
16711.9	7001.6	10.0	8.3	23664.2	104430
16769.0	7149.4	9.9	8.9	23634.9	104440
16547.4	6979.9	10.0	7.3	23491.8	104450
17212.5	7212.4	10.1	9.0	23706.1	104500
16620.4	7085.7	9.9	9.0	23682.0	104510
16432.4	6945.4	9.8	9.1	23663.4	104520
17245.1	7103.2	10.0	9.0	23626.0	104530
16547.0	6912.5	9.9	8.8	23680.0	104540
16503.7	6855.7	10.1	9.6	23728.5	104550
16925.0	7076.4	10.1	8.6	23601.1	104600
16775.5	7010.7	10.1	9.1	23585.7	104610
17257.5	7154.3	10.0	9.2	23677.5	104620
17334.3	7126.9	10.2	7.9	23628.0	104630
17490.7	7146.6	9.9	7.8	23498.7	104640
17008.5	6960.5	10.2	9.4	23644.0	104650
16650.9	6999.5	10.0	9.2	23688.0	104700
17178.1	7161.0	10.1	9.0	23612.6	104710
15855.9	6752.7	9.9	8.8	23602.0	104720
16435.9	6929.5	10.1	10.0	23720.3	104730
16317.0	6896.3	10.0	9.5	23708.9	104740
17222.8	7230.7	10.0	10.1	23697.8	104750
16867.9	7111.5	10.0	9.0	23627.8	104800
16666.9	6979.4	10.1	10.0	23794.0	104810
16840.9	7239.7	10.0	10.4	23795.3	104820
17259.2	7178.1	10.0	9.9	24001.4	104830
16872.7	7130.7	10.0	8.0	23775.3	104840
16450.3	7005.1	9.9	3.9	23402.7	104850
17210.6	7381.7	10.0	3.8	23405.7	104900
16890.3	7051.6	9.9	3.7	23362.3	104910
16829.3	7072.4	9.9	2.9	23194.8	104920

16621.6	6828.7	10.0	3.2	23028.1	104930
16757.9	7016.6	10.0	5.7	23269.4	104940
17197.9	7119.2	10.1	7.2	23445.9	104950
16947.4	7079.6	9.7	9.7	23657.6	105000
16866.8	7017.9	10.0	10.7	23761.3	105010
16564.2	7160.9	10.1	10.6	23707.0	105020
16868.2	7176.4	10.1	11.3	23835.7	105030
16376.7	7070.2	10.4	11.4	23910.3	105040
16459.6	7000.8	10.2	11.3	23924.6	105050
16165.1	6877.0	10.3	11.2	23878.2	105100
16826.6	7208.0	10.1	10.6	23814.9	105110
16941.9	7242.8	10.2	9.3	23729.0	105120
16689.5	7147.6	10.2	9.1	23733.9	105130
16913.2	7132.8	10.3	9.5	23776.7	105140
17029.0	7253.1	10.1	8.7	23689.1	105150
16979.3	7286.1	10.4	8.6	23668.3	105200
17077.3	7287.7	10.2	8.0	23557.1	105210
17091.3	7250.1	10.2	8.0	23494.3	105220
16946.0	7284.1	10.3	8.4	23596.3	105230
16622.5	7161.2	10.2	8.2	23540.5	105240
16140.6	6865.2	10.3	7.9	23522.7	105250
16038.1	6730.5	10.3	7.8	23517.7	105300
16335.2	7035.7	10.1	6.8	23452.6	105310
17002.5	7101.4	10.2	8.4	23603.2	105320
16987.5	7143.6	10.3	7.3	23519.6	105330
16881.1	7011.6	10.1	8.5	23559.5	105340
16996.9	7121.5	10.0	8.2	23581.7	105350
16908.2	7089.6	10.1	7.7	23606.0	105400
16885.3	7186.1	10.2	7.2	23482.4	105410
16600.5	6970.2	9.9	7.7	23464.2	105420
16848.8	7051.6	10.4	7.2	23504.9	105430
17012.5	7121.3	10.2	7.3	23447.6	105440
16597.8	6979.4	10.0	7.9	23559.3	105450
16499.2	6997.4	9.9	7.7	23441.1	105500
16652.9	6906.1	10.0	8.2	23513.8	105510
16744.4	7147.7	10.2	8.4	23564.1	105520
16193.3	6924.3	10.1	9.0	23623.4	105530
16963.0	7250.0	9.9	9.8	23705.8	105540
16989.1	7363.9	10.1	9.4	23662.0	105550
16887.2	7083.5	10.0	9.7	23688.6	105600
17163.9	7307.5	10.1	10.2	23765.5	105610
17122.1	7424.6	9.8	9.5	23545.1	105620
17658.9	7523.0	9.9	10.2	23698.6	105630
16901.0	7310.0	9.9	10.0	23660.2	105640
16462.5	7030.7	10.0	10.2	23754.4	105650
16457.9	7138.9	9.8	7.9	23469.7	105700
16210.4	7051.4	10.2	10.0	23668.7	105710
16511.3	7254.2	10.1	10.5	23844.4	105720
16532.0	7000.2	9.9	9.5	23715.3	105730
16474.8	7104.1	10.1	9.3	23691.8	105740
17139.9	7355.1	10.0	9.7	23746.8	105750
16665.4	7210.8	10.1	8.8	23667.6	105800
16921.4	7342.2	9.9	8.6	23578.5	105810
16567.7	7024.7	9.8	8.0	23543.9	105820
16601.9	7036.0	10.0	9.0	23637.6	105830
16521.4	7061.2	9.8	8.9	23615.0	105840
16707.0	7339.3	9.9	10.0	23762.4	105850
16255.2	7047.4	10.0	9.1	23652.3	105900
16608.2	7055.9	10.1	9.2	23694.0	105910

17129.2	7381.1	9.8	8.8	23608.9	105920
16961.9	7138.8	10.1	8.6	23671.1	105930
16596.3	6958.1	9.9	8.8	23656.4	105940
16531.9	6960.0	9.9	8.1	23614.5	105950
17055.7	7322.4	10.0	7.9	23546.2	110000
17313.6	7373.6	10.2	5.6	23389.2	110010
16428.0	6830.3	10.0	8.5	23594.5	110020
16081.1	6792.0	10.3	8.9	23681.9	110030
16705.4	7009.1	9.9	8.7	23639.5	110040
16527.0	7075.1	10.0	8.8	23697.3	110050
17220.3	7256.4	10.1	9.3	23633.2	110100
16307.3	6854.1	10.0	7.1	23491.3	110110
16592.9	7143.8	10.0	9.8	23730.7	110120
17098.2	7460.5	10.1	9.2	23696.4	110130
17156.2	7302.7	10.0	10.0	23787.4	110140
16991.9	7090.2	9.9	10.6	23906.8	110150
16644.6	7118.0	10.1	10.2	23766.3	110200
16605.4	7214.2	10.1	10.7	23907.4	110210
16706.6	7293.3	10.0	9.9	23752.8	110220
16489.3	7116.6	10.0	10.4	23857.2	110230
16593.2	7248.9	10.1	7.7	23612.7	110240
16128.7	7011.4	10.1	9.9	23824.2	110250
16692.8	6936.0	10.0	9.6	23717.0	110300
16314.7	7079.4	10.0	8.0	23635.9	110310
17238.4	7241.8	10.1	9.4	23740.7	110320
16705.7	7229.4	10.0	9.8	23777.7	110330
16967.6	7068.7	10.1	9.7	23754.4	110340
17279.2	7452.6	10.2	8.4	23636.2	110350
16863.2	7239.5	10.2	8.5	23641.5	110400
16761.3	7178.6	10.2	9.1	23713.9	110410
16614.6	7008.0	10.1	9.2	23698.9	110420
16956.2	7281.1	10.0	7.5	23558.4	110430
16855.3	7084.1	10.0	7.3	23541.2	110440
16882.4	7127.8	10.1	7.7	23554.1	110450
16366.0	6870.1	10.0	9.3	23706.1	110500
16804.4	7194.6	10.1	8.4	23675.2	110510
16502.7	6932.2	10.2	8.7	23676.8	110520
16507.1	6990.3	10.2	9.0	23669.1	110530
17102.2	7034.3	10.1	8.8	23660.4	110540
17181.9	7347.6	10.2	7.5	23593.4	110550
17347.4	7317.4	10.2	8.3	23613.0	110600
17047.3	7240.7	9.9	7.7	23512.3	110610
16810.3	7168.1	9.9	6.8	23503.3	110620
16762.6	7182.7	9.9	8.9	23642.0	110630
16576.9	7112.9	10.1	8.5	23604.9	110640
16309.2	6993.2	10.1	8.8	23661.0	110650
16721.8	7130.7	10.0	8.8	23691.8	110700
16824.3	7110.2	10.0	8.4	23622.8	110710
16282.5	7078.3	10.0	8.9	23643.9	110720
16515.3	7086.1	10.2	7.9	23671.4	110730
17141.8	7489.3	10.0	8.9	23627.3	110740
17204.3	7484.9	10.1	9.0	23703.5	110750
16837.4	7267.8	10.1	8.4	23673.9	110800
16878.9	7075.3	10.1	8.4	23615.1	110810
16825.8	7300.6	9.8	7.0	23485.3	110820
16565.1	7151.3	10.0	7.5	23489.5	110830
16773.4	7215.7	10.0	8.6	23638.6	110840
16195.7	6778.2	10.2	8.6	23668.0	110850
16400.9	6912.7	10.1	9.1	23697.9	110900

16648.6	7069.2	10.1	6.5	23479.5	110910
16896.0	7206.7	10.0	8.2	23551.9	110920
16391.8	6955.9	10.0	7.2	23571.8	110930
17044.1	7231.9	10.1	6.8	23475.3	110940
16912.3	7193.9	10.1	8.1	23552.4	110950
16894.5	7267.2	10.2	8.2	23601.0	111000
16410.8	7001.7	9.9	7.8	23531.9	111010
16512.6	7043.8	10.2	8.1	23575.1	111020
16252.9	6713.9	9.9	8.5	23602.2	111030
16710.0	7130.9	10.0	8.4	23545.7	111040
16687.6	7027.3	10.1	7.0	23514.2	111050
16409.0	7006.9	10.0	8.2	23570.9	111100
16815.4	7057.7	10.1	6.2	23444.0	111110

Table F-4

Data from the third A test

Barometric Pres mBar	Evap Static Pres in/H2O	Supply Tank Temp C	Refrig Temp Before MFM C	Refrig Temp After MFM C	Evap Exit Drybulb C	Refrig Temp Comp In C	Refrig Temp Cond Out C	Refrig Temp Comp Out In C	Refrig Temp Evap In C	Refrig Temp Evap Out C	Indoor Temp C	Evap Nozzle Temp C
1001.3	0.106	20.50	40.28	40.20	15.91	15.81	40.52	77.17	39.47	14.63	26.62	17.14
1001.2	0.119	20.53	40.30	40.25	15.90	15.65	40.60	77.16	39.48	14.06	26.65	17.16
1001.6	0.122	20.44	40.35	40.22	15.95	15.63	40.65	77.13	39.49	14.17	26.62	17.15
1001.4	0.131	20.54	40.29	40.25	15.90	15.53	40.66	77.13	39.47	14.31	26.69	17.16
1001.2	0.124	20.44	40.37	40.31	15.89	15.48	40.66	77.08	39.52	14.23	26.63	17.11
1001.3	0.143	20.50	40.37	40.26	15.91	15.43	40.66	77.06	39.42	14.01	26.64	17.16
1001.2	0.123	20.59	40.41	40.30	15.90	15.33	40.64	77.05	39.55	14.21	26.63	17.14
1001.4	0.091	20.58	40.36	40.31	15.88	15.33	40.64	77.05	39.54	13.93	26.61	17.18
1001.4	0.086	20.53	40.37	40.30	15.90	15.30	40.64	77.00	39.54	14.04	26.69	17.11
1001.3	0.131	20.64	40.34	40.33	15.91	15.29	40.62	77.00	39.53	14.10	26.67	17.15
1001.3	0.104	20.64	40.36	40.24	15.92	15.33	40.63	76.99	39.60	13.70	26.73	17.11
1001.2	0.122	20.55	40.32	40.23	15.92	15.31	40.60	76.97	39.55	14.19	26.62	17.11
1001.6	0.126	20.63	40.34	40.21	15.92	15.33	40.61	76.93	39.53	14.33	26.64	17.10
1001.4	0.147	20.63	40.30	40.25	15.84	15.36	40.62	76.98	39.53	14.28	26.68	17.21
1001.2	0.108	20.65	40.31	40.26	15.89	15.35	40.63	77.03	39.51	14.46	26.71	17.15
1001.3	0.114	20.71	40.29	40.24	15.92	15.43	40.56	77.03	39.54	14.49	26.62	17.13
1001.4	0.124	20.68	40.36	40.25	15.91	15.40	40.63	77.03	39.52	14.01	26.64	17.10
1001.5	0.098	20.74	40.39	40.21	15.91	15.46	40.62	77.01	39.50	14.72	26.64	17.09
1001.4	0.116	20.80	40.31	40.29	15.93	15.46	40.62	77.03	39.50	14.63	26.62	17.15
1001.3	0.148	20.69	40.33	40.34	15.89	15.48	40.65	77.05	39.53	14.52	26.67	17.11
1001.3	0.115	20.66	40.35	40.31	15.89	15.47	40.65	76.98	39.52	14.59	26.67	17.11
1000.9	0.150	20.65	40.42	40.27	15.90	15.54	40.61	77.00	39.52	14.56	26.63	17.07
1001.2	0.124	20.85	40.33	40.30	15.90	15.53	40.62	77.03	39.60	14.71	26.64	17.13
1001.4	0.135	20.66	40.37	40.23	15.85	15.55	40.62	77.06	39.54	14.46	26.73	17.14
1001.3	0.105	20.84	40.34	40.28	15.88	15.52	40.67	77.04	39.57	14.49	26.63	17.10
1001.2	0.152	20.90	40.38	40.33	15.88	15.53	40.60	77.03	39.56	14.45	26.61	17.06
1001.3	0.117	20.86	40.37	40.29	15.91	15.56	40.61	77.00	39.57	14.52	26.69	17.11
1001.2	0.124	20.82	40.29	40.26	15.85	15.52	40.61	77.07	39.55	14.53	26.64	17.10
1001.3	0.087	20.95	40.30	40.26	15.88	15.50	40.63	77.06	39.57	14.47	26.64	17.11
1001.2	0.117	20.90	40.35	40.27	15.83	15.54	40.59	77.03	39.54	14.83	26.69	17.09
1001.3	0.154	20.91	40.32	40.32	15.91	15.52	40.62	77.03	39.48	14.69	26.69	17.13
1001.3	0.137	20.94	40.37	40.25	15.90	15.58	40.65	77.10	39.58	14.59	26.59	17.06
1001.4	0.119	20.87	40.37	40.30	15.87	15.60	40.68	77.03	39.51	14.71	26.60	17.08
1002.4	0.133	20.96	40.39	40.32	15.89	15.62	40.71	76.99	39.51	14.80	26.61	17.11
1001.4	0.107	20.90	40.37	40.34	15.89	15.58	40.63	77.05	39.52	14.63	26.59	17.13
1001.4	0.131	21.04	40.37	40.30	15.92	15.60	40.65	77.05	39.55	14.88	26.63	17.01
1001.2	0.115	20.98	40.34	40.29	15.93	15.57	40.61	77.06	39.59	14.48	26.63	17.09
1001.3	0.104	21.05	40.33	40.34	15.88	15.56	40.59	77.07	39.56	14.54	26.63	16.96
1001.3	0.111	21.09	40.32	40.26	15.96	15.54	40.62	77.09	39.54	14.65	26.65	17.10
1001.3	0.104	21.08	40.32	40.25	15.87	15.58	40.59	77.09	39.55	14.55	26.70	17.13
1001.2	0.082	21.12	40.33	40.27	15.92	15.58	40.63	77.07	39.55	14.51	26.65	17.15
1001.3	0.127	21.06	40.31	40.31	15.90	15.52	40.63	77.08	39.54	14.64	26.60	17.06
1001.3	0.135	21.10	40.30	40.28	15.92	15.54	40.62	77.07	39.54	14.42	26.60	17.12
1001.3	0.145	21.14	40.29	40.28	15.87	15.43	40.65	77.08	39.51	14.20	26.67	17.16
1001.2	0.103	21.11	40.38	40.31	15.88	15.56	40.62	77.09	39.53	14.72	26.64	17.11
1001.3	0.153	21.09	40.37	40.25	15.90	15.52	40.63	77.13	39.54	14.65	26.67	17.01
1001.3	0.152	21.17	40.34	40.30	15.88	15.52	40.61	77.13	39.53	14.40	26.59	17.11
1001.3	0.110	21.20	40.40	40.32	15.91	15.52	40.68	77.09	39.53	14.21	26.58	17.11
1000.8	0.115	21.15	40.45	40.34	15.89	15.45	40.68	77.11	39.52	14.18	26.53	17.20
1001.3	0.148	21.13	40.42	40.30	15.89	15.40	40.64	77.12	39.55	13.86	26.59	17.05

1001.3	0.122	21.21	40.37	40.28	15.91	15.35	40.67	77.06	39.58	14.27	26.61	17.10
1001.3	0.124	21.22	40.38	40.28	15.89	15.36	40.65	77.08	39.56	14.25	26.59	17.11
1001.4	0.125	21.11	40.38	40.32	15.89	15.32	40.66	77.09	39.54	13.59	26.62	17.10
1001.3	0.133	21.20	40.39	40.35	15.88	15.34	40.70	77.08	39.55	14.36	26.60	17.10
1002.0	0.119	21.28	40.38	40.31	15.93	15.30	40.69	77.06	39.53	14.20	26.60	17.11
1001.2	0.110	21.31	40.36	40.32	15.85	15.28	40.66	77.11	39.60	14.47	26.66	17.00
1001.4	0.130	21.31	40.51	40.27	15.87	15.28	40.69	77.08	39.57	13.29	26.65	17.13
1001.2	0.118	21.38	40.44	40.35	15.90	15.30	40.72	77.05	39.58	14.07	26.64	17.09
1000.9	0.117	21.24	40.40	40.40	15.89	15.27	40.65	77.04	39.53	14.30	26.67	17.10
1001.3	0.101	21.35	40.37	40.30	15.90	15.27	40.62	77.07	39.55	14.43	26.65	17.18
1001.1	0.096	21.35	40.45	40.33	15.92	15.32	40.65	77.06	39.57	14.34	26.68	17.08
1001.2	0.117	21.40	40.43	40.31	15.94	15.35	40.71	77.07	39.59	14.46	26.61	17.11
1001.1	0.104	21.41	40.40	40.35	15.96	15.38	40.69	77.09	39.55	14.37	26.66	17.15
1001.2	0.133	21.31	40.42	40.35	15.95	15.41	40.69	77.09	39.58	14.58	26.65	17.10
1001.2	0.095	21.42	40.44	40.34	15.91	15.47	40.68	77.10	39.58	14.66	26.59	17.10
1001.3	0.138	21.43	40.39	40.34	15.90	15.52	40.70	77.10	39.52	14.52	26.66	17.13
1001.4	0.114	21.45	40.41	40.30	15.94	15.57	40.67	77.13	39.53	14.58	26.60	17.11
1001.3	0.128	21.46	40.39	40.33	15.93	15.57	40.66	77.16	39.59	14.89	26.63	17.10
1001.2	0.142	21.41	40.37	40.28	15.89	15.61	40.67	77.20	39.60	14.70	26.65	17.17
1001.3	0.104	21.44	40.37	40.32	15.93	15.63	40.64	77.17	39.58	14.61	26.65	17.15
1001.2	0.105	21.52	40.44	40.29	15.94	15.61	40.67	77.16	39.54	14.67	26.66	17.13
1001.0	0.119	21.50	40.34	40.36	15.94	15.66	40.65	77.18	39.59	14.81	26.59	17.12
1001.1	0.080	21.55	40.36	40.32	15.95	15.67	40.70	77.22	39.61	14.76	26.62	17.18
1001.2	0.137	21.43	40.40	40.40	15.98	15.64	40.69	77.26	39.60	14.66	26.63	17.13
1001.2	0.111	21.40	40.44	40.38	15.95	15.66	40.71	77.21	39.60	14.35	26.61	17.14
1001.4	0.120	21.59	40.39	40.36	15.94	15.66	40.70	77.28	39.60	14.28	26.59	17.03
1001.2	0.121	21.60	40.36	40.40	15.91	15.56	40.68	77.26	39.60	14.38	26.61	17.16
1001.4	0.125	21.51	40.48	40.38	15.90	15.55	40.73	77.24	39.59	14.54	26.61	17.14
1001.2	0.152	21.57	40.46	40.37	15.92	15.54	40.70	77.22	39.60	14.60	26.58	17.10
1000.8	0.134	21.47	40.38	40.41	15.89	15.46	40.77	77.24	39.56	14.15	26.61	17.16
1001.2	0.103	21.57	40.44	40.34	15.89	15.49	40.73	77.20	39.59	14.84	26.66	17.15
1000.9	0.118	21.57	40.46	40.38	15.90	15.53	40.77	77.22	39.62	14.43	26.60	17.19
1001.3	0.103	21.60	40.45	40.42	15.89	15.50	40.74	77.27	39.58	14.32	26.60	17.14
1001.2	0.101	21.61	40.49	40.42	15.88	15.43	40.76	77.23	39.57	14.24	26.60	17.15
1001.3	0.136	21.67	40.51	40.48	15.92	15.42	40.78	77.26	39.63	14.07	26.63	17.11
1001.3	0.121	21.64	40.51	40.42	15.87	15.33	40.79	77.27	39.67	14.07	26.62	17.14
1001.3	0.120	21.64	40.48	40.39	15.91	15.34	40.80	77.24	39.65	14.38	26.64	17.12
1001.2	0.099	21.69	40.41	40.44	15.90	15.34	40.75	77.23	39.66	14.50	26.61	17.15
1001.3	0.127	21.80	40.44	40.46	15.88	15.42	40.74	77.22	39.61	14.73	26.63	17.13
1001.3	0.140	21.79	40.50	40.40	15.91	15.43	40.75	77.22	39.67	14.99	26.67	17.17
1001.2	0.114	21.66	40.42	40.40	15.89	15.52	40.72	77.28	39.64	14.71	26.63	17.05
1001.2	0.097	21.70	40.43	40.37	15.84	15.60	40.72	77.24	39.65	14.98	26.65	17.13
1001.1	0.152	21.82	40.48	40.39	15.90	15.62	40.66	77.25	39.51	15.26	26.56	17.11
1001.2	0.102	21.75	40.41	40.41	15.89	15.76	40.68	77.31	39.62	15.13	26.60	17.06
1001.3	0.150	21.83	40.37	40.33	15.89	15.83	40.66	77.31	39.63	15.26	26.58	17.11
1001.1	0.117	21.72	40.35	40.32	15.88	15.87	40.67	77.35	39.62	14.86	26.54	17.16
1001.1	0.105	21.86	40.39	40.31	15.85	15.89	40.68	77.37	39.62	14.98	26.56	17.14
1001.2	0.117	21.81	40.42	40.37	15.88	15.88	40.70	77.37	39.64	14.99	26.59	17.14
1001.2	0.124	21.87	40.43	40.37	15.87	15.89	40.71	77.42	39.62	14.69	26.62	17.14
1001.3	0.138	21.85	40.46	40.37	15.86	15.86	40.72	77.41	39.60	15.02	26.54	17.08
1001.3	0.128	21.94	40.45	40.37	15.91	15.84	40.77	77.44	39.59	15.01	26.68	17.07
1001.4	0.109	21.91	40.48	40.38	15.89	15.83	40.74	77.41	39.56	14.96	26.62	17.12
1001.3	0.133	21.91	40.49	40.42	15.88	15.77	40.74	77.42	39.56	14.98	26.61	17.07
1001.2	0.121	21.93	40.37	40.39	15.91	15.85	40.72	77.42	39.59	14.87	26.63	17.10
1001.0	0.110	21.93	40.34	40.37	15.87	15.81	40.73	77.39	39.63	14.86	26.63	17.23
1001.1	0.129	21.93	40.42	40.33	15.91	15.82	40.74	77.41	39.68	14.76	26.51	17.23
1001.3	0.078	21.97	40.41	40.37	15.89	15.78	40.69	77.42	39.60	14.87	26.67	17.12
1001.3	0.150	22.02	40.47	40.35	15.85	15.78	40.72	77.42	39.61	15.00	26.65	17.09
1000.4	0.143	22.11	40.41	40.33	15.94	15.79	40.67	77.41	39.61	15.28	26.60	17.05

1001.1	0.123	22.07	40.42	40.32	15.87	15.83	40.69	77.44	39.61	14.96	26.63	17.10
1001.2	0.119	21.96	40.44	40.31	15.90	15.81	40.71	77.49	39.52	15.09	26.65	17.07
1001.3	0.114	22.02	40.42	40.30	15.88	15.82	40.65	77.48	39.62	14.97	26.61	17.09
1001.2	0.122	22.04	40.43	40.38	15.87	15.81	40.72	77.46	39.58	14.87	26.60	17.12
1001.1	0.131	22.04	40.46	40.35	15.83	15.82	40.71	77.49	39.52	14.70	26.65	17.12
1001.1	0.113	21.96	40.42	40.42	15.82	15.76	40.75	77.47	39.57	14.32	26.59	17.10
1001.2	0.123	22.12	40.51	40.44	15.83	15.68	40.76	77.47	39.56	14.18	26.61	17.10
1001.2	0.120	22.12	40.42	40.42	15.84	15.63	40.74	77.42	39.61	14.58	26.62	17.09
1001.3	0.098	22.11	40.42	40.37	15.86	15.57	40.72	77.42	39.63	14.44	26.60	17.07
1001.3	0.107	22.19	40.43	40.40	15.86	15.55	40.72	77.41	39.67	14.85	26.64	17.13
1001.0	0.111	22.12	40.43	40.34	15.89	15.58	40.69	77.40	39.61	14.68	26.66	17.12
1001.1	0.123	22.20	40.43	40.36	15.90	15.58	40.71	77.39	39.55	14.59	26.61	17.06
1001.2	0.144	22.20	40.41	40.34	15.91	15.53	40.60	77.35	39.61	14.53	26.65	17.15
1001.1	0.141	22.28	40.33	40.30	15.87	15.63	40.68	77.39	39.66	15.19	26.68	17.09
1001.1	0.121	22.18	40.35	40.37	15.88	15.68	40.64	77.39	39.64	14.88	26.66	17.14
1001.1	0.160	22.16	40.41	40.32	15.88	15.72	40.68	77.41	39.58	15.01	26.69	17.05
1001.1	0.135	22.13	40.42	40.35	15.90	15.79	40.70	77.40	39.55	14.94	26.57	17.09
1001.1	0.138	22.26	40.40	40.32	15.88	15.79	40.64	77.40	39.59	15.25	26.67	17.20
1001.1	0.117	22.22	40.40	40.39	15.91	15.84	40.62	77.37	39.62	15.06	26.68	17.11
1001.2	0.122	22.20	40.37	40.31	15.92	15.86	40.63	77.36	39.55	15.33	26.61	17.06
1001.1	0.133	22.22	40.36	40.29	15.89	15.88	40.68	77.40	39.54	14.87	26.65	17.05
1001.1	0.138	22.25	40.32	40.28	15.90	15.88	40.67	77.40	39.50	15.27	26.68	17.10
1001.2	0.148	22.23	40.37	40.33	15.89	15.88	40.67	77.45	39.50	14.84	26.70	17.07
1001.1	0.113	22.31	40.33	40.31	15.91	15.88	40.62	77.43	39.58	15.15	26.65	17.16
1001.1	0.081	22.24	40.35	40.34	15.88	15.86	40.68	77.48	39.59	15.06	26.62	17.01
1001.0	0.139	22.42	40.32	40.28	15.90	15.86	40.64	77.44	39.56	15.26	26.64	17.11
1001.2	0.128	22.30	40.34	40.29	15.90	15.92	40.64	77.45	39.59	15.29	26.69	17.10
1001.2	0.124	22.36	40.33	40.30	15.89	15.92	40.60	77.42	39.58	15.13	26.66	17.13
1001.1	0.126	22.41	40.38	40.30	15.93	15.92	40.61	77.42	39.52	15.05	26.70	17.18
1001.1	0.128	22.44	40.28	40.27	15.95	15.95	40.62	77.46	39.53	15.20	26.61	17.10
1001.2	0.124	22.47	40.34	40.25	15.90	15.98	40.61	77.50	39.54	15.17	26.72	17.16
1001.2	0.127	22.55	40.34	40.26	15.87	15.96	40.63	77.52	39.54	14.97	26.62	17.12
1001.2	0.142	22.40	40.37	40.31	15.90	15.92	40.62	77.45	39.51	15.13	26.68	17.13
1001.8	0.127	22.40	40.32	40.26	15.92	15.96	40.63	77.44	39.52	15.27	26.60	17.14
1001.2	0.113	22.47	40.34	40.18	15.91	15.95	40.59	77.47	39.46	15.10	26.64	17.16
1001.1	0.131	22.54	40.33	40.31	15.92	15.92	40.63	77.48	39.50	14.85	26.63	17.13
1001.0	0.110	22.51	40.38	40.29	15.91	15.96	40.61	77.49	39.49	14.63	26.69	17.08
1001.3	0.127	22.49	40.38	40.32	15.89	15.89	40.66	77.46	39.55	14.25	26.67	17.11
1001.2	0.095	22.54	40.37	40.30	15.90	15.77	40.67	77.47	39.54	14.17	26.66	17.12
1001.3	0.119	22.58	40.38	40.31	15.90	15.70	40.64	77.47	39.55	14.55	26.66	17.08
1001.2	0.141	22.50	40.31	40.25	15.89	15.65	40.64	77.47	39.55	14.43	26.68	17.15
1001.3	0.124	22.63	40.40	40.33	15.93	15.68	40.62	77.47	39.56	15.06	26.62	17.18
1001.2	0.120	22.59	40.44	40.36	15.90	15.62	40.72	77.41	39.54	14.70	26.70	17.13
1001.3	0.114	22.64	40.35	40.30	15.93	15.65	40.61	77.40	39.54	14.97	26.64	17.18
1001.2	0.113	22.61	40.36	40.30	15.92	15.69	40.63	77.42	39.51	14.96	26.65	17.12
1000.9	0.082	22.63	40.34	40.22	15.92	15.69	40.60	77.40	39.57	15.01	26.64	17.09
1001.1	0.143	22.69	40.29	40.25	15.94	15.72	40.58	77.42	39.58	14.80	26.74	17.15
1001.1	0.103	22.62	40.35	40.30	15.94	15.70	40.57	77.42	39.53	14.78	26.62	17.12
1001.2	0.111	22.64	40.29	40.22	15.92	15.65	40.63	77.42	39.53	15.04	26.65	17.20
1001.7	0.081	22.68	40.34	40.25	15.93	15.79	40.60	77.40	39.54	15.31	26.60	17.12
1000.9	0.119	22.66	40.31	40.30	15.94	15.80	40.57	77.40	39.53	15.24	26.61	17.08
1001.0	0.120	22.70	40.28	40.24	15.93	15.84	40.58	77.44	39.55	15.03	26.63	17.13
1001.1	0.113	22.69	40.23	40.21	15.95	15.87	40.59	77.41	39.50	14.95	26.64	17.12
1001.2	0.118	22.66	40.30	40.18	15.87	15.85	40.54	77.38	39.50	14.80	26.63	17.10
1001.1	0.123	22.79	40.27	40.24	15.88	15.89	40.60	77.35	39.51	15.02	26.62	17.11
1001.1	0.131	22.78	40.30	40.25	15.93	15.81	40.59	77.42	39.50	14.77	26.66	17.15
1001.3	0.115	22.67	40.32	40.23	15.93	15.86	40.56	77.39	39.46	14.95	26.63	17.08
1001.2	0.118	22.73	40.29	40.26	15.94	15.86	40.52	77.37	39.45	14.82	26.60	17.09
1001.3	0.125	22.79	40.28	40.20	15.92	15.89	40.58	77.39	39.51	15.10	26.62	17.14

1001.2	0.133	22.86	40.30	40.25	15.95	15.85	40.61	77.40	39.45	14.88	26.66	17.20
1001.1	0.097	22.94	40.33	40.33	15.90	15.83	40.57	77.42	39.50	14.60	26.63	17.19
1001.1	0.129	22.89	40.31	40.17	15.96	15.82	40.56	77.39	39.45	14.57	26.62	17.17
1001.1	0.096	22.93	40.29	40.17	15.92	15.74	40.58	77.40	39.43	14.71	26.64	17.15
1001.1	0.100	22.89	40.34	40.24	15.92	15.76	40.59	77.41	39.46	14.86	26.65	17.17
1001.0	0.095	22.79	40.32	40.22	15.89	15.79	40.60	77.43	39.54	14.88	26.66	17.19
1001.2	0.120	22.84	40.32	40.29	15.93	15.74	40.60	77.42	39.50	14.28	26.60	17.13
1001.2	0.104	22.93	40.33	40.27	15.94	15.72	40.58	77.39	39.47	14.68	26.69	17.12
1001.0	0.109	22.97	40.35	40.25	15.89	15.67	40.58	77.39	39.51	14.61	26.69	17.16
1001.0	0.125	23.01	40.38	40.31	15.94	15.64	40.63	77.36	39.45	14.55	26.61	17.09
1001.0	0.109	22.97	40.35	40.30	15.84	15.63	40.62	77.35	39.54	14.37	26.62	17.15
1001.2	0.094	23.04	40.33	40.25	15.87	15.64	40.62	77.35	39.51	14.41	26.60	17.13

Table F-4. Continued

Indoor Wetbulb C	Evap		Outdoor Temp C	Cond Power kW	Cond Voltage V	Evap Chamber Pres in/H2O	Evap Diff Pres in/H2O	Evap			Evap Power kW	Refrig Press Before MFM psig	Refrig Press After MFM psig
	Exit Wetbulb C	Outdoor Wetbulb C						Static Pres in/H2O	MFM Refrig lb/min	Evap Voltage V			
19.38	13.88	22.35	34.99	1.91	243.87	0.148	0.302	0.150	5.69	246.73	0.14	385.27	385.88
19.37	13.87	22.35	34.99	1.90	243.73	0.153	0.322	0.140	5.72	243.94	0.13	386.04	387.17
19.37	13.85	22.35	34.99	1.89	245.31	0.139	0.287	0.133	5.72	240.90	0.14	384.60	387.63
19.37	13.85	22.35	34.99	1.91	244.13	0.148	0.337	0.150	5.69	241.63	0.13	385.63	387.68
19.37	13.85	22.35	34.99	1.89	244.57	0.141	0.308	0.130	5.68	243.17	0.13	385.27	387.78
19.37	13.84	22.35	34.99	1.91	248.36	0.152	0.328	0.149	5.72	239.60	0.13	385.83	387.53
19.37	13.84	22.35	34.99	1.89	242.27	0.149	0.323	0.140	5.68	241.88	0.14	385.01	387.11
19.37	13.84	22.35	34.98	1.91	241.40	0.146	0.309	0.149	5.69	246.10	0.14	385.17	387.27
19.37	13.84	22.35	34.99	1.90	241.23	0.139	0.324	0.152	5.69	246.56	0.13	386.81	387.47
19.37	13.83	22.35	34.99	1.91	247.90	0.152	0.304	0.165	5.69	240.50	0.13	386.30	387.63
19.38	13.83	22.36	34.99	1.90	243.71	0.147	0.318	0.152	5.72	242.28	0.13	386.35	387.53
19.38	13.84	22.36	34.99	1.89	241.42	0.153	0.297	0.143	5.68	242.92	0.14	384.96	385.01
19.38	13.84	22.36	34.99	1.91	241.82	0.148	0.316	0.152	5.69	242.52	0.13	384.35	386.96
19.39	13.84	22.36	34.98	1.91	240.05	0.153	0.316	0.137	5.70	243.15	0.13	386.60	387.47
19.39	13.83	22.36	34.99	1.90	241.57	0.135	0.297	0.135	5.71	245.92	0.14	386.76	388.65
19.38	13.84	22.36	34.99	1.91	242.31	0.147	0.297	0.153	5.72	242.31	0.14	385.94	387.27
19.39	13.83	22.36	34.99	1.91	246.64	0.150	0.315	0.148	5.68	241.23	0.14	387.07	386.50
19.38	13.83	22.37	34.99	1.92	245.73	0.147	0.337	0.149	5.69	238.16	0.14	386.76	387.06
19.38	13.84	22.36	34.99	1.91	244.11	0.156	0.319	0.159	5.71	239.79	0.13	385.12	387.01
19.38	13.83	22.36	34.99	1.91	240.40	0.151	0.337	0.140	5.67	245.10	0.14	385.94	387.94
19.38	13.83	22.37	34.99	1.91	240.48	0.145	0.323	0.145	5.71	244.90	0.14	385.17	386.29
19.37	13.82	22.36	34.99	1.92	242.88	0.156	0.354	0.150	5.69	247.02	0.14	385.17	388.09
19.37	13.82	22.36	34.99	1.91	243.74	0.151	0.310	0.148	5.68	246.58	0.13	386.09	388.19
19.37	13.83	22.37	35.00	1.90	241.33	0.148	0.302	0.156	5.68	244.32	0.13	386.04	388.24
19.37	13.82	22.37	35.00	1.90	244.61	0.139	0.284	0.154	5.69	242.26	0.13	385.83	386.50
19.36	13.81	22.37	34.99	1.87	243.62	0.146	0.309	0.159	5.68	241.97	0.13	385.99	387.68
19.36	13.81	22.37	34.99	1.92	240.00	0.151	0.289	0.150	5.73	243.74	0.13	385.48	388.40
19.36	13.81	22.37	34.99	1.89	243.71	0.145	0.287	0.147	5.68	242.69	0.14	387.01	387.37
19.36	13.81	22.37	34.99	1.91	245.07	0.147	0.323	0.128	5.68	242.75	0.14	386.09	388.81
19.37	13.81	22.37	34.99	1.91	243.74	0.151	0.303	0.141	5.68	242.22	0.13	385.07	387.73
19.37	13.81	22.37	34.99	1.89	240.37	0.149	0.336	0.144	5.70	243.98	0.13	385.73	388.40
19.37	13.81	22.37	34.99	1.88	245.01	0.147	0.325	0.137	5.65	243.95	0.14	385.07	388.81
19.38	13.82	22.38	35.00	1.92	244.13	0.156	0.334	0.153	5.66	240.96	0.14	384.50	388.04
19.38	13.81	22.38	35.00	1.91	241.62	0.154	0.329	0.155	5.70	241.42	0.14	385.94	388.04
19.39	13.82	22.38	35.00	1.90	245.74	0.147	0.298	0.152	5.72	243.51	0.13	386.30	388.45
19.38	13.82	22.38	35.00	1.91	244.73	0.145	0.313	0.148	5.67	240.53	0.13	383.94	387.42
19.38	13.82	22.38	34.99	1.90	243.94	0.147	0.289	0.152	5.69	244.84	0.14	385.17	388.71
19.38	13.82	22.38	34.99	1.90	244.51	0.153	0.318	0.143	5.70	243.02	0.14	386.60	388.14
19.38	13.82	22.38	34.99	1.91	247.68	0.158	0.280	0.139	5.71	239.37	0.13	387.43	388.96
19.38	13.82	22.38	34.99	1.90	244.87	0.143	0.312	0.141	5.69	243.63	0.14	385.68	386.96
19.38	13.83	22.38	34.99	1.91	244.77	0.151	0.331	0.137	5.67	247.19	0.14	386.25	388.65
19.38	13.83	22.38	34.99	1.90	245.79	0.146	0.323	0.147	5.72	242.06	0.13	386.55	387.06
19.39	13.82	22.38	35.00	1.90	248.30	0.146	0.348	0.137	5.71	243.57	0.13	386.86	388.81
19.38	13.83	22.38	35.00	1.91	243.79	0.149	0.327	0.146	5.70	244.78	0.13	385.32	388.60
19.38	13.83	22.39	35.00	1.90	241.73	0.147	0.329	0.156	5.71	244.74	0.13	385.58	386.86
19.38	13.83	22.39	35.01	1.91	245.98	0.154	0.367	0.154	5.69	242.05	0.14	386.86	388.14
19.38	13.82	22.39	35.01	1.90	245.62	0.153	0.291	0.162	5.71	242.23	0.14	385.78	386.86
19.38	13.82	22.39	35.01	1.92	241.76	0.155	0.321	0.153	5.68	247.44	0.14	386.35	388.14
19.38	13.82	22.39	35.01	1.90	242.17	0.147	0.318	0.145	5.67	245.17	0.14	386.91	387.68
19.37	13.82	22.39	35.01	1.91	244.64	0.142	0.301	0.143	5.70	241.28	0.14	385.99	387.37

19.36	13.81	22.39	35.01	1.92	239.48	0.151	0.328	0.143	5.70	243.46	0.14	386.45	387.63
19.36	13.81	22.39	35.01	1.91	245.24	0.144	0.327	0.138	5.70	242.52	0.14	385.48	389.58
19.36	13.81	22.39	35.02	1.91	242.10	0.150	0.346	0.136	5.68	245.09	0.14	385.48	388.86
19.36	13.81	22.39	35.02	1.91	245.25	0.148	0.319	0.141	5.69	242.26	0.14	386.66	388.24
19.35	13.81	22.40	35.02	1.89	243.24	0.145	0.333	0.144	5.69	246.41	0.13	386.19	388.65
19.35	13.81	22.40	35.03	1.91	241.74	0.154	0.341	0.149	5.71	244.92	0.13	386.45	388.09
19.35	13.81	22.40	35.03	1.89	246.65	0.140	0.289	0.143	5.67	242.37	0.14	384.50	388.60
19.35	13.80	22.40	35.03	1.91	243.85	0.153	0.319	0.160	5.69	243.25	0.14	386.09	388.60
19.35	13.80	22.40	35.03	1.92	248.33	0.150	0.309	0.147	5.69	242.40	0.14	386.55	388.04
19.36	13.80	22.40	35.03	1.91	245.28	0.142	0.327	0.144	5.69	246.23	0.13	386.76	389.12
19.37	13.81	22.40	35.03	1.91	242.90	0.158	0.306	0.157	5.69	244.08	0.14	386.55	388.35
19.38	13.81	22.41	35.04	1.91	244.16	0.150	0.325	0.152	5.69	243.08	0.14	387.37	388.45
19.38	13.81	22.41	35.04	1.92	243.25	0.149	0.312	0.146	5.69	242.74	0.14	385.83	388.55
19.39	13.82	22.41	35.04	1.91	244.51	0.146	0.313	0.140	5.71	244.08	0.14	387.84	389.06
19.39	13.82	22.41	35.05	1.90	242.20	0.145	0.337	0.141	5.66	244.72	0.13	384.96	388.55
19.39	13.83	22.41	35.05	1.91	245.82	0.151	0.319	0.134	5.65	244.51	0.14	386.66	388.65
19.39	13.83	22.41	35.05	1.90	240.10	0.145	0.321	0.149	5.68	240.85	0.13	385.53	388.76
19.39	13.83	22.41	35.05	1.92	241.48	0.149	0.321	0.146	5.68	243.29	0.14	386.91	388.24
19.39	13.83	22.42	35.05	1.91	245.99	0.155	0.330	0.164	5.68	243.40	0.13	385.58	389.06
19.40	13.83	22.42	35.06	1.91	242.36	0.140	0.307	0.137	5.68	245.01	0.14	386.60	388.04
19.40	13.84	22.42	35.06	1.91	243.13	0.149	0.283	0.162	5.68	239.79	0.14	385.37	387.68
19.39	13.84	22.42	35.06	1.90	246.48	0.151	0.323	0.148	5.70	244.06	0.14	385.68	389.01
19.40	13.84	22.42	35.06	1.92	242.76	0.142	0.303	0.138	5.69	244.29	0.14	384.65	388.19
19.39	13.84	22.42	35.07	1.92	242.13	0.145	0.312	0.149	5.71	240.34	0.14	386.71	388.24
19.39	13.83	22.42	35.07	1.91	241.79	0.147	0.338	0.142	5.68	241.25	0.13	385.83	388.76
19.39	13.84	22.43	35.07	1.92	243.79	0.152	0.310	0.152	5.69	241.89	0.13	387.27	389.58
19.39	13.83	22.43	35.08	1.91	239.90	0.155	0.330	0.150	5.69	242.86	0.14	387.48	388.81
19.38	13.83	22.43	35.08	1.91	241.56	0.156	0.304	0.151	5.67	241.66	0.13	387.37	388.40
19.38	13.83	22.43	35.08	1.90	244.11	0.137	0.317	0.153	5.71	242.02	0.13	386.60	388.81
19.37	13.83	22.43	35.08	1.89	243.33	0.155	0.295	0.152	5.68	245.27	0.14	389.17	388.81
19.37	13.83	22.43	35.09	1.91	244.94	0.146	0.291	0.163	5.69	241.40	0.14	385.63	388.45
19.37	13.82	22.43	35.09	1.92	240.40	0.150	0.303	0.145	5.70	244.12	0.14	387.07	388.29
19.37	13.82	22.44	35.10	1.91	243.87	0.140	0.266	0.148	5.67	243.26	0.14	387.17	388.14
19.37	13.82	22.44	35.10	1.90	242.50	0.156	0.313	0.158	5.66	245.33	0.14	387.17	389.42
19.36	13.82	22.44	35.10	1.92	244.34	0.159	0.308	0.154	5.68	242.45	0.13	387.78	389.63
19.36	13.82	22.44	35.11	1.91	248.24	0.139	0.283	0.150	5.65	242.98	0.14	387.32	388.71
19.36	13.82	22.44	35.11	1.91	245.79	0.151	0.315	0.155	5.70	241.85	0.14	386.91	390.35
19.35	13.81	22.44	35.11	1.92	245.45	0.151	0.333	0.145	5.69	245.76	0.13	386.35	388.76
19.36	13.81	22.44	35.11	1.92	246.19	0.156	0.303	0.162	5.68	243.06	0.14	387.78	389.01
19.36	13.81	22.45	35.11	1.91	245.65	0.137	0.339	0.140	5.69	247.01	0.14	386.96	388.35
19.37	13.81	22.45	35.12	1.93	242.17	0.141	0.299	0.149	5.69	247.82	0.13	387.27	388.60
19.37	13.81	22.45	35.12	1.92	244.47	0.149	0.345	0.151	5.68	245.75	0.14	387.48	389.47
19.38	13.82	22.45	35.12	1.90	247.84	0.148	0.323	0.145	5.69	243.45	0.14	386.66	389.83
19.38	13.81	22.45	35.12	1.91	246.27	0.152	0.322	0.153	5.68	243.00	0.14	386.96	389.83
19.38	13.81	22.45	35.12	1.91	248.24	0.146	0.313	0.155	5.71	242.66	0.14	387.73	389.58
19.38	13.82	22.45	35.12	1.91	248.22	0.147	0.351	0.142	5.65	243.40	0.14	387.07	389.53
19.38	13.82	22.45	35.12	1.92	242.68	0.145	0.293	0.156	5.69	246.70	0.13	387.89	389.53
19.38	13.82	22.45	35.12	1.90	244.82	0.149	0.323	0.150	5.69	244.77	0.14	387.32	389.22
19.38	13.82	22.45	35.12	1.92	245.56	0.159	0.310	0.159	5.67	242.31	0.13	386.09	388.76
19.38	13.82	22.45	35.12	1.90	244.62	0.154	0.313	0.154	5.68	245.33	0.14	386.60	389.47
19.38	13.82	22.46	35.12	1.92	242.76	0.153	0.307	0.158	5.67	246.15	0.14	387.94	389.22
19.38	13.82	22.46	35.12	1.90	243.88	0.148	0.303	0.140	5.69	246.53	0.13	387.22	388.40
19.39	13.82	22.46	35.12	1.92	247.22	0.147	0.335	0.148	5.69	243.72	0.13	387.43	388.60
19.39	13.82	22.46	35.12	1.90	246.84	0.157	0.321	0.148	5.67	244.61	0.13	387.32	388.71
19.39	13.82	22.46	35.12	1.92	243.00	0.146	0.345	0.161	5.69	243.03	0.14	387.68	388.91
19.39	13.83	22.46	35.12	1.91	242.42	0.145	0.344	0.146	5.68	244.47	0.14	386.66	388.40
19.38	13.82	22.46	35.12	1.92	249.04	0.146	0.317	0.156	5.65	243.18	0.13	386.35	388.45
19.39	13.83	22.46	35.12	1.90	245.91	0.145	0.333	0.148	5.67	247.39	0.13	387.01	389.32
19.38	13.83	22.46	35.12	1.90	245.74	0.152	0.312	0.149	5.67	244.69	0.13	387.63	389.94

19.38	13.83	22.46	35.12	1.92	245.67	0.153	0.325	0.152	5.66	244.43	0.13	387.07	389.06
19.38	13.82	22.46	35.12	1.92	241.11	0.152	0.300	0.147	5.70	241.65	0.14	387.68	389.63
19.37	13.82	22.46	35.13	1.90	242.42	0.149	0.317	0.147	5.68	242.22	0.13	387.27	387.73
19.36	13.81	22.47	35.13	1.92	249.42	0.154	0.319	0.141	5.70	244.72	0.13	388.09	388.60
19.36	13.81	22.47	35.13	1.89	245.62	0.144	0.315	0.138	5.70	244.35	0.13	388.09	389.32
19.36	13.81	22.47	35.13	1.92	242.13	0.152	0.338	0.144	5.71	245.78	0.14	386.66	389.01
19.36	13.81	22.47	35.13	1.91	242.28	0.151	0.317	0.150	5.71	243.02	0.14	386.30	388.29
19.36	13.81	22.47	35.13	1.92	245.14	0.141	0.333	0.147	5.67	243.28	0.13	383.83	387.68
19.35	13.81	22.47	35.12	1.93	243.62	0.151	0.302	0.147	5.70	246.21	0.14	389.07	389.22
19.35	13.80	22.47	35.13	1.92	249.18	0.143	0.325	0.149	5.68	242.75	0.14	388.76	389.37
19.36	13.80	22.47	35.13	1.91	246.08	0.158	0.318	0.149	5.71	245.46	0.14	387.32	388.04
19.37	13.80	22.47	35.12	1.90	242.65	0.146	0.300	0.148	5.66	245.29	0.13	386.66	387.63
19.37	13.81	22.46	35.11	1.90	244.96	0.152	0.332	0.140	5.68	244.29	0.13	386.96	388.76
19.38	13.81	22.47	35.12	1.92	248.65	0.147	0.312	0.150	5.68	244.23	0.13	386.81	389.06
19.38	13.82	22.46	35.12	1.91	247.95	0.156	0.361	0.135	5.67	242.22	0.14	386.09	388.81
19.38	13.81	22.47	35.12	1.92	249.99	0.143	0.319	0.138	5.69	242.80	0.13	387.32	388.45
19.39	13.82	22.47	35.12	1.91	248.96	0.154	0.329	0.142	5.69	246.16	0.13	387.22	389.27
19.39	13.82	22.47	35.11	1.90	245.10	0.152	0.327	0.151	5.64	242.88	0.13	386.04	388.40
19.39	13.82	22.46	35.11	1.92	241.56	0.147	0.314	0.152	5.68	245.73	0.14	387.17	387.06
19.39	13.82	22.46	35.11	1.91	243.79	0.154	0.303	0.150	5.70	242.75	0.14	385.73	388.09
19.39	13.82	22.47	35.11	1.90	250.72	0.151	0.290	0.158	5.68	245.04	0.13	388.09	388.81
19.39	13.82	22.46	35.10	1.91	245.62	0.155	0.319	0.155	5.68	242.97	0.13	385.78	388.81
19.39	13.83	22.46	35.10	1.92	244.88	0.152	0.287	0.162	5.69	243.37	0.14	388.61	388.55
19.39	13.82	22.47	35.10	1.92	247.22	0.153	0.299	0.154	5.68	243.41	0.13	386.25	388.40
19.39	13.83	22.47	35.10	1.91	245.82	0.157	0.310	0.141	5.68	242.00	0.14	386.71	388.91
19.40	13.83	22.46	35.10	1.89	248.25	0.140	0.317	0.142	5.65	243.11	0.14	385.78	388.55
19.39	13.83	22.47	35.10	1.90	248.68	0.151	0.308	0.153	5.66	242.43	0.14	386.81	388.35
19.39	13.82	22.46	35.10	1.92	243.27	0.152	0.309	0.145	5.67	244.90	0.14	385.17	388.14
19.39	13.83	22.46	35.09	1.90	244.17	0.151	0.309	0.139	5.69	244.67	0.14	386.66	388.91
19.39	13.83	22.47	35.09	1.92	247.11	0.150	0.285	0.140	5.68	244.35	0.13	386.14	387.27
19.39	13.83	22.47	35.10	1.92	250.52	0.149	0.326	0.144	5.70	241.25	0.13	386.40	388.24
19.39	13.83	22.47	35.10	1.92	245.82	0.147	0.313	0.142	5.66	242.25	0.14	386.45	389.06
19.39	13.83	22.47	35.09	1.91	245.31	0.152	0.347	0.147	5.67	241.68	0.14	384.96	387.27
19.38	13.83	22.47	35.09	1.90	243.53	0.152	0.306	0.146	5.68	243.69	0.13	387.58	388.81
19.38	13.82	22.47	35.09	1.89	244.57	0.144	0.309	0.148	5.68	243.45	0.13	385.07	388.24
19.38	13.82	22.47	35.09	1.91	242.82	0.153	0.304	0.154	5.67	246.07	0.14	385.94	387.94
19.38	13.82	22.47	35.09	1.92	238.93	0.141	0.312	0.144	5.69	244.78	0.13	386.55	387.73
19.37	13.82	22.47	35.09	1.92	245.42	0.146	0.311	0.157	5.67	244.43	0.13	386.09	387.94
19.37	13.82	22.47	35.09	1.91	243.45	0.148	0.338	0.150	5.70	244.66	0.13	385.01	388.71
19.38	13.82	22.47	35.09	1.92	249.55	0.150	0.335	0.141	5.68	243.18	0.14	387.37	388.86
19.38	13.82	22.47	35.09	1.90	244.87	0.146	0.323	0.146	5.68	248.25	0.14	385.32	386.81
19.39	13.82	22.47	35.09	1.92	242.19	0.158	0.322	0.157	5.68	244.58	0.13	387.12	387.83
19.39	13.83	22.47	35.09	1.91	247.82	0.151	0.314	0.151	5.65	242.28	0.13	387.78	388.55
19.39	13.83	22.47	35.09	1.90	241.42	0.143	0.318	0.152	5.70	244.64	0.14	387.01	387.68
19.40	13.83	22.47	35.08	1.92	242.16	0.149	0.313	0.146	5.66	245.76	0.14	386.45	386.86
19.40	13.83	22.47	35.08	1.90	247.41	0.145	0.289	0.156	5.71	242.88	0.14	385.58	388.09
19.40	13.84	22.47	35.08	1.91	243.04	0.148	0.320	0.150	5.68	244.97	0.14	386.04	387.94
19.40	13.84	22.47	35.08	1.92	241.25	0.155	0.285	0.154	5.69	245.86	0.13	386.60	387.99
19.40	13.84	22.47	35.08	1.92	247.53	0.149	0.317	0.148	5.67	244.61	0.14	386.25	388.24
19.40	13.84	22.47	35.08	1.92	243.44	0.148	0.316	0.137	5.65	247.87	0.14	386.19	388.55
19.40	13.84	22.47	35.07	1.91	240.31	0.150	0.344	0.148	5.64	247.27	0.13	385.17	387.06
19.40	13.84	22.47	35.07	1.91	244.97	0.149	0.347	0.143	5.66	247.16	0.13	385.32	388.65
19.40	13.84	22.47	35.07	1.90	242.23	0.140	0.316	0.142	5.69	247.59	0.13	385.78	387.17
19.40	13.84	22.47	35.07	1.91	243.44	0.158	0.332	0.155	5.69	244.69	0.13	385.63	387.47
19.40	13.83	22.47	35.07	1.90	243.27	0.151	0.291	0.167	5.71	243.02	0.13	386.40	387.94
19.40	13.83	22.47	35.07	1.92	244.48	0.152	0.310	0.157	5.64	243.88	0.13	386.25	388.40
19.40	13.84	22.47	35.06	1.90	240.77	0.143	0.291	0.144	5.70	244.35	0.14	386.96	388.71
19.40	13.84	22.47	35.06	1.90	247.91	0.145	0.331	0.160	5.69	242.28	0.14	388.19	387.94
19.40	13.83	22.47	35.06	1.91	243.53	0.146	0.322	0.142	5.69	245.73	0.14	385.37	387.99

19.40	13.84	22.47	35.06	1.90	240.74	0.148	0.307	0.135	5.68	244.90	0.13	386.55	387.01
19.39	13.83	22.47	35.06	1.90	243.53	0.134	0.345	0.141	5.68	242.15	0.14	386.76	387.99
19.39	13.84	22.47	35.05	1.91	245.38	0.148	0.319	0.138	5.69	244.00	0.13	385.12	386.86
19.39	13.83	22.47	35.05	1.90	241.23	0.137	0.329	0.138	5.69	242.02	0.13	385.89	387.78
19.39	13.83	22.47	35.05	1.91	241.48	0.147	0.322	0.147	5.68	242.89	0.14	386.66	387.83
19.38	13.82	22.47	35.05	1.91	243.94	0.142	0.326	0.148	5.70	242.52	0.14	386.50	387.88
19.38	13.83	22.47	35.05	1.91	243.93	0.147	0.295	0.143	5.71	242.26	0.13	385.58	387.37
19.37	13.82	22.47	35.05	1.90	244.21	0.148	0.285	0.153	5.68	244.49	0.14	384.35	388.71
19.37	13.82	22.47	35.06	1.92	241.10	0.142	0.310	0.143	5.68	242.45	0.13	386.50	386.35
19.37	13.82	22.47	35.05	1.91	248.88	0.150	0.317	0.153	5.67	242.05	0.13	386.19	388.19
19.37	13.82	22.47	35.05	1.91	243.59	0.156	0.313	0.149	5.67	243.31	0.13	386.71	388.40
19.38	13.82	22.47	35.05	1.90	242.13	0.147	0.300	0.144	5.65	244.60	0.14	384.71	387.42

Table F-4. Continued

Refrig Press Evap In psig	Refrig Press Evap Out psig	Refrig Press Comp In psig	Refrig Press Cond Out psig	Refrig Press Comp In psig	Condinsate weight oz	Evap Rho Inlet lb/ft ³	Evap Rho Nozzle lb/ft ³	Evap CFM Nozzle CFM	Evap CFM Outlet CFM	Capacity Balance Pass/Fail	Total Cooling Capacity Btu/hr
383.19	135.43	132.33	383.51	400.77	20.49	0.07216	0.07449	780.6	776.7	PASS	24432.9
380.52	133.43	134.53	385.21	401.29	16.52	0.07216	0.07449	755.3	751.5	PASS	23672.9
383.14	135.02	134.07	385.46	404.52	15.61	0.07217	0.07449	749.9	746.2	PASS	24792.2
384.11	134.51	133.46	384.64	400.11	21.71	0.07215	0.07449	786.4	782.3	PASS	24252.1
383.44	133.38	134.23	384.03	400.41	23.38	0.07216	0.07449	741.8	738.1	PASS	23740.7
383.60	133.58	132.79	384.54	402.06	20.04	0.07216	0.07448	780.9	776.9	PASS	23875.5
383.65	134.76	134.53	384.85	402.36	15.09	0.07216	0.07448	763.7	759.8	PASS	23389.8
384.47	135.23	135.10	385.10	402.21	18.12	0.07217	0.07449	772.0	768.0	PASS	23927.1
384.27	134.66	134.74	386.44	403.59	17.67	0.07215	0.07449	786.3	782.4	PASS	24003.8
382.93	134.05	134.07	382.95	399.85	21.01	0.07215	0.07448	791.8	787.7	PASS	24397.6
383.70	133.53	132.84	384.23	402.83	24.50	0.07214	0.07449	784.3	780.4	PASS	23715.1
383.44	135.02	134.07	384.59	403.29	22.93	0.07216	0.07449	755.4	751.8	PASS	23451.5
382.06	136.46	132.64	385.26	402.88	17.71	0.07216	0.07450	787.0	783.2	PASS	24121.3
383.55	133.17	134.23	385.67	401.65	18.79	0.07215	0.07448	746.8	742.8	PASS	24137.5
382.88	134.56	132.07	385.67	405.85	17.88	0.07214	0.07448	769.0	765.0	PASS	24755.8
382.26	133.79	133.30	384.90	402.26	24.15	0.07216	0.07449	777.2	773.4	PASS	24288.8
383.55	134.35	135.10	386.85	402.67	21.12	0.07216	0.07450	768.6	764.8	PASS	23830.4
380.88	132.97	134.12	385.21	403.13	28.19	0.07216	0.07449	813.8	809.8	PASS	24100.4
383.60	134.15	134.33	384.64	398.82	19.59	0.07216	0.07448	779.3	775.5	PASS	24502.8
383.75	134.66	134.69	385.98	403.70	22.20	0.07215	0.07450	758.3	754.6	PASS	24068.8
382.32	134.25	134.43	387.93	398.98	20.91	0.07215	0.07450	765.6	761.8	PASS	23900.2
384.47	134.35	134.02	383.31	401.49	25.06	0.07215	0.07450	788.6	784.8	PASS	23589.7
382.57	131.94	132.84	384.18	404.06	32.69	0.07216	0.07449	779.0	775.0	PASS	23662.0
384.11	136.30	134.84	383.72	404.11	23.52	0.07214	0.07448	792.8	788.7	PASS	23830.2
382.01	135.12	134.28	384.90	402.62	20.18	0.07216	0.07451	749.5	745.8	PASS	24618.3
384.62	134.10	135.00	385.92	400.36	28.51	0.07216	0.07450	780.1	776.3	PASS	24058.0
384.98	134.51	133.30	384.28	402.88	21.05	0.07215	0.07450	764.1	760.4	PASS	24145.8
384.42	133.99	131.76	384.74	402.26	26.31	0.07215	0.07449	763.3	759.5	PASS	24685.0
381.65	136.97	132.84	384.33	402.36	16.35	0.07216	0.07450	765.3	761.5	PASS	24188.8
384.62	132.46	132.99	384.69	399.70	32.55	0.07214	0.07450	760.3	756.4	PASS	24819.6
384.93	136.46	133.76	385.46	398.93	18.75	0.07214	0.07448	786.4	782.4	PASS	24671.1
384.11	134.25	133.30	385.62	400.98	28.51	0.07217	0.07451	763.5	759.8	PASS	24439.7
382.78	132.71	134.07	387.10	402.67	23.77	0.07217	0.07450	795.2	791.2	PASS	24369.8
384.27	135.07	132.38	383.87	403.34	29.97	0.07217	0.07450	804.2	800.2	PASS	23663.7
384.37	134.56	135.00	385.67	402.06	27.11	0.07217	0.07448	793.9	789.9	PASS	23721.2
382.83	133.53	133.35	385.87	404.77	32.58	0.07216	0.07452	772.4	768.9	PASS	23292.2
383.80	134.71	134.17	385.62	401.18	21.54	0.07216	0.07450	767.4	763.8	PASS	23900.0
383.14	135.28	134.79	385.00	400.98	25.96	0.07215	0.07453	774.9	771.4	PASS	24311.0
383.70	134.40	134.12	385.51	403.08	28.82	0.07215	0.07450	750.5	747.0	PASS	23863.8
383.96	134.05	134.79	385.87	401.90	28.37	0.07214	0.07448	767.1	763.2	PASS	24041.6
382.57	133.58	134.12	385.26	402.72	28.57	0.07215	0.07449	766.0	762.2	PASS	24247.9
384.52	133.69	133.97	384.13	402.77	31.75	0.07216	0.07449	799.9	796.0	PASS	25111.6
383.75	132.15	132.58	383.20	403.08	24.43	0.07216	0.07448	792.1	788.2	PASS	24268.6
383.14	133.58	134.28	385.31	402.36	33.77	0.07214	0.07447	799.2	794.9	PASS	23466.2
382.78	134.25	134.07	386.80	403.59	24.46	0.07215	0.07448	807.7	803.6	PASS	24146.0
385.55	134.30	134.28	385.00	400.36	31.29	0.07215	0.07449	802.9	798.8	PASS	23242.2
384.93	134.40	134.53	386.23	403.85	31.99	0.07216	0.07449	775.8	771.9	PASS	24139.4
384.98	134.46	132.89	382.74	403.08	32.23	0.07217	0.07449	779.3	775.5	PASS	23788.9
384.83	132.61	132.58	385.51	402.21	33.66	0.07218	0.07446	765.2	761.1	PASS	23822.6
383.39	133.12	131.87	383.46	403.08	29.86	0.07216	0.07451	766.0	762.3	PASS	24081.7

382.98	131.74	134.64	386.28	402.31	31.33	0.07216	0.07450	770.8	767.0	PASS	23704.2
384.32	135.02	134.12	386.33	401.80	29.27	0.07216	0.07448	759.2	755.5	PASS	23908.4
384.57	134.30	134.23	383.15	403.49	29.76	0.07216	0.07450	773.6	769.8	PASS	23679.6
385.75	133.99	132.33	384.90	403.13	32.65	0.07216	0.07449	775.8	771.9	PASS	23721.4
384.62	134.97	133.40	385.57	403.39	32.02	0.07217	0.07449	786.8	783.0	PASS	23884.5
384.32	135.12	134.33	386.08	403.80	25.58	0.07214	0.07451	788.9	785.2	PASS	23642.7
383.65	135.23	135.15	384.64	402.06	31.64	0.07216	0.07449	764.1	760.1	PASS	23157.4
383.75	133.94	134.84	384.49	401.80	45.47	0.07215	0.07450	778.8	775.0	PASS	23475.5
384.83	134.82	133.40	385.72	402.83	31.85	0.07214	0.07449	793.2	789.3	PASS	24047.7
381.96	133.43	135.15	384.90	401.75	33.66	0.07215	0.07447	780.6	776.5	PASS	23945.1
384.57	135.07	134.94	386.75	404.57	33.52	0.07214	0.07449	773.1	769.4	PASS	24250.5
384.52	134.35	134.53	386.59	401.49	32.37	0.07216	0.07449	783.8	780.0	PASS	24231.2
386.21	134.56	134.17	385.92	404.31	27.22	0.07215	0.07448	758.7	755.0	PASS	24282.3
383.14	134.71	132.94	385.72	404.26	37.77	0.07215	0.07449	780.9	777.2	PASS	24710.8
383.09	133.84	134.74	385.67	402.62	34.74	0.07215	0.07448	789.4	785.5	PASS	23856.7
384.78	133.89	133.92	385.87	403.54	39.48	0.07215	0.07448	775.7	771.8	PASS	23962.0
384.68	133.28	134.74	386.33	403.59	37.49	0.07216	0.07448	790.9	787.0	PASS	23524.0
384.32	132.76	133.10	386.03	404.88	37.46	0.07215	0.07449	764.7	761.0	PASS	23956.9
385.14	133.48	132.02	386.08	403.95	32.62	0.07215	0.07447	800.3	796.1	PASS	24039.7
383.60	132.97	134.02	388.44	404.52	30.07	0.07215	0.07448	757.1	753.3	PASS	23174.2
383.09	134.40	134.48	387.00	404.06	33.73	0.07214	0.07448	765.3	761.6	PASS	24557.4
385.19	134.15	134.38	385.51	404.57	36.31	0.07216	0.07448	784.6	780.7	PASS	23596.2
384.98	136.25	134.43	386.75	404.52	33.77	0.07215	0.07447	736.6	732.9	PASS	24597.6
383.39	136.25	134.64	385.72	403.70	38.22	0.07216	0.07449	781.7	777.9	PASS	24888.1
383.91	133.99	134.58	388.49	403.70	32.09	0.07215	0.07447	778.1	774.3	PASS	24212.9
384.32	133.22	133.92	387.31	404.67	38.54	0.07216	0.07451	778.1	774.6	PASS	24787.0
385.19	133.07	134.23	386.59	403.08	36.97	0.07215	0.07447	783.0	779.0	PASS	23878.9
383.96	131.74	134.64	387.87	405.60	41.88	0.07216	0.07448	782.8	778.8	PASS	24147.4
382.88	133.28	133.92	385.87	402.47	40.07	0.07216	0.07448	797.5	793.6	PASS	23168.3
384.78	133.43	133.30	388.64	406.31	37.14	0.07215	0.07447	765.7	761.8	PASS	23544.0
384.68	134.15	135.10	386.59	404.06	36.31	0.07214	0.07447	787.0	782.9	PASS	23521.9
383.80	132.92	133.76	385.67	404.06	41.33	0.07216	0.07447	765.7	761.8	PASS	22760.9
380.72	133.99	135.20	389.11	405.49	39.24	0.07215	0.07448	766.3	762.5	PASS	23775.8
384.98	134.35	132.43	386.44	404.36	39.24	0.07216	0.07448	781.8	777.8	PASS	24355.0
383.80	133.74	134.79	386.39	405.75	35.51	0.07216	0.07449	774.9	771.1	PASS	23729.8
386.63	134.35	134.12	385.10	402.00	41.81	0.07215	0.07448	766.6	762.7	PASS	23300.6
384.68	134.20	135.51	384.49	403.65	44.84	0.07215	0.07449	773.3	769.5	PASS	24654.7
384.93	132.15	135.51	387.41	403.75	37.28	0.07215	0.07447	755.2	751.4	PASS	24147.5
383.44	133.38	133.35	386.64	406.16	34.57	0.07215	0.07448	791.3	787.3	PASS	24567.1
385.70	134.56	136.18	388.49	403.54	39.62	0.07214	0.07447	763.5	759.6	PASS	23753.1
383.44	134.10	134.28	386.13	405.75	37.88	0.07215	0.07450	788.3	784.5	PASS	24192.2
384.88	132.51	133.71	387.26	405.65	35.26	0.07214	0.07447	807.0	802.7	PASS	23819.8
383.60	133.07	132.43	387.46	402.72	42.06	0.07215	0.07448	762.5	758.7	PASS	23831.1
386.16	134.71	133.92	387.21	406.31	35.65	0.07216	0.07450	796.6	792.7	PASS	23736.1
386.52	134.30	132.53	384.49	403.54	39.44	0.07216	0.07448	792.4	788.4	PASS	23707.8
384.68	133.89	134.79	386.85	402.31	43.35	0.07216	0.07446	791.4	787.2	PASS	23293.5
385.75	132.51	134.23	387.67	404.11	39.72	0.07216	0.07447	780.4	776.4	PASS	23932.4
385.55	135.58	134.23	386.49	404.11	44.53	0.07217	0.07448	800.8	796.6	PASS	23447.7
384.01	133.79	134.02	386.95	405.03	44.04	0.07215	0.07448	786.1	782.0	PASS	23469.2
385.50	134.10	134.38	387.57	401.49	40.84	0.07217	0.07450	790.7	786.7	PASS	24232.8
384.27	132.25	133.15	387.05	402.47	46.83	0.07214	0.07450	759.1	755.5	PASS	24246.8
384.57	133.12	133.46	386.90	407.13	44.91	0.07216	0.07449	753.9	750.2	PASS	24266.2
383.70	133.64	133.66	386.75	403.13	44.88	0.07216	0.07449	787.2	783.4	PASS	24507.4
383.80	133.07	131.61	386.39	405.34	43.87	0.07215	0.07449	791.0	787.1	PASS	23987.9
385.39	134.30	134.02	386.44	402.26	47.70	0.07215	0.07445	812.1	807.6	PASS	24860.4
382.93	132.97	134.23	387.51	404.26	38.68	0.07217	0.07444	787.7	783.4	PASS	23742.9
385.60	134.61	134.33	385.72	402.67	41.99	0.07214	0.07448	802.7	798.7	PASS	23565.9
385.29	134.40	133.05	385.51	402.16	43.28	0.07215	0.07449	777.9	774.0	PASS	23370.8
385.39	133.84	133.61	386.75	403.90	47.35	0.07215	0.07450	776.6	773.0	PASS	24007.8

385.39	136.66	132.84	384.44	401.65	44.98	0.07215	0.07448	782.7	778.8	PASS	24441.0
384.21	130.76	131.25	386.80	404.26	34.29	0.07216	0.07451	742.7	739.2	PASS	23842.3
383.24	132.20	133.82	387.21	405.08	41.64	0.07215	0.07449	769.8	766.0	PASS	24454.5
385.50	133.69	134.17	386.80	401.18	50.77	0.07215	0.07448	766.5	762.7	PASS	23932.3
385.45	133.58	134.79	387.00	403.54	44.36	0.07215	0.07448	765.3	761.3	PASS	24527.3
384.57	134.25	134.23	386.39	404.16	43.73	0.07216	0.07448	784.3	780.2	PASS	23968.7
384.52	135.02	134.64	387.00	404.62	40.77	0.07215	0.07448	779.2	775.2	PASS	24208.6
384.32	133.79	136.23	386.39	405.19	43.52	0.07216	0.07449	774.8	770.9	PASS	24167.0
384.27	133.79	133.30	386.64	403.59	48.92	0.07216	0.07450	767.7	763.9	PASS	23958.0
385.96	133.43	134.28	384.90	404.42	46.45	0.07215	0.07448	771.4	767.4	PASS	24354.1
385.39	135.12	133.30	384.59	403.03	45.51	0.07214	0.07448	770.8	767.0	PASS	23279.0
383.55	133.79	134.69	386.69	404.42	41.12	0.07215	0.07450	762.5	758.9	PASS	24408.5
384.88	133.89	131.92	383.97	402.31	47.21	0.07214	0.07448	758.8	755.0	PASS	24171.0
384.98	133.48	133.61	387.87	402.77	44.95	0.07214	0.07449	794.0	790.0	PASS	24501.8
384.32	133.74	132.89	385.77	403.34	44.57	0.07214	0.07447	774.8	770.8	PASS	24697.6
385.75	134.66	134.07	385.36	401.59	48.64	0.07213	0.07450	775.7	772.0	PASS	24589.4
384.42	133.84	134.38	382.79	401.08	43.87	0.07217	0.07449	783.9	780.0	PASS	24788.4
383.55	133.43	132.84	385.51	403.95	49.90	0.07213	0.07445	771.7	767.5	PASS	23486.2
384.06	134.30	134.12	386.69	403.90	51.43	0.07213	0.07446	805.8	801.5	PASS	24282.4
384.32	134.20	134.12	385.98	402.06	43.35	0.07215	0.07450	766.7	763.1	PASS	23795.6
384.57	133.33	132.89	388.49	404.11	51.57	0.07214	0.07449	776.9	773.2	PASS	24097.6
385.03	134.76	135.15	385.21	401.75	53.17	0.07214	0.07448	780.9	777.1	PASS	23711.1
384.06	132.87	133.25	385.77	404.72	48.68	0.07213	0.07450	756.6	753.0	PASS	24166.8
384.73	134.35	134.48	386.28	403.65	45.16	0.07214	0.07447	791.0	787.0	PASS	23396.1
383.70	135.28	133.25	384.44	403.59	47.35	0.07215	0.07451	764.2	760.6	PASS	24186.6
385.45	134.30	133.76	385.46	401.65	52.86	0.07215	0.07448	770.3	766.4	PASS	24781.9
384.68	133.02	133.97	385.92	401.29	50.14	0.07214	0.07449	787.3	783.4	PASS	24486.6
383.85	133.64	135.15	385.82	402.88	47.74	0.07213	0.07447	763.4	759.6	PASS	24901.3
382.47	133.43	132.43	384.95	404.57	50.70	0.07212	0.07446	746.0	742.3	PASS	24169.5
383.85	132.87	134.02	387.67	403.13	46.97	0.07215	0.07448	745.4	741.9	PASS	24601.5
385.75	134.25	134.79	387.41	403.34	55.75	0.07213	0.07447	751.4	747.5	PASS	23556.0
383.96	133.69	132.17	385.15	403.70	54.39	0.07215	0.07448	772.0	768.1	PASS	24626.5
384.42	134.66	134.12	386.18	401.90	53.41	0.07213	0.07447	781.5	777.6	PASS	24488.2
384.57	134.05	133.40	386.28	402.88	50.45	0.07216	0.07448	755.9	752.2	PASS	23954.2
384.73	134.56	134.38	386.49	402.98	50.80	0.07214	0.07446	777.3	773.3	PASS	24061.5
383.70	134.92	135.30	386.23	403.29	49.44	0.07215	0.07448	770.4	766.6	PASS	24038.3
384.32	134.35	134.28	385.31	403.90	54.39	0.07212	0.07448	793.5	789.7	PASS	24690.9
384.16	132.10	133.15	385.15	404.47	54.46	0.07214	0.07448	784.4	780.5	PASS	23448.7
385.03	133.12	133.30	385.98	404.36	56.72	0.07214	0.07448	801.6	797.5	PASS	24929.4
385.55	135.02	133.46	386.39	405.65	50.52	0.07214	0.07448	774.5	770.8	PASS	23868.1
385.29	133.79	134.69	386.59	400.52	61.53	0.07214	0.07448	783.8	779.8	PASS	24211.1
383.60	133.79	134.02	387.00	402.52	57.35	0.07215	0.07447	785.1	781.1	PASS	24098.2
379.85	134.61	132.99	384.90	402.77	52.89	0.07213	0.07448	770.9	767.0	PASS	23201.8
384.47	134.71	135.20	385.67	401.85	55.23	0.07215	0.07447	783.4	779.4	PASS	23725.6
385.80	133.48	132.69	384.13	402.52	56.90	0.07214	0.07448	767.3	763.6	PASS	24221.2
386.21	134.35	133.92	385.92	402.00	57.80	0.07214	0.07448	767.4	763.7	PASS	24376.1
384.52	133.22	132.02	385.00	404.57	59.44	0.07211	0.07447	765.6	761.8	PASS	24047.8
383.50	133.69	134.12	386.69	403.24	58.95	0.07215	0.07449	746.9	743.3	PASS	23963.8
383.39	135.33	133.87	384.44	401.70	50.07	0.07214	0.07446	777.7	773.7	PASS	24497.2
384.11	133.17	131.97	385.77	402.62	54.36	0.07216	0.07448	758.1	754.4	PASS	23533.7
382.98	134.82	134.23	386.90	402.62	55.47	0.07215	0.07448	791.8	788.0	PASS	24582.3
385.65	134.92	134.79	386.08	403.18	59.93	0.07214	0.07447	808.3	804.3	PASS	23602.0
384.68	134.61	134.53	386.33	404.52	54.18	0.07214	0.07447	785.8	782.0	PASS	24299.4
383.14	135.64	134.84	386.80	403.44	56.31	0.07214	0.07448	786.3	782.3	PASS	23751.0
383.44	134.05	133.87	386.03	403.75	53.07	0.07215	0.07448	798.8	794.8	PASS	23764.7
383.70	133.74	133.51	384.74	402.98	54.46	0.07213	0.07446	774.1	770.3	PASS	24126.0
383.09	133.79	132.94	386.08	403.75	57.39	0.07214	0.07449	751.4	747.9	PASS	23301.6
384.47	134.66	132.89	385.21	402.26	58.64	0.07215	0.07448	796.9	793.1	PASS	24342.1
384.32	135.43	134.02	385.72	400.88	60.42	0.07215	0.07448	772.9	769.0	PASS	24307.2

385.50	133.58	133.51	386.28	404.16	63.06	0.07214	0.07446	761.8	757.9	PASS	24163.6
382.67	133.64	131.25	384.74	403.59	59.13	0.07213	0.07444	788.4	784.2	PASS	24394.8
382.98	134.30	134.38	387.31	401.85	56.48	0.07215	0.07447	768.2	764.4	NO TEST	25392.8
383.39	134.05	134.23	385.92	403.65	59.62	0.07214	0.07446	792.5	788.4	PASS	24043.9
383.75	134.30	133.97	386.90	403.95	62.72	0.07214	0.07446	790.2	786.2	PASS	23425.1
383.34	134.97	133.35	385.15	402.31	55.54	0.07213	0.07445	798.0	793.7	PASS	23489.0
383.29	135.23	135.05	385.46	404.62	58.05	0.07215	0.07447	757.5	753.8	PASS	23604.8
384.47	134.05	132.53	385.98	402.52	62.23	0.07213	0.07448	792.2	788.3	PASS	23865.6
383.34	133.94	133.71	385.98	401.85	57.39	0.07213	0.07446	772.6	768.6	PASS	23835.8
384.32	132.20	132.74	385.26	402.26	57.25	0.07215	0.07448	769.4	765.7	PASS	24192.6
383.65	133.74	132.48	385.72	404.77	63.48	0.07214	0.07446	770.1	766.0	PASS	24338.7
384.47	135.38	133.87	386.44	403.39	60.14	0.07216	0.07448	757.8	753.9	PASS	24651.0

Table F-4. Continued

Sensible Cooling Capacity Btu/hr	Latent Cooling Capacity Btu/hr	Degree of Sub- cooling F	Degree of Refrig Super- heat F	Refrigerant Cooling Capacity Btu/hr	Time hhmmss
16727.8	7705.1	10.1	11.0	23718.8	152040
16301.5	7371.4	10.2	10.2	23621.8	152050
16943.4	7848.8	10.1	10.1	23623.5	152100
16574.8	7677.2	10.1	10.5	23673.6	152110
16113.9	7626.8	10.2	10.7	23661.4	152120
16181.6	7693.9	10.2	10.9	23648.7	152130
15827.1	7562.7	10.0	9.9	23539.6	152140
16248.9	7678.3	10.0	11.2	23710.7	152150
16394.3	7609.5	10.1	10.9	23635.8	152200
16572.3	7825.3	10.1	11.2	23631.9	152210
16154.2	7560.9	10.0	11.4	23722.0	152220
15935.8	7515.8	9.9	11.3	23609.8	152230
16422.7	7698.6	9.9	11.3	23663.6	152240
16330.6	7807.0	10.0	10.5	23704.8	152250
16829.2	7926.5	10.1	11.9	23768.8	152300
16484.4	7804.4	10.3	11.6	23671.7	152310
16159.4	7671.1	10.2	10.3	23683.7	152320
16304.3	7796.2	10.0	11.6	23785.7	152330
16587.0	7915.8	10.1	11.3	23743.1	152340
16372.7	7696.1	10.1	12.1	23760.8	152350
16216.2	7684.0	10.3	11.8	23783.6	152400
16031.3	7558.5	10.3	11.7	23712.1	152410
16050.6	7611.4	10.1	11.8	23690.7	152420
16163.9	7666.3	10.2	11.5	23760.0	152430
16725.8	7892.5	10.1	12.0	23781.2	152440
16328.3	7729.7	10.0	11.7	23735.5	152450
16453.5	7692.3	10.1	11.9	23778.3	152500
16747.4	7937.7	10.0	11.4	23703.4	152510
16336.2	7852.5	9.9	11.8	23685.7	152520
16849.7	7969.9	10.0	12.0	23785.7	152530
16849.7	7821.5	10.0	11.7	23735.4	152540
16468.0	7971.7	10.1	12.0	23790.4	152550
16592.6	7777.1	10.4	12.2	23802.8	152600
16094.6	7569.2	10.1	11.9	23807.9	152610
15924.8	7796.4	10.2	11.7	23696.3	152620
15724.5	7567.8	10.1	11.9	23743.5	152630
16167.1	7732.9	10.1	11.4	23744.7	152640
16556.5	7754.5	10.1	11.4	23690.5	152650
16169.3	7694.5	9.9	11.8	23738.1	152700
16275.2	7766.4	10.1	12.1	23749.1	152710
16369.7	7878.1	10.0	11.5	23761.0	152720
16887.0	8224.6	10.2	11.4	23687.6	152730
16400.3	7868.3	10.3	11.5	23678.0	152740
15853.3	7612.9	10.2	10.0	23562.2	152750
16356.7	7789.3	10.2	12.3	23715.6	152800
15813.1	7429.2	10.3	12.0	23819.3	152810
16256.1	7883.3	10.1	11.3	23683.1	152820
16147.7	7641.2	10.2	10.5	23590.4	152830
16111.9	7710.7	10.2	10.9	23632.2	152840
16273.2	7808.5	10.0	10.7	23556.2	152850

15955.3	7748.8	10.3	11.1	23677.7	152900
16226.7	7681.6	10.1	11.0	23588.7	152910
16062.8	7616.8	10.2	10.4	23568.2	152920
16131.4	7590.0	10.3	11.2	23641.0	152930
16258.7	7625.8	10.1	10.3	23602.2	152940
16006.4	7636.2	10.1	10.9	23643.2	152950
15699.6	7457.9	10.2	8.6	23400.8	153000
15907.8	7567.8	10.1	10.8	23576.1	153010
16327.7	7719.9	10.3	11.2	23664.8	153020
16270.4	7674.6	10.2	10.8	23591.0	153030
16271.9	7978.6	10.1	11.9	23692.6	153040
16416.5	7814.7	10.3	11.8	23731.2	153050
16340.2	7942.2	10.2	11.8	23679.7	153100
16686.9	8023.9	10.2	12.2	23784.9	153110
16161.9	7694.8	10.2	11.7	23682.3	153120
16257.5	7704.5	10.2	11.2	23672.2	153130
15803.2	7720.7	10.2	12.4	23713.1	153140
16064.7	7892.2	10.2	11.8	23640.4	153150
16231.4	7808.2	10.3	12.2	23789.7	153200
15638.7	7535.5	10.3	11.9	23775.2	153210
16559.2	7998.2	10.3	11.9	23695.5	153220
15862.0	7734.2	10.3	12.0	23780.9	153230
16548.9	8048.7	10.1	12.4	23793.6	153240
16735.7	8152.3	10.1	11.9	23731.7	153250
16350.5	7862.4	10.2	11.6	23689.5	153300
16778.4	8008.6	10.4	11.4	23680.3	153310
16060.7	7818.2	10.3	10.2	23565.5	153320
16280.3	7867.1	10.3	11.5	23746.9	153330
15654.2	7514.0	10.3	12.0	23722.5	153340
15899.2	7644.8	10.3	10.5	23636.2	153350
15910.8	7611.0	10.2	11.9	23730.6	153400
15404.7	7356.2	10.2	11.2	23659.4	153410
16155.8	7620.0	10.3	11.2	23685.8	153420
16441.9	7913.1	10.2	11.6	23699.6	153430
16174.1	7555.8	10.3	11.4	23611.8	153440
15686.7	7613.9	10.2	10.8	23578.9	153450
16717.0	7937.7	10.2	11.3	23613.0	153500
16412.3	7735.2	10.1	11.5	23638.2	153510
16691.5	7875.6	10.3	12.1	23701.1	153520
16191.8	7561.2	10.2	12.5	23759.7	153530
16371.7	7820.6	10.3	12.8	23815.2	153540
16148.7	7671.1	10.3	12.4	23764.8	153550
16057.9	7773.3	10.2	12.6	23786.2	153600
16086.5	7649.5	10.2	13.0	23820.0	153610
15992.5	7715.3	10.2	12.7	23754.5	153620
15767.5	7526.0	10.2	13.1	23834.9	153630
16078.5	7853.9	10.3	12.8	23824.3	153640
15798.4	7649.3	10.3	12.2	23817.3	153650
15804.6	7664.6	10.4	12.3	23770.3	153700
16329.1	7903.6	10.3	12.2	23794.0	153710
16513.8	7733.1	10.3	12.0	23740.1	153720
16432.8	7833.4	10.2	12.2	23746.2	153730
16589.6	7917.7	10.3	12.0	23705.0	153740
16250.4	7737.5	10.4	12.4	23782.2	153750
16807.4	8053.0	10.2	12.5	23761.1	153800
16138.7	7604.2	10.2	12.5	23728.3	153810
15966.3	7599.6	10.1	12.2	23688.3	153820
15777.6	7593.2	10.2	12.4	23732.1	153830
16068.2	7939.6	10.4	13.1	23839.6	153840

16457.0	7984.0	10.3	12.3	23735.3	153850
16097.2	7745.1	10.4	12.4	23805.5	153900
16493.0	7961.4	10.3	12.1	23787.9	153910
16268.7	7663.7	10.2	12.0	23739.5	153920
16712.6	7814.7	10.4	11.2	23738.3	153930
16442.4	7526.2	10.3	10.7	23595.5	153940
16401.7	7806.9	10.3	10.3	23532.6	153950
16530.5	7636.5	10.3	11.2	23648.0	154000
16292.8	7665.2	10.2	11.7	23679.9	154010
16528.6	7825.5	10.2	11.9	23675.2	154020
15830.5	7448.5	10.1	12.1	23714.6	154030
16477.2	7931.3	10.0	12.2	23721.9	154040
16456.9	7714.1	10.3	10.9	23641.8	154050
16611.1	7890.7	10.2	12.5	23714.0	154100
16717.3	7980.3	10.3	12.5	23841.2	154110
16729.1	7860.4	10.2	12.2	23770.0	154120
16762.6	8025.8	10.2	12.8	23788.7	154130
15936.7	7549.4	10.2	12.8	23800.1	154140
16467.8	7814.6	10.3	12.1	23686.7	154150
15954.2	7841.4	10.2	13.2	23859.2	154200
16313.6	7784.0	10.3	12.3	23726.4	154210
16018.1	7693.0	10.2	12.8	23808.6	154220
16353.1	7813.7	10.3	12.6	23792.1	154230
15882.8	7513.3	10.3	12.8	23790.0	154240
16347.3	7839.3	10.1	12.5	23785.1	154250
16841.2	7940.7	10.2	13.2	23815.8	154300
16495.9	7990.7	10.3	13.2	23830.4	154310
16803.3	8098.0	10.1	13.3	23829.0	154320
16427.2	7742.3	10.3	12.9	23801.6	154330
16597.6	8003.8	10.2	12.7	23820.9	154340
15926.7	7629.3	10.4	12.8	23809.8	154350
16742.6	7883.8	10.4	12.0	23758.7	154400
16551.4	7936.8	10.4	12.2	23753.8	154410
16118.7	7835.5	10.4	12.9	23825.6	154420
16313.3	7748.3	10.3	12.8	23784.7	154430
16261.8	7776.5	10.5	12.2	23762.8	154440
16752.8	7938.1	10.2	12.2	23745.0	154450
15862.7	7586.0	10.3	11.8	23717.3	154500
16874.4	8055.0	10.4	11.7	23675.7	154510
16038.0	7830.1	10.5	11.7	23722.0	154520
16500.6	7710.5	10.3	11.2	23649.9	154530
16251.4	7846.7	10.3	12.3	23720.3	154540
15793.7	7408.1	10.1	12.1	23684.3	154550
16022.3	7703.3	10.2	12.4	23749.9	154600
16283.3	7938.0	10.1	12.3	23708.0	154610
16403.1	7972.9	10.1	12.4	23711.9	154620
16179.4	7868.4	10.4	12.3	23735.6	154630
16170.7	7793.0	10.2	12.1	23696.7	154640
16569.5	7927.7	10.3	12.3	23708.7	154650
15835.8	7697.9	10.2	13.3	23855.5	154700
16507.3	8075.0	10.1	13.3	23776.6	154710
15978.5	7623.6	10.3	12.7	23740.1	154720
16448.4	7851.0	10.3	12.6	23764.7	154730
16008.1	7742.9	10.4	12.1	23733.8	154740
16103.2	7661.5	10.2	12.8	23740.2	154750
16264.4	7861.7	10.3	12.4	23789.1	154800
15767.6	7534.0	10.3	12.8	23812.6	154810
16253.0	8089.1	10.5	12.5	23789.4	154820
16375.2	7932.0	10.4	12.7	23809.0	154830

16300.2	7863.4	10.5	12.1	23744.2	154840
16428.7	7966.0	10.2	11.8	23689.7	154850
17124.0	8268.8	10.2	12.1	23722.4	154900
16223.8	7820.1	10.3	12.6	23823.9	154910
15802.5	7622.7	10.2	12.3	23769.2	154920
15982.8	7506.2	10.3	12.3	23816.6	154930
15961.7	7643.1	10.3	11.9	23651.1	154940
16194.3	7671.3	10.2	11.5	23685.0	154950
16206.4	7629.4	10.2	11.7	23729.1	155000
16406.8	7785.8	10.4	11.7	23694.6	155010
16407.9	7930.8	10.4	10.6	23581.2	155020
16685.8	7965.2	10.2	11.8	23679.6	155030

Table F-5

Data from the first B test

Barometric Pres mBar	Evap Static Pres in/H2O	Supply Tank Temp C	Refrig Temp Before MFM C	Refrig Temp After MFM C	Evap Exit Drybulb C	Refrig Temp Comp In C	Refrig Temp Cond Out C	Refrig Temp Comp In C	Refrig Temp Evap In C	Refrig Temp Evap Out C	Indoor Temp C	Evap Nozzle Temp C
1001.4	0.152	14.73	33.51	33.42	15.26	14.93	33.82	66.01	33.09	14.16	26.71	16.47
1001.9	0.133	14.74	33.59	33.46	15.24	14.91	33.83	65.96	32.98	14.17	26.66	16.57
1001.3	0.155	14.81	33.53	33.45	15.26	14.88	33.75	65.92	33.01	14.25	26.70	16.57
1001.0	0.140	14.45	33.56	33.44	15.18	14.90	33.82	66.00	33.00	14.04	26.68	16.56
1001.3	0.164	14.58	33.48	33.45	15.14	14.86	33.74	65.99	32.98	14.29	26.73	16.59
1001.4	0.153	14.69	33.49	33.41	15.23	14.88	33.80	65.97	32.97	14.25	26.64	16.53
1001.3	0.153	14.69	33.53	33.46	15.22	14.83	33.80	66.02	32.91	14.06	26.65	16.51
1001.3	0.137	14.60	33.51	33.44	15.21	14.84	33.80	66.00	32.94	13.94	26.67	16.53
1001.3	0.139	14.63	33.54	33.47	15.23	14.79	33.76	66.00	32.98	13.81	26.73	16.51
1001.4	0.155	14.64	33.57	33.42	15.20	14.71	33.83	65.96	32.96	13.76	26.70	16.52
1001.4	0.110	14.55	33.48	33.41	15.20	14.72	33.78	65.94	32.95	13.67	26.73	16.51
1001.3	0.141	14.65	33.47	33.48	15.17	14.72	33.79	65.94	32.99	13.90	26.77	16.51
1001.3	0.119	14.49	33.46	33.42	15.20	14.70	33.78	65.97	32.97	13.82	26.67	16.48
1001.1	0.141	14.42	33.48	33.42	15.16	14.70	33.79	65.98	32.94	13.76	26.76	16.53
1001.2	0.130	14.64	33.56	33.48	15.18	14.64	33.86	66.01	32.99	13.54	26.64	16.42
1001.4	0.133	14.22	33.61	33.50	15.21	14.60	33.88	66.02	32.98	13.30	26.69	16.47
1001.3	0.121	14.66	33.63	33.52	15.17	14.56	33.90	65.95	32.88	13.55	26.71	16.52
1001.3	0.124	14.64	33.65	33.60	15.22	14.50	33.90	65.91	33.00	13.44	26.69	16.48
1001.3	0.139	14.30	33.60	33.51	15.21	14.45	33.88	65.91	33.02	13.66	26.67	16.49
1001.3	0.123	14.71	33.63	33.56	15.18	14.48	33.97	65.89	33.06	13.82	26.58	16.53
1001.1	0.142	14.61	33.68	33.54	15.21	14.43	33.93	65.89	33.07	13.45	26.62	16.53
1001.3	0.141	14.51	33.72	33.64	15.19	14.40	33.99	65.93	33.06	12.96	26.66	16.47
1001.3	0.138	14.57	33.74	33.59	15.21	14.45	34.03	65.87	33.09	13.53	26.70	16.47
1001.3	0.125	14.54	33.71	33.60	15.18	14.37	34.01	65.87	33.11	13.66	26.61	16.53
1002.0	0.136	14.57	33.77	33.69	15.21	14.38	33.99	65.89	33.14	13.79	26.75	16.59
1001.3	0.084	14.72	33.72	33.72	15.23	14.43	34.00	65.96	33.13	13.65	26.70	16.53
1001.2	0.168	14.68	33.77	33.61	15.26	14.42	33.96	65.96	33.14	13.57	26.65	16.47
1000.8	0.144	14.59	33.76	33.65	15.24	14.45	34.07	65.98	33.13	13.46	26.61	16.59
1001.3	0.147	14.62	33.80	33.67	15.20	14.47	34.04	65.97	33.11	13.62	26.65	16.54
1001.3	0.157	14.68	33.84	33.70	15.19	14.49	34.08	66.03	33.17	13.57	26.52	16.56
1001.3	0.139	14.45	33.83	33.74	15.18	14.44	34.08	66.00	33.21	13.14	26.61	16.49
1001.2	0.132	14.50	33.85	33.69	15.21	14.41	34.11	65.96	33.22	12.92	26.66	16.53
1001.2	0.143	14.41	33.86	33.74	15.19	14.38	34.10	66.04	33.20	13.00	26.75	16.52
1001.4	0.121	14.40	33.79	33.77	15.20	14.36	34.12	66.04	33.25	13.81	26.70	16.53
1001.2	0.120	14.67	33.83	33.73	15.24	14.43	34.09	66.10	33.18	13.98	26.67	16.57
1001.3	0.131	14.65	33.84	33.81	15.25	14.46	34.08	66.16	33.22	14.09	26.67	16.50
1001.3	0.116	14.59	33.80	33.68	15.20	14.54	34.06	66.23	33.24	14.16	26.69	16.50
1001.3	0.152	14.68	33.85	33.79	15.18	14.60	34.09	66.27	33.23	14.18	26.72	16.48
1001.3	0.159	14.61	33.87	33.78	15.19	14.67	34.13	66.28	33.26	14.21	26.69	16.46
1001.1	0.177	14.54	33.82	33.76	15.27	14.68	34.12	66.29	33.30	14.06	26.60	16.43
1001.3	0.111	14.55	33.86	33.77	15.17	14.75	34.13	66.29	33.24	14.36	26.64	16.39
1001.3	0.156	14.62	33.87	33.78	15.25	14.74	34.12	66.23	33.31	14.26	26.66	16.50
1001.2	0.134	14.60	33.83	33.78	15.26	14.81	34.16	66.35	33.25	13.91	26.65	16.53
1001.6	0.142	14.41	33.88	33.83	15.25	14.81	34.15	66.39	33.23	13.97	26.70	16.52
1001.3	0.127	14.58	33.88	33.77	15.21	14.78	34.17	66.34	33.27	13.65	26.66	16.46
1001.3	0.110	14.46	33.88	33.75	15.22	14.76	34.19	66.42	33.27	13.36	26.65	16.52
1001.3	0.117	14.50	33.95	33.79	15.25	14.62	34.20	66.42	33.32	13.79	26.69	16.51
1001.2	0.145	14.71	33.90	33.75	15.21	14.67	34.18	66.42	33.33	13.96	26.66	16.53
1001.3	0.138	14.62	33.85	33.79	15.22	14.66	34.14	66.41	33.32	13.81	26.66	16.47
1001.1	0.116	14.56	33.91	33.85	15.23	14.66	34.19	66.45	33.29	14.14	26.64	16.57

1001.3	0.145	14.67	33.89	33.83	15.25	14.72	34.20	66.45	33.35	14.16	26.66	16.50
1001.3	0.128	14.39	33.97	33.86	15.24	14.74	34.19	66.47	33.31	13.91	26.74	16.49
1001.1	0.161	14.61	34.01	33.84	15.20	14.76	34.21	66.46	33.32	14.06	26.74	16.56
1001.2	0.141	14.52	33.89	33.86	15.20	14.72	34.15	66.43	33.33	14.29	26.67	16.48
1001.2	0.151	14.34	33.90	33.86	15.23	14.82	34.13	66.47	33.36	14.27	26.73	16.46
1001.3	0.127	14.25	33.84	33.73	15.27	14.80	34.11	66.41	33.30	14.28	26.74	16.52
1001.2	0.167	14.47	33.82	33.78	15.26	14.84	34.10	66.42	33.39	14.16	26.63	16.53
1001.1	0.121	14.36	33.81	33.82	15.30	14.85	34.07	66.48	33.36	14.40	26.73	16.54
1001.4	0.171	14.23	33.80	33.73	15.24	14.93	34.07	66.47	33.31	14.53	26.60	16.53
1001.8	0.136	14.39	33.72	33.68	15.25	14.94	34.02	66.50	33.26	14.37	26.60	16.55
1001.3	0.155	14.27	33.70	33.70	15.29	14.99	34.04	66.48	33.27	14.43	26.60	16.49
1001.0	0.152	14.08	33.76	33.68	15.27	14.98	33.99	66.38	33.26	14.40	26.67	16.47
1001.2	0.144	14.45	33.64	33.63	15.28	15.06	33.93	66.39	33.25	14.34	26.64	16.50
1001.0	0.148	14.28	33.64	33.60	15.29	15.04	33.94	66.42	33.18	14.43	26.60	16.48
1001.3	0.119	14.35	33.70	33.58	15.24	15.05	33.94	66.36	33.19	14.02	26.65	16.46
1001.3	0.146	14.39	33.73	33.63	15.23	14.96	34.00	66.35	33.19	13.99	26.60	16.49
1001.3	0.151	14.35	33.71	33.65	15.29	14.90	33.96	66.32	33.13	13.77	26.62	16.54
1001.3	0.158	14.20	33.65	33.60	15.23	14.88	33.98	66.24	33.13	13.93	26.62	16.53
1001.1	0.135	14.16	33.65	33.60	15.28	14.82	33.91	66.21	33.10	13.96	26.62	16.53
1001.2	0.093	14.38	33.64	33.55	15.20	14.84	33.88	66.21	33.17	13.91	26.65	16.48
1001.2	0.135	14.09	33.63	33.53	15.28	14.76	33.85	66.17	33.11	13.87	26.70	16.61
1001.1	0.180	14.32	33.67	33.54	15.27	14.80	33.85	66.11	33.13	14.10	26.65	16.57
1001.1	0.166	14.32	33.54	33.53	15.29	14.75	33.88	66.14	33.06	14.18	26.64	16.57
1002.1	0.162	14.37	33.54	33.45	15.26	14.79	33.79	66.08	33.08	14.25	26.72	16.54
1001.4	0.153	14.29	33.60	33.48	15.27	14.80	33.80	66.13	33.01	14.51	26.64	16.59
1001.2	0.134	14.37	33.61	33.49	15.24	14.85	33.83	66.13	33.08	14.18	26.68	16.56
1001.1	0.146	14.14	33.55	33.46	15.26	14.86	33.86	66.05	33.07	14.10	26.64	16.53
1001.2	0.158	14.44	33.58	33.50	15.24	14.92	33.85	66.11	32.98	13.92	26.66	16.51
1000.9	0.153	14.31	33.57	33.51	15.26	14.88	33.86	66.05	33.03	13.99	26.75	16.56
1001.1	0.157	14.03	33.57	33.51	15.26	14.89	33.85	66.03	32.97	14.01	26.70	16.51
1001.2	0.136	14.17	33.57	33.52	15.30	14.87	33.81	66.03	33.06	13.88	26.65	16.58
1001.2	0.125	14.37	33.56	33.49	15.27	14.84	33.86	66.02	33.06	14.31	26.71	16.54
1001.1	0.161	14.23	33.60	33.49	15.34	14.81	33.84	65.99	33.02	14.40	26.66	16.52
1001.1	0.118	14.44	33.53	33.47	15.28	14.83	33.81	66.01	33.00	14.42	26.70	16.53
1001.1	0.173	14.45	33.57	33.45	15.33	14.84	33.77	65.99	33.02	14.15	26.60	16.59
1001.1	0.146	14.07	33.45	33.38	15.28	14.86	33.72	66.02	33.00	14.33	26.64	16.56
1001.2	0.116	14.15	33.54	33.41	15.30	14.90	33.72	66.04	32.98	14.24	26.64	16.54
1001.2	0.168	14.40	33.50	33.43	15.28	14.84	33.74	65.94	33.02	14.24	26.65	16.64
1001.3	0.124	14.20	33.50	33.40	15.29	14.90	33.70	65.98	32.95	14.25	26.71	16.50
1001.1	0.157	14.36	33.48	33.39	15.31	14.94	33.74	66.06	32.98	14.19	26.67	16.52
1001.2	0.158	14.16	33.51	33.43	15.29	14.93	33.81	65.99	32.91	13.85	26.72	16.51
1001.1	0.141	14.21	33.58	33.45	15.32	14.86	33.84	65.97	32.95	14.00	26.66	16.55
1001.0	0.138	14.13	33.62	33.43	15.26	14.86	33.88	66.01	32.95	13.94	26.65	16.60
1001.1	0.142	14.18	33.61	33.46	15.32	14.81	33.91	66.00	32.97	13.72	26.70	16.57
1001.1	0.166	14.22	33.59	33.57	15.29	14.79	33.88	65.98	32.97	13.46	26.72	16.59
1000.7	0.138	14.35	33.61	33.54	15.26	14.69	33.90	65.97	33.07	13.58	26.60	16.56
1001.2	0.127	14.11	33.62	33.60	15.27	14.59	33.97	66.01	33.07	13.26	26.59	16.48
1001.1	0.122	14.40	33.66	33.50	15.27	14.55	33.97	65.98	33.01	13.51	26.64	16.57
1001.1	0.119	13.94	33.73	33.60	15.25	14.52	33.94	65.95	33.05	13.63	26.60	16.57
1001.2	0.093	14.33	33.71	33.62	15.27	14.50	33.95	65.99	33.12	13.35	26.67	16.55
1001.1	0.164	14.36	33.73	33.61	15.26	14.43	34.00	65.96	33.12	13.45	26.68	16.49
1001.1	0.138	14.18	33.73	33.64	15.27	14.43	34.03	65.97	33.08	13.35	26.66	16.61
1001.1	0.133	14.21	33.76	33.65	15.26	14.39	34.05	65.97	33.10	13.42	26.64	16.60
1001.1	0.125	14.07	33.79	33.62	15.29	14.42	34.07	66.00	33.17	13.79	26.60	16.56
1001.1	0.169	14.20	33.68	33.69	15.28	14.43	33.99	66.02	33.14	14.13	26.70	16.60
1001.1	0.145	14.30	33.73	33.65	15.26	14.53	33.96	66.06	33.20	14.52	26.63	16.53
1001.1	0.145	14.12	33.63	33.57	15.30	14.66	33.95	66.14	33.20	14.96	26.67	16.56
1001.5	0.119	14.27	33.58	33.54	15.32	14.81	33.86	66.19	33.15	15.06	26.58	16.56
1001.1	0.140	14.21	33.61	33.51	15.31	14.96	33.76	66.28	33.21	15.13	26.64	16.58

1001.1	0.148	14.20	33.56	33.54	15.31	15.12	33.82	66.23	33.12	15.08	26.62	16.55
1001.1	0.127	14.12	33.58	33.49	15.30	15.19	33.88	66.34	33.09	15.09	26.55	16.55
1001.1	0.128	14.21	33.60	33.57	15.35	15.34	33.89	66.32	33.11	14.88	26.64	16.63
1001.1	0.157	14.14	33.68	33.58	15.30	15.34	34.00	66.35	33.02	14.51	26.59	16.59
1001.2	0.165	14.30	33.76	33.64	15.30	15.34	34.06	66.36	33.06	14.02	26.63	16.52
1001.1	0.157	14.33	33.85	33.66	15.26	15.23	34.11	66.33	33.12	13.66	26.65	16.58
1001.3	0.155	14.06	33.86	33.71	15.29	15.07	34.15	66.28	33.07	13.45	26.66	16.63
1001.2	0.136	14.11	33.94	33.81	15.29	14.93	34.20	66.29	33.14	13.36	26.66	16.55
1000.6	0.134	14.34	33.99	33.80	15.28	14.79	34.23	66.23	33.17	12.62	26.59	16.57
1001.1	0.146	14.26	33.94	33.86	15.27	14.65	34.22	66.22	33.23	13.16	26.71	16.58
1001.1	0.152	14.08	33.98	33.83	15.30	14.47	34.24	66.26	33.28	13.49	26.69	16.51
1001.1	0.136	13.89	33.90	33.85	15.29	14.47	34.16	66.21	33.35	14.04	26.62	16.59
1001.1	0.094	14.23	33.81	33.75	15.32	14.47	34.09	66.32	33.36	14.46	26.68	16.64
1001.5	0.146	13.83	33.75	33.75	15.30	14.57	34.05	66.33	33.30	14.71	26.63	16.60
1001.1	0.145	14.12	33.76	33.71	15.30	14.70	33.98	66.38	33.34	14.96	26.66	16.64
1001.1	0.158	14.21	33.74	33.72	15.26	14.87	33.99	66.42	33.32	14.78	26.72	16.59
1001.3	0.137	13.91	33.78	33.65	15.28	14.97	33.98	66.47	33.26	14.91	26.61	16.55
1001.1	0.108	13.80	33.68	33.62	15.29	15.07	33.98	66.46	33.22	14.97	26.64	16.58
1001.0	0.141	14.18	33.69	33.73	15.29	15.21	34.04	66.54	33.23	14.87	26.66	16.61
1001.2	0.143	14.10	33.81	33.70	15.28	15.31	34.11	66.57	33.17	14.58	26.57	16.58
1001.5	0.163	14.07	33.90	33.77	15.30	15.21	34.19	66.52	33.15	14.04	26.66	16.62
1001.1	0.125	14.19	33.92	33.87	15.34	15.09	34.23	66.48	33.18	13.65	26.62	16.56
1001.1	0.133	14.06	34.00	33.85	15.31	15.07	34.22	66.51	33.27	13.96	26.65	16.52
1001.2	0.143	14.20	33.98	33.89	15.28	14.95	34.26	66.45	33.27	13.65	26.67	16.62
1001.1	0.170	14.27	34.03	33.93	15.28	14.86	34.27	66.42	33.32	13.81	26.68	16.66
1001.1	0.132	14.25	34.01	33.89	15.34	14.80	34.27	66.42	33.31	13.66	26.63	16.62
1001.1	0.152	14.03	33.95	33.91	15.30	14.76	34.24	66.39	33.39	13.60	26.63	16.62
1001.1	0.117	14.18	33.98	33.87	15.32	14.66	34.22	66.40	33.40	13.82	26.63	16.61
1001.1	0.145	14.15	33.93	33.91	15.29	14.63	34.16	66.39	33.41	14.16	26.67	16.65
1001.1	0.154	14.23	33.92	33.82	15.33	14.71	34.19	66.36	33.41	14.35	26.61	16.65
1001.2	0.126	14.11	33.81	33.78	15.38	14.71	34.12	66.33	33.37	14.27	26.64	16.50
1001.3	0.152	14.18	33.87	33.82	15.32	14.76	34.10	66.35	33.40	14.22	26.59	16.65
1001.1	0.164	14.06	33.80	33.88	15.33	14.77	34.06	66.35	33.34	14.47	26.61	16.61
1001.2	0.171	13.95	33.80	33.75	15.32	14.82	34.02	66.30	33.34	14.53	26.63	16.58
1001.1	0.171	14.29	33.74	33.72	15.37	14.86	34.01	66.34	33.29	14.67	26.66	16.65
1001.2	0.118	14.20	33.72	33.63	15.31	14.96	33.90	66.34	33.25	14.85	26.63	16.57
1001.1	0.128	14.11	33.68	33.63	15.34	15.08	33.88	66.36	33.27	14.76	26.60	16.70
1001.1	0.124	14.02	33.67	33.60	15.32	15.14	33.92	66.34	33.17	14.72	26.62	16.62
1001.1	0.141	14.06	33.60	33.57	15.35	15.14	33.85	66.32	33.19	14.72	26.64	16.59
1001.2	0.113	14.09	33.56	33.48	15.37	15.22	33.80	66.34	33.15	14.82	26.64	16.55
1001.1	0.154	13.87	33.54	33.53	15.30	15.25	33.83	66.36	33.10	14.63	26.65	16.63
1001.3	0.143	13.95	33.54	33.51	15.31	15.33	33.85	66.34	33.07	14.82	26.58	16.59
1001.0	0.134	14.24	33.54	33.49	15.33	15.27	33.81	66.27	33.07	14.50	26.65	16.58
1001.3	0.140	14.01	33.54	33.44	15.26	15.25	33.83	66.27	33.03	14.51	26.66	16.62
1001.1	0.130	13.99	33.63	33.55	15.29	15.21	33.82	66.22	33.03	13.81	26.65	16.62
1001.1	0.123	13.99	33.63	33.51	15.33	15.10	33.89	66.21	33.00	14.07	26.66	16.57
1001.3	0.105	13.84	33.58	33.54	15.27	15.05	33.77	66.20	33.03	13.96	26.57	16.60
1001.2	0.182	14.07	33.57	33.49	15.30	14.98	33.81	66.12	32.91	13.98	26.62	16.56
1001.0	0.162	14.11	33.53	33.49	15.28	14.95	33.79	66.09	33.05	14.20	26.61	16.58
1001.1	0.174	13.90	33.47	33.46	15.33	14.89	33.74	66.10	33.06	14.11	26.61	16.62
1001.2	0.151	14.11	33.47	33.46	15.31	14.85	33.74	66.05	33.03	14.39	26.59	16.63
1001.3	0.135	14.20	33.43	33.42	15.36	14.90	33.70	66.04	33.00	14.35	26.61	16.61
1001.1	0.113	13.90	33.46	33.37	15.30	14.94	33.81	65.99	33.03	14.35	26.67	16.62
1001.0	0.127	14.22	33.54	33.36	15.33	14.95	33.74	65.94	33.00	14.51	26.67	16.57
1001.2	0.159	14.25	33.45	33.36	15.35	15.01	33.70	65.95	32.97	14.45	26.61	16.59
1001.6	0.135	14.17	33.40	33.36	15.34	15.05	33.70	66.02	32.91	14.61	26.64	16.67
1001.2	0.144	14.08	33.47	33.42	15.31	15.04	33.72	66.01	32.91	14.50	26.68	16.62
1001.2	0.166	14.15	33.47	33.44	15.33	15.08	33.75	66.00	32.97	14.11	26.61	16.59
1001.2	0.139	14.18	33.58	33.46	15.34	15.04	33.82	66.00	32.94	14.07	26.67	16.62

1000.9	0.165	14.04	33.64	33.48	15.30	14.98	33.88	65.98	32.89	13.77	26.63	16.56
1001.1	0.150	14.22	33.62	33.58	15.32	14.90	33.92	65.94	32.97	13.74	26.55	16.66
1001.6	0.146	14.22	33.72	33.63	15.30	14.84	34.02	65.97	32.99	13.34	26.64	16.58
1001.1	0.137	14.10	33.73	33.56	15.34	14.68	34.02	65.92	33.00	12.73	26.69	16.58
1001.1	0.131	13.98	33.77	33.66	15.29	14.60	34.01	65.88	33.06	13.25	26.66	16.54
1001.1	0.134	14.03	33.78	33.63	15.28	14.53	34.03	65.90	33.13	13.25	26.66	16.60
1001.2	0.126	14.03	33.78	33.70	15.30	14.43	34.03	65.89	33.09	13.68	26.73	16.59
1001.1	0.138	14.17	33.73	33.71	15.36	14.46	33.99	65.95	33.19	14.00	26.65	16.53
1001.1	0.150	13.99	33.65	33.64	15.33	14.45	33.88	65.90	33.18	14.30	26.64	16.60
1001.1	0.144	14.05	33.63	33.57	15.29	14.54	33.93	65.97	33.17	14.36	26.68	16.61
1001.0	0.134	14.01	33.61	33.53	15.26	14.62	33.88	66.02	33.19	14.55	26.69	16.61
1001.1	0.137	14.05	33.58	33.55	15.35	14.78	33.84	66.00	33.13	14.76	26.69	16.60

Table F-5. Continued

Indoor Wetbulb C	Evap		Outdoor Temp C	Cond Power kW	Cond Voltage V	Evap Chamber Pres in/H2O	Evap Diff Pres in/H2O	Evap			Evap Power kW	Refrig Press Before MFM psig	Refrig Press After MFM psig
	Exit Wetbulb C	Outdoor Wetbulb C						Static Pres in/H2O	MFM Refrig lb/min	Evap Voltage V			
19.29	13.21	17.79	27.74	1.63	241.53	0.168	0.317	0.165	5.64	243.63	0.14	319.39	321.03
19.28	13.21	17.78	27.72	1.62	245.88	0.172	0.320	0.178	5.64	247.42	0.14	320.47	321.54
19.28	13.20	17.78	27.72	1.63	242.56	0.171	0.334	0.172	5.63	243.98	0.14	320.32	323.13
19.28	13.21	17.78	27.71	1.62	246.68	0.168	0.315	0.183	5.60	246.98	0.14	321.19	321.95
19.28	13.21	17.78	27.70	1.63	242.71	0.167	0.296	0.183	5.64	248.24	0.14	319.96	321.80
19.28	13.21	17.78	27.70	1.64	248.24	0.172	0.290	0.190	5.64	241.91	0.14	320.21	323.08
19.28	13.21	17.78	27.70	1.64	241.50	0.160	0.305	0.169	5.62	243.37	0.13	320.06	320.88
19.27	13.21	17.78	27.69	1.64	244.68	0.177	0.306	0.173	5.64	241.66	0.14	319.80	321.60
19.27	13.21	17.78	27.68	1.64	241.27	0.171	0.298	0.164	5.65	245.96	0.14	320.73	321.75
19.27	13.20	17.78	27.68	1.65	246.25	0.172	0.327	0.171	5.61	237.48	0.14	319.19	321.19
19.27	13.21	17.78	27.68	1.64	240.51	0.171	0.327	0.170	5.63	245.40	0.13	319.39	321.60
19.27	13.20	17.78	27.67	1.63	249.39	0.165	0.329	0.169	5.65	242.34	0.14	319.65	321.85
19.27	13.20	17.78	27.67	1.63	246.84	0.171	0.312	0.165	5.66	244.17	0.14	318.93	322.11
19.26	13.20	17.78	27.67	1.64	245.50	0.167	0.305	0.168	5.65	245.09	0.14	321.24	321.75
19.25	13.20	17.78	27.67	1.64	242.96	0.160	0.304	0.168	5.64	244.24	0.14	320.06	320.77
19.25	13.20	17.79	27.67	1.64	245.51	0.169	0.285	0.173	5.64	242.83	0.14	318.16	321.75
19.25	13.19	17.79	27.67	1.64	243.16	0.169	0.295	0.172	5.62	244.98	0.14	320.26	321.54
19.26	13.19	17.79	27.67	1.64	241.79	0.163	0.276	0.170	5.63	244.20	0.13	320.42	322.37
19.26	13.19	17.79	27.68	1.64	248.90	0.177	0.308	0.178	5.61	242.29	0.14	320.42	323.34
19.27	13.20	17.80	27.68	1.64	244.70	0.170	0.308	0.160	5.66	244.00	0.14	320.73	322.37
19.27	13.20	17.80	27.68	1.64	244.41	0.167	0.328	0.169	5.65	244.60	0.14	322.11	322.01
19.27	13.20	17.80	27.69	1.64	242.97	0.172	0.329	0.170	5.62	243.23	0.14	321.03	322.52
19.28	13.21	17.81	27.69	1.65	246.24	0.172	0.332	0.163	5.62	242.08	0.14	321.03	322.26
19.28	13.21	17.81	27.69	1.63	245.78	0.174	0.313	0.182	5.62	244.69	0.14	320.47	322.21
19.28	13.21	17.81	27.70	1.65	243.48	0.164	0.298	0.171	5.66	246.06	0.13	322.21	323.13
19.28	13.21	17.82	27.71	1.64	243.22	0.169	0.294	0.175	5.62	245.83	0.14	320.06	322.06
19.28	13.22	17.82	27.72	1.64	244.51	0.169	0.304	0.174	5.64	245.40	0.14	320.26	323.44
19.28	13.22	17.83	27.73	1.64	245.47	0.165	0.247	0.166	5.65	245.87	0.14	324.06	323.34
19.27	13.21	17.83	27.74	1.65	244.70	0.170	0.290	0.170	5.67	243.92	0.14	322.37	324.11
19.27	13.21	17.84	27.74	1.64	245.82	0.174	0.309	0.167	5.64	244.95	0.14	320.73	322.37
19.27	13.21	17.84	27.75	1.64	240.56	0.172	0.323	0.167	5.64	246.72	0.14	322.37	323.44
19.28	13.21	17.85	27.76	1.64	242.31	0.176	0.329	0.170	5.60	246.30	0.14	320.88	323.34
19.28	13.21	17.85	27.77	1.64	246.44	0.177	0.353	0.165	5.63	244.57	0.14	322.06	324.26
19.28	13.21	17.86	27.79	1.65	246.08	0.167	0.319	0.168	5.63	244.83	0.14	322.32	324.31
19.28	13.22	17.86	27.79	1.65	246.33	0.161	0.327	0.172	5.60	246.89	0.13	322.42	324.42
19.28	13.22	17.87	27.80	1.64	242.14	0.163	0.315	0.179	5.63	242.91	0.14	324.11	324.93
19.28	13.22	17.87	27.82	1.64	246.14	0.158	0.318	0.169	5.63	244.72	0.14	321.55	322.72
19.27	13.22	17.88	27.83	1.65	246.39	0.173	0.310	0.181	5.62	242.62	0.14	323.55	323.80
19.27	13.22	17.88	27.84	1.65	247.98	0.176	0.286	0.177	5.64	245.12	0.14	323.55	325.03
19.27	13.22	17.89	27.85	1.65	246.33	0.172	0.284	0.171	5.64	248.19	0.14	323.70	324.73
19.27	13.22	17.89	27.86	1.64	242.65	0.165	0.305	0.163	5.63	243.51	0.13	323.91	323.75
19.26	13.22	17.90	27.86	1.65	247.41	0.184	0.320	0.183	5.60	245.47	0.14	323.19	324.73
19.26	13.22	17.90	27.87	1.65	249.36	0.167	0.355	0.162	5.64	242.45	0.14	322.01	324.78
19.25	13.21	17.91	27.88	1.65	245.25	0.178	0.329	0.170	5.65	243.64	0.14	323.70	325.34
19.25	13.21	17.91	27.89	1.64	244.53	0.180	0.309	0.173	5.62	244.17	0.14	323.55	324.78
19.24	13.20	17.91	27.89	1.65	247.88	0.166	0.301	0.163	5.60	240.68	0.14	324.73	324.83
19.24	13.21	17.92	27.90	1.66	243.04	0.170	0.290	0.166	5.62	244.26	0.14	323.14	325.08
19.25	13.21	17.92	27.90	1.65	245.13	0.165	0.291	0.163	5.64	244.06	0.14	324.93	325.80
19.26	13.21	17.93	27.91	1.66	239.93	0.176	0.315	0.167	5.64	245.26	0.14	324.27	325.70
19.27	13.21	17.93	27.92	1.66	244.10	0.169	0.338	0.167	5.65	245.93	0.14	323.80	324.88

19.27	13.22	17.93	27.93	1.65	246.11	0.186	0.318	0.184	5.61	247.35	0.13	324.63	325.03
19.28	13.22	17.94	27.94	1.66	241.87	0.170	0.323	0.176	5.65	245.98	0.13	323.39	324.52
19.29	13.23	17.94	27.94	1.66	242.30	0.168	0.323	0.176	5.65	245.09	0.14	324.11	324.42
19.29	13.23	17.94	27.94	1.66	242.10	0.168	0.301	0.167	5.66	246.90	0.13	324.16	325.34
19.30	13.24	17.95	27.94	1.66	243.14	0.173	0.318	0.167	5.63	245.30	0.13	322.62	324.52
19.30	13.24	17.95	27.94	1.65	245.33	0.168	0.294	0.166	5.63	243.78	0.13	322.11	323.13
19.31	13.25	17.95	27.94	1.65	245.07	0.166	0.290	0.183	5.62	243.34	0.14	323.80	324.42
19.31	13.25	17.95	27.94	1.65	244.99	0.175	0.299	0.176	5.63	244.90	0.14	322.68	325.08
19.31	13.25	17.95	27.94	1.66	243.64	0.166	0.302	0.158	5.62	242.51	0.14	323.19	323.49
19.31	13.26	17.95	27.93	1.66	251.13	0.170	0.310	0.175	5.64	246.67	0.14	322.98	323.70
19.31	13.26	17.95	27.93	1.64	238.66	0.178	0.318	0.166	5.62	246.72	0.14	322.01	323.60
19.31	13.26	17.95	27.92	1.65	242.53	0.170	0.292	0.161	5.64	245.38	0.14	321.85	323.24
19.31	13.26	17.95	27.91	1.65	246.04	0.166	0.305	0.166	5.63	245.86	0.14	321.14	323.90
19.31	13.26	17.95	27.90	1.63	248.36	0.168	0.310	0.174	5.66	242.32	0.14	321.50	323.85
19.31	13.26	17.95	27.89	1.65	246.53	0.161	0.304	0.163	5.64	242.19	0.14	322.57	322.16
19.31	13.26	17.94	27.88	1.63	242.80	0.160	0.290	0.162	5.65	246.75	0.14	321.70	323.96
19.31	13.26	17.94	27.88	1.65	239.48	0.164	0.307	0.172	5.67	245.15	0.14	321.39	322.83
19.31	13.26	17.94	27.86	1.63	245.56	0.164	0.284	0.172	5.62	244.57	0.14	321.03	322.21
19.31	13.26	17.93	27.84	1.64	246.79	0.162	0.322	0.170	5.64	247.18	0.14	321.14	321.85
19.31	13.26	17.93	27.84	1.64	249.75	0.178	0.321	0.173	5.62	245.73	0.13	320.37	322.67
19.31	13.26	17.93	27.82	1.65	239.65	0.180	0.350	0.173	5.64	243.00	0.13	320.93	322.01
19.31	13.26	17.93	27.81	1.64	242.40	0.170	0.324	0.167	5.64	244.15	0.14	320.52	322.26
19.31	13.26	17.92	27.80	1.63	243.71	0.168	0.334	0.169	5.63	244.11	0.13	321.55	321.75
19.30	13.26	17.92	27.79	1.64	246.95	0.170	0.303	0.175	5.64	244.86	0.14	319.75	321.75
19.31	13.26	17.92	27.78	1.64	248.68	0.166	0.306	0.167	5.64	244.04	0.14	320.26	322.67
19.31	13.26	17.92	27.78	1.63	249.12	0.162	0.303	0.171	5.64	244.98	0.14	320.98	321.54
19.31	13.26	17.92	27.77	1.65	241.30	0.168	0.310	0.176	5.62	245.81	0.14	321.65	321.65
19.32	13.26	17.92	27.76	1.63	243.84	0.169	0.310	0.178	5.65	246.09	0.14	319.96	320.31
19.33	13.26	17.92	27.75	1.63	243.05	0.177	0.319	0.172	5.62	245.41	0.14	320.21	322.01
19.33	13.27	17.91	27.74	1.64	246.08	0.175	0.309	0.178	5.65	244.83	0.14	320.78	321.39
19.34	13.27	17.91	27.73	1.63	250.25	0.176	0.317	0.176	5.66	244.34	0.14	320.67	322.42
19.35	13.29	17.91	27.72	1.63	247.35	0.172	0.304	0.171	5.62	241.46	0.14	321.14	322.11
19.36	13.29	17.91	27.72	1.64	245.61	0.176	0.324	0.167	5.65	245.52	0.14	320.26	322.47
19.36	13.29	17.91	27.72	1.63	249.62	0.173	0.317	0.167	5.64	245.00	0.14	320.01	322.16
19.36	13.30	17.91	27.71	1.63	242.80	0.170	0.328	0.170	5.60	244.90	0.14	319.29	320.11
19.35	13.30	17.91	27.70	1.64	246.42	0.171	0.309	0.166	5.62	247.19	0.14	320.78	323.08
19.36	13.30	17.91	27.70	1.63	245.59	0.162	0.317	0.161	5.64	246.67	0.14	320.67	321.34
19.36	13.30	17.90	27.68	1.64	242.99	0.175	0.315	0.172	5.61	246.16	0.14	319.49	320.93
19.35	13.30	17.90	27.67	1.64	242.22	0.170	0.293	0.174	5.69	245.07	0.13	318.73	321.49
19.35	13.30	17.90	27.68	1.63	246.99	0.159	0.313	0.166	5.70	245.29	0.14	320.67	322.62
19.36	13.30	17.91	27.68	1.63	246.19	0.180	0.314	0.174	5.66	245.76	0.14	318.11	322.01
19.35	13.31	17.91	27.67	1.64	244.13	0.166	0.321	0.158	5.68	246.24	0.14	320.78	322.42
19.35	13.30	17.91	27.67	1.64	251.05	0.175	0.344	0.173	5.66	243.84	0.14	319.85	321.54
19.35	13.30	17.91	27.68	1.63	245.71	0.168	0.336	0.162	5.67	245.14	0.14	321.03	321.08
19.35	13.30	17.91	27.67	1.65	237.60	0.167	0.324	0.165	5.66	246.29	0.14	320.16	322.83
19.35	13.30	17.91	27.68	1.63	247.78	0.158	0.301	0.171	5.65	244.74	0.14	321.75	322.78
19.35	13.30	17.91	27.68	1.64	249.76	0.160	0.305	0.160	5.65	243.14	0.14	321.50	322.93
19.35	13.30	17.92	27.69	1.64	244.51	0.169	0.302	0.169	5.65	244.38	0.14	320.16	322.11
19.34	13.30	17.92	27.69	1.64	246.16	0.168	0.316	0.172	5.66	245.83	0.14	321.44	321.70
19.34	13.29	17.92	27.70	1.65	248.18	0.173	0.298	0.163	5.67	247.07	0.14	321.91	321.80
19.33	13.29	17.93	27.71	1.65	241.79	0.169	0.328	0.167	5.67	247.07	0.13	321.96	323.29
19.33	13.29	17.93	27.71	1.65	246.71	0.175	0.307	0.172	5.66	246.92	0.14	322.06	323.55
19.34	13.29	17.94	27.72	1.65	244.74	0.169	0.336	0.174	5.62	244.11	0.14	322.27	323.96
19.35	13.29	17.94	27.73	1.65	242.97	0.176	0.318	0.175	5.62	244.06	0.14	321.19	322.78
19.35	13.29	17.94	27.73	1.64	244.28	0.167	0.299	0.173	5.58	246.81	0.14	322.98	324.11
19.36	13.30	17.95	27.74	1.64	242.84	0.165	0.310	0.167	5.60	246.76	0.14	320.98	322.62
19.36	13.30	17.95	27.75	1.65	244.47	0.170	0.295	0.184	5.62	241.40	0.13	322.57	323.85
19.36	13.31	17.96	27.76	1.64	244.48	0.165	0.304	0.166	5.63	244.66	0.14	322.57	324.83
19.37	13.32	17.96	27.76	1.64	247.08	0.170	0.290	0.170	5.64	244.89	0.14	322.27	324.52

19.37	13.32	17.96	27.77	1.64	242.80	0.172	0.330	0.181	5.67	242.77	0.14	322.37	323.34
19.37	13.32	17.96	27.77	1.63	245.36	0.169	0.294	0.165	5.67	244.75	0.14	320.47	321.75
19.37	13.33	17.97	27.78	1.64	249.52	0.173	0.291	0.171	5.68	242.89	0.13	321.96	323.70
19.37	13.32	17.97	27.78	1.64	242.54	0.165	0.330	0.160	5.68	245.69	0.14	322.62	323.60
19.38	13.32	17.98	27.79	1.64	242.23	0.165	0.325	0.164	5.67	246.24	0.14	322.11	323.34
19.38	13.32	17.98	27.80	1.65	244.01	0.167	0.316	0.166	5.66	243.61	0.14	322.47	324.01
19.38	13.32	17.98	27.80	1.64	248.16	0.170	0.305	0.169	5.67	242.28	0.14	321.96	324.11
19.38	13.32	17.98	27.81	1.65	246.10	0.165	0.291	0.161	5.66	245.78	0.13	321.80	323.29
19.38	13.33	17.99	27.81	1.64	240.85	0.168	0.320	0.171	5.66	245.67	0.14	322.62	323.34
19.38	13.33	17.99	27.82	1.65	243.51	0.174	0.310	0.179	5.60	244.95	0.14	324.27	324.01
19.37	13.33	18.00	27.83	1.64	249.39	0.166	0.310	0.172	5.62	242.12	0.14	322.57	323.96
19.37	13.33	18.00	27.83	1.65	246.48	0.166	0.332	0.162	5.64	243.68	0.13	323.86	324.06
19.37	13.34	18.00	27.84	1.65	249.28	0.169	0.330	0.164	5.63	245.21	0.13	322.68	324.31
19.37	13.34	18.01	27.85	1.65	243.45	0.168	0.339	0.165	5.63	244.27	0.14	323.45	324.67
19.37	13.34	18.01	27.86	1.65	249.32	0.171	0.320	0.172	5.63	243.66	0.14	324.06	325.34
19.36	13.34	18.01	27.86	1.65	245.44	0.173	0.331	0.178	5.63	244.17	0.13	322.55	324.88
19.36	13.34	18.02	27.87	1.65	241.82	0.176	0.307	0.176	5.65	246.98	0.14	324.01	324.88
19.36	13.33	18.02	27.88	1.64	240.74	0.171	0.285	0.164	5.65	245.73	0.13	323.80	326.26
19.36	13.33	18.03	27.89	1.66	249.32	0.167	0.290	0.163	5.67	245.78	0.14	323.65	325.03
19.35	13.33	18.03	27.89	1.63	247.98	0.171	0.305	0.165	5.67	242.74	0.14	324.06	325.14
19.36	13.33	18.04	27.90	1.66	240.85	0.170	0.303	0.176	5.67	245.53	0.14	323.75	324.26
19.36	13.32	18.04	27.90	1.65	241.59	0.175	0.306	0.162	5.66	242.89	0.14	324.78	325.65
19.37	13.33	18.04	27.91	1.65	245.73	0.163	0.304	0.170	5.69	244.90	0.14	323.29	325.60
19.38	13.33	18.04	27.91	1.64	244.25	0.163	0.292	0.166	5.66	243.86	0.13	323.03	323.60
19.39	13.34	18.04	27.91	1.65	243.94	0.170	0.272	0.175	5.66	241.36	0.14	323.19	323.90
19.39	13.34	18.05	27.91	1.64	247.56	0.176	0.309	0.167	5.68	244.11	0.14	323.34	325.24
19.39	13.35	18.05	27.92	1.65	245.42	0.169	0.307	0.168	5.65	246.64	0.14	322.73	325.03
19.39	13.35	18.05	27.92	1.65	246.68	0.169	0.311	0.164	5.67	246.00	0.14	323.50	325.39
19.39	13.35	18.05	27.92	1.66	248.31	0.176	0.297	0.172	5.68	244.92	0.14	323.45	325.39
19.39	13.35	18.05	27.92	1.66	243.73	0.176	0.287	0.175	5.68	242.28	0.14	322.88	324.83
19.39	13.36	18.05	27.92	1.64	247.05	0.170	0.316	0.176	5.64	244.26	0.13	323.03	324.57
19.40	13.35	18.06	27.92	1.64	241.63	0.174	0.297	0.184	5.63	245.44	0.14	323.39	325.60
19.40	13.36	18.06	27.92	1.65	243.07	0.168	0.309	0.164	5.64	244.78	0.14	322.27	323.90
19.39	13.36	18.05	27.91	1.64	246.81	0.180	0.321	0.169	5.64	244.90	0.14	322.68	323.55
19.39	13.36	18.05	27.90	1.65	245.48	0.172	0.320	0.159	5.63	244.37	0.14	321.85	323.65
19.39	13.36	18.05	27.90	1.64	242.54	0.173	0.329	0.172	5.65	246.16	0.14	321.80	323.85
19.39	13.36	18.05	27.89	1.64	246.70	0.169	0.325	0.167	5.65	243.43	0.14	322.52	324.16
19.39	13.36	18.05	27.88	1.65	245.14	0.168	0.332	0.173	5.64	243.75	0.14	322.88	322.62
19.39	13.36	18.05	27.86	1.64	247.19	0.174	0.304	0.177	5.62	244.63	0.13	321.91	322.21
19.39	13.36	18.04	27.85	1.64	244.39	0.177	0.290	0.175	5.66	244.32	0.14	321.39	323.44
19.38	13.35	18.04	27.85	1.64	243.04	0.174	0.291	0.174	5.66	244.75	0.13	320.88	322.83
19.38	13.36	18.04	27.83	1.63	247.41	0.168	0.275	0.180	5.67	243.51	0.14	319.96	321.54
19.38	13.35	18.03	27.82	1.64	244.10	0.169	0.274	0.172	5.69	241.09	0.14	320.32	322.31
19.38	13.35	18.03	27.81	1.65	243.34	0.164	0.317	0.170	5.64	243.45	0.14	319.70	321.60
19.37	13.34	18.03	27.79	1.62	245.67	0.166	0.339	0.160	5.64	245.10	0.14	320.47	321.44
19.37	13.34	18.02	27.78	1.64	246.10	0.174	0.328	0.166	5.64	244.75	0.14	320.83	321.65
19.37	13.34	18.02	27.77	1.63	242.51	0.164	0.332	0.165	5.66	243.43	0.13	320.42	320.72
19.36	13.34	18.02	27.75	1.64	243.97	0.169	0.352	0.169	5.64	243.63	0.14	319.55	320.31
19.37	13.34	18.01	27.73	1.63	243.91	0.165	0.342	0.171	5.64	243.37	0.14	319.24	321.19
19.37	13.34	18.01	27.72	1.62	250.05	0.172	0.332	0.185	5.65	244.12	0.14	319.49	320.83
19.38	13.34	18.01	27.71	1.62	245.14	0.172	0.313	0.165	5.62	246.35	0.13	319.49	319.59
19.38	13.34	18.00	27.70	1.64	239.86	0.185	0.301	0.182	5.65	245.67	0.14	320.06	321.60
19.39	13.34	18.00	27.70	1.64	241.22	0.170	0.318	0.178	5.62	246.39	0.13	320.88	321.44
19.39	13.34	18.00	27.69	1.62	250.75	0.165	0.281	0.167	5.64	242.06	0.13	319.65	321.19
19.39	13.35	18.00	27.67	1.64	243.57	0.173	0.290	0.171	5.65	243.57	0.14	319.19	320.67
19.40	13.35	18.00	27.67	1.63	248.72	0.162	0.320	0.156	5.63	241.69	0.14	319.34	321.44
19.40	13.35	18.00	27.66	1.63	246.82	0.171	0.337	0.157	5.68	245.96	0.13	319.44	322.11
19.41	13.35	18.00	27.66	1.63	245.90	0.176	0.323	0.166	5.69	243.03	0.14	319.24	321.34
19.40	13.35	18.00	27.66	1.64	247.68	0.168	0.326	0.165	5.65	239.28	0.14	319.34	321.60

19.40	13.35	18.00	27.66	1.65	242.60	0.178	0.315	0.182	5.69	243.12	0.14	319.75	321.29
19.40	13.35	18.00	27.66	1.64	243.39	0.166	0.294	0.176	5.70	245.52	0.14	320.42	321.08
19.40	13.36	18.00	27.66	1.63	249.15	0.169	0.323	0.174	5.68	243.63	0.14	319.08	321.95
19.40	13.35	18.00	27.66	1.63	243.88	0.170	0.281	0.181	5.68	243.89	0.14	321.29	322.93
19.40	13.35	18.00	27.67	1.64	241.82	0.166	0.286	0.167	5.65	243.54	0.13	318.93	322.47
19.40	13.36	18.01	27.67	1.64	242.73	0.170	0.294	0.174	5.64	246.01	0.14	320.98	323.19
19.40	13.36	18.01	27.67	1.63	241.68	0.174	0.302	0.185	5.62	245.38	0.14	320.47	321.65
19.40	13.36	18.01	27.68	1.63	243.11	0.176	0.275	0.159	5.61	243.29	0.13	321.34	323.44
19.39	13.36	18.02	27.69	1.64	245.19	0.164	0.282	0.168	5.65	244.98	0.14	321.14	323.24
19.39	13.36	18.02	27.69	1.64	247.15	0.181	0.303	0.169	5.63	243.23	0.14	321.09	322.52
19.39	13.36	18.02	27.69	1.64	248.25	0.167	0.339	0.171	5.61	244.95	0.14	320.88	322.62
19.39	13.35	18.02	27.70	1.64	247.02	0.163	0.337	0.175	5.65	243.72	0.14	321.60	323.24

Table F-5. Continued

Refrig Press Evap In psig	Refrig Press Evap Out psig	Refrig Press Comp In psig	Refrig Press Cond Out psig	Refrig Press Comp Out psig	Condinsate weight oz	Evap Rho Inlet lb/ft ³	Evap Rho Nozzle lb/ft ³	Evap CFM Nozzle CFM	Evap CFM Outlet CFM	Capacity Balance Pass/Fail	Total Cooling Capacity Btu/hr
315.36	129.17	130.84	319.79	338.28	98.08	0.07215	0.07467	771.7	767.9	PASS	26397.6
317.16	130.04	129.40	317.84	335.41	96.96	0.07216	0.07464	798.8	794.5	PASS	25963.1
317.46	131.74	128.63	319.99	336.33	98.70	0.07214	0.07464	782.7	778.5	PASS	25724.5
317.51	130.51	129.61	318.87	336.90	94.00	0.07215	0.07464	784.6	780.2	PASS	25466.0
318.03	129.74	128.17	318.25	336.95	96.47	0.07214	0.07464	777.8	773.3	PASS	25343.3
318.13	130.71	129.40	319.69	336.38	99.09	0.07217	0.07466	773.4	769.4	PASS	25192.2
315.92	129.27	129.66	320.30	337.87	95.60	0.07215	0.07465	752.8	748.9	PASS	25182.1
317.98	129.22	128.48	319.38	336.79	94.35	0.07216	0.07467	745.3	741.4	PASS	25788.2
317.98	129.89	129.20	318.97	339.41	97.59	0.07214	0.07467	731.8	728.1	PASS	26234.3
316.13	129.58	130.43	320.41	337.36	99.40	0.07215	0.07466	770.8	766.7	PASS	26069.3
317.41	129.38	128.99	318.81	337.36	99.92	0.07214	0.07466	769.1	765.0	PASS	26347.8
318.54	130.04	130.94	320.97	337.51	95.85	0.07214	0.07466	770.2	766.0	PASS	26150.9
318.59	130.71	129.71	320.82	338.23	95.29	0.07215	0.07466	777.0	772.9	PASS	26454.5
318.23	131.74	129.66	319.33	335.41	98.15	0.07213	0.07465	759.8	755.6	PASS	25975.9
315.87	130.15	131.25	321.02	339.61	94.04	0.07216	0.07468	785.0	781.0	PASS	25801.8
316.69	132.20	128.33	320.10	337.67	100.76	0.07215	0.07467	768.6	764.6	PASS	25484.5
316.33	131.74	129.51	319.58	336.69	98.84	0.07215	0.07467	744.7	740.7	PASS	25984.2
317.62	130.45	127.45	320.15	337.25	96.16	0.07216	0.07467	755.0	751.1	PASS	25428.8
319.87	131.53	130.12	321.38	336.69	101.04	0.07215	0.07467	750.5	746.6	PASS	26053.5
319.05	129.84	129.15	318.61	338.74	102.71	0.07217	0.07465	743.1	739.1	PASS	26066.5
318.18	129.79	130.27	321.79	339.10	100.38	0.07216	0.07465	758.9	754.8	PASS	26200.3
317.46	129.07	130.58	320.76	338.90	107.76	0.07215	0.07466	778.2	774.2	PASS	26097.3
318.64	129.84	128.89	320.66	337.77	100.17	0.07215	0.07467	796.3	792.2	PASS	25957.5
318.64	129.53	131.15	322.00	338.28	98.84	0.07216	0.07464	794.5	790.2	PASS	26031.5
318.95	130.51	129.25	319.02	338.90	101.46	0.07214	0.07463	788.1	783.7	PASS	25417.4
319.62	131.74	132.84	321.94	339.15	93.97	0.07215	0.07465	787.3	783.1	PASS	25966.0
319.21	130.86	130.89	320.61	339.41	97.59	0.07216	0.07466	769.7	765.7	PASS	25029.7
319.87	129.99	129.25	321.23	338.85	101.35	0.07217	0.07464	747.6	743.6	PASS	25448.9
319.57	131.17	129.04	320.71	338.74	102.99	0.07216	0.07466	744.4	740.5	PASS	24730.4
320.85	131.38	130.63	322.66	339.20	101.77	0.07219	0.07465	760.2	756.0	PASS	25461.0
318.49	130.04	129.71	321.12	340.13	105.08	0.07216	0.07466	750.2	746.2	PASS	26081.2
323.26	130.35	131.81	323.38	341.21	102.75	0.07216	0.07466	760.8	756.7	PASS	25824.5
320.59	131.43	130.12	322.82	339.72	101.53	0.07214	0.07466	786.9	782.7	PASS	25965.8
320.34	130.40	128.12	322.10	339.82	104.70	0.07214	0.07464	775.0	770.8	PASS	25856.7
321.57	131.17	130.12	323.02	339.61	105.99	0.07215	0.07463	793.7	789.4	PASS	26191.8
320.44	130.51	131.92	323.64	341.31	103.16	0.07216	0.07466	796.2	792.1	PASS	25739.8
319.57	130.86	130.69	324.15	338.49	102.33	0.07215	0.07466	783.2	779.0	PASS	25795.8
320.03	130.76	130.99	324.46	342.03	99.89	0.07214	0.07467	769.5	765.5	PASS	25577.2
321.05	129.89	130.33	323.74	340.28	101.87	0.07215	0.07468	747.8	744.0	PASS	24809.3
320.49	127.48	130.22	322.92	338.18	109.92	0.07218	0.07469	737.4	733.9	PASS	25856.0
319.36	129.63	130.53	323.74	339.97	101.49	0.07216	0.07469	742.2	738.6	PASS	25093.2
320.80	129.33	130.27	321.94	338.33	107.03	0.07215	0.07466	757.6	753.8	PASS	25883.9
321.67	130.56	131.66	322.77	339.46	112.57	0.07216	0.07465	763.1	759.2	PASS	25554.7
318.39	129.22	129.09	324.56	340.79	107.38	0.07215	0.07466	757.3	753.4	PASS	25615.4
320.49	130.30	129.81	321.79	338.02	104.45	0.07216	0.07467	754.2	750.4	PASS	25062.8
320.03	130.35	130.33	322.46	340.33	109.50	0.07216	0.07466	739.2	735.3	PASS	25491.9
320.64	131.33	129.97	322.51	341.05	103.02	0.07214	0.07465	748.5	744.6	PASS	25965.7
320.70	130.81	128.68	323.79	340.59	105.36	0.07215	0.07465	761.8	757.8	PASS	25849.8
321.67	131.02	128.33	322.05	341.46	108.15	0.07215	0.07466	765.3	761.5	PASS	25233.8
321.47	129.84	129.56	323.07	342.03	105.64	0.07216	0.07464	772.9	768.7	PASS	24355.4

321.31	131.17	128.79	323.53	341.21	106.16	0.07216	0.07467	769.8	765.8	PASS	25510.5
321.00	131.22	131.66	324.20	341.87	106.47	0.07214	0.07466	763.7	759.8	PASS	25383.2
320.64	129.07	130.79	323.79	344.18	103.37	0.07213	0.07464	763.6	759.5	PASS	25564.5
321.00	131.33	128.63	323.07	342.64	107.90	0.07215	0.07467	748.8	745.0	PASS	25656.2
321.57	130.71	130.58	323.89	340.90	106.96	0.07214	0.07467	773.6	769.7	PASS	26466.3
320.64	127.94	131.20	324.77	340.08	111.77	0.07213	0.07465	766.1	762.2	PASS	26681.9
320.75	131.07	129.71	323.23	341.00	111.42	0.07213	0.07465	769.3	765.3	PASS	24911.6
320.64	132.76	129.81	322.30	340.74	109.19	0.07213	0.07464	753.4	749.7	PASS	25925.9
321.41	130.25	129.66	319.12	339.51	107.94	0.07217	0.07465	743.9	740.0	PASS	26231.3
320.95	132.15	129.76	323.74	340.85	107.80	0.07216	0.07464	766.4	762.4	PASS	25440.0
321.57	129.99	130.38	322.10	340.38	107.24	0.07216	0.07465	771.9	768.1	PASS	26213.6
319.87	130.97	130.17	320.92	340.38	118.70	0.07214	0.07466	754.0	750.3	PASS	26109.1
319.52	130.15	131.35	320.51	339.67	111.18	0.07215	0.07465	779.3	775.4	PASS	25453.0
319.87	127.53	131.04	322.05	339.26	111.56	0.07216	0.07465	788.0	784.1	PASS	26352.1
319.21	130.35	129.51	320.76	338.85	108.91	0.07215	0.07466	771.7	767.8	PASS	25681.7
318.85	131.53	130.99	321.02	336.84	115.64	0.07217	0.07466	773.2	769.3	PASS	25580.6
318.85	131.74	131.46	321.69	339.51	111.14	0.07216	0.07464	765.9	762.1	PASS	24510.3
317.51	130.20	130.79	319.12	336.84	113.55	0.07216	0.07465	743.6	739.7	PASS	24751.3
318.23	130.35	131.10	323.07	338.85	110.69	0.07216	0.07464	765.5	761.7	PASS	24917.0
319.00	130.15	130.63	320.10	338.18	114.21	0.07215	0.07465	770.5	766.5	PASS	25314.0
315.56	129.94	129.76	321.69	338.95	114.42	0.07214	0.07463	791.7	787.4	PASS	25696.1
318.80	131.38	129.35	320.41	339.00	111.00	0.07214	0.07463	771.4	767.4	PASS	26142.0
316.23	130.40	131.15	321.12	338.28	109.30	0.07216	0.07463	775.3	771.3	PASS	26163.6
317.72	130.40	130.07	320.30	337.97	109.33	0.07214	0.07465	767.4	763.4	PASS	26700.0
319.00	128.56	129.66	321.94	338.13	112.43	0.07215	0.07463	762.9	758.8	PASS	25918.4
319.21	131.79	130.27	320.25	338.64	109.23	0.07214	0.07464	754.8	750.8	PASS	25672.0
317.31	129.22	129.35	320.25	339.05	117.27	0.07215	0.07465	755.5	751.7	PASS	25639.6
316.90	129.58	128.99	320.92	335.92	112.01	0.07215	0.07465	763.6	759.7	PASS	24664.3
315.10	128.15	130.43	320.41	338.85	116.58	0.07212	0.07463	770.0	765.9	PASS	25597.6
317.31	129.43	131.40	316.86	336.02	116.30	0.07213	0.07465	758.0	754.1	PASS	25409.3
317.77	131.02	132.33	319.74	337.31	120.06	0.07215	0.07463	775.6	771.6	PASS	25738.9
316.90	131.07	131.10	318.87	336.64	120.34	0.07213	0.07464	750.4	746.5	PASS	24844.0
318.34	130.20	130.58	319.84	337.15	114.28	0.07214	0.07464	771.0	767.3	PASS	25299.7
318.59	131.02	129.66	320.51	336.74	119.85	0.07213	0.07464	770.3	766.3	PASS	26328.9
317.62	130.92	131.40	321.33	338.38	109.12	0.07215	0.07462	770.7	766.7	PASS	25739.3
318.44	130.76	131.61	320.20	336.74	112.71	0.07214	0.07462	779.5	775.4	PASS	26856.0
319.00	131.02	130.17	318.61	335.87	114.28	0.07214	0.07463	784.8	780.7	PASS	26294.8
316.13	129.79	130.27	319.17	337.41	119.89	0.07215	0.07461	783.1	778.8	PASS	24888.2
316.80	128.61	131.51	319.53	337.36	117.03	0.07213	0.07465	765.8	762.1	PASS	25144.7
319.00	131.48	130.27	320.71	336.49	117.38	0.07214	0.07464	766.8	763.0	PASS	24940.8
317.16	130.76	131.20	319.43	337.41	113.37	0.07213	0.07464	769.0	765.1	PASS	25115.4
318.13	130.15	129.61	319.43	336.54	115.91	0.07214	0.07463	746.7	743.0	PASS	25689.0
318.39	131.79	130.58	320.82	338.74	118.98	0.07214	0.07462	766.6	762.4	PASS	25611.9
320.03	130.04	130.17	320.10	336.18	117.24	0.07213	0.07463	771.3	767.4	PASS	26226.7
318.23	130.92	126.79	319.74	338.38	122.01	0.07212	0.07462	776.3	772.2	PASS	26388.8
320.13	131.33	129.97	322.25	338.13	121.21	0.07215	0.07462	776.7	772.6	NO TEST	26914.0
318.75	131.43	129.76	319.84	337.92	115.39	0.07215	0.07464	764.6	760.8	PASS	26035.7
317.57	132.25	130.27	319.69	336.07	117.59	0.07215	0.07463	757.6	753.6	PASS	25205.4
317.93	129.33	130.99	319.58	338.02	123.40	0.07216	0.07463	769.2	765.2	PASS	25753.0
318.34	132.61	131.61	321.02	338.95	123.16	0.07214	0.07465	733.4	729.8	PASS	24817.7
316.03	129.17	130.07	321.48	340.69	121.70	0.07213	0.07465	760.5	756.7	PASS	25504.2
318.69	131.38	130.17	320.66	337.82	118.04	0.07214	0.07462	765.9	761.8	PASS	26005.5
319.87	132.61	131.25	321.74	341.51	117.59	0.07214	0.07461	781.3	777.1	PASS	25658.4
320.70	132.46	131.66	322.46	339.31	120.97	0.07216	0.07463	771.5	767.6	PASS	26097.9
319.46	130.25	128.79	320.97	338.79	120.16	0.07213	0.07462	778.5	774.3	PASS	26401.0
319.77	130.66	132.33	322.66	340.59	117.34	0.07215	0.07464	766.6	762.6	PASS	26231.1
317.51	128.09	130.07	322.35	341.15	122.15	0.07214	0.07463	771.0	767.0	PASS	26011.0
320.03	127.89	127.86	322.56	340.18	122.60	0.07216	0.07463	751.1	747.3	PASS	25745.7
323.88	130.40	129.66	322.05	338.43	126.51	0.07214	0.07462	748.9	745.1	PASS	25310.9

319.72	129.89	128.22	320.97	338.64	125.04	0.07214	0.07462	779.0	775.1	PASS	24850.0
319.57	130.81	130.69	322.30	340.18	121.24	0.07216	0.07463	765.4	761.5	PASS	24876.9
321.16	130.61	129.97	322.15	340.28	125.60	0.07214	0.07461	754.9	751.0	PASS	25237.4
319.67	131.33	129.97	321.07	340.03	128.32	0.07215	0.07462	770.8	766.7	PASS	26027.1
320.49	131.33	130.43	320.87	339.20	125.53	0.07215	0.07464	777.4	773.6	PASS	25824.2
320.03	130.51	130.79	322.56	339.56	124.66	0.07214	0.07462	790.4	786.2	PASS	25870.1
319.72	132.30	132.38	323.23	340.28	132.11	0.07214	0.07461	767.5	763.3	PASS	25942.2
319.05	127.02	131.35	323.74	340.28	127.83	0.07214	0.07463	766.4	762.5	PASS	26161.6
320.80	132.04	133.61	322.97	340.69	120.86	0.07215	0.07462	786.0	781.9	PASS	26008.9
319.16	131.02	131.92	324.10	339.51	122.08	0.07213	0.07462	759.6	755.6	PASS	25324.2
320.44	131.74	130.99	323.89	340.69	123.27	0.07213	0.07464	763.7	759.9	PASS	25086.1
321.00	127.63	130.27	323.64	339.61	122.67	0.07214	0.07461	772.3	768.2	PASS	24892.1
320.70	130.81	130.89	322.97	341.92	119.92	0.07213	0.07460	766.9	762.9	PASS	25626.6
318.28	127.84	129.40	324.30	342.69	124.87	0.07214	0.07462	771.7	767.6	PASS	24938.1
321.62	131.79	129.76	322.92	340.18	132.46	0.07213	0.07460	757.3	753.3	PASS	24928.7
323.83	130.76	129.92	324.05	341.26	126.47	0.07212	0.07462	781.5	777.3	PASS	25705.8
322.34	130.30	129.09	322.97	340.08	128.73	0.07215	0.07463	769.6	765.6	PASS	25796.7
320.54	130.20	128.53	322.10	339.67	133.47	0.07214	0.07462	743.7	739.8	PASS	26431.5
320.03	129.89	130.12	322.61	341.15	126.16	0.07213	0.07461	771.9	767.8	PASS	25743.6
320.70	128.66	130.43	321.94	340.85	133.30	0.07215	0.07461	755.9	752.0	PASS	26350.3
320.29	130.04	130.79	322.10	341.36	128.46	0.07214	0.07462	751.4	747.4	PASS	25746.3
321.41	130.09	129.35	322.82	341.77	131.03	0.07215	0.07463	754.5	750.7	PASS	25529.5
321.57	132.20	131.97	323.02	339.20	131.52	0.07214	0.07463	791.1	787.2	PASS	26297.3
319.72	131.58	131.81	323.28	341.31	129.95	0.07214	0.07461	760.1	756.0	PASS	25919.2
319.52	130.86	130.38	323.95	341.62	128.84	0.07213	0.07460	764.4	760.2	PASS	25343.3
321.62	131.12	130.63	324.66	342.85	121.21	0.07214	0.07461	763.4	759.4	PASS	25399.5
321.82	131.94	130.27	323.95	344.39	132.85	0.07215	0.07462	761.9	757.8	PASS	25095.8
322.03	131.17	131.10	323.74	339.72	127.10	0.07214	0.07461	749.9	746.0	PASS	25290.7
321.57	130.92	129.15	321.59	339.97	131.07	0.07213	0.07460	760.9	756.8	PASS	25511.9
321.31	130.30	129.97	324.46	341.00	129.43	0.07215	0.07461	754.0	750.1	PASS	25811.2
321.41	132.66	130.79	323.33	339.15	132.67	0.07214	0.07464	760.7	757.2	PASS	24900.1
320.39	130.86	128.99	323.33	342.69	128.11	0.07215	0.07461	744.2	740.2	PASS	25832.5
319.05	130.66	129.25	323.28	341.62	132.25	0.07214	0.07461	733.9	730.2	PASS	25533.6
318.54	130.51	130.94	323.38	339.92	129.75	0.07214	0.07461	758.2	754.4	PASS	25935.3
318.44	128.35	129.66	322.92	340.03	130.41	0.07214	0.07460	768.2	764.2	PASS	25917.1
320.54	129.89	129.45	320.92	338.95	132.95	0.07215	0.07462	788.5	784.4	PASS	26230.7
319.46	130.35	129.40	321.38	338.33	134.13	0.07215	0.07461	780.7	776.6	PASS	26231.2
318.44	129.43	128.94	320.87	341.31	132.11	0.07215	0.07460	808.3	803.9	PASS	25902.6
319.87	130.15	131.66	322.10	338.23	138.59	0.07214	0.07461	796.2	792.1	PASS	25911.5
319.41	130.45	128.53	320.61	339.67	134.00	0.07214	0.07462	773.7	770.0	PASS	25889.1
316.64	128.97	130.38	321.33	338.33	130.86	0.07214	0.07461	759.7	755.6	PASS	25145.1
319.11	130.51	130.69	320.66	338.43	129.22	0.07216	0.07462	762.3	758.4	PASS	24807.6
319.98	130.56	129.92	319.23	336.59	134.59	0.07214	0.07463	731.0	727.3	PASS	25403.8
316.59	130.09	130.17	320.87	339.51	133.58	0.07214	0.07461	752.6	748.5	PASS	25854.9
319.31	132.25	131.35	320.30	337.61	137.65	0.07214	0.07460	782.0	777.7	PASS	25233.9
318.75	131.69	129.25	318.56	337.72	128.32	0.07214	0.07463	747.6	743.9	PASS	25048.6
317.16	128.76	129.35	320.15	338.08	130.93	0.07216	0.07461	778.0	773.8	PASS	25683.9
315.56	130.09	131.76	320.25	337.41	135.11	0.07215	0.07462	798.1	793.9	PASS	26050.0
317.05	131.38	130.74	320.35	337.61	134.07	0.07215	0.07461	809.4	805.1	PASS	25814.7
317.82	131.27	129.71	318.51	337.97	129.47	0.07215	0.07461	800.0	795.8	PASS	26312.1
317.00	131.07	130.69	318.40	337.36	133.44	0.07215	0.07461	771.5	767.4	PASS	25225.2
316.95	129.89	130.22	319.69	337.36	135.39	0.07215	0.07462	777.3	773.3	PASS	25015.8
318.13	131.12	129.51	319.48	338.38	142.50	0.07213	0.07461	780.4	776.3	PASS	26014.6
315.51	130.61	130.38	321.64	336.18	140.16	0.07213	0.07462	744.3	740.5	PASS	25284.6
315.87	130.51	130.99	321.23	338.18	138.45	0.07215	0.07462	750.8	747.0	PASS	25581.0
317.05	129.22	130.48	319.99	336.38	138.56	0.07215	0.07461	740.9	737.0	PASS	25670.4
316.90	129.84	130.17	319.02	337.05	136.57	0.07213	0.07461	754.5	750.6	PASS	25570.5
316.64	131.79	130.58	319.43	335.31	137.34	0.07215	0.07462	755.3	751.5	PASS	25304.3
317.21	131.38	131.92	319.23	335.72	140.30	0.07213	0.07460	772.5	768.5	PASS	25596.3

316.80	130.15	131.56	320.30	337.41	141.80	0.07214	0.07462	780.7	776.7	PASS	25868.3
316.54	130.92	132.02	320.92	337.92	140.82	0.07216	0.07459	769.9	765.7	PASS	26069.6
318.13	130.86	128.63	319.58	335.87	138.18	0.07215	0.07462	781.5	777.4	PASS	26188.5
318.28	132.04	131.56	318.71	336.13	139.85	0.07213	0.07463	760.2	756.4	PASS	26703.2
318.49	131.38	131.61	321.69	339.15	140.61	0.07213	0.07463	764.7	760.8	PASS	25954.5
317.82	131.22	131.30	321.94	339.20	140.06	0.07214	0.07462	772.4	768.3	PASS	25876.4
317.41	130.61	130.69	322.61	339.00	139.85	0.07212	0.07462	773.3	769.3	PASS	26147.5
318.69	129.48	130.58	321.07	340.13	144.41	0.07214	0.07464	726.5	723.0	PASS	25336.5
318.95	131.27	130.84	320.15	337.31	138.35	0.07214	0.07462	745.7	741.9	PASS	25152.1
319.72	130.04	129.35	320.51	339.36	142.57	0.07212	0.07460	769.6	765.5	PASS	25692.6
317.31	131.74	130.12	321.02	336.69	140.51	0.07213	0.07460	780.4	776.1	PASS	25447.7
317.98	130.15	130.69	322.10	339.31	140.27	0.07213	0.07461	782.3	778.2	PASS	25681.3

Table F-5. Continued

Sensible Cooling Capacity Btu/hr	Latent Cooling Capacity Btu/hr	Degree of Sub- cooling F	Degree of Super- heat F	Refrig Cooling Capacity Btu/hr	Time hhmmss
17617.7	8779.9	8.4	12.9	25277.0	191430
17409.7	8553.5	8.3	12.6	25226.5	191440
17201.9	8522.6	8.6	12.7	25219.1	191450
16971.3	8494.7	8.4	12.5	25245.1	191500
17049.4	8293.9	8.3	12.5	25238.0	191510
16976.0	8216.2	8.4	12.5	25260.2	191520
16808.1	8374.0	8.4	12.1	25230.5	191530
17324.8	8463.4	8.1	12.4	25195.7	191540
17770.8	8463.5	8.5	12.2	25206.6	191550
17528.1	8541.2	8.4	11.5	25186.3	191600
17670.7	8677.2	8.2	12.3	25186.0	191610
17762.9	8388.0	8.2	12.1	25169.0	191620
17814.8	8639.7	8.4	12.6	25293.7	191630
17575.8	8400.1	8.4	12.2	25226.0	191640
17266.4	8535.4	8.3	11.6	25209.6	191650
17138.2	8346.3	8.5	10.8	25167.0	191700
17492.0	8492.2	8.3	11.2	25158.9	191710
17177.9	8250.9	8.4	10.9	25120.0	191720
17371.0	8682.5	8.4	11.5	25219.2	191730
17473.0	8593.5	8.4	11.4	25210.6	191740
17648.4	8551.9	8.3	11.2	25149.8	191750
17494.9	8602.4	8.4	9.4	25006.7	191800
17448.4	8509.1	8.3	10.8	25090.7	191810
17399.2	8632.3	8.4	11.1	25146.0	191820
17166.9	8250.5	8.4	11.6	25175.2	191830
17447.9	8518.1	8.3	11.5	25152.3	191840
16690.2	8339.5	8.4	11.6	25206.8	191850
17016.8	8432.1	8.4	12.1	25228.7	191900
16524.1	8206.3	8.6	11.6	25232.9	191910
17086.3	8374.7	8.3	11.8	25214.1	191920
17555.8	8525.4	8.4	10.5	25031.8	191930
17320.6	8503.9	8.6	11.2	25063.8	191940
17448.1	8517.8	8.4	10.0	24959.0	191950
17314.9	8541.8	8.6	12.2	25140.1	192000
17495.8	8696.0	8.4	12.0	25060.9	192010
17220.6	8519.2	8.3	12.3	25177.0	192020
17229.5	8566.3	8.7	12.5	25151.7	192030
17168.3	8408.9	8.5	13.0	25221.6	192040
16722.7	8086.6	8.6	12.2	25093.4	192050
17338.7	8517.3	8.6	12.3	25154.9	192100
16870.0	8223.3	8.8	12.5	25198.2	192110
17364.0	8519.8	8.6	12.9	25202.5	192120
17159.4	8395.3	8.6	12.5	25118.5	192130
17222.5	8393.0	8.5	12.3	25146.4	192140
16815.9	8247.0	8.4	11.9	25067.7	192150
17169.7	8322.2	8.6	12.3	25134.9	192200
17471.2	8494.5	8.5	11.9	25053.1	192210
17329.3	8520.5	8.6	12.3	25174.0	192220
16926.2	8307.6	8.6	12.5	25189.2	192230
16389.8	7965.6	8.7	12.5	25194.7	192240

17032.1	8478.4	8.5	12.4	25195.9	192250
16967.8	8415.4	8.6	12.2	25102.5	192300
17089.6	8474.8	8.4	12.2	25060.5	192310
17266.8	8389.4	8.6	12.4	25097.5	192320
17796.1	8670.2	8.4	12.7	25136.6	192330
17898.7	8783.2	8.4	12.7	25180.0	192340
16673.8	8237.9	8.2	12.1	25041.4	192350
17254.5	8671.4	8.5	13.1	25257.7	192400
17508.1	8723.3	8.3	13.2	25208.3	192410
16971.6	8468.4	8.6	13.2	25227.9	192420
17447.5	8766.2	8.5	13.5	25247.2	192430
17429.4	8679.8	8.2	12.9	25234.6	192440
17020.3	8432.7	8.3	13.4	25304.8	192450
17532.7	8819.4	8.4	12.7	25298.2	192500
17058.2	8623.5	8.4	12.1	25202.1	192510
17133.4	8447.2	8.4	12.0	25229.2	192520
16518.2	7992.1	8.3	12.2	25260.9	192530
16518.3	8232.9	8.1	12.2	25200.1	192540
16657.7	8259.3	8.4	11.7	25193.2	192550
16878.7	8435.3	8.2	12.3	25196.2	192600
17226.2	8469.9	8.1	11.7	25094.4	192610
17355.0	8787.0	8.2	12.6	25255.1	192620
17492.8	8670.8	8.2	12.2	25205.5	192630
17921.8	8778.2	8.3	12.5	25248.5	192640
17260.1	8658.3	8.1	13.1	25253.0	192650
17292.2	8379.9	8.3	12.4	25319.4	192700
17192.1	8447.5	8.2	12.8	25292.3	192710
16349.6	8314.6	8.3	12.9	25281.4	192720
17118.6	8479.0	8.4	12.1	25240.2	192730
16964.8	8444.5	8.4	12.0	25237.3	192740
17065.1	8673.8	8.4	12.2	25294.0	192750
16562.1	8282.0	8.2	12.3	25218.0	192810
16812.6	8487.1	8.4	12.7	25260.6	192820
17523.9	8805.0	8.5	12.6	25249.7	192830
17035.5	8703.8	8.0	12.4	25183.4	192840
17809.9	9046.1	8.2	12.4	25292.8	192850
17479.5	8815.3	8.5	12.8	25309.0	192900
16388.5	8499.6	8.1	12.7	25285.7	192910
16701.1	8443.6	8.4	12.9	25388.0	192920
16521.9	8419.0	8.5	12.3	25414.7	192930
16694.6	8420.8	8.4	11.7	25254.3	192940
17086.8	8602.2	8.4	12.2	25310.0	192950
16992.4	8619.5	8.4	11.7	25275.1	193000
17533.8	8693.0	8.6	11.2	25245.8	193010
17645.0	8743.8	8.4	11.4	25209.9	193020
17855.1	9058.9	8.5	11.1	25248.4	193030
17349.0	8686.7	8.5	10.5	25142.8	193040
16874.6	8330.8	8.3	10.7	25128.5	193050
17128.2	8624.9	8.4	11.5	25255.1	193100
16525.3	8292.5	8.6	11.0	25252.8	193110
17017.0	8487.2	8.4	10.2	25188.0	193120
17429.2	8576.3	8.5	10.7	25191.4	193130
17132.8	8525.6	8.4	11.5	25206.6	193140
17326.0	8771.9	8.5	11.7	25027.0	193150
17624.0	8777.1	8.4	11.9	25043.6	193200
17406.7	8824.4	8.6	13.1	25114.5	193210
17135.4	8875.6	8.5	13.8	25212.2	193220
16994.9	8750.9	8.5	14.3	25252.4	193230
16713.3	8597.7	8.6	14.5	25325.7	193240

16501.9	8348.1	8.5	14.2	25328.8	193250
16490.9	8386.0	8.7	14.1	25548.2	193300
16790.0	8447.4	8.8	13.8	25523.2	193310
17339.4	8687.7	8.7	12.7	25374.3	193320
17171.9	8652.2	8.9	12.3	25363.6	193330
17141.9	8728.2	8.6	11.4	25298.7	193340
17284.5	8657.7	8.6	10.7	25249.3	193350
17466.0	8695.6	8.6	10.3	25151.0	193400
17369.3	8639.6	8.5	10.3	25115.5	193410
16733.2	8591.0	8.4	9.6	25008.5	193420
16672.4	8413.7	8.3	10.2	24798.7	193430
16573.5	8318.6	8.4	12.2	25039.5	193440
17002.8	8623.9	8.5	12.5	25090.4	193450
16504.3	8433.7	8.5	13.2	25141.3	193500
16631.9	8296.8	8.6	13.9	25272.9	193510
17079.1	8626.7	8.5	13.6	25164.9	193520
17131.0	8665.6	8.7	14.0	25294.4	193530
17532.7	8898.8	8.4	14.0	25354.2	193540
17106.8	8636.8	8.6	14.1	25514.3	193550
17631.3	8719.0	8.8	13.2	25463.1	193600
17189.0	8557.3	8.7	11.8	25285.3	193610
16927.2	8602.2	8.7	11.5	25275.0	193620
17457.8	8839.5	8.7	11.7	25245.1	193630
17183.5	8735.6	8.6	10.9	25237.4	193640
16928.1	8415.2	8.5	11.4	25161.1	193650
16775.7	8623.8	8.5	11.4	25156.3	193700
16640.4	8455.4	8.3	10.4	25081.6	193710
16685.5	8605.1	8.4	11.4	25156.3	193720
16910.5	8601.5	8.4	11.6	25180.7	193730
17122.8	8688.4	8.4	12.5	25224.4	193740
16582.2	8317.9	8.4	12.2	25204.8	193750
17028.0	8804.5	8.6	12.6	25237.3	193800
16989.4	8544.2	8.3	12.4	25231.3	193810
17056.2	8879.1	8.3	12.8	25179.1	193820
17218.7	8698.4	8.4	13.2	25281.6	193830
17366.6	8864.1	8.4	13.4	25265.1	193840
17366.9	8864.2	8.3	13.3	25278.6	193850
17239.8	8662.8	8.5	13.4	25300.6	193900
17138.2	8773.3	8.4	13.7	25326.6	193910
17190.2	8698.9	8.3	13.6	25328.7	193920
16665.0	8480.1	8.4	13.9	25430.0	193930
16434.3	8373.3	8.2	13.3	25361.1	193940
16889.2	8514.6	8.3	12.7	25381.4	193950
17175.1	8679.7	8.5	12.9	25436.5	194000
16819.3	8414.6	8.3	12.8	25314.9	194010
16627.7	8420.9	8.3	12.1	25298.9	194020
17089.0	8594.9	8.4	11.9	25306.8	194030
17276.8	8773.2	8.0	11.7	25149.2	194040
17131.2	8683.5	8.2	12.0	25183.0	194050
17414.8	8897.3	8.2	12.3	25224.4	194100
16793.3	8431.9	8.1	13.1	25313.0	194110
16532.3	8483.4	8.3	13.1	25314.2	194120
17415.1	8599.5	8.3	12.6	25312.6	194130
16650.4	8634.3	8.3	13.1	25348.7	194140
16962.2	8618.7	8.2	13.3	25342.8	194150
16908.0	8762.4	8.6	13.1	25368.4	194200
16924.3	8646.2	8.3	12.9	25455.1	194210
16696.3	8608.0	8.4	12.7	25495.3	194220
16892.9	8703.5	8.5	11.8	25386.9	194230

17047.0	8821.3	8.4	11.8	25358.5	194240
17227.8	8841.8	8.5	11.0	25321.6	194250
17342.7	8845.8	8.2	10.9	25287.3	194300
17710.4	8992.9	8.3	9.5	25208.4	194310
17173.1	8781.4	8.3	10.1	25014.1	194320
17113.1	8763.2	8.1	10.3	25024.3	194330
17373.7	8773.8	8.4	11.1	25114.4	194340
16837.9	8498.6	8.4	12.0	25240.1	194350
16697.2	8454.8	8.4	12.5	25245.7	194400
16991.4	8701.2	8.2	13.0	25246.9	194410
16936.5	8511.1	8.3	13.0	25225.9	194420
17065.8	8615.5	8.1	13.2	25297.2	194430

Table F-6

Data from the second B test

Barometric Pres mBar	Evap Static Pres in/H2O	Supply Tank Temp C	Refrig Temp Before MFM C	Refrig Temp After MFM C	Evap Exit Drybulb C	Refrig Temp Comp In C	Refrig Temp Cond Out C	Refrig Temp Comp Out C	Refrig Temp Evap In C	Refrig Temp Evap Out C	Indoor Temp C	Evap Nozzle Temp C
1002.3	0.126	13.91	33.58	33.52	15.45	15.26	33.81	66.48	33.04	14.79	26.56	16.75
1002.2	0.136	13.76	33.67	33.55	15.46	15.18	33.89	66.52	33.02	14.75	26.64	16.69
1002.2	0.139	13.50	33.62	33.57	15.42	15.29	33.82	66.47	32.99	14.79	26.65	16.74
1002.3	0.112	13.61	33.61	33.56	15.42	15.29	33.82	66.53	33.00	14.74	26.57	16.67
1002.1	0.136	13.72	33.62	33.58	15.42	15.28	33.85	66.52	33.01	14.66	26.63	16.72
1002.7	0.108	13.81	33.61	33.58	15.44	15.30	33.83	66.48	32.89	14.60	26.67	16.71
1002.4	0.119	13.61	33.54	33.51	15.36	15.27	33.83	66.50	33.01	14.21	26.60	16.72
1002.3	0.133	13.42	33.62	33.54	15.39	15.28	33.77	66.53	33.04	14.40	26.62	16.73
1002.3	0.150	13.61	33.60	33.55	15.43	15.27	33.80	66.53	33.05	14.67	26.58	16.74
1002.3	0.141	13.62	33.63	33.54	15.38	15.25	33.78	66.53	33.00	14.47	26.55	16.69
1002.2	0.131	13.87	33.62	33.51	15.42	15.20	33.74	66.50	33.00	14.56	26.63	16.64
1002.3	0.142	13.56	33.65	33.54	15.39	15.24	33.82	66.48	33.05	14.25	26.65	16.68
1002.2	0.126	13.81	33.59	33.51	15.46	15.22	33.84	66.53	33.00	14.68	26.57	16.80
1002.4	0.117	13.68	33.60	33.58	15.41	15.22	33.82	66.52	33.04	14.80	26.68	16.73
1002.3	0.127	13.88	33.65	33.54	15.43	15.25	33.78	66.50	32.97	14.78	26.64	16.74
1002.3	0.160	13.80	33.62	33.50	15.45	15.24	33.84	66.50	32.96	14.61	26.61	16.72
1002.6	0.129	13.62	33.66	33.54	15.42	15.25	33.86	66.55	32.98	14.60	26.66	16.76
1002.2	0.132	13.79	33.63	33.59	15.45	15.25	33.84	66.53	33.04	14.64	26.69	16.80
1002.2	0.130	13.65	33.66	33.57	15.42	15.23	33.81	66.53	32.99	14.79	26.59	16.73
1002.0	0.093	13.54	33.64	33.56	15.44	15.27	33.82	66.54	33.02	14.75	26.68	16.71
1002.3	0.150	13.62	33.54	33.56	15.45	15.26	33.83	66.55	33.00	14.66	26.66	16.77
1002.3	0.128	13.44	33.60	33.52	15.41	15.25	33.84	66.55	33.02	14.46	26.63	16.83
1002.2	0.138	13.43	33.61	33.52	15.44	15.29	33.81	66.53	33.05	14.63	26.68	16.75
1002.2	0.125	13.66	33.54	33.57	15.45	15.30	33.82	66.55	32.97	14.70	26.62	16.63
1002.3	0.096	13.77	33.58	33.55	15.48	15.34	33.77	66.56	32.94	14.85	26.64	16.71
1002.3	0.147	13.69	33.60	33.51	15.50	15.34	33.78	66.53	32.97	14.57	26.63	16.76
1002.3	0.127	13.59	33.63	33.54	15.49	15.35	33.80	66.56	32.92	14.78	26.71	16.77
1002.2	0.136	13.81	33.59	33.54	15.46	15.42	33.80	66.54	33.00	14.87	26.63	16.71
1002.4	0.105	13.63	33.59	33.51	15.48	15.34	33.82	66.55	33.01	14.79	26.60	16.71
1002.3	0.155	13.80	33.58	33.56	15.47	15.38	33.78	66.54	32.93	14.73	26.65	16.72
1002.2	0.116	13.92	33.62	33.49	15.46	15.36	33.81	66.53	33.02	14.77	26.70	16.77
1002.3	0.108	13.72	33.59	33.52	15.45	15.40	33.80	66.56	33.01	14.65	26.70	16.77
1002.4	0.102	13.69	33.63	33.50	15.49	15.38	33.83	66.51	32.95	14.40	26.68	16.84
1002.2	0.146	14.02	33.65	33.39	15.45	15.34	33.88	66.55	32.96	14.70	26.62	16.68
1002.2	0.111	13.72	33.62	33.57	15.45	15.33	33.85	66.57	32.98	14.65	26.70	16.80
1002.1	0.138	13.77	33.62	33.57	15.47	15.32	33.80	66.58	32.99	14.56	26.70	16.77
1002.2	0.142	13.96	33.62	33.53	15.48	15.32	33.81	66.56	32.99	14.59	26.68	16.80
1002.2	0.124	13.71	33.61	33.48	15.44	15.27	33.88	66.55	33.02	14.60	26.68	16.64
1002.1	0.135	13.86	33.62	33.52	15.49	15.31	33.84	66.57	32.97	14.55	26.64	16.81
1002.4	0.121	13.78	33.57	33.54	15.47	15.32	33.81	66.50	32.94	14.60	26.69	16.72
1002.2	0.129	13.79	33.66	33.51	15.43	15.30	33.84	66.54	32.97	14.60	26.67	16.83
1002.3	0.137	13.90	33.65	33.56	15.48	15.26	33.86	66.56	32.96	14.68	26.69	16.76
1002.2	0.117	13.84	33.60	33.51	15.50	15.31	33.81	66.44	32.99	14.66	26.71	16.75
1002.2	0.110	13.79	33.53	33.51	15.48	15.31	33.82	66.51	32.95	14.71	26.69	16.77
1002.0	0.135	13.57	33.55	33.50	15.48	15.30	33.79	66.53	33.00	14.74	26.65	16.77
1002.6	0.165	13.84	33.61	33.52	15.50	15.30	33.80	66.54	33.00	14.65	26.65	16.72
1002.3	0.110	14.12	33.63	33.50	15.49	15.34	33.85	66.56	32.96	14.71	26.68	16.71
1002.1	0.128	13.89	33.62	33.55	15.49	15.28	33.84	66.56	33.01	14.67	26.68	16.74
1002.1	0.164	13.80	33.63	33.56	15.48	15.31	33.82	66.65	32.96	14.94	26.68	16.78
1002.2	0.116	14.02	33.63	33.54	15.51	15.35	33.82	66.56	32.95	14.84	26.70	16.83

1002.2	0.128	13.66	33.61	33.50	15.49	15.35	33.81	66.54	32.98	14.98	26.64	16.79
1002.2	0.144	13.84	33.56	33.55	15.53	15.38	33.81	66.54	32.97	14.81	26.69	16.77
1002.2	0.128	13.90	33.57	33.52	15.51	15.38	33.80	66.54	33.01	14.96	26.61	16.80
1002.1	0.088	14.04	33.55	33.50	15.46	15.41	33.79	66.55	33.01	14.99	26.61	16.81
1002.2	0.141	13.79	33.57	33.48	15.52	15.45	33.76	66.54	32.99	15.09	26.61	16.77
1002.1	0.112	13.99	33.56	33.49	15.53	15.45	33.81	66.63	32.96	14.95	26.67	16.83
1002.1	0.135	13.94	33.63	33.58	15.51	15.49	33.82	66.60	32.96	14.97	26.63	16.76
1002.2	0.116	13.73	33.59	33.53	15.45	15.46	33.87	66.66	32.95	14.76	26.68	16.75
1002.0	0.125	13.94	33.67	33.58	15.49	15.51	33.82	66.61	32.94	14.94	26.62	16.78
1002.0	0.113	13.91	33.60	33.47	15.46	15.42	33.86	66.59	33.03	14.73	26.60	16.78
1002.3	0.143	13.98	33.64	33.55	15.53	15.41	33.86	66.64	32.97	14.71	26.59	16.73
1002.2	0.122	13.91	33.60	33.57	15.46	15.40	33.80	66.66	32.98	14.49	26.63	16.79
1002.1	0.109	13.72	33.61	33.53	15.49	15.40	33.79	66.64	32.99	14.92	26.65	16.82
1002.1	0.126	14.00	33.68	33.54	15.50	15.39	33.83	66.64	32.99	14.59	26.65	16.78
1002.0	0.118	14.22	33.62	33.56	15.52	15.37	33.84	66.67	32.97	14.90	26.60	16.76
1002.2	0.136	13.89	33.67	33.55	15.50	15.43	33.87	66.67	32.93	14.88	26.63	16.79
1002.3	0.103	14.11	33.67	33.56	15.49	15.38	33.88	66.63	33.04	14.65	26.73	16.86
1001.7	0.120	14.16	33.66	33.60	15.45	15.40	33.89	66.63	33.05	14.75	26.67	16.84
1002.0	0.112	13.98	33.73	33.55	15.48	15.36	33.89	66.70	32.99	14.61	26.65	16.86
1002.1	0.132	14.08	33.71	33.59	15.45	15.32	33.94	66.65	33.02	14.54	26.68	16.80
1002.1	0.127	14.19	33.65	33.59	15.51	15.30	33.90	66.70	33.05	14.91	26.68	16.87
1002.1	0.124	14.18	33.74	33.61	15.47	15.34	33.90	66.65	33.01	14.37	26.64	16.80
1002.0	0.149	14.09	33.73	33.60	15.49	15.28	33.92	66.67	33.03	14.86	26.69	16.81
1002.1	0.115	14.15	33.69	33.61	15.46	15.32	33.90	66.62	33.05	14.84	26.59	16.80
1002.1	0.152	14.18	33.70	33.61	15.49	15.30	33.93	66.65	33.05	14.81	26.57	16.77
1002.2	0.110	14.12	33.76	33.63	15.48	15.35	33.93	66.70	33.06	15.02	26.58	16.80
1002.0	0.160	14.12	33.71	33.62	15.47	15.40	33.88	66.68	33.06	14.87	26.58	16.85
1001.9	0.120	14.15	33.68	33.66	15.43	15.40	33.90	66.66	33.08	14.85	26.58	16.83
1002.1	0.120	14.18	33.69	33.59	15.48	15.43	33.89	66.68	33.08	14.96	26.60	16.87
1002.0	0.127	14.07	33.66	33.60	15.50	15.43	33.91	66.74	33.01	14.83	26.62	16.85
1002.2	0.104	14.14	33.73	33.61	15.50	15.42	33.92	66.72	33.07	14.83	26.63	16.84
1002.1	0.081	14.33	33.72	33.65	15.51	15.44	33.99	66.70	33.03	14.77	26.63	16.77
1002.1	0.105	14.18	33.73	33.68	15.44	15.43	33.89	66.74	33.04	14.65	26.58	16.80
1002.2	0.082	14.15	33.72	33.61	15.46	15.39	33.90	66.70	33.06	14.69	26.60	16.80
1002.2	0.110	13.95	33.75	33.63	15.46	15.39	33.92	66.73	33.08	14.64	26.62	16.78
1002.1	0.105	14.23	33.73	33.66	15.52	15.37	33.95	66.75	33.09	14.41	26.62	16.83
1002.0	0.146	14.27	33.71	33.67	15.49	15.32	33.91	66.73	33.12	14.84	26.52	16.81
1002.1	0.109	14.24	33.69	33.65	15.45	15.33	33.90	66.71	33.07	14.49	26.69	16.78
1002.0	0.154	14.24	33.71	33.59	15.44	15.35	33.92	66.70	33.09	14.82	26.64	16.76
1002.0	0.130	14.23	33.76	33.64	15.48	15.36	33.94	66.70	33.09	14.98	26.61	16.75
1002.1	0.112	14.25	33.73	33.64	15.48	15.36	33.96	66.68	33.05	14.45	26.63	16.78
1001.9	0.156	14.11	33.75	33.62	15.48	15.33	33.97	66.70	33.02	14.39	26.63	16.78
1002.0	0.136	14.39	33.71	33.67	15.46	15.30	33.95	66.74	33.13	14.47	26.61	16.82
1002.0	0.126	14.11	33.75	33.65	15.44	15.30	34.01	66.68	33.09	14.63	26.63	16.81
1002.0	0.140	14.11	33.76	33.65	15.40	15.29	33.95	66.72	33.06	14.53	26.56	16.81
1002.2	0.112	14.50	33.73	33.67	15.46	15.22	33.98	66.76	33.11	14.55	26.52	16.82
1002.0	0.177	14.23	33.78	33.68	15.44	15.22	33.97	66.70	33.12	14.42	26.54	16.82
1002.2	0.113	14.29	33.75	33.64	15.43	15.22	33.99	66.74	33.08	14.44	26.60	16.75
1002.1	0.115	14.28	33.82	33.70	15.41	15.18	34.02	66.72	33.13	14.62	26.57	16.79
1002.1	0.106	14.22	33.84	33.72	15.43	15.15	34.00	66.71	33.12	14.47	26.68	16.85
1002.0	0.143	14.39	33.77	33.72	15.47	15.13	34.06	66.70	33.12	14.54	26.59	16.76
1002.1	0.125	14.39	33.81	33.74	15.46	15.14	34.06	66.71	33.13	14.69	26.57	16.78
1001.3	0.141	14.21	33.72	33.72	15.50	15.21	34.00	66.69	33.13	14.71	26.58	16.84
1002.0	0.089	14.46	33.73	33.67	15.51	15.22	33.97	66.72	33.20	14.86	26.59	16.82
1002.0	0.127	14.49	33.77	33.68	15.46	15.29	33.96	66.74	33.13	14.83	26.48	16.81
1002.2	0.132	14.38	33.74	33.70	15.47	15.32	33.97	66.75	33.10	14.80	26.64	16.78
1002.3	0.095	14.31	33.79	33.67	15.53	15.35	33.97	66.75	33.13	14.84	26.60	16.76
1002.1	0.143	14.14	33.76	33.70	15.52	15.37	33.92	66.81	33.15	14.89	26.53	16.83
1002.0	0.146	14.42	33.77	33.68	15.46	15.34	33.99	66.76	33.14	14.66	26.58	16.76

1002.1	0.129	14.21	33.77	33.70	15.46	15.35	34.03	66.76	33.09	14.53	26.60	16.79
1002.1	0.113	14.41	33.74	33.70	15.48	15.32	34.01	66.80	33.12	14.66	26.59	16.75
1002.0	0.128	14.49	33.80	33.71	15.47	15.29	34.02	66.80	33.13	14.40	26.62	16.83
1002.0	0.129	14.40	33.85	33.75	15.50	15.33	34.05	66.78	33.11	14.57	26.65	16.80
1001.9	0.139	14.49	33.81	33.72	15.47	15.28	34.05	66.73	33.13	14.57	26.57	16.84
1001.9	0.101	14.33	33.79	33.68	15.46	15.29	33.98	66.73	33.19	14.52	26.57	16.81
1002.1	0.129	14.38	33.74	33.65	15.47	15.28	33.95	66.70	33.09	14.62	26.62	16.83
1001.2	0.107	14.49	33.73	33.66	15.45	15.27	33.92	66.68	33.22	14.72	26.67	16.82
1002.3	0.131	14.35	33.74	33.65	15.46	15.28	33.91	66.67	33.17	14.79	26.62	16.85
1002.0	0.136	14.49	33.62	33.58	15.47	15.23	33.91	66.74	33.12	14.73	26.61	16.85
1002.0	0.113	14.44	33.61	33.59	15.46	15.32	33.90	66.69	33.10	15.12	26.62	16.78
1002.2	0.158	14.26	33.59	33.57	15.49	15.36	33.83	66.70	33.06	14.96	26.65	16.85
1002.3	0.111	14.48	33.58	33.58	15.48	15.41	33.80	66.66	33.10	14.94	26.66	16.81
1002.1	0.139	14.36	33.59	33.51	15.50	15.42	33.80	66.74	33.05	14.93	26.53	16.83
1002.5	0.111	14.41	33.61	33.53	15.44	15.45	33.80	66.70	33.04	14.67	26.59	16.81
1002.1	0.129	14.59	33.57	33.51	15.43	15.45	33.76	66.64	32.99	14.86	26.59	16.82
1001.8	0.130	14.67	33.53	33.58	15.46	15.46	33.78	66.68	33.00	14.98	26.52	16.87
1002.5	0.147	14.34	33.60	33.49	15.45	15.47	33.77	66.70	32.99	14.99	26.64	16.80
1002.0	0.139	14.54	33.61	33.52	15.49	15.52	33.79	66.68	32.95	14.92	26.67	16.77
1002.0	0.091	14.66	33.60	33.49	15.46	15.52	33.80	66.68	32.96	14.85	26.58	16.78
1002.0	0.114	14.51	33.49	33.51	15.49	15.47	33.74	66.59	32.92	14.91	26.71	16.73
1002.3	0.128	14.50	33.55	33.53	15.50	15.48	33.74	66.64	32.96	15.09	26.66	16.81
1002.2	0.155	14.36	33.49	33.44	15.46	15.52	33.74	66.64	32.96	14.92	26.55	16.81
1002.3	0.150	14.65	33.49	33.39	15.48	15.51	33.73	66.63	32.95	14.84	26.63	16.79
1002.1	0.146	14.55	33.54	33.42	15.47	15.49	33.73	66.65	32.93	14.93	26.61	16.79
1002.1	0.141	14.61	33.49	33.43	15.50	15.53	33.66	66.70	32.93	15.15	26.60	16.85
1002.1	0.122	14.51	33.50	33.45	15.50	15.53	33.67	66.64	32.90	15.15	26.65	16.81
1002.1	0.111	14.53	33.49	33.42	15.50	15.56	33.71	66.67	32.90	15.12	26.62	16.84
1002.2	0.134	14.62	33.48	33.40	15.52	15.58	33.74	66.67	32.86	14.89	26.57	16.79
1002.0	0.164	14.60	33.54	33.46	15.45	15.56	33.66	66.66	32.88	15.04	26.67	16.77
1001.9	0.098	14.53	33.47	33.46	15.51	15.60	33.70	66.71	32.90	15.11	26.61	16.81
1001.9	0.134	14.50	33.47	33.39	15.51	15.57	33.70	66.64	32.87	15.18	26.60	16.74
1002.0	0.073	14.57	33.48	33.43	15.51	15.57	33.65	66.64	32.87	15.18	26.61	16.76
1001.9	0.143	14.39	33.48	33.36	15.47	15.62	33.69	66.62	32.88	15.14	26.63	16.81
1002.1	0.147	14.33	33.44	33.37	15.47	15.61	33.64	66.69	32.88	15.17	26.63	16.84
1002.0	0.121	14.43	33.43	33.30	15.50	15.61	33.62	66.68	32.82	15.19	26.63	16.77
1001.9	0.126	14.61	33.50	33.38	15.47	15.65	33.63	66.65	32.81	15.08	26.64	16.81
1002.5	0.124	14.82	33.43	33.34	15.46	15.65	33.64	66.68	32.85	15.05	26.58	16.82
1002.0	0.147	14.50	33.40	33.39	15.48	15.63	33.69	66.64	32.80	15.10	26.63	16.81
1001.9	0.095	14.76	33.41	33.37	15.46	15.67	33.61	66.67	32.83	14.75	26.61	16.82
1002.2	0.119	14.66	33.42	33.38	15.45	15.61	33.71	66.66	32.83	15.14	26.65	16.87
1002.0	0.144	14.65	33.49	33.36	15.45	15.57	33.69	66.68	32.84	14.98	26.66	16.78
1002.0	0.141	14.57	33.48	33.43	15.42	15.62	33.68	66.68	32.89	15.09	26.63	16.84
1002.0	0.142	14.64	33.46	33.38	15.43	15.56	33.72	66.68	32.78	15.05	26.64	16.83
1002.0	0.120	14.70	33.48	33.44	15.49	15.59	33.76	66.64	32.85	14.81	26.67	16.82
1001.9	0.116	14.65	33.56	33.42	15.44	15.51	33.72	66.68	32.93	14.83	26.64	16.79
1002.1	0.141	14.70	33.58	33.53	15.45	15.55	33.77	66.73	32.83	14.70	26.61	16.80
1001.9	0.089	14.72	33.63	33.51	15.44	15.47	33.84	66.71	32.91	14.79	26.64	16.84
1002.1	0.140	14.75	33.66	33.52	15.46	15.45	33.86	66.70	32.94	14.58	26.62	16.81
1002.0	0.132	14.79	33.65	33.58	15.45	15.44	33.93	66.72	32.90	14.60	26.64	16.80
1001.9	0.099	14.83	33.66	33.56	15.49	15.40	33.92	66.67	32.94	14.56	26.71	16.73
1001.8	0.102	14.81	33.75	33.60	15.46	15.36	33.93	66.67	32.99	14.71	26.58	16.78
1002.0	0.117	14.74	33.73	33.57	15.48	15.29	33.88	66.70	33.01	14.52	26.63	16.83
1001.9	0.139	14.64	33.68	33.61	15.47	15.31	33.91	66.71	33.05	14.80	26.64	16.81
1002.0	0.139	14.54	33.73	33.61	15.55	15.30	33.94	66.69	33.03	14.79	26.66	16.76
1002.0	0.164	14.98	33.67	33.63	15.45	15.32	33.96	66.71	33.02	14.43	26.66	16.84
1002.0	0.119	14.82	33.73	33.67	15.52	15.35	33.93	66.71	33.05	14.60	26.62	16.80
1002.0	0.146	14.66	33.74	33.66	15.48	15.29	33.92	66.72	33.06	14.76	26.65	16.79
1002.0	0.145	14.91	33.70	33.61	15.52	15.34	33.96	66.75	33.08	15.03	26.74	16.89

1002.0	0.131	14.97	33.75	33.67	15.49	15.34	33.96	66.73	33.05	14.55	26.68	16.81
1002.0	0.117	14.91	33.75	33.62	15.52	15.34	33.96	66.75	33.11	14.59	26.69	16.86
1002.1	0.122	14.57	33.80	33.64	15.48	15.32	33.96	66.79	33.13	14.39	26.65	16.84
1002.3	0.111	14.69	33.73	33.68	15.52	15.33	33.98	66.81	33.14	14.64	26.65	16.81
1001.9	0.111	14.99	33.75	33.70	15.45	15.35	34.04	66.85	33.11	14.64	26.67	16.81
1002.0	0.138	14.98	33.86	33.74	15.50	15.34	34.06	66.83	33.10	14.55	26.67	16.75
1001.9	0.116	14.90	33.82	33.74	15.47	15.34	34.08	66.81	33.11	14.46	26.71	16.80
1002.1	0.108	15.04	33.86	33.72	15.49	15.25	34.07	66.81	33.11	14.51	26.68	16.89
1001.9	0.111	14.64	33.82	33.76	15.48	15.26	34.09	66.82	33.18	14.19	26.65	16.86
1001.9	0.157	14.90	33.87	33.72	15.42	15.23	34.14	66.87	33.18	14.25	26.68	16.74
1002.1	0.083	15.08	33.84	33.81	15.46	15.14	34.10	66.79	33.23	14.41	26.68	16.84
1001.8	0.097	14.73	33.94	33.85	15.48	15.19	34.09	66.82	33.20	14.49	26.65	16.80

Table F-6. Continued

Indoor Wetbulb C	Evap		Outdoor Temp C	Cond Power kW	Cond Voltage V	Evap Chamber Pres in/H2O	Evap Diff Pres in/H2O	Evap			Evap Power kW	Refrig	Refrig
	Exit Wetbulb C	Outdoor Wetbulb C						Static Pres in/H2O	MFM Refrig lb/min	Evap Voltage V		Before MFM psig	After MFM psig
19.43	13.46	19.12	27.81	1.63	248.21	0.161	0.294	0.152	5.64	242.63	0.14	321.75	323.13
19.42	13.45	19.12	27.81	1.64	244.34	0.150	0.310	0.147	5.60	246.49	0.13	320.21	323.34
19.42	13.46	19.12	27.81	1.65	242.27	0.156	0.310	0.147	5.60	243.66	0.14	322.78	323.44
19.42	13.45	19.12	27.81	1.64	242.64	0.158	0.319	0.147	5.61	241.25	0.14	322.57	323.44
19.41	13.45	19.12	27.81	1.63	245.85	0.143	0.335	0.144	5.62	241.86	0.14	321.39	322.67
19.42	13.45	19.12	27.81	1.63	242.20	0.155	0.321	0.150	5.63	244.41	0.13	321.03	322.47
19.42	13.45	19.12	27.81	1.63	242.87	0.153	0.321	0.160	5.64	244.21	0.14	322.47	323.19
19.41	13.45	19.12	27.81	1.64	244.48	0.155	0.323	0.158	5.66	245.14	0.14	321.75	323.19
19.41	13.45	19.12	27.80	1.64	243.71	0.154	0.315	0.158	5.64	244.09	0.14	321.50	322.21
19.40	13.45	19.12	27.80	1.63	245.93	0.157	0.341	0.157	5.62	240.94	0.13	321.24	322.72
19.40	13.45	19.12	27.80	1.63	245.31	0.151	0.313	0.148	5.65	242.57	0.14	321.91	322.42
19.40	13.45	19.13	27.80	1.63	242.77	0.149	0.330	0.137	5.60	242.63	0.13	321.44	322.72
19.40	13.45	19.13	27.79	1.64	241.59	0.141	0.319	0.140	5.61	244.58	0.13	321.44	322.26
19.39	13.44	19.13	27.79	1.64	240.08	0.154	0.357	0.150	5.65	243.12	0.14	321.91	324.37
19.40	13.44	19.13	27.79	1.64	243.70	0.150	0.314	0.155	5.63	238.79	0.13	321.55	323.44
19.41	13.44	19.13	27.79	1.64	241.43	0.154	0.349	0.152	5.64	240.86	0.13	320.16	323.44
19.42	13.45	19.13	27.80	1.63	243.30	0.160	0.293	0.139	5.63	242.09	0.13	321.91	323.65
19.42	13.45	19.13	27.80	1.65	245.28	0.152	0.285	0.157	5.62	242.42	0.14	321.09	321.65
19.43	13.46	19.13	27.79	1.64	241.91	0.148	0.309	0.162	5.63	244.92	0.13	322.57	321.39
19.43	13.46	19.13	27.79	1.64	242.47	0.161	0.294	0.154	5.66	243.86	0.14	320.78	323.55
19.44	13.46	19.13	27.79	1.65	242.45	0.148	0.296	0.151	5.63	241.92	0.14	321.39	322.62
19.44	13.47	19.13	27.79	1.63	241.16	0.154	0.313	0.151	5.61	244.12	0.14	321.85	323.49
19.44	13.47	19.13	27.79	1.64	248.65	0.149	0.300	0.156	5.65	244.80	0.13	322.88	323.90
19.44	13.47	19.13	27.79	1.63	245.65	0.139	0.322	0.140	5.63	243.68	0.14	322.01	324.57
19.44	13.48	19.13	27.79	1.63	246.27	0.165	0.307	0.147	5.62	244.26	0.14	321.60	322.57
19.44	13.48	19.13	27.79	1.63	242.11	0.156	0.320	0.161	5.58	240.31	0.13	321.96	322.78
19.44	13.48	19.13	27.79	1.63	245.48	0.158	0.322	0.148	5.65	240.45	0.13	322.52	323.24
19.45	13.47	19.13	27.79	1.63	243.37	0.148	0.295	0.149	5.62	241.25	0.14	321.24	322.83
19.45	13.48	19.13	27.79	1.64	240.14	0.159	0.313	0.162	5.65	243.94	0.13	321.91	322.31
19.44	13.49	19.13	27.78	1.63	243.87	0.158	0.305	0.156	5.61	244.40	0.14	320.88	322.83
19.44	13.49	19.13	27.78	1.64	246.47	0.136	0.315	0.162	5.62	239.70	0.14	321.55	323.96
19.44	13.49	19.13	27.78	1.63	242.27	0.160	0.352	0.156	5.61	240.39	0.13	320.57	322.57
19.44	13.48	19.13	27.78	1.64	242.76	0.154	0.279	0.151	5.62	240.93	0.13	320.78	322.42
19.44	13.49	19.13	27.78	1.64	241.42	0.150	0.331	0.145	5.61	243.63	0.13	320.93	321.13
19.44	13.48	19.13	27.78	1.63	243.82	0.155	0.325	0.132	5.60	243.84	0.14	321.65	321.65
19.43	13.48	19.13	27.78	1.63	242.57	0.147	0.292	0.136	5.66	241.68	0.14	321.96	323.65
19.43	13.48	19.14	27.78	1.64	243.56	0.155	0.333	0.147	5.61	243.48	0.13	321.75	324.47
19.43	13.48	19.14	27.78	1.63	247.48	0.156	0.339	0.148	5.62	239.93	0.13	322.42	323.08
19.43	13.48	19.13	27.77	1.63	240.14	0.150	0.342	0.142	5.63	240.63	0.13	318.62	321.80
19.42	13.47	19.13	27.77	1.64	240.46	0.147	0.340	0.153	5.66	245.98	0.14	321.85	323.19
19.42	13.47	19.13	27.77	1.63	242.68	0.144	0.332	0.149	5.62	244.12	0.14	321.65	322.88
19.42	13.47	19.13	27.78	1.63	240.36	0.157	0.294	0.161	5.62	242.66	0.13	322.01	322.72
19.43	13.47	19.14	27.77	1.62	245.24	0.147	0.333	0.159	5.60	243.74	0.13	321.50	323.75
19.44	13.48	19.14	27.77	1.63	241.37	0.148	0.312	0.150	5.64	244.14	0.13	322.32	322.72
19.44	13.48	19.14	27.77	1.63	241.27	0.147	0.291	0.153	5.64	243.46	0.14	322.27	322.78
19.45	13.48	19.14	27.77	1.64	240.43	0.152	0.298	0.154	5.65	246.99	0.14	321.85	323.03
19.45	13.48	19.14	27.78	1.64	241.00	0.159	0.306	0.150	5.64	242.51	0.13	321.75	324.73
19.46	13.49	19.14	27.78	1.64	240.65	0.152	0.338	0.149	5.58	243.23	0.13	322.57	323.90
19.46	13.49	19.14	27.78	1.64	244.96	0.156	0.330	0.148	5.61	241.36	0.14	322.88	321.80
19.47	13.49	19.14	27.78	1.63	246.84	0.152	0.298	0.153	5.61	242.51	0.14	322.83	322.67

19.46	13.50	19.14	27.77	1.63	248.15	0.151	0.348	0.145	5.62	241.54	0.14	321.60	323.34
19.47	13.50	19.14	27.77	1.63	242.94	0.150	0.309	0.144	5.63	243.61	0.13	321.70	322.16
19.47	13.50	19.14	27.77	1.64	242.42	0.143	0.294	0.159	5.59	243.31	0.14	321.34	323.75
19.47	13.51	19.14	27.77	1.64	245.99	0.154	0.339	0.156	5.63	242.05	0.14	321.91	323.96
19.47	13.51	19.14	27.77	1.65	247.21	0.157	0.333	0.150	5.64	241.02	0.14	322.32	323.34
19.47	13.51	19.14	27.78	1.64	247.10	0.157	0.306	0.166	5.65	242.92	0.14	322.32	323.90
19.47	13.51	19.15	27.78	1.65	242.54	0.154	0.321	0.155	5.67	246.24	0.14	321.19	322.57
19.47	13.51	19.15	27.78	1.65	245.91	0.149	0.327	0.158	5.60	241.28	0.14	321.19	322.52
19.46	13.51	19.15	27.78	1.65	245.74	0.151	0.288	0.155	5.62	243.21	0.14	320.42	322.62
19.46	13.51	19.15	27.78	1.64	244.01	0.162	0.329	0.147	5.63	241.49	0.13	321.75	322.88
19.46	13.50	19.15	27.77	1.65	245.45	0.159	0.321	0.153	5.65	240.30	0.14	321.09	322.47
19.46	13.51	19.15	27.78	1.64	244.71	0.153	0.312	0.147	5.61	240.28	0.14	321.96	322.57
19.46	13.50	19.15	27.78	1.64	243.16	0.158	0.312	0.148	5.64	243.00	0.14	321.96	323.03
19.45	13.50	19.15	27.78	1.64	245.82	0.146	0.302	0.152	5.63	243.91	0.13	322.11	323.70
19.45	13.50	19.16	27.79	1.64	245.07	0.157	0.326	0.152	5.62	243.81	0.14	320.62	324.78
19.44	13.50	19.16	27.79	1.63	243.20	0.151	0.300	0.145	5.64	245.95	0.14	319.96	322.26
19.44	13.49	19.16	27.79	1.65	243.65	0.148	0.315	0.151	5.61	243.52	0.13	321.19	324.16
19.44	13.49	19.16	27.79	1.63	246.85	0.159	0.316	0.160	5.64	242.55	0.14	321.85	323.60
19.43	13.48	19.16	27.79	1.65	244.45	0.152	0.307	0.144	5.65	243.12	0.14	322.42	324.37
19.43	13.49	19.16	27.80	1.63	242.11	0.152	0.323	0.154	5.61	245.98	0.13	322.27	324.78
19.44	13.48	19.17	27.80	1.65	243.87	0.159	0.307	0.150	5.62	241.25	0.14	323.29	323.13
19.45	13.49	19.16	27.80	1.63	243.25	0.141	0.302	0.151	5.63	243.11	0.14	322.68	324.37
19.45	13.49	19.17	27.80	1.63	248.75	0.152	0.330	0.150	5.63	243.80	0.14	322.42	323.60
19.46	13.49	19.17	27.80	1.65	248.04	0.153	0.295	0.145	5.63	241.89	0.14	322.21	324.16
19.46	13.50	19.17	27.81	1.63	239.70	0.133	0.309	0.136	5.66	244.18	0.13	322.47	324.11
19.46	13.50	19.17	27.81	1.64	245.99	0.153	0.322	0.143	5.66	241.63	0.13	322.37	323.65
19.46	13.49	19.17	27.82	1.65	244.30	0.157	0.302	0.144	5.63	243.26	0.14	322.11	322.57
19.46	13.50	19.17	27.82	1.64	241.71	0.147	0.353	0.142	5.63	243.80	0.13	322.16	323.90
19.46	13.50	19.18	27.82	1.65	244.19	0.156	0.323	0.141	5.64	244.18	0.13	322.16	323.39
19.46	13.51	19.18	27.82	1.65	242.33	0.150	0.332	0.154	5.64	243.61	0.14	323.50	323.03
19.46	13.51	19.18	27.83	1.64	240.17	0.155	0.339	0.155	5.63	244.92	0.14	320.83	322.42
19.46	13.51	19.18	27.83	1.65	242.84	0.162	0.311	0.161	5.63	244.52	0.14	322.06	324.37
19.46	13.50	19.18	27.83	1.65	244.31	0.157	0.308	0.159	5.63	242.95	0.13	322.88	323.96
19.46	13.50	19.18	27.83	1.63	242.20	0.163	0.322	0.155	5.63	244.03	0.13	321.24	324.16
19.46	13.50	19.19	27.83	1.62	242.93	0.158	0.310	0.161	5.62	244.46	0.14	321.60	324.11
19.45	13.50	19.19	27.83	1.63	246.65	0.148	0.340	0.146	5.59	244.17	0.14	322.42	324.06
19.45	13.50	19.18	27.83	1.64	246.95	0.156	0.313	0.153	5.66	242.72	0.13	323.03	323.85
19.45	13.50	19.19	27.83	1.65	245.14	0.147	0.336	0.146	5.62	240.97	0.14	322.21	323.85
19.45	13.50	19.19	27.83	1.64	244.37	0.159	0.335	0.148	5.63	239.65	0.14	322.83	323.70
19.44	13.50	19.19	27.84	1.63	245.42	0.155	0.286	0.150	5.64	240.91	0.13	321.80	322.67
19.44	13.50	19.19	27.84	1.64	242.76	0.140	0.316	0.137	5.62	242.35	0.13	323.29	322.98
19.43	13.49	19.19	27.84	1.65	245.78	0.154	0.326	0.148	5.66	242.86	0.14	322.88	324.37
19.43	13.49	19.19	27.84	1.64	245.56	0.160	0.295	0.162	5.64	243.49	0.14	322.21	325.03
19.43	13.49	19.20	27.85	1.63	244.94	0.155	0.319	0.152	5.64	241.86	0.14	322.06	324.37
19.43	13.49	19.20	27.85	1.63	245.07	0.144	0.286	0.155	5.64	242.66	0.13	322.62	324.52
19.42	13.49	19.20	27.85	1.64	239.82	0.151	0.322	0.157	5.65	244.83	0.14	322.47	323.08
19.42	13.48	19.20	27.86	1.64	242.54	0.154	0.301	0.159	5.65	241.40	0.14	323.19	324.21
19.42	13.48	19.20	27.86	1.63	245.10	0.152	0.308	0.142	5.64	238.90	0.14	321.70	324.06
19.43	13.48	19.20	27.86	1.64	242.88	0.147	0.310	0.149	5.62	241.66	0.14	321.91	323.19
19.44	13.48	19.21	27.86	1.64	244.37	0.152	0.305	0.157	5.63	243.84	0.13	321.80	324.21
19.44	13.49	19.21	27.86	1.64	245.05	0.154	0.330	0.145	5.62	241.91	0.14	322.62	323.85
19.44	13.49	19.21	27.87	1.64	239.77	0.160	0.329	0.140	5.64	242.71	0.14	322.57	324.06
19.44	13.49	19.21	27.87	1.64	242.28	0.146	0.317	0.152	5.64	241.85	0.13	322.83	323.75
19.44	13.49	19.21	27.87	1.64	244.04	0.151	0.321	0.146	5.64	245.63	0.13	323.09	325.03
19.44	13.50	19.21	27.88	1.63	245.61	0.148	0.311	0.147	5.60	243.81	0.14	322.88	324.93
19.45	13.50	19.22	27.88	1.64	243.94	0.150	0.331	0.158	5.64	245.76	0.14	322.52	323.34
19.45	13.50	19.22	27.89	1.65	240.20	0.155	0.339	0.158	5.64	246.33	0.13	322.88	323.80
19.45	13.50	19.22	27.89	1.65	242.40	0.149	0.319	0.150	5.65	242.52	0.14	322.78	324.88
19.45	13.50	19.22	27.89	1.64	246.27	0.153	0.336	0.145	5.65	242.91	0.14	324.57	324.31

19.44	13.50	19.22	27.89	1.64	246.96	0.156	0.307	0.155	5.66	240.73	0.14	323.50	324.16
19.44	13.50	19.23	27.90	1.65	244.27	0.149	0.330	0.150	5.64	244.09	0.14	322.83	325.14
19.44	13.50	19.23	27.90	1.64	242.77	0.160	0.319	0.147	5.66	241.46	0.14	322.57	323.44
19.44	13.49	19.22	27.90	1.65	244.88	0.150	0.307	0.150	5.67	243.57	0.14	322.52	324.73
19.44	13.49	19.23	27.90	1.65	244.07	0.161	0.353	0.142	5.62	244.58	0.13	324.88	324.42
19.44	13.49	19.23	27.89	1.64	242.67	0.155	0.307	0.142	5.62	243.14	0.13	322.68	323.03
19.44	13.49	19.22	27.89	1.64	246.85	0.152	0.307	0.144	5.66	243.49	0.13	323.03	322.78
19.44	13.49	19.23	27.89	1.63	244.54	0.151	0.346	0.149	5.60	246.67	0.14	321.03	323.70
19.44	13.49	19.22	27.88	1.63	245.02	0.153	0.292	0.156	5.61	242.52	0.14	321.39	323.24
19.43	13.49	19.22	27.87	1.64	246.14	0.153	0.301	0.145	5.63	245.15	0.14	322.37	324.01
19.43	13.49	19.22	27.87	1.64	239.20	0.151	0.320	0.154	5.61	244.06	0.14	320.78	322.52
19.42	13.49	19.22	27.86	1.65	240.73	0.146	0.357	0.152	5.61	244.72	0.14	322.68	323.34
19.42	13.49	19.22	27.86	1.65	241.25	0.150	0.315	0.155	5.66	243.91	0.13	322.32	323.90
19.42	13.49	19.22	27.85	1.64	243.42	0.146	0.335	0.145	5.60	244.18	0.13	322.52	323.49
19.41	13.48	19.21	27.84	1.64	243.30	0.147	0.333	0.148	5.61	244.78	0.13	321.75	322.01
19.41	13.48	19.21	27.83	1.65	240.50	0.153	0.310	0.167	5.63	244.26	0.13	321.24	322.83
19.42	13.48	19.21	27.83	1.63	240.48	0.156	0.326	0.144	5.61	244.26	0.13	321.29	321.90
19.42	13.48	19.21	27.82	1.63	244.62	0.152	0.298	0.149	5.64	245.55	0.13	321.14	322.67
19.43	13.48	19.21	27.81	1.64	246.70	0.152	0.323	0.153	5.63	242.82	0.14	320.78	322.93
19.43	13.48	19.21	27.81	1.64	247.56	0.154	0.313	0.147	5.58	240.57	0.14	321.19	322.88
19.43	13.49	19.20	27.80	1.64	245.51	0.152	0.297	0.157	5.61	242.63	0.14	319.85	322.37
19.44	13.48	19.20	27.80	1.63	247.71	0.156	0.325	0.149	5.62	241.91	0.14	321.91	322.42
19.44	13.49	19.20	27.79	1.63	244.51	0.153	0.324	0.160	5.62	242.68	0.14	320.62	322.72
19.44	13.49	19.20	27.78	1.63	245.90	0.155	0.336	0.144	5.62	238.62	0.13	321.24	322.57
19.45	13.49	19.20	27.78	1.64	244.71	0.150	0.322	0.148	5.62	242.49	0.14	322.21	322.62
19.45	13.49	19.20	27.78	1.64	244.16	0.150	0.305	0.149	5.62	242.97	0.14	321.09	322.31
19.45	13.49	19.20	27.77	1.65	238.86	0.152	0.312	0.150	5.60	242.74	0.14	320.37	321.70
19.45	13.49	19.19	27.76	1.63	244.41	0.156	0.298	0.156	5.61	242.15	0.13	320.47	322.21
19.45	13.50	19.19	27.76	1.63	246.48	0.149	0.316	0.145	5.60	242.71	0.14	321.24	321.70
19.45	13.50	19.19	27.75	1.62	246.42	0.163	0.302	0.152	5.60	242.25	0.14	320.52	322.47
19.45	13.50	19.19	27.75	1.63	243.44	0.144	0.295	0.149	5.61	243.37	0.13	321.91	323.44
19.45	13.50	19.19	27.74	1.63	243.71	0.158	0.313	0.157	5.61	242.97	0.13	320.26	320.47
19.45	13.50	19.18	27.73	1.64	240.17	0.152	0.287	0.149	5.62	244.12	0.14	320.11	322.57
19.44	13.50	19.18	27.73	1.63	244.85	0.151	0.319	0.156	5.62	246.12	0.14	320.37	322.16
19.45	13.50	19.18	27.73	1.63	238.29	0.150	0.331	0.141	5.61	245.35	0.13	321.29	321.49
19.44	13.49	19.18	27.72	1.63	241.39	0.156	0.336	0.154	5.62	245.04	0.14	321.14	322.62
19.44	13.49	19.18	27.71	1.64	246.85	0.150	0.315	0.142	5.62	241.77	0.14	321.03	321.65
19.44	13.49	19.18	27.71	1.63	242.33	0.152	0.296	0.153	5.60	239.54	0.13	319.65	321.13
19.43	13.49	19.18	27.70	1.64	237.88	0.144	0.321	0.164	5.60	245.23	0.14	320.32	321.34
19.43	13.49	19.18	27.70	1.63	245.14	0.148	0.298	0.143	5.59	239.47	0.14	321.14	322.62
19.42	13.49	19.18	27.70	1.64	243.10	0.147	0.281	0.140	5.60	241.72	0.13	320.78	321.54
19.42	13.48	19.18	27.70	1.63	243.62	0.151	0.334	0.151	5.63	240.34	0.13	320.98	321.90
19.42	13.48	19.18	27.70	1.63	244.74	0.156	0.311	0.153	5.63	245.24	0.14	320.57	322.11
19.43	13.48	19.18	27.70	1.64	239.80	0.147	0.315	0.146	5.62	244.21	0.14	321.03	322.11
19.43	13.48	19.18	27.70	1.62	243.74	0.149	0.316	0.147	5.63	243.98	0.14	321.24	323.08
19.44	13.48	19.18	27.70	1.64	246.14	0.152	0.329	0.161	5.65	242.51	0.14	321.29	322.11
19.44	13.48	19.19	27.71	1.63	244.90	0.155	0.357	0.143	5.66	242.63	0.14	320.47	321.24
19.44	13.49	19.19	27.72	1.64	244.54	0.153	0.318	0.153	5.62	243.32	0.14	321.91	323.70
19.44	13.49	19.19	27.72	1.65	239.88	0.153	0.333	0.147	5.61	242.88	0.13	320.93	322.93
19.45	13.49	19.20	27.73	1.63	241.25	0.159	0.342	0.149	5.59	241.19	0.13	323.24	323.80
19.45	13.49	19.20	27.73	1.64	246.22	0.147	0.292	0.150	5.62	242.80	0.13	321.75	323.24
19.45	13.50	19.20	27.74	1.64	241.65	0.149	0.305	0.150	5.61	244.09	0.13	321.91	322.67
19.46	13.50	19.20	27.75	1.63	241.68	0.159	0.292	0.151	5.65	242.52	0.14	323.14	322.93
19.45	13.50	19.20	27.75	1.64	245.17	0.156	0.316	0.159	5.61	242.94	0.14	321.44	323.34
19.46	13.50	19.21	27.76	1.63	241.97	0.157	0.317	0.152	5.63	238.42	0.13	320.57	323.24
19.46	13.51	19.21	27.76	1.65	240.37	0.150	0.294	0.145	5.59	248.18	0.13	323.09	325.49
19.46	13.51	19.21	27.77	1.63	246.18	0.155	0.287	0.145	5.64	242.00	0.13	322.01	323.96
19.46	13.51	19.22	27.78	1.64	239.82	0.151	0.291	0.150	5.64	242.51	0.14	323.19	324.11
19.46	13.51	19.22	27.79	1.65	240.91	0.155	0.305	0.149	5.64	242.37	0.13	323.19	324.11

19.45	13.51	19.22	27.79	1.65	241.08	0.151	0.307	0.146	5.63	243.26	0.14	322.11	323.60
19.45	13.51	19.23	27.80	1.64	241.67	0.152	0.311	0.147	5.63	243.26	0.13	322.01	324.11
19.46	13.51	19.23	27.81	1.64	242.51	0.158	0.323	0.143	5.65	240.97	0.14	323.24	324.88
19.45	13.51	19.23	27.82	1.65	241.19	0.152	0.312	0.156	5.67	244.34	0.13	323.60	323.60
19.45	13.51	19.24	27.83	1.65	245.17	0.151	0.323	0.159	5.63	244.01	0.13	324.11	324.93
19.44	13.51	19.24	27.84	1.63	241.28	0.155	0.354	0.158	5.64	244.31	0.13	323.34	324.26
19.44	13.51	19.25	27.85	1.65	245.74	0.155	0.291	0.157	5.66	241.59	0.13	322.42	321.60
19.44	13.50	19.25	27.85	1.64	242.74	0.148	0.312	0.140	5.63	243.20	0.13	322.47	324.11
19.44	13.50	19.25	27.86	1.64	240.26	0.158	0.343	0.159	5.63	243.11	0.13	322.68	324.06
19.44	13.49	19.25	27.87	1.65	244.28	0.155	0.322	0.146	5.64	242.17	0.13	323.65	325.44
19.44	13.50	19.26	27.88	1.66	245.07	0.150	0.329	0.137	5.65	246.13	0.14	323.39	325.44
19.44	13.49	19.26	27.89	1.64	241.65	0.150	0.327	0.156	5.62	244.18	0.14	324.52	325.39

Table F-6. Continued

Refrig Press Evap In psig	Refrig Press Evap Out psig	Refrig Press Comp In psig	Refrig Press Cond Out psig	Refrig Press Comp Out psig	Condinsate weight oz	Evap Rho Inlet lb/ft ³	Evap Rho Nozzle lb/ft ³	Evap CFM Nozzle CFM	Evap CFM Outlet CFM	Capacity Balance Pass/Fail	Total Cooling Capacity Btu/hr
320.44	130.09	130.17	321.84	339.05	311.46	0.07224	0.07466	764.3	760.3	PASS	26311.1
318.18	129.17	128.68	320.92	335.46	316.58	0.07222	0.07467	783.8	779.8	PASS	26516.3
319.72	128.66	130.79	321.53	340.79	314.84	0.07222	0.07466	747.1	743.1	PASS	25257.5
319.41	129.53	128.79	321.48	339.46	317.77	0.07225	0.07468	800.8	796.6	PASS	26285.3
318.75	131.48	129.51	321.69	338.33	315.02	0.07223	0.07467	769.4	765.3	PASS	25352.4
316.54	131.12	131.87	321.74	340.13	308.74	0.07222	0.07468	767.2	763.3	PASS	25717.0
319.93	130.04	131.56	322.15	339.41	316.62	0.07223	0.07466	805.2	800.7	PASS	25896.8
318.44	129.38	130.12	322.30	341.26	317.84	0.07223	0.07466	775.9	771.7	PASS	24338.9
320.34	131.02	131.46	321.53	339.92	315.57	0.07224	0.07466	792.1	787.9	PASS	25280.0
316.75	129.07	128.58	321.84	340.08	316.65	0.07224	0.07466	783.0	778.9	PASS	24978.2
317.21	130.35	130.63	321.89	339.67	318.78	0.07222	0.07468	768.2	764.4	PASS	25957.4
318.23	129.53	130.27	322.05	340.79	313.13	0.07222	0.07468	754.6	750.7	PASS	25947.7
317.82	130.71	130.74	321.89	339.31	313.83	0.07224	0.07464	779.6	775.3	PASS	25718.3
318.39	129.68	129.40	320.97	338.85	317.56	0.07221	0.07466	783.2	779.0	PASS	25799.1
319.98	129.74	129.30	321.53	339.41	322.30	0.07223	0.07466	774.1	769.9	PASS	26786.4
316.85	128.91	130.84	321.23	337.31	318.57	0.07223	0.07466	792.2	788.0	PASS	26010.1
320.34	132.51	131.15	319.38	337.10	321.70	0.07221	0.07465	746.2	742.2	PASS	25131.6
318.08	130.45	130.94	321.84	338.74	320.90	0.07221	0.07465	776.9	772.7	PASS	26093.6
317.10	130.30	129.35	319.74	340.79	321.98	0.07223	0.07466	761.5	757.5	PASS	24416.6
319.16	131.69	132.22	322.51	339.20	316.97	0.07220	0.07466	757.7	753.8	PASS	25985.8
318.59	130.86	130.79	323.53	339.87	322.16	0.07222	0.07465	786.9	782.6	PASS	26181.8
319.46	129.63	129.86	321.02	338.69	316.13	0.07223	0.07464	774.1	769.7	PASS	26575.5
318.90	130.04	129.61	321.53	338.43	323.73	0.07221	0.07466	767.8	763.7	PASS	25918.2
320.80	129.27	131.92	321.28	340.49	321.22	0.07222	0.07468	779.7	775.9	PASS	26424.1
317.93	128.97	130.84	317.89	337.56	323.48	0.07222	0.07466	763.5	759.7	PASS	25492.0
316.69	129.53	130.79	322.15	339.51	317.70	0.07221	0.07464	801.1	796.8	PASS	26169.9
319.05	129.84	129.09	321.94	337.05	320.69	0.07220	0.07465	777.0	773.0	PASS	25159.4
318.75	130.97	129.40	320.15	337.97	332.43	0.07222	0.07466	777.8	773.9	PASS	25944.4
319.16	127.68	130.74	321.94	340.33	321.98	0.07223	0.07466	789.5	785.5	PASS	25170.8
319.26	129.99	131.20	321.43	339.20	318.92	0.07222	0.07466	774.7	770.7	PASS	25270.8
318.90	130.66	130.58	322.20	337.56	324.21	0.07220	0.07464	803.3	799.0	PASS	25851.5
318.69	132.56	131.61	321.48	338.85	323.41	0.07220	0.07464	792.8	788.6	PASS	25431.3
318.59	131.33	130.94	322.61	339.67	321.22	0.07221	0.07463	766.1	761.9	PASS	25331.7
318.34	130.56	130.69	323.69	339.61	330.21	0.07222	0.07466	795.3	791.3	PASS	25563.7
319.31	130.40	130.74	320.25	337.77	321.43	0.07221	0.07464	755.6	751.5	PASS	25485.9
320.34	131.12	130.07	321.33	336.13	321.98	0.07220	0.07465	760.3	756.3	PASS	26641.3
318.44	130.86	129.40	319.28	337.92	323.41	0.07221	0.07464	778.8	774.6	PASS	25490.0
321.36	131.22	131.81	320.61	338.69	323.66	0.07220	0.07467	780.0	776.1	PASS	25304.0
317.98	131.63	129.86	321.23	338.79	322.71	0.07221	0.07462	792.8	788.5	PASS	25267.0
318.75	130.61	126.79	320.76	341.82	327.28	0.07221	0.07466	800.7	796.5	PASS	25811.3
319.46	132.61	130.99	322.71	340.44	325.33	0.07221	0.07463	774.2	769.9	PASS	25214.5
317.93	128.71	129.25	322.35	341.36	323.79	0.07221	0.07465	765.7	761.8	PASS	25283.8
319.41	130.45	129.56	321.59	335.72	329.26	0.07220	0.07465	778.3	774.3	PASS	25420.3
318.39	129.48	130.33	320.66	338.74	324.84	0.07220	0.07464	775.6	771.6	PASS	26325.2
317.72	130.66	129.92	320.76	340.28	326.93	0.07221	0.07464	781.3	777.2	PASS	26359.9
319.57	129.74	131.20	322.46	340.79	328.81	0.07221	0.07466	750.8	747.1	PASS	26389.4
318.23	129.79	130.12	323.12	339.15	329.89	0.07220	0.07466	753.7	750.0	PASS	26473.9
317.87	130.25	132.02	321.28	338.95	328.85	0.07221	0.07465	796.8	792.7	PASS	26066.6
319.16	130.40	129.61	320.46	338.69	328.25	0.07221	0.07464	769.7	765.7	PASS	25421.9
319.98	130.15	130.02	322.56	339.61	323.83	0.07220	0.07462	779.5	775.3	PASS	25949.3

321.26	130.86	130.94	322.56	336.74	331.98	0.07222	0.07464	786.2	782.0	PASS	25582.9
317.77	130.04	130.74	322.05	339.51	327.00	0.07220	0.07464	765.8	761.9	PASS	26018.0
319.98	130.76	129.45	319.53	339.61	331.29	0.07222	0.07463	789.7	785.5	PASS	25551.2
320.18	130.86	131.20	319.84	337.00	328.32	0.07222	0.07463	789.1	784.8	PASS	25444.4
318.80	131.22	130.94	320.25	338.33	326.27	0.07222	0.07464	779.1	775.1	PASS	25168.6
319.82	131.43	130.74	321.79	339.72	330.21	0.07221	0.07463	781.6	777.5	PASS	25598.8
318.80	131.53	129.45	321.79	338.38	328.08	0.07222	0.07464	790.7	786.6	PASS	25710.7
319.26	131.17	131.71	321.79	338.08	325.89	0.07220	0.07465	764.6	760.6	PASS	25740.8
318.39	130.97	130.94	322.56	339.15	330.45	0.07222	0.07464	779.5	775.4	PASS	26185.7
315.31	129.94	130.38	322.05	339.36	328.15	0.07221	0.07463	738.2	734.3	PASS	25409.6
317.31	129.07	131.15	321.38	339.20	334.66	0.07223	0.07465	771.0	767.2	PASS	25538.7
318.69	130.66	130.74	322.20	340.69	329.93	0.07222	0.07464	769.4	765.2	PASS	26802.4
319.36	130.92	128.22	321.12	338.79	337.17	0.07221	0.07462	762.1	757.8	PASS	25601.3
318.03	129.68	129.76	320.66	338.18	331.84	0.07220	0.07463	767.4	763.4	PASS	26480.0
319.87	131.58	131.87	322.15	340.08	328.18	0.07222	0.07464	767.7	763.8	PASS	26140.2
319.46	130.61	131.56	323.18	339.87	331.11	0.07220	0.07463	753.5	749.6	PASS	25741.5
321.16	131.94	129.86	320.20	339.31	334.25	0.07219	0.07462	796.5	792.1	PASS	26422.7
319.87	131.17	131.15	323.74	338.18	333.79	0.07221	0.07462	794.2	789.7	PASS	25689.7
319.05	131.22	130.22	322.51	336.33	332.23	0.07221	0.07462	769.0	764.7	PASS	25325.9
319.41	129.89	129.61	322.10	339.92	337.38	0.07220	0.07463	789.8	785.5	PASS	25798.9
318.64	128.76	131.15	322.10	340.64	333.03	0.07219	0.07460	761.0	756.8	PASS	24828.1
320.23	130.86	130.07	319.89	338.59	332.96	0.07221	0.07462	801.7	797.3	PASS	25487.2
319.67	130.30	130.63	321.23	338.33	336.06	0.07220	0.07463	772.1	768.0	PASS	25878.1
320.64	130.81	129.71	322.10	338.95	329.89	0.07222	0.07463	766.9	762.8	PASS	24652.4
321.41	131.22	129.30	321.33	340.13	329.61	0.07223	0.07464	776.0	771.9	PASS	26292.9
319.82	131.02	129.61	323.28	339.46	335.95	0.07222	0.07462	772.6	768.5	PASS	25470.1
317.87	131.07	129.66	320.05	338.54	336.16	0.07222	0.07462	760.4	756.2	PASS	25575.3
319.11	130.81	132.48	322.66	340.74	336.93	0.07222	0.07461	789.1	784.6	PASS	25583.5
320.18	131.38	131.20	322.92	340.13	335.26	0.07221	0.07460	769.5	765.2	PASS	25016.1
319.36	130.76	128.79	322.05	339.87	340.55	0.07222	0.07462	801.0	796.6	PASS	25102.2
319.31	130.81	130.99	321.69	339.56	338.29	0.07221	0.07462	773.0	768.9	PASS	24790.5
320.34	131.58	129.20	322.30	338.38	336.86	0.07221	0.07464	760.0	756.2	PASS	25058.7
319.46	130.09	131.66	321.38	337.82	338.43	0.07222	0.07463	776.3	772.1	PASS	25285.8
319.21	131.43	131.76	324.46	339.67	334.21	0.07222	0.07464	774.4	770.2	PASS	25133.1
320.54	131.43	130.79	321.33	337.56	341.56	0.07221	0.07463	795.5	791.3	PASS	25929.0
319.72	128.91	130.99	321.38	339.36	338.81	0.07221	0.07462	761.9	757.8	PASS	25653.2
320.54	130.15	133.20	321.28	339.31	340.94	0.07223	0.07462	766.9	762.9	PASS	25973.7
319.72	130.97	130.79	320.35	337.72	340.41	0.07219	0.07463	783.6	779.4	NO TEST	26936.2
319.16	130.56	130.94	322.15	340.33	335.40	0.07221	0.07464	738.5	734.6	PASS	25520.4
320.03	130.86	131.04	323.28	340.90	339.54	0.07220	0.07464	724.9	721.2	PASS	26324.2
320.80	130.76	129.86	320.97	337.25	339.02	0.07221	0.07463	780.3	776.1	PASS	25683.0
318.28	128.50	130.53	323.18	338.64	340.59	0.07220	0.07463	771.4	767.4	PASS	25576.6
320.49	130.35	130.94	323.38	338.85	339.96	0.07222	0.07463	764.4	760.2	PASS	26483.8
319.05	132.40	131.61	322.00	339.87	337.00	0.07220	0.07461	787.5	783.1	PASS	25596.1
320.03	131.43	130.22	321.59	339.05	342.57	0.07223	0.07462	785.3	780.9	PASS	26409.3
319.31	129.43	130.79	320.92	340.59	343.76	0.07223	0.07461	810.8	806.3	PASS	24861.8
318.80	129.33	130.27	323.53	341.72	342.33	0.07223	0.07462	764.5	760.2	PASS	25805.2
319.77	129.43	130.84	323.84	339.82	339.86	0.07221	0.07464	780.9	776.7	PASS	25916.4
318.49	130.71	131.40	322.71	341.51	337.77	0.07221	0.07463	762.7	758.5	PASS	25341.6
319.46	132.92	131.51	323.53	339.82	344.35	0.07219	0.07461	771.8	767.4	PASS	25753.5
319.41	130.45	130.99	321.69	339.00	342.89	0.07221	0.07463	780.7	776.5	PASS	25769.1
319.93	128.50	130.17	322.35	340.59	343.27	0.07222	0.07463	766.3	762.2	PASS	25528.3
318.85	129.38	130.02	323.74	340.08	344.66	0.07221	0.07460	810.1	805.7	PASS	25813.8
320.39	132.25	130.33	321.59	338.28	343.55	0.07222	0.07463	771.6	767.5	PASS	25048.8
320.54	132.76	132.43	323.38	338.43	344.11	0.07224	0.07462	776.7	772.4	PASS	25443.1
320.44	131.33	131.10	323.07	340.28	342.40	0.07221	0.07463	794.7	790.5	PASS	25182.1
319.36	130.40	130.94	322.92	341.10	344.04	0.07221	0.07463	796.9	792.8	PASS	24670.1
320.34	131.17	130.99	320.76	337.87	340.45	0.07223	0.07462	784.9	780.7	PASS	24748.7
320.49	130.92	130.79	322.56	340.95	337.38	0.07222	0.07464	768.2	764.1	PASS	25028.8

320.49	130.97	131.97	323.53	340.08	341.28	0.07221	0.07463	774.1	770.0	PASS	25859.6
319.67	129.43	130.07	323.38	340.79	343.65	0.07222	0.07464	778.9	774.9	PASS	26212.4
319.46	130.51	131.30	323.79	340.18	348.46	0.07221	0.07462	747.2	743.1	PASS	25999.8
320.54	131.27	130.48	323.12	340.59	342.75	0.07221	0.07463	782.7	778.6	PASS	26362.5
318.18	131.84	130.22	321.33	341.36	344.38	0.07222	0.07461	765.6	761.4	PASS	25340.9
318.08	131.17	130.48	323.02	340.90	344.28	0.07223	0.07463	763.5	759.3	PASS	25577.0
320.23	131.38	131.04	322.05	340.79	342.82	0.07220	0.07461	769.0	764.7	PASS	26221.2
320.08	130.76	131.51	322.35	339.72	344.11	0.07220	0.07462	776.2	771.9	PASS	25773.8
320.08	132.76	131.76	322.87	340.03	345.33	0.07221	0.07463	765.5	761.3	PASS	25082.7
318.64	130.66	130.74	321.48	340.44	346.89	0.07221	0.07461	743.6	739.5	PASS	26112.1
320.64	130.40	130.63	321.48	339.41	343.76	0.07222	0.07463	789.7	785.5	PASS	26005.8
317.93	129.22	130.48	324.05	339.77	349.89	0.07221	0.07462	792.7	788.4	PASS	25054.8
319.72	130.61	129.15	322.00	339.56	347.03	0.07220	0.07462	794.5	790.2	PASS	25724.9
319.62	130.51	131.10	320.35	337.41	349.23	0.07223	0.07461	776.2	772.0	PASS	25196.4
318.39	130.56	130.84	322.05	338.85	345.92	0.07221	0.07462	760.1	755.9	PASS	23940.4
317.77	129.58	130.74	322.35	339.97	350.72	0.07222	0.07462	781.7	777.3	PASS	25509.6
318.85	129.94	130.33	321.48	340.38	350.97	0.07223	0.07461	752.3	748.1	PASS	25622.7
318.13	130.86	131.51	321.84	337.87	348.04	0.07221	0.07463	752.1	748.0	PASS	25599.4
319.72	131.63	130.69	321.48	339.67	341.84	0.07220	0.07464	768.1	764.2	PASS	26306.3
319.16	130.35	130.94	321.69	338.33	351.80	0.07222	0.07463	746.9	743.0	PASS	25851.7
321.16	130.51	130.63	319.58	337.56	350.76	0.07219	0.07465	768.6	764.7	PASS	26397.3
318.85	129.58	129.76	322.00	337.82	349.68	0.07220	0.07462	765.6	761.6	PASS	25674.7
316.18	129.48	128.89	318.25	338.43	354.07	0.07222	0.07461	779.6	775.4	PASS	26396.6
316.90	130.86	128.89	321.07	338.49	354.24	0.07221	0.07462	775.2	771.1	PASS	25623.7
319.31	130.56	130.43	320.56	338.23	353.30	0.07221	0.07463	770.4	766.3	PASS	25504.9
320.39	131.33	129.92	320.61	338.28	346.72	0.07222	0.07461	789.0	784.7	PASS	26457.7
317.16	130.04	132.12	321.84	339.20	347.97	0.07220	0.07462	756.3	752.4	PASS	25129.8
318.39	130.20	129.35	322.00	339.46	353.20	0.07221	0.07461	772.8	768.6	PASS	24903.3
318.34	129.74	131.97	321.02	337.77	353.48	0.07221	0.07461	775.0	771.0	PASS	25777.8
318.44	130.71	129.97	320.15	336.79	354.07	0.07220	0.07463	763.6	759.5	PASS	24847.8
318.23	129.43	129.61	323.43	339.10	350.66	0.07222	0.07463	777.3	773.2	PASS	26313.8
315.87	131.53	130.53	321.07	338.49	351.63	0.07221	0.07464	779.5	775.6	PASS	25997.8
317.26	130.15	130.33	319.12	338.18	352.95	0.07221	0.07463	773.3	769.4	PASS	25887.6
320.08	131.63	130.79	321.07	337.15	355.60	0.07220	0.07461	797.1	792.7	PASS	25518.5
317.98	130.51	129.40	318.92	336.43	356.54	0.07221	0.07462	766.1	761.9	PASS	25535.8
320.03	129.63	128.84	319.17	337.82	359.26	0.07221	0.07463	807.3	803.1	PASS	25967.3
317.93	130.30	130.89	320.87	338.13	357.07	0.07220	0.07461	767.5	763.3	PASS	25149.7
314.64	129.74	129.04	319.84	339.92	357.20	0.07221	0.07461	770.2	766.0	PASS	25219.7
318.75	130.15	131.46	319.94	338.33	358.63	0.07220	0.07461	799.6	795.2	PASS	26341.6
320.13	131.07	130.74	321.02	336.13	358.56	0.07220	0.07461	762.0	757.9	PASS	25105.6
318.13	130.61	129.51	320.76	337.87	355.43	0.07220	0.07461	777.5	773.0	PASS	25058.9
318.80	130.45	129.66	320.71	338.49	358.22	0.07220	0.07463	778.9	774.7	PASS	25494.9
319.21	130.35	130.69	320.76	337.92	363.65	0.07221	0.07461	775.9	771.5	PASS	25963.1
317.87	130.97	130.69	321.12	338.59	358.25	0.07221	0.07462	772.9	768.6	PASS	25158.5
317.21	130.30	129.15	320.05	337.20	354.87	0.07220	0.07462	753.3	749.3	PASS	25162.4
319.31	132.35	131.10	321.28	338.64	355.95	0.07219	0.07461	787.3	783.0	PASS	26528.9
318.85	131.48	131.40	323.18	339.72	356.89	0.07221	0.07462	777.9	773.7	PASS	26125.0
318.28	130.45	130.84	318.30	338.13	359.23	0.07220	0.07461	773.2	768.8	PASS	25915.3
318.90	130.76	129.71	320.35	337.36	361.32	0.07221	0.07462	791.0	786.7	PASS	26349.6
317.10	129.89	132.07	322.10	340.49	358.35	0.07220	0.07462	772.4	768.2	PASS	25143.3
320.23	131.48	130.22	321.48	339.41	357.94	0.07219	0.07464	773.9	770.0	PASS	26467.6
318.34	129.74	130.99	321.64	340.44	358.28	0.07221	0.07463	755.6	751.6	PASS	25879.3
320.13	131.02	130.17	322.61	338.79	365.36	0.07220	0.07461	766.8	762.6	PASS	25229.2
319.41	131.99	131.76	322.00	339.20	361.42	0.07220	0.07461	777.2	772.9	PASS	25788.4
321.16	130.97	131.25	322.05	340.54	356.82	0.07220	0.07463	765.3	761.5	PASS	25845.4
320.49	131.07	129.76	321.94	340.13	359.05	0.07220	0.07461	763.8	759.6	PASS	25712.3
320.49	131.48	131.97	323.64	340.64	359.40	0.07221	0.07463	733.7	729.9	PASS	25194.6
319.11	130.61	131.15	322.35	340.64	358.74	0.07220	0.07463	751.5	747.6	PASS	25758.5
321.41	130.86	130.33	321.64	339.87	359.02	0.07217	0.07459	779.0	774.7	PASS	26455.6

319.46	132.15	130.79	322.82	340.85	360.86	0.07219	0.07462	766.2	762.1	PASS	25123.0
319.36	131.74	129.20	322.35	340.44	363.44	0.07219	0.07460	786.0	781.8	PASS	25655.4
319.41	129.43	129.30	323.48	340.90	362.50	0.07220	0.07461	782.1	777.8	PASS	26656.2
319.57	130.15	131.04	323.48	339.00	360.31	0.07220	0.07462	781.0	776.9	PASS	24891.9
321.67	131.17	130.94	323.33	340.28	364.17	0.07219	0.07461	801.2	796.7	PASS	25166.0
321.00	131.17	131.35	322.20	340.79	360.90	0.07219	0.07463	797.4	793.3	PASS	24183.6
319.26	130.35	130.79	323.79	340.18	357.94	0.07219	0.07463	758.8	754.7	PASS	24820.3
319.82	131.02	130.69	324.51	340.90	364.90	0.07219	0.07460	782.9	778.5	PASS	25787.4
319.72	129.68	131.56	323.64	339.51	359.96	0.07219	0.07460	783.7	779.4	PASS	25297.0
321.05	131.12	130.12	322.61	340.18	367.76	0.07219	0.07464	763.3	759.2	PASS	24824.0
321.26	131.58	130.94	323.89	341.62	367.97	0.07218	0.07460	761.5	757.3	PASS	25459.9
320.90	131.07	127.97	323.07	340.95	367.10	0.07219	0.07461	788.4	784.2	PASS	25285.0

Table F-6. Continued

Sensible Cooling Capacity	Latent Cooling Capacity	Degree of Sub- cooling	Degree of Super- heat	Refrig Cooling Capacity	Time
Btu/hr	Btu/hr	F	F	Btu/hr	hhmmss
17383.5	8927.6	8.7	13.3	25338.0	133130
17553.5	8962.7	8.6	13.3	25229.2	133140
16662.1	8595.4	8.9	13.5	25308.9	133150
17408.3	8877.1	8.7	13.4	25313.2	133200
16766.2	8586.1	8.7	12.9	25234.0	133210
17043.5	8673.6	8.6	13.5	25286.6	133220
17067.8	8829.0	8.6	13.5	25257.4	133230
16093.2	8245.7	8.6	13.2	25284.4	133240
16761.1	8518.9	8.5	13.2	25289.1	133250
16505.5	8472.8	8.4	13.5	25262.8	133300
17260.0	8697.4	8.6	13.0	25167.2	133310
17262.7	8685.0	8.7	12.9	25244.7	133320
17131.5	8586.8	8.7	13.1	25259.5	133330
17235.4	8563.8	8.5	13.4	25249.7	133340
17829.8	8956.6	8.6	13.3	25279.3	133350
17263.5	8746.6	8.6	13.1	25255.0	133400
16736.8	8394.7	8.5	13.2	25334.1	133410
17260.4	8833.2	8.6	13.5	25316.1	133420
16023.6	8393.1	8.6	13.1	25356.6	133430
17195.9	8789.9	8.6	13.4	25327.1	133440
17297.8	8884.0	8.7	13.4	25358.4	133450
17581.3	8994.3	8.7	12.4	25160.2	133500
17098.6	8819.7	8.6	13.1	25207.8	133510
17380.8	9043.3	8.5	13.6	25294.7	133520
16820.7	8671.3	8.8	13.7	25338.8	133530
17277.6	8892.3	8.7	13.9	25387.1	133540
16628.3	8531.1	8.8	13.8	25335.7	133550
17188.2	8756.2	8.6	14.0	25391.4	133600
16606.1	8564.8	8.7	13.3	25311.1	133610
16771.2	8499.6	8.6	13.4	25285.3	133620
17127.1	8724.4	8.7	13.2	25313.5	133630
16847.9	8583.4	8.6	13.7	25387.9	133640
16702.2	8629.6	8.7	13.3	25275.1	133650
16885.6	8678.1	8.6	13.2	25296.9	133700
16969.0	8516.9	8.8	13.0	25294.0	133710
17679.2	8962.2	8.7	13.3	25262.2	133720
16940.4	8549.6	8.8	13.1	25267.9	133730
16795.5	8508.5	8.7	13.2	25277.2	133740
16764.5	8502.5	8.6	13.5	25327.1	133750
17256.6	8554.6	8.7	13.1	25196.7	133810
16804.7	8409.8	8.7	13.2	25224.0	133820
16800.4	8483.4	8.8	13.5	25300.0	133830
16867.1	8553.2	8.8	13.0	25245.7	133840
17484.1	8841.1	8.9	13.2	25278.9	133850
17403.3	8956.6	8.7	13.6	25300.7	133900
17516.3	8873.0	8.7	13.1	25319.4	133910
17566.5	8907.5	8.7	13.5	25315.1	133920
17146.1	8920.5	8.9	13.5	25335.2	133930
16814.7	8607.3	8.7	13.5	25321.0	133940
17138.7	8810.7	8.5	13.7	25250.3	133950

16811.2	8771.7	8.6	13.6	25323.2	134000
17237.5	8780.4	8.7	13.2	25328.5	134010
16849.1	8702.0	8.7	13.7	25297.3	134020
16781.8	8662.6	8.7	14.0	25334.4	134030
16579.8	8588.8	8.8	13.9	25407.4	134040
16865.0	8733.8	8.7	13.8	25411.4	134050
16920.5	8790.3	8.7	14.0	25381.0	134100
16901.6	8839.2	8.8	13.1	25258.5	134110
17156.9	9028.8	8.9	13.5	25280.8	134120
16701.1	8708.5	8.7	13.4	25328.9	134130
16701.0	8837.7	8.9	13.2	25223.8	134140
17717.6	9084.8	8.7	13.4	25252.0	134150
16863.8	8737.5	8.8	13.3	25264.8	134200
17586.2	8893.8	8.8	13.7	25403.3	134210
17465.5	8674.7	8.6	13.5	25333.6	134220
17069.9	8671.6	8.9	13.3	25345.6	134230
17503.7	8919.0	8.6	13.1	25240.4	134240
17021.0	8668.7	8.8	13.4	25258.2	134250
16759.7	8566.2	8.7	13.2	25329.7	134300
17102.1	8696.8	8.8	12.3	25235.2	134310
16406.4	8421.7	8.8	13.2	25277.2	134320
16877.7	8609.5	8.6	13.2	25247.3	134330
17035.0	8843.1	8.8	13.5	25231.0	134340
16313.7	8338.7	8.7	13.6	25259.2	134350
17309.3	8983.5	8.8	13.2	25275.1	134400
16718.9	8751.2	8.7	13.8	25332.4	134410
16831.2	8744.1	8.8	13.8	25367.8	134420
16846.1	8737.4	8.7	13.1	25273.6	134430
16389.1	8627.1	8.8	13.9	25355.7	134440
16556.2	8546.0	8.9	13.7	25338.8	134450
16324.7	8465.8	8.8	13.7	25383.2	134500
16585.6	8473.1	8.7	13.5	25336.5	134510
16663.9	8621.9	8.7	13.6	25250.6	134520
16505.0	8628.1	8.8	13.0	25241.1	134530
17172.2	8756.8	8.7	12.7	25209.2	134540
16918.5	8734.8	8.6	12.7	25256.6	134550
17134.2	8839.5	8.7	13.5	25286.6	134600
17825.2	9111.0	8.7	13.4	25292.2	134610
16939.9	8580.5	8.6	13.2	25277.2	134620
17347.2	8977.0	8.7	13.7	25326.6	134630
16920.6	8762.4	8.6	13.1	25240.5	134640
16950.4	8626.2	8.7	12.5	25247.9	134650
17518.1	8965.7	8.8	12.8	25240.6	134700
16857.0	8739.1	8.6	12.8	25283.4	134710
17469.5	8939.7	8.6	13.2	25282.8	134720
16506.9	8354.9	8.5	12.9	25249.0	134730
17206.7	8598.5	8.6	13.1	25221.9	134740
17114.2	8802.2	8.7	12.6	25247.6	134750
16652.8	8688.8	8.7	12.6	25275.9	134800
17050.7	8702.8	8.8	12.6	25189.2	134810
16984.8	8784.3	8.7	12.9	25232.0	134820
16790.3	8738.0	8.7	13.0	25230.2	134830
17096.3	8717.6	8.6	13.2	25237.0	134840
16568.8	8480.0	8.8	13.6	25288.3	134850
16768.2	8674.9	8.8	13.5	25276.9	134900
16635.1	8547.0	8.8	13.2	25304.1	134910
16130.6	8539.5	8.8	13.6	25368.0	134920
16244.5	8504.2	8.8	13.7	25390.2	134930
16443.4	8585.4	8.8	13.2	25318.5	134940

16938.6	8921.1	8.7	12.5	25214.6	134950
17341.8	8870.5	8.6	13.5	25268.6	135000
17182.0	8817.8	8.8	13.2	25293.2	135010
17457.2	8905.3	8.6	13.1	25259.8	135020
16644.0	8696.8	8.6	12.9	25231.5	135030
16905.4	8671.6	8.6	13.0	25202.6	135040
17283.8	8937.4	8.4	13.4	25245.8	135050
17048.0	8725.8	8.5	13.3	25225.8	135100
16523.2	8559.5	8.6	13.6	25263.8	135110
17249.2	8862.8	8.6	13.2	25181.7	135120
17185.5	8820.3	8.5	14.0	25267.9	135130
16612.0	8442.8	8.7	13.8	25269.2	135140
16991.8	8733.1	8.7	13.9	25312.2	135150
16648.4	8547.9	8.7	13.7	25303.0	135200
15860.1	8080.2	8.6	13.7	25272.3	135210
16946.0	8563.6	8.5	13.6	25267.8	135220
16851.3	8771.3	8.6	13.9	25313.0	135230
16903.6	8695.7	8.8	13.8	25300.8	135240
17417.0	8889.3	8.7	13.8	25282.7	135250
17133.6	8718.2	8.5	13.4	25249.2	135300
17369.1	9028.2	8.7	13.7	25254.9	135310
16941.7	8733.1	8.8	13.5	25314.6	135320
17311.7	9084.9	8.7	13.6	25230.8	135330
16862.1	8761.6	8.6	13.6	25203.3	135340
16786.5	8718.5	8.7	14.0	25314.1	135350
17302.6	9155.1	8.7	14.2	25329.4	135400
16567.9	8562.0	8.6	14.0	25316.9	135410
16433.4	8469.9	8.7	14.0	25314.5	135420
16904.7	8873.1	8.6	14.2	25356.8	135430
16347.7	8500.1	8.7	14.2	25265.3	135440
17283.4	9030.4	8.8	14.2	25338.8	135450
17066.3	8931.5	8.6	14.3	25324.8	135500
17112.0	8775.5	8.6	14.2	25347.5	135510
16840.2	8678.3	8.7	14.1	25307.0	135520
16820.0	8715.8	8.8	14.1	25249.0	135530
17276.2	8691.1	8.8	14.5	25385.9	135540
16621.2	8528.5	8.8	14.3	25433.9	135550
16770.0	8449.7	8.6	13.9	25322.5	135600
17334.2	9007.4	8.6	14.2	25285.1	135610
16667.6	8437.9	8.9	14.6	25389.7	135620
16648.0	8410.9	8.9	14.1	25344.1	135630
16913.8	8581.1	8.6	13.7	25323.8	135640
17164.2	8798.9	8.8	13.9	25325.8	135650
16623.5	8534.9	8.9	13.6	25359.6	135700
16730.9	8431.5	8.8	13.6	25269.7	135710
17562.7	8966.3	9.0	13.7	25373.8	135720
17254.7	8870.3	9.0	13.8	25420.2	135730
16987.9	8927.4	8.9	13.1	25222.9	135740
17418.9	8930.7	8.9	13.2	25306.9	135750
16662.2	8481.1	8.8	13.5	25337.1	135800
17595.3	8872.3	8.7	13.0	25295.8	135810
17185.9	8693.4	8.7	12.6	25190.8	135820
16636.5	8592.7	8.9	12.9	25284.6	135830
17129.7	8658.7	8.8	13.1	25273.2	135840
17135.0	8710.4	8.6	13.4	25261.0	135850
17024.6	8687.7	8.8	13.5	25253.8	135900
16692.5	8502.2	8.7	12.9	25282.9	135910
17032.7	8725.8	8.9	13.5	25315.1	135920
17500.0	8955.5	8.6	13.9	25394.1	135930

16510.9	8612.0	8.8	13.0	25216.0	135940
16968.3	8687.1	8.6	13.6	25350.8	135950
17590.9	9065.3	8.8	12.4	25257.2	140000
16481.5	8410.4	9.0	13.0	25280.0	140010
16681.3	8484.7	8.8	13.2	25299.3	140020
15979.3	8204.3	8.9	13.2	25326.7	140030
16550.4	8269.9	8.9	12.8	25305.5	140040
17044.3	8743.1	8.8	12.7	25232.9	140050
16765.6	8531.5	8.8	11.6	25144.7	140100
16525.8	8298.2	8.8	12.4	25212.8	140110
16958.5	8501.5	8.7	12.7	25270.0	140120
16805.9	8479.2	8.8	12.3	25229.5	140130

Table F-7

Data from the third B test

Barometric Pres mBar	Evap Static Pres in/H2O	Supply Tank Temp C	Refrig Temp Before MFM C	Refrig Temp After MFM C	Evap Exit Drybulb C	Refrig Temp Comp In C	Refrig Temp Cond Out C	Refrig Temp Comp Out C	Refrig Temp Evap In C	Refrig Temp Evap Out C	Indoor Temp C	Evap Nozzle Temp C
1000.3	0.109	14.39	33.87	33.78	15.51	14.98	34.15	66.91	33.28	14.29	26.71	16.71
1000.3	0.116	14.69	33.89	33.74	15.53	14.99	34.17	66.89	33.32	14.37	26.76	16.71
1000.3	0.116	14.30	33.87	33.79	15.53	15.03	34.17	66.93	33.20	14.23	26.70	16.75
1000.6	0.087	14.60	33.87	33.79	15.58	15.02	34.14	66.93	33.30	14.41	26.67	16.73
1000.4	0.124	14.46	33.90	33.76	15.48	15.04	34.16	66.97	33.34	14.42	26.69	16.69
1000.3	0.128	14.36	33.96	33.80	15.51	15.07	34.21	66.98	33.34	14.36	26.68	16.72
1000.5	0.104	14.56	33.98	33.87	15.58	15.03	34.29	67.01	33.31	14.08	26.64	16.74
1000.3	0.131	14.57	33.95	33.90	15.50	14.98	34.20	67.00	33.29	14.05	26.69	16.74
1000.3	0.142	14.67	33.98	33.89	15.55	15.00	34.25	67.02	33.38	14.13	26.66	16.73
1000.5	0.126	14.80	33.98	33.89	15.53	15.02	34.27	67.00	33.39	14.04	26.65	16.76
1000.5	0.112	14.57	34.02	33.90	15.51	15.01	34.33	67.01	33.42	13.79	26.68	16.74
1000.3	0.100	14.77	34.07	34.01	15.52	14.95	34.31	67.01	33.41	13.92	26.74	16.74
1000.4	0.109	14.79	34.02	33.96	15.55	14.93	34.29	67.01	33.45	14.04	26.71	16.81
1000.7	0.127	14.74	34.00	33.93	15.49	14.90	34.30	66.96	33.44	13.91	26.64	16.82
1000.2	0.114	14.79	33.95	33.80	15.55	14.86	34.23	66.96	33.43	14.00	26.65	16.76
1000.6	0.104	14.80	33.89	33.84	15.54	14.87	34.15	66.95	33.43	14.25	26.59	16.70
1000.2	0.097	14.64	33.83	33.84	15.53	14.89	34.13	66.96	33.46	14.60	26.69	16.72
1000.4	0.134	14.92	33.87	33.77	15.51	14.97	34.10	66.94	33.47	14.63	26.68	16.73
1000.3	0.139	14.66	33.83	33.82	15.55	15.01	34.09	66.98	33.35	14.69	26.75	16.80
1000.5	0.112	14.67	33.78	33.75	15.55	15.06	34.02	66.97	33.42	14.51	26.73	16.78
1000.3	0.115	15.03	33.76	33.70	15.51	15.13	34.04	66.97	33.21	14.92	26.70	16.77
1000.6	0.103	14.80	33.82	33.76	15.55	15.20	34.04	66.97	33.31	14.70	26.68	16.75
1000.4	0.123	14.82	33.75	33.70	15.58	15.27	34.04	66.95	33.30	14.80	26.70	16.75
1000.3	0.068	14.98	33.78	33.64	15.59	15.31	33.98	66.97	33.24	14.86	26.77	16.78
1000.5	0.151	15.03	33.76	33.68	15.57	15.38	33.99	66.96	33.25	14.91	26.69	16.74
1000.5	0.113	14.93	33.72	33.62	15.54	15.40	34.00	66.96	33.24	14.82	26.70	16.79
1000.3	0.067	15.08	33.69	33.64	15.55	15.39	33.97	66.92	33.21	14.92	26.73	16.76
1000.4	0.140	15.28	33.70	33.59	15.56	15.42	33.98	66.97	33.33	14.89	26.72	16.77
1000.5	0.125	15.03	33.70	33.61	15.61	15.40	33.93	66.89	33.19	14.82	26.74	16.72
1000.6	0.140	15.20	33.67	33.57	15.50	15.44	33.94	66.92	33.16	14.49	26.72	16.78
1000.4	0.118	15.17	33.69	33.60	15.49	15.42	33.90	66.94	33.14	14.94	26.68	16.74
1000.6	0.153	15.05	33.63	33.56	15.56	15.38	33.85	66.85	33.19	14.77	26.65	16.79
1000.4	0.101	15.23	33.56	33.60	15.57	15.40	33.81	66.94	33.13	14.89	26.68	16.79
1001.9	0.147	15.23	33.57	33.48	15.53	15.42	33.90	66.90	33.15	14.76	26.63	16.80
1000.5	0.147	15.39	33.55	33.52	15.57	15.44	33.79	66.90	33.13	14.76	26.69	16.77
1000.4	0.123	15.31	33.51	33.52	15.58	15.47	33.76	66.92	33.08	14.91	26.72	16.76
1000.5	0.116	15.37	33.47	33.44	15.58	15.48	33.73	66.88	33.07	15.08	26.67	16.76
1000.4	0.114	15.36	33.46	33.46	15.56	15.53	33.75	66.89	33.05	15.02	26.71	16.73
1000.4	0.113	15.31	33.43	33.38	15.55	15.52	33.70	66.86	33.03	15.03	26.72	16.72
1000.5	0.126	15.28	33.46	33.39	15.55	15.59	33.74	66.87	33.00	14.98	26.71	16.77
1000.4	0.156	15.27	33.40	33.40	15.57	15.53	33.67	66.83	32.95	14.82	26.78	16.72
1000.4	0.126	15.54	33.36	33.25	15.60	15.53	33.64	66.84	32.94	15.01	26.73	16.77
1000.6	0.105	15.47	33.37	33.31	15.53	15.60	33.66	66.85	32.92	14.97	26.68	16.73
1000.3	0.137	15.30	33.37	33.30	15.56	15.55	33.62	66.81	32.89	15.00	26.77	16.80
1000.4	0.105	15.44	33.37	33.24	15.54	15.57	33.65	66.85	32.91	15.04	26.75	16.80
1000.4	0.135	15.51	33.35	33.29	15.51	15.57	33.69	66.86	32.92	14.89	26.68	16.76
1000.4	0.122	15.34	33.42	33.32	15.53	15.52	33.68	66.83	32.91	14.86	26.75	16.79
1000.8	0.152	15.59	33.39	33.34	15.54	15.53	33.71	66.86	32.88	14.85	26.72	16.73
1000.4	0.136	15.60	33.46	33.37	15.50	15.55	33.77	66.86	32.87	14.72	26.70	16.79
1000.6	0.132	15.68	33.43	33.37	15.53	15.46	33.74	66.78	32.91	14.74	26.72	16.79

1000.4	0.166	15.71	33.40	33.32	15.53	15.46	33.73	66.81	32.90	14.89	26.67	16.79
1000.4	0.121	15.59	33.43	33.33	15.55	15.45	33.66	66.81	32.98	14.68	26.67	16.77
1000.3	0.122	15.81	33.38	33.32	15.56	15.43	33.65	66.77	32.97	14.94	26.65	16.69
1000.5	0.106	15.82	33.42	33.35	15.53	15.47	33.69	66.83	32.94	14.62	26.65	16.71
1000.5	0.107	15.84	33.45	33.37	15.53	15.46	33.71	66.81	32.92	14.90	26.69	16.76
1000.4	0.099	15.83	33.44	33.36	15.55	15.49	33.72	66.81	32.85	14.52	26.69	16.72
1000.6	0.116	15.85	33.48	33.37	15.55	15.43	33.70	66.82	32.95	14.93	26.67	16.77
1000.5	0.140	15.94	33.46	33.41	15.56	15.43	33.82	66.83	32.91	14.91	26.72	16.76
1000.4	0.113	15.96	33.53	33.43	15.58	15.43	33.77	66.81	32.86	14.61	26.66	16.79
1000.3	0.127	15.74	33.52	33.41	15.53	15.36	33.76	66.83	32.93	14.66	26.70	16.84
1000.4	0.131	15.93	33.52	33.48	15.57	15.41	33.87	66.85	32.98	14.73	26.66	16.77
1000.5	0.077	15.93	33.52	33.44	15.52	15.39	33.84	66.86	33.00	14.49	26.62	16.80
1000.4	0.126	15.92	33.58	33.50	15.53	15.32	33.86	66.89	33.02	14.18	26.65	16.73
1001.0	0.152	15.81	33.61	33.51	15.48	15.28	33.90	66.92	33.00	14.48	26.67	16.74
1000.5	0.110	15.93	33.67	33.56	15.51	15.27	33.97	66.91	33.08	14.36	26.66	16.82
1000.4	0.112	15.72	33.61	33.54	15.55	15.20	33.96	66.94	33.07	14.43	26.64	16.75
1000.4	0.142	15.98	33.67	33.57	15.44	15.24	34.00	66.95	33.04	14.54	26.68	16.75
1000.6	0.089	15.75	33.83	33.64	15.48	15.20	34.03	66.91	33.07	14.40	26.69	16.77
1000.4	0.085	15.94	33.75	33.66	15.50	15.17	34.06	66.97	33.16	14.51	26.68	16.77
1000.4	0.127	16.00	33.81	33.67	15.50	15.16	34.10	67.00	33.15	14.13	26.71	16.78
1000.6	0.108	15.93	33.84	33.69	15.49	15.13	34.10	66.97	33.23	13.89	26.69	16.77
1000.7	0.112	15.97	33.87	33.72	15.51	15.09	34.15	66.98	33.20	14.07	26.63	16.76
1000.4	0.136	16.06	33.92	33.77	15.51	14.96	34.21	67.03	33.18	14.10	26.64	16.73
1000.5	0.123	15.72	33.85	33.74	15.51	14.99	34.14	66.97	33.23	13.65	26.63	16.68
1000.4	0.127	15.93	33.82	33.77	15.46	14.96	34.15	66.99	33.30	13.89	26.67	16.76
1000.5	0.120	15.96	33.83	33.78	15.47	14.87	34.17	67.02	33.27	13.73	26.70	16.83
1000.5	0.114	15.99	33.89	33.81	15.53	14.88	34.16	66.96	33.30	13.77	26.63	16.73
1000.5	0.146	15.98	33.87	33.76	15.46	14.86	34.17	66.98	33.30	14.15	26.64	16.82
1000.5	0.138	16.12	33.90	33.80	15.48	14.93	34.10	67.04	33.33	14.04	26.64	16.68
1000.6	0.154	15.83	33.85	33.77	15.49	14.90	34.17	66.98	33.32	14.28	26.62	16.70
1000.9	0.120	16.01	33.85	33.84	15.47	14.94	34.13	66.98	33.35	14.33	26.67	16.72
1000.5	0.138	16.03	33.91	33.78	15.54	14.91	34.15	66.99	33.29	14.11	26.65	16.76
1000.3	0.127	15.91	33.91	33.81	15.50	14.94	34.14	66.89	33.36	14.13	26.68	16.79
1000.5	0.105	16.18	33.87	33.78	15.58	14.98	34.11	66.99	33.36	14.28	26.70	16.75
1000.5	0.118	15.79	33.79	33.79	15.52	15.01	34.14	67.02	33.30	14.52	26.64	16.81
1000.5	0.120	15.96	33.89	33.83	15.51	15.06	34.11	66.99	33.28	14.51	26.61	16.77
1000.3	0.088	15.98	33.76	33.74	15.51	15.07	34.08	66.99	33.32	14.48	26.64	16.76
1000.6	0.128	16.03	33.83	33.72	15.52	15.16	34.17	67.00	33.36	14.50	26.63	16.69
1000.6	0.068	15.92	33.83	33.75	15.49	15.18	34.11	66.99	33.39	14.51	26.67	16.75
1000.3	0.155	16.01	33.77	33.72	15.48	15.13	34.00	67.02	33.27	14.27	26.64	16.78
1000.3	0.123	16.09	33.75	33.74	15.54	15.18	34.07	66.97	33.25	14.62	26.63	16.74
1000.4	0.121	15.93	33.76	33.70	15.53	15.19	34.01	66.97	33.28	14.43	26.66	16.79
1000.4	0.103	15.48	33.70	33.64	15.56	15.19	34.00	67.00	33.23	14.50	26.66	16.71
1000.5	0.133	16.00	33.77	33.68	15.53	15.25	34.00	67.01	33.24	14.74	26.67	16.76
1000.5	0.123	15.64	33.66	33.66	15.49	15.25	33.95	66.95	33.19	14.50	26.61	16.76
1000.4	0.133	15.77	33.72	33.64	15.51	15.24	33.97	67.00	33.20	14.63	26.65	16.75
1000.4	0.139	15.67	33.68	33.64	15.52	15.25	33.95	66.96	33.15	14.48	26.62	16.80
1000.5	0.122	15.80	33.73	33.63	15.53	15.23	33.99	66.96	33.17	14.33	26.61	16.83
1000.5	0.109	15.68	33.65	33.61	15.51	15.21	33.89	66.93	33.15	14.58	26.65	16.74
1000.4	0.131	15.78	33.61	33.57	15.54	15.21	33.86	66.95	33.24	14.61	26.64	16.77
1000.4	0.116	15.75	33.60	33.53	15.50	15.24	33.78	66.88	33.12	14.74	26.66	16.82
1000.5	0.111	15.37	33.52	33.46	15.50	15.24	33.78	66.83	33.17	14.88	26.61	16.73
1000.4	0.085	15.75	33.46	33.46	15.48	15.30	33.76	66.90	33.09	14.77	26.55	16.73
1000.4	0.102	15.55	33.44	33.42	15.53	15.33	33.71	66.81	33.08	14.95	26.62	16.74
1000.6	0.125	15.54	33.41	33.41	15.51	15.34	33.72	66.83	33.09	14.86	26.62	16.71
1000.4	0.104	15.64	33.43	33.37	15.52	15.44	33.69	66.85	33.01	14.94	26.59	16.71
1000.1	0.127	15.56	33.41	33.39	15.49	15.41	33.63	66.80	33.03	14.68	26.57	16.73
1000.3	0.125	15.57	33.34	33.30	15.52	15.47	33.52	66.92	32.90	14.89	26.59	16.75
1000.4	0.107	15.49	33.29	33.31	15.50	15.43	33.65	66.84	32.95	14.75	26.59	16.73

1000.4	0.109	15.47	33.33	33.27	15.50	15.44	33.64	66.79	32.95	14.67	26.61	16.71
1001.0	0.109	15.74	33.38	33.28	15.54	15.47	33.64	66.79	32.93	14.88	26.61	16.79
1000.4	0.091	15.64	33.40	33.36	15.53	15.43	33.69	66.82	32.85	15.04	26.61	16.74
1000.8	0.121	15.48	33.39	33.30	15.50	15.49	33.72	66.76	32.88	14.81	26.64	16.81
1000.5	0.143	15.54	33.42	33.35	15.50	15.47	33.73	66.74	32.89	14.96	26.64	16.72
1000.4	0.140	15.68	33.39	33.33	15.53	15.53	33.70	66.75	32.94	14.75	26.68	16.79
1000.3	0.119	15.54	33.42	33.35	15.53	15.53	33.68	66.76	32.89	14.84	26.61	16.73
1000.3	0.101	15.58	33.37	33.33	15.54	15.47	33.65	66.77	32.92	14.72	26.60	16.75
1000.3	0.112	15.52	33.37	33.31	15.53	15.47	33.67	66.82	32.87	14.91	26.62	16.73
1000.4	0.095	15.57	33.39	33.35	15.52	15.48	33.64	66.76	32.90	14.69	26.62	16.75
1000.4	0.127	15.49	33.32	33.32	15.52	15.36	33.61	66.77	32.92	14.75	26.67	16.81
1000.7	0.139	15.53	33.37	33.33	15.50	15.40	33.69	66.85	32.87	14.90	26.64	16.76
1000.2	0.101	15.44	33.43	33.34	15.51	15.40	33.64	66.74	32.84	14.96	26.60	16.79
1000.5	0.123	15.22	33.33	33.28	15.52	15.42	33.65	66.75	32.90	14.94	26.61	16.72
1000.3	0.132	15.39	33.39	33.32	15.54	15.47	33.66	66.80	32.88	14.98	26.62	16.80
1000.5	0.124	15.31	33.41	33.26	15.49	15.47	33.66	66.75	32.88	14.73	26.60	16.74
1000.6	0.123	15.39	33.42	33.30	15.46	15.45	33.67	66.75	32.91	14.58	26.62	16.74
1000.4	0.136	15.28	33.45	33.35	15.48	15.38	33.76	66.85	32.91	14.32	26.64	16.77
999.1	0.126	15.34	33.46	33.42	15.48	15.35	33.77	66.77	32.86	14.36	26.69	16.68
1000.5	0.100	15.23	33.48	33.43	15.46	15.29	33.77	66.79	32.83	14.52	26.58	16.73
1000.4	0.095	14.90	33.47	33.43	15.43	15.24	33.81	66.84	32.91	14.20	26.63	16.68
1000.3	0.112	15.29	33.53	33.42	15.51	15.15	33.83	66.79	32.94	14.20	26.62	16.77
1000.5	0.149	15.22	33.54	33.49	15.44	15.11	33.86	66.74	32.96	14.15	26.67	16.81
1000.5	0.110	15.23	33.59	33.44	15.52	15.09	33.89	66.82	33.00	14.16	26.63	16.76
1000.3	0.114	15.49	33.56	33.50	15.48	15.03	33.87	66.80	32.99	14.06	26.63	16.70
1000.7	0.112	15.29	33.65	33.57	15.45	14.96	33.84	66.80	33.01	13.85	26.63	16.74
1000.5	0.113	15.36	33.61	33.50	15.49	14.99	33.90	66.79	33.07	14.15	26.65	16.75
1000.1	0.128	15.49	33.71	33.55	15.47	14.98	33.91	66.77	33.09	14.19	26.64	16.74
1000.3	0.127	15.15	33.66	33.56	15.49	15.00	33.98	66.76	33.08	13.73	26.61	16.77
1000.4	0.083	15.29	33.71	33.62	15.48	14.95	33.97	66.79	33.09	14.40	26.65	16.73
1000.4	0.119	15.24	33.69	33.68	15.45	15.00	34.00	66.75	33.12	14.38	26.65	16.78
1000.6	0.107	15.24	33.75	33.59	15.47	15.00	33.99	66.81	33.13	14.26	26.59	16.72
1000.5	0.139	15.14	33.69	33.58	15.49	15.03	34.01	66.80	33.15	14.24	26.55	16.73
1000.3	0.101	15.23	33.75	33.59	15.55	15.03	34.04	66.84	33.11	14.46	26.62	16.73
1000.4	0.121	15.29	33.71	33.64	15.48	15.00	33.98	66.89	33.15	14.33	26.58	16.68
1000.4	0.111	15.10	33.74	33.66	15.47	15.04	34.10	66.90	33.11	14.42	26.60	16.70
1000.6	0.138	15.10	33.80	33.69	15.48	15.07	34.07	66.87	33.15	14.50	26.60	16.74
1000.4	0.123	15.26	33.79	33.68	15.50	15.05	34.08	66.89	33.21	14.32	26.62	16.67
1000.9	0.132	15.11	33.82	33.64	15.52	15.06	34.09	66.94	33.21	14.33	26.57	16.72
1000.2	0.105	15.07	33.77	33.74	15.48	15.09	34.03	66.91	33.21	14.11	26.62	16.75
1000.5	0.113	15.04	33.77	33.73	15.47	15.06	34.12	66.93	33.19	14.20	26.60	16.77
1000.2	0.134	15.13	33.80	33.73	15.46	15.06	34.08	66.94	33.19	14.24	26.61	16.75
1000.4	0.109	15.11	33.78	33.63	15.42	15.07	34.09	66.95	33.28	14.44	26.63	16.78
1000.7	0.123	14.89	33.82	33.73	15.48	15.04	34.10	66.95	33.27	14.12	26.61	16.73
1000.4	0.109	14.99	33.85	33.68	15.51	15.07	34.16	66.95	33.29	14.14	26.60	16.73
1000.3	0.128	15.13	33.82	33.73	15.47	15.06	34.10	66.96	33.26	14.08	26.64	16.73
1000.3	0.116	15.00	33.87	33.79	15.49	15.04	34.11	66.98	33.28	13.77	26.54	16.75
1000.4	0.151	15.13	33.89	33.77	15.48	15.03	34.12	67.02	33.30	13.84	26.62	16.80
1000.5	0.123	14.89	33.84	33.82	15.51	15.00	34.15	67.01	33.29	14.08	26.62	16.79
1000.3	0.111	14.81	33.86	33.80	15.49	15.01	34.09	67.00	33.31	14.12	26.62	16.69
1000.4	0.117	15.00	33.82	33.76	15.47	14.96	34.13	67.04	33.34	13.74	26.61	16.70
1000.5	0.111	14.89	33.83	33.81	15.45	14.94	34.17	67.02	33.34	14.01	26.62	16.79
1000.4	0.139	14.87	33.84	33.76	15.51	14.97	34.12	66.95	33.33	14.09	26.62	16.73
1000.4	0.148	14.88	33.83	33.78	15.51	14.94	34.11	67.00	33.28	14.33	26.63	16.74
1000.4	0.133	14.74	33.81	33.76	15.49	14.95	34.12	66.96	33.31	14.04	26.59	16.70
999.7	0.121	14.82	33.81	33.77	15.44	14.99	34.11	66.99	33.27	14.33	26.68	16.79
1000.5	0.104	14.70	33.83	33.75	15.47	15.01	34.15	66.98	33.30	14.23	26.66	16.67
1000.3	0.103	14.91	33.83	33.74	15.50	15.02	34.04	66.94	33.32	14.31	26.59	16.68
1000.3	0.123	14.84	33.78	33.78	15.54	15.00	34.03	66.98	33.30	14.46	26.59	16.77

1000.4	0.127	14.65	33.73	33.67	15.51	15.07	34.03	66.98	33.30	14.57	26.63	16.76
1000.4	0.106	14.77	33.73	33.64	15.48	15.14	34.03	67.00	33.31	14.73	26.61	16.68
1000.3	0.111	14.88	33.70	33.65	15.48	15.17	33.97	66.96	33.22	14.51	26.60	16.66
1000.5	0.090	14.62	33.69	33.64	15.49	15.17	33.99	66.98	33.22	14.64	26.62	16.77
1000.6	0.138	14.69	33.65	33.64	15.47	15.23	33.98	66.98	33.20	14.62	26.57	16.78
1000.3	0.073	14.74	33.61	33.63	15.48	15.25	33.95	66.95	33.21	14.62	26.59	16.70
1000.3	0.132	14.65	33.64	33.53	15.52	15.28	33.98	66.99	33.20	14.72	26.62	16.76
1000.5	0.100	14.82	33.67	33.58	15.51	15.24	33.93	66.93	33.18	14.84	26.62	16.75
1000.5	0.109	14.59	33.57	33.56	15.48	15.33	33.87	66.95	33.15	14.98	26.65	16.73
1000.3	0.169	14.81	33.59	33.54	15.53	15.36	33.88	66.92	33.11	14.84	26.56	16.77
1000.5	0.130	14.62	33.56	33.53	15.53	15.39	33.83	66.95	33.10	14.91	26.64	16.76
1000.4	0.091	14.71	33.55	33.47	15.53	15.42	33.72	66.96	33.12	14.63	26.64	16.81
1000.2	0.138	14.64	33.52	33.44	15.50	15.39	33.79	66.94	33.10	14.93	26.65	16.78
1000.4	0.105	14.83	33.47	33.42	15.48	15.43	33.73	66.92	33.06	15.14	26.63	16.74

Table F-7. Continued

Indoor Wetbulb C	Evap		Outdoor Temp C	Cond Power kW	Cond Voltage V	Evap Chamber Pres in/H ₂ O	Evap Diff Pres in/H ₂ O	Evap			Evap Power kW	Refrig Press Before MFM psig	Refrig Press After MFM psig
	Exit Wetbulb C	Outdoor Wetbulb C						Static Pres in/H ₂ O	MFM Refrig lb/min	Evap Voltage V			
19.48	13.56	18.68	27.84	1.65	244.79	0.154	0.323	0.153	5.68	244.27	0.14	324.01	325.70
19.48	13.56	18.68	27.85	1.63	243.05	0.149	0.290	0.149	5.66	245.07	0.13	323.80	325.14
19.48	13.56	18.69	27.86	1.65	243.99	0.155	0.319	0.166	5.68	242.92	0.14	323.45	324.67
19.49	13.56	18.69	27.87	1.65	241.99	0.148	0.343	0.162	5.66	242.78	0.14	324.47	325.70
19.49	13.57	18.70	27.89	1.64	241.50	0.145	0.306	0.145	5.69	245.30	0.14	324.83	326.57
19.48	13.57	18.71	27.90	1.65	247.98	0.150	0.346	0.146	5.67	241.99	0.14	324.21	325.91
19.48	13.57	18.72	27.92	1.65	246.24	0.148	0.302	0.154	5.66	246.56	0.13	324.83	326.62
19.48	13.57	18.72	27.93	1.64	242.16	0.149	0.318	0.143	5.68	243.63	0.13	325.39	325.49
19.48	13.57	18.73	27.94	1.64	245.93	0.152	0.306	0.161	5.68	241.69	0.14	324.11	325.65
19.48	13.57	18.73	27.95	1.64	244.37	0.149	0.332	0.149	5.69	244.29	0.14	324.93	326.93
19.48	13.57	18.74	27.96	1.64	247.81	0.148	0.324	0.154	5.67	242.11	0.14	324.57	327.09
19.48	13.57	18.74	27.97	1.64	239.17	0.154	0.325	0.157	5.64	242.86	0.14	325.04	326.21
19.47	13.57	18.75	27.98	1.65	239.90	0.147	0.317	0.137	5.66	242.31	0.13	325.14	326.78
19.48	13.56	18.75	27.98	1.64	242.87	0.161	0.302	0.157	5.64	244.46	0.14	323.75	325.55
19.47	13.57	18.75	27.98	1.64	244.28	0.141	0.340	0.137	5.65	242.82	0.13	323.96	325.44
19.47	13.56	18.75	27.98	1.64	244.96	0.141	0.328	0.145	5.66	244.66	0.14	323.86	325.19
19.46	13.57	18.75	27.98	1.64	245.10	0.140	0.319	0.139	5.64	244.43	0.13	324.06	325.29
19.46	13.56	18.75	27.97	1.64	244.96	0.145	0.319	0.152	5.65	244.84	0.14	323.75	325.91
19.46	13.56	18.75	27.97	1.65	244.30	0.153	0.311	0.163	5.65	243.60	0.13	322.93	325.24
19.47	13.56	18.75	27.97	1.63	240.70	0.142	0.297	0.146	5.64	243.37	0.13	323.96	326.06
19.48	13.56	18.75	27.97	1.66	243.11	0.137	0.324	0.141	5.66	238.87	0.13	324.52	325.34
19.49	13.57	18.75	27.97	1.65	243.93	0.148	0.295	0.141	5.65	242.91	0.13	323.80	325.29
19.49	13.57	18.75	27.96	1.63	242.11	0.157	0.310	0.139	5.64	244.75	0.14	324.06	324.47
19.49	13.57	18.75	27.95	1.65	240.80	0.145	0.315	0.143	5.63	245.32	0.13	323.24	325.60
19.49	13.58	18.75	27.96	1.65	245.93	0.143	0.303	0.159	5.66	240.47	0.14	323.60	324.26
19.49	13.58	18.75	27.94	1.63	241.65	0.142	0.317	0.137	5.62	242.89	0.14	322.27	323.24
19.50	13.57	18.75	27.94	1.64	240.33	0.144	0.310	0.145	5.62	243.23	0.14	323.45	324.73
19.50	13.58	18.75	27.93	1.64	249.04	0.148	0.360	0.154	5.65	240.07	0.14	322.57	322.62
19.50	13.58	18.75	27.92	1.63	243.44	0.141	0.300	0.140	5.65	245.21	0.14	322.37	323.90
19.50	13.58	18.75	27.91	1.63	245.53	0.143	0.312	0.139	5.68	242.03	0.14	322.57	324.52
19.50	13.59	18.75	27.91	1.64	241.02	0.151	0.301	0.164	5.66	240.30	0.14	322.32	323.19
19.50	13.59	18.74	27.89	1.64	242.84	0.150	0.318	0.156	5.63	241.49	0.14	320.98	322.78
19.50	13.58	18.74	27.88	1.63	243.99	0.154	0.337	0.136	5.64	244.27	0.14	322.68	323.70
19.50	13.59	18.74	27.88	1.64	244.22	0.160	0.331	0.154	5.60	243.54	0.14	322.47	323.39
19.50	13.58	18.74	27.86	1.63	244.24	0.150	0.329	0.146	5.63	243.69	0.13	321.19	323.03
19.49	13.58	18.73	27.85	1.64	243.45	0.145	0.310	0.148	5.62	244.60	0.14	321.91	321.54
19.50	13.59	18.74	27.85	1.64	244.36	0.154	0.344	0.142	5.64	242.05	0.13	322.11	322.57
19.50	13.59	18.73	27.83	1.63	241.65	0.153	0.317	0.149	5.61	241.85	0.13	321.96	321.75
19.49	13.58	18.73	27.82	1.64	247.42	0.145	0.345	0.146	5.62	243.48	0.14	319.96	323.13
19.49	13.58	18.72	27.81	1.63	241.31	0.153	0.327	0.162	5.62	243.21	0.13	320.88	322.01
19.49	13.58	18.72	27.79	1.62	242.37	0.147	0.327	0.168	5.64	238.53	0.14	319.80	321.29
19.49	13.57	18.72	27.77	1.62	243.04	0.152	0.338	0.158	5.63	243.11	0.14	321.60	322.01
19.49	13.57	18.71	27.77	1.63	243.57	0.147	0.301	0.146	5.59	246.66	0.14	320.01	320.83
19.48	13.57	18.71	27.76	1.63	247.99	0.144	0.314	0.141	5.62	240.93	0.13	320.32	322.21
19.48	13.57	18.71	27.75	1.64	240.28	0.139	0.312	0.144	5.65	245.72	0.13	319.44	323.75
19.48	13.57	18.71	27.75	1.63	246.59	0.139	0.299	0.133	5.61	241.40	0.14	320.88	321.90
19.48	13.57	18.71	27.74	1.63	243.22	0.160	0.318	0.149	5.62	241.16	0.13	320.16	321.49
19.48	13.56	18.71	27.74	1.64	240.46	0.135	0.307	0.151	5.62	244.26	0.14	320.57	322.21
19.48	13.56	18.71	27.74	1.64	243.16	0.141	0.309	0.133	5.62	248.18	0.13	320.37	322.31
19.49	13.56	18.71	27.72	1.63	243.67	0.145	0.313	0.149	5.65	243.84	0.14	319.91	320.01

19.48	13.56	18.70	27.72	1.64	240.88	0.158	0.324	0.165	5.65	245.03	0.14	321.39	321.75
19.49	13.56	18.71	27.72	1.62	241.03	0.143	0.297	0.153	5.63	244.37	0.13	319.65	320.16
19.49	13.57	18.70	27.70	1.64	243.50	0.141	0.293	0.156	5.64	239.99	0.13	321.09	321.65
19.49	13.56	18.70	27.70	1.64	241.19	0.156	0.324	0.156	5.63	244.46	0.14	320.93	322.98
19.49	13.57	18.71	27.71	1.62	244.50	0.145	0.277	0.147	5.65	244.43	0.14	320.98	321.70
19.50	13.57	18.71	27.70	1.64	246.08	0.141	0.324	0.148	5.61	242.17	0.14	320.73	321.54
19.50	13.57	18.71	27.70	1.63	243.96	0.149	0.297	0.144	5.65	241.71	0.13	322.93	322.06
19.50	13.58	18.71	27.71	1.64	244.53	0.143	0.314	0.137	5.64	244.67	0.14	321.50	321.39
19.50	13.58	18.71	27.71	1.63	247.15	0.144	0.305	0.135	5.65	243.63	0.14	319.65	323.39
19.50	13.57	18.71	27.71	1.63	251.07	0.148	0.318	0.153	5.67	241.86	0.14	321.50	323.29
19.50	13.57	18.72	27.72	1.64	242.23	0.145	0.326	0.142	5.65	243.43	0.13	321.09	323.19
19.49	13.58	18.72	27.72	1.64	243.94	0.136	0.322	0.140	5.65	245.35	0.13	319.60	323.29
19.49	13.57	18.72	27.73	1.65	246.01	0.146	0.351	0.139	5.63	246.59	0.13	321.75	324.31
19.49	13.57	18.73	27.74	1.65	242.28	0.148	0.317	0.142	5.65	244.49	0.13	322.27	322.88
19.49	13.57	18.73	27.74	1.63	246.91	0.145	0.332	0.142	5.63	245.33	0.13	320.78	323.44
19.49	13.57	18.74	27.75	1.64	243.16	0.143	0.296	0.148	5.66	241.71	0.14	322.83	323.24
19.48	13.57	18.74	27.77	1.65	246.27	0.150	0.335	0.156	5.62	243.20	0.13	322.27	323.85
19.48	13.56	18.75	27.77	1.65	247.84	0.149	0.315	0.144	5.62	243.84	0.14	322.83	325.44
19.47	13.56	18.75	27.79	1.65	245.45	0.151	0.316	0.158	5.67	243.14	0.14	324.42	325.14
19.48	13.56	18.76	27.80	1.64	244.87	0.151	0.337	0.152	5.67	241.72	0.14	322.62	324.01
19.47	13.56	18.77	27.82	1.65	248.55	0.147	0.313	0.148	5.62	243.08	0.14	323.50	324.67
19.47	13.55	18.77	27.82	1.66	244.45	0.149	0.322	0.148	5.64	242.52	0.14	323.75	325.24
19.47	13.55	18.78	27.84	1.65	243.68	0.153	0.312	0.149	5.65	243.23	0.13	322.42	324.52
19.46	13.55	18.78	27.85	1.64	243.39	0.149	0.321	0.142	5.62	243.94	0.13	323.86	325.24
19.45	13.55	18.78	27.86	1.65	242.53	0.159	0.316	0.147	5.68	240.10	0.13	324.57	323.90
19.45	13.55	18.79	27.87	1.65	242.20	0.148	0.333	0.151	5.65	247.07	0.13	323.80	325.91
19.45	13.55	18.79	27.88	1.65	249.15	0.145	0.317	0.157	5.66	245.58	0.14	323.65	325.96
19.45	13.55	18.80	27.88	1.64	241.23	0.143	0.305	0.149	5.63	248.36	0.14	325.96	325.70
19.46	13.54	18.80	27.90	1.64	243.64	0.156	0.331	0.153	5.68	241.49	0.13	324.78	326.68
19.46	13.55	18.80	27.90	1.65	243.59	0.148	0.324	0.145	5.65	243.83	0.14	322.88	324.93
19.47	13.55	18.81	27.91	1.65	247.62	0.137	0.328	0.133	5.65	245.58	0.13	324.93	325.49
19.47	13.56	18.81	27.92	1.64	247.68	0.150	0.315	0.148	5.65	242.80	0.14	323.24	325.03
19.47	13.55	18.81	27.91	1.65	252.73	0.152	0.343	0.151	5.67	240.73	0.14	324.52	324.98
19.48	13.56	18.82	27.92	1.65	244.39	0.154	0.287	0.155	5.65	241.37	0.13	325.09	325.96
19.48	13.57	18.82	27.93	1.64	241.99	0.144	0.332	0.145	5.68	244.60	0.14	323.75	325.49
19.48	13.57	18.82	27.92	1.64	245.58	0.143	0.313	0.150	5.66	245.10	0.14	324.63	325.08
19.48	13.57	18.82	27.92	1.65	240.46	0.141	0.335	0.150	5.64	245.49	0.14	322.57	325.19
19.48	13.57	18.82	27.93	1.66	240.65	0.147	0.337	0.140	5.66	246.23	0.13	324.06	324.52
19.48	13.57	18.83	27.92	1.65	246.51	0.146	0.333	0.153	5.65	242.06	0.13	323.39	324.06
19.48	13.56	18.83	27.92	1.65	246.27	0.148	0.333	0.137	5.63	243.14	0.14	322.32	324.73
19.48	13.56	18.83	27.93	1.65	242.71	0.152	0.323	0.148	5.62	245.93	0.14	323.14	324.26
19.48	13.57	18.83	27.92	1.64	240.50	0.145	0.324	0.144	5.68	244.57	0.13	322.62	323.24
19.48	13.56	18.83	27.91	1.64	244.97	0.147	0.340	0.146	5.66	246.86	0.14	322.57	324.98
19.47	13.56	18.83	27.92	1.65	245.62	0.153	0.297	0.157	5.63	245.57	0.13	322.68	324.62
19.47	13.56	18.83	27.90	1.64	245.76	0.149	0.327	0.148	5.65	243.35	0.14	321.70	323.90
19.47	13.56	18.83	27.90	1.64	243.11	0.140	0.297	0.145	5.62	244.43	0.13	323.14	324.73
19.47	13.56	18.83	27.90	1.64	246.11	0.147	0.318	0.149	5.66	243.95	0.14	320.42	323.85
19.46	13.55	18.82	27.88	1.65	244.16	0.156	0.302	0.157	5.60	242.83	0.14	322.32	323.34
19.46	13.55	18.82	27.88	1.64	246.45	0.140	0.299	0.132	5.62	243.88	0.13	322.32	323.34
19.46	13.55	18.82	27.87	1.64	245.94	0.155	0.313	0.132	5.64	245.46	0.13	321.50	323.19
19.46	13.55	18.82	27.85	1.64	245.41	0.146	0.299	0.147	5.65	243.86	0.13	321.09	321.80
19.45	13.54	18.81	27.84	1.63	246.47	0.148	0.316	0.143	5.65	244.51	0.14	319.65	323.49
19.45	13.54	18.81	27.84	1.63	245.22	0.142	0.302	0.152	5.66	244.69	0.14	319.91	322.37
19.44	13.54	18.80	27.82	1.64	244.44	0.148	0.326	0.148	5.63	241.54	0.14	321.19	322.16
19.44	13.53	18.80	27.81	1.64	241.45	0.146	0.306	0.148	5.63	243.68	0.13	320.83	323.03
19.43	13.53	18.80	27.80	1.64	245.61	0.136	0.331	0.154	5.63	243.80	0.14	319.44	319.95
19.43	13.53	18.80	27.78	1.63	245.74	0.150	0.315	0.146	5.63	239.44	0.13	319.65	320.98
19.43	13.52	18.79	27.77	1.64	245.33	0.153	0.306	0.162	5.62	245.50	0.14	320.42	322.62
19.44	13.53	18.79	27.76	1.62	245.88	0.152	0.322	0.153	5.61	242.97	0.14	319.75	322.01

19.44	13.53	18.79	27.75	1.63	243.11	0.150	0.300	0.148	5.63	243.80	0.13	319.55	321.34
19.45	13.53	18.79	27.74	1.63	243.82	0.146	0.338	0.149	5.66	244.70	0.13	319.03	322.42
19.45	13.53	18.79	27.74	1.63	244.79	0.152	0.310	0.140	5.62	248.25	0.14	320.98	322.31
19.46	13.54	18.78	27.72	1.63	245.99	0.150	0.321	0.151	5.62	243.69	0.14	319.75	321.08
19.46	13.53	18.78	27.71	1.64	244.82	0.153	0.331	0.153	5.64	238.99	0.13	320.78	322.83
19.46	13.54	18.78	27.71	1.64	245.59	0.144	0.324	0.148	5.64	240.96	0.14	319.65	321.54
19.46	13.54	18.78	27.70	1.64	242.82	0.151	0.353	0.139	5.59	245.66	0.14	318.21	321.13
19.46	13.54	18.78	27.69	1.63	242.34	0.133	0.294	0.148	5.62	240.97	0.13	320.37	321.19
19.46	13.54	18.78	27.69	1.62	238.80	0.149	0.344	0.152	5.62	239.65	0.13	320.78	321.39
19.46	13.54	18.77	27.68	1.61	242.13	0.149	0.330	0.144	5.60	239.56	0.14	320.06	320.06
19.46	13.54	18.77	27.67	1.63	241.27	0.142	0.309	0.153	5.66	242.72	0.13	320.98	322.31
19.46	13.54	18.77	27.67	1.62	241.96	0.152	0.293	0.148	5.63	243.61	0.13	319.96	320.42
19.46	13.54	18.77	27.66	1.63	241.59	0.151	0.322	0.146	5.62	238.22	0.13	320.16	321.65
19.46	13.54	18.77	27.65	1.63	245.05	0.154	0.319	0.145	5.61	241.28	0.14	318.98	321.49
19.46	13.54	18.77	27.66	1.63	240.06	0.152	0.319	0.149	5.63	240.93	0.13	317.70	320.93
19.46	13.54	18.77	27.65	1.63	243.57	0.141	0.339	0.150	5.62	241.45	0.13	320.88	320.21
19.45	13.54	18.77	27.65	1.64	239.46	0.150	0.325	0.133	5.63	241.71	0.13	322.06	323.24
19.44	13.53	18.77	27.66	1.62	243.16	0.144	0.306	0.146	5.65	244.03	0.13	320.06	322.88
19.44	13.53	18.77	27.65	1.63	246.61	0.152	0.316	0.143	5.66	241.99	0.14	320.62	320.42
19.43	13.53	18.77	27.65	1.63	244.64	0.146	0.292	0.142	5.66	243.25	0.13	319.70	321.75
19.43	13.52	18.78	27.66	1.63	242.19	0.150	0.334	0.160	5.66	244.86	0.13	319.65	322.26
19.43	13.52	18.78	27.66	1.63	246.14	0.164	0.318	0.167	5.65	241.16	0.14	320.26	320.93
19.42	13.52	18.78	27.67	1.63	240.23	0.149	0.330	0.156	5.63	242.78	0.13	320.57	324.93
19.42	13.51	18.78	27.68	1.63	239.74	0.155	0.307	0.143	5.65	243.98	0.14	322.16	322.11
19.42	13.51	18.79	27.68	1.63	246.07	0.153	0.305	0.155	5.65	242.40	0.13	321.44	322.62
19.42	13.51	18.79	27.68	1.63	242.14	0.149	0.331	0.159	5.64	239.70	0.13	321.75	322.42
19.42	13.51	18.79	27.69	1.64	239.25	0.144	0.279	0.144	5.62	244.47	0.13	321.80	323.24
19.42	13.51	18.80	27.70	1.62	244.90	0.150	0.342	0.149	5.64	243.02	0.13	321.91	323.34
19.43	13.51	18.80	27.70	1.64	246.28	0.147	0.318	0.138	5.61	241.08	0.13	322.21	324.42
19.43	13.51	18.80	27.72	1.63	242.94	0.149	0.338	0.138	5.63	242.14	0.13	321.39	321.34
19.43	13.51	18.81	27.72	1.63	239.96	0.140	0.337	0.150	5.65	246.36	0.14	320.73	322.47
19.44	13.51	18.81	27.73	1.65	242.68	0.149	0.334	0.142	5.65	245.29	0.14	321.91	325.14
19.44	13.52	18.82	27.74	1.64	241.71	0.149	0.329	0.160	5.66	242.39	0.13	321.65	323.49
19.44	13.51	18.82	27.75	1.65	239.85	0.147	0.338	0.141	5.66	243.57	0.14	323.03	323.65
19.44	13.51	18.83	27.76	1.63	246.27	0.151	0.342	0.163	5.65	244.63	0.14	322.21	324.98
19.45	13.52	18.83	27.78	1.65	244.96	0.148	0.319	0.150	5.66	240.66	0.13	322.42	322.93
19.44	13.52	18.84	27.79	1.63	245.93	0.143	0.301	0.141	5.63	241.06	0.13	324.06	324.21
19.44	13.52	18.84	27.79	1.65	245.10	0.153	0.310	0.162	5.62	242.43	0.14	321.80	323.85
19.44	13.52	18.84	27.80	1.64	243.24	0.143	0.326	0.147	5.64	243.77	0.14	323.14	324.26
19.44	13.52	18.85	27.81	1.64	242.36	0.146	0.295	0.144	5.64	242.29	0.13	323.09	323.55
19.44	13.52	18.85	27.81	1.65	236.94	0.144	0.294	0.156	5.66	250.04	0.13	323.03	324.88
19.43	13.52	18.85	27.82	1.65	245.81	0.150	0.290	0.152	5.67	246.30	0.13	323.55	325.80
19.43	13.52	18.86	27.83	1.65	242.23	0.148	0.320	0.158	5.66	244.51	0.14	323.80	324.01
19.43	13.52	18.86	27.84	1.65	244.01	0.151	0.339	0.151	5.67	245.81	0.13	323.55	325.60
19.43	13.52	18.86	27.85	1.65	246.74	0.147	0.310	0.154	5.66	243.09	0.14	323.50	324.62
19.43	13.51	18.87	27.85	1.64	246.01	0.145	0.320	0.136	5.65	245.75	0.14	324.83	325.29
19.43	13.52	18.87	27.86	1.64	243.59	0.152	0.325	0.155	5.65	244.70	0.14	323.70	325.70
19.43	13.51	18.87	27.87	1.65	247.24	0.154	0.337	0.154	5.64	242.26	0.14	324.42	325.55
19.42	13.52	18.88	27.88	1.64	244.70	0.153	0.310	0.151	5.64	246.21	0.13	323.34	325.14
19.42	13.51	18.88	27.88	1.64	246.27	0.140	0.317	0.150	5.67	240.47	0.14	324.52	325.24
19.42	13.51	18.89	27.89	1.66	249.45	0.140	0.333	0.146	5.66	243.28	0.13	323.96	325.80
19.42	13.51	18.89	27.90	1.63	246.01	0.150	0.311	0.154	5.64	241.48	0.14	323.19	325.39
19.41	13.51	18.89	27.90	1.65	244.28	0.145	0.336	0.152	5.66	244.00	0.14	323.55	324.93
19.41	13.51	18.90	27.91	1.65	246.34	0.156	0.323	0.148	5.62	244.44	0.14	322.88	324.78
19.41	13.50	18.89	27.91	1.64	244.24	0.153	0.297	0.146	5.65	241.74	0.14	321.80	324.93
19.41	13.50	18.90	27.90	1.65	243.50	0.157	0.319	0.143	5.65	245.84	0.14	324.78	324.73
19.42	13.51	18.90	27.91	1.65	246.10	0.137	0.335	0.137	5.62	245.52	0.13	323.03	325.29
19.43	13.51	18.90	27.91	1.63	246.25	0.150	0.324	0.141	5.61	246.21	0.14	323.75	325.03
19.43	13.52	18.90	27.91	1.65	242.30	0.141	0.332	0.142	5.67	245.33	0.14	323.34	324.57

19.43	13.52	18.90	27.91	1.65	244.50	0.149	0.356	0.151	5.64	245.58	0.13	322.32	324.21
19.43	13.52	18.91	27.91	1.64	242.84	0.150	0.316	0.147	5.63	243.20	0.14	323.24	324.01
19.43	13.52	18.90	27.90	1.65	242.59	0.142	0.324	0.151	5.65	249.42	0.13	323.80	324.42
19.43	13.52	18.90	27.90	1.65	245.88	0.154	0.330	0.154	5.62	244.54	0.14	322.37	324.42
19.43	13.51	18.90	27.89	1.65	243.47	0.148	0.311	0.151	5.64	244.66	0.14	322.68	323.85
19.43	13.51	18.90	27.89	1.65	247.04	0.144	0.298	0.139	5.66	241.88	0.14	322.06	324.26
19.43	13.51	18.90	27.89	1.64	243.90	0.146	0.309	0.142	5.62	243.08	0.14	322.27	323.80
19.43	13.51	18.90	27.87	1.63	243.94	0.151	0.333	0.149	5.60	247.52	0.13	321.85	322.31
19.43	13.51	18.89	27.86	1.64	248.39	0.141	0.308	0.137	5.64	244.90	0.14	321.55	323.55
19.43	13.51	18.89	27.86	1.64	238.80	0.139	0.330	0.147	5.66	247.82	0.14	321.96	322.47
19.43	13.52	18.89	27.84	1.64	246.98	0.154	0.341	0.150	5.64	243.02	0.13	321.29	322.72
19.43	13.51	18.88	27.83	1.65	241.65	0.148	0.293	0.146	5.63	243.66	0.14	322.32	322.83
19.43	13.52	18.88	27.82	1.64	246.81	0.151	0.318	0.156	5.64	244.35	0.14	321.29	322.72
19.44	13.52	18.88	27.80	1.64	243.10	0.153	0.292	0.152	5.65	243.52	0.14	319.55	322.72

Table F-7. Continued

Refrig Press Evap In psig	Refrig Press Evap Out psig	Refrig Press Comp In psig	Refrig Press Cond Out psig	Refrig Press Comp In psig	Condinsate weight oz	Evap Rho Inlet lb/ft ³	Evap Rho Nozzle lb/ft ³	Evap CFM Nozzle CFM	Evap CFM Outlet CFM	Capacity Balance Pass/Fail	Total Cooling Capacity Btu/hr
321.77	131.53	131.46	323.02	340.13	222.94	0.07206	0.07451	779.3	775.4	PASS	25816.4
321.98	131.53	130.22	323.89	340.54	216.63	0.07206	0.07453	750.8	747.2	PASS	25563.7
320.70	131.33	131.81	324.25	341.05	217.71	0.07207	0.07451	781.7	777.7	PASS	25199.9
321.88	129.63	130.94	324.15	344.80	219.21	0.07209	0.07452	792.7	788.9	PASS	25049.9
322.49	131.58	130.38	323.43	340.54	219.77	0.07207	0.07452	777.3	773.5	NO TEST	26892.7
322.03	131.84	131.46	322.92	341.82	223.63	0.07207	0.07451	787.8	783.9	PASS	25878.5
322.23	129.79	131.61	325.54	341.26	221.65	0.07208	0.07451	777.3	773.6	PASS	25715.1
320.70	131.84	132.33	324.61	341.97	218.34	0.07207	0.07451	757.6	753.8	PASS	25263.2
323.21	132.61	131.92	325.74	343.92	218.93	0.07208	0.07451	785.2	781.4	PASS	25953.7
323.16	132.76	130.84	325.23	342.64	214.86	0.07208	0.07450	798.8	794.7	PASS	25325.3
324.29	131.07	131.92	324.56	341.31	216.77	0.07209	0.07451	774.7	770.7	PASS	25279.3
322.44	130.40	129.76	324.97	342.49	218.76	0.07206	0.07452	800.8	796.7	PASS	25773.6
322.03	131.33	130.74	324.97	343.87	221.16	0.07208	0.07450	764.2	760.2	PASS	24983.9
319.82	132.40	131.61	326.05	342.64	219.52	0.07209	0.07450	783.9	779.7	PASS	25538.2
321.16	131.53	130.74	322.61	340.54	221.20	0.07208	0.07450	773.8	770.0	PASS	25346.3
321.21	131.27	130.48	321.89	342.18	223.36	0.07210	0.07452	780.9	777.2	PASS	25471.2
319.11	131.38	130.74	322.66	339.87	224.05	0.07207	0.07452	769.1	765.3	PASS	26110.0
321.98	131.84	130.84	323.48	339.56	227.47	0.07208	0.07452	786.2	782.3	PASS	25320.6
320.75	131.99	129.97	322.35	339.82	223.56	0.07206	0.07451	768.6	764.7	PASS	25032.8
322.13	130.92	132.53	324.05	340.03	225.72	0.07206	0.07451	766.6	762.7	PASS	26300.1
321.00	129.63	131.25	323.74	339.10	226.21	0.07207	0.07451	771.1	767.1	PASS	25339.9
321.67	130.35	130.63	323.33	340.08	222.83	0.07207	0.07451	783.2	779.3	PASS	25622.6
320.08	130.86	132.02	321.89	341.26	222.59	0.07208	0.07452	792.0	788.2	PASS	25801.4
320.95	130.15	130.79	320.20	340.18	222.52	0.07205	0.07450	769.5	765.7	PASS	26266.2
319.98	129.12	132.02	323.48	341.46	220.78	0.07208	0.07452	776.9	773.1	PASS	26440.2
320.29	131.38	131.56	324.30	338.54	228.41	0.07208	0.07450	768.0	764.1	PASS	25428.4
320.29	129.58	131.20	321.53	338.90	219.77	0.07207	0.07451	790.5	786.5	PASS	25496.5
321.93	131.99	131.87	323.02	339.82	226.77	0.07207	0.07450	821.0	816.8	PASS	25362.7
320.70	133.38	132.17	323.53	340.59	221.02	0.07207	0.07453	763.9	760.4	PASS	25724.6
320.80	131.53	131.76	323.18	339.31	224.37	0.07207	0.07451	769.4	765.4	PASS	25168.4
319.16	130.35	130.74	320.61	339.61	230.50	0.07208	0.07452	772.9	769.0	PASS	25330.7
319.62	130.30	132.89	322.15	340.08	231.75	0.07207	0.07450	796.2	792.2	PASS	25584.2
319.93	129.63	131.10	322.41	339.51	233.74	0.07208	0.07451	782.7	778.7	PASS	25133.5
318.59	130.97	129.92	320.41	337.10	231.75	0.07210	0.07451	800.7	796.5	PASS	26440.9
319.36	131.22	129.56	319.94	339.92	229.28	0.07207	0.07451	763.4	759.7	PASS	25776.0
318.90	129.94	131.30	322.82	340.33	226.56	0.07207	0.07451	772.0	768.2	PASS	25586.9
319.52	132.40	130.79	321.94	337.77	236.59	0.07208	0.07451	789.2	785.4	PASS	25479.0
317.98	128.66	131.30	321.07	339.36	228.55	0.07207	0.07452	778.1	774.3	PASS	26008.9
319.31	130.97	130.94	321.94	339.00	224.68	0.07207	0.07452	789.7	785.8	PASS	25306.5
318.18	128.45	130.22	320.20	339.05	228.96	0.07207	0.07451	792.4	788.4	PASS	25285.4
316.49	126.86	130.69	320.76	337.00	229.21	0.07205	0.07452	802.5	798.6	PASS	26085.0
318.39	130.15	131.40	321.12	339.00	226.91	0.07206	0.07451	787.5	783.6	PASS	24886.9
315.31	129.99	130.69	320.46	336.07	225.66	0.07208	0.07452	762.1	758.4	PASS	24854.7
318.18	129.89	132.64	321.64	337.36	229.38	0.07206	0.07451	743.3	739.6	PASS	25542.5
317.26	130.30	131.30	321.53	338.95	231.86	0.07206	0.07451	762.7	758.9	PASS	26046.6
317.57	131.12	130.74	320.56	336.02	229.07	0.07208	0.07452	746.3	742.5	PASS	25561.2
315.31	129.07	130.12	320.66	339.31	228.93	0.07206	0.07450	762.0	758.1	PASS	25698.3
318.08	131.27	132.43	320.46	339.36	231.86	0.07207	0.07452	787.3	783.4	PASS	26002.6
318.23	131.22	130.53	319.43	336.02	230.88	0.07208	0.07451	767.1	763.1	PASS	26075.3
318.85	130.15	129.61	317.58	336.74	230.92	0.07207	0.07451	783.7	779.7	PASS	26218.8

317.41	129.99	130.38	322.10	338.59	237.29	0.07208	0.07450	797.7	793.5	PASS	26564.8
317.05	130.86	131.51	320.35	337.87	235.69	0.07208	0.07451	772.5	768.6	PASS	25662.3
317.93	128.86	129.92	319.02	336.02	235.62	0.07208	0.07453	782.4	778.8	PASS	26154.1
318.90	128.04	129.86	320.35	336.69	230.92	0.07208	0.07453	776.3	772.5	PASS	25032.3
319.00	131.63	131.10	319.07	337.15	232.41	0.07207	0.07451	775.0	771.1	PASS	25913.7
317.62	130.71	130.33	318.40	337.61	234.89	0.07208	0.07453	769.3	765.6	PASS	24965.8
318.39	131.74	129.20	319.74	337.20	232.76	0.07208	0.07451	771.5	767.6	PASS	25545.1
319.77	130.97	130.43	320.51	337.77	235.31	0.07207	0.07451	771.8	768.0	PASS	25929.3
319.72	131.69	132.28	322.20	338.59	233.21	0.07208	0.07450	735.5	731.9	PASS	24751.0
319.98	131.58	131.35	321.23	339.31	229.91	0.07207	0.07449	789.6	785.4	PASS	25959.0
319.46	129.33	130.17	320.71	338.74	238.68	0.07208	0.07451	779.6	775.7	PASS	25847.1
318.18	130.81	132.74	321.38	337.46	233.91	0.07209	0.07450	800.3	796.1	PASS	25612.0
319.72	131.33	131.04	320.97	337.36	237.60	0.07209	0.07452	796.3	792.3	PASS	25109.8
318.39	130.71	130.94	320.92	339.77	235.83	0.07209	0.07452	785.1	781.0	PASS	25519.5
319.77	132.35	130.74	322.30	338.90	230.18	0.07208	0.07449	794.8	790.5	PASS	24827.0
319.62	131.63	131.46	322.56	340.33	231.44	0.07208	0.07451	775.9	772.1	PASS	24904.2
319.21	131.22	133.61	323.02	341.36	232.45	0.07207	0.07450	790.0	785.8	PASS	25409.8
320.39	131.48	131.10	321.94	339.56	235.86	0.07208	0.07452	763.4	759.5	PASS	24670.7
322.08	131.74	129.86	322.46	341.67	235.72	0.07208	0.07451	769.4	765.5	PASS	25224.3
321.05	132.35	132.02	325.07	341.31	233.74	0.07207	0.07451	777.2	773.2	PASS	25751.4
321.00	131.33	131.51	322.87	339.41	242.83	0.07208	0.07452	771.3	767.3	PASS	25859.3
320.80	130.09	130.89	323.53	342.95	242.52	0.07209	0.07452	746.4	742.6	PASS	25779.2
321.57	130.25	131.92	323.53	339.67	233.46	0.07209	0.07452	760.6	756.8	PASS	25256.1
321.00	131.63	129.81	323.07	340.33	238.82	0.07209	0.07454	766.6	762.9	PASS	26432.9
319.62	130.86	131.97	324.82	340.64	238.72	0.07208	0.07452	747.9	744.0	PASS	25130.7
321.16	127.79	131.30	324.66	341.92	235.06	0.07207	0.07450	789.5	785.2	PASS	25583.7
324.65	131.89	131.25	324.10	339.41	239.00	0.07210	0.07453	771.3	767.5	PASS	24731.0
321.62	130.09	130.43	323.48	342.28	245.69	0.07210	0.07451	772.0	767.8	PASS	24754.3
321.88	131.02	132.79	324.20	340.28	242.55	0.07209	0.07453	785.6	781.7	PASS	25694.1
320.23	130.86	131.87	323.53	342.44	233.42	0.07209	0.07452	777.6	773.7	PASS	25735.5
321.62	131.22	132.53	323.18	340.69	242.80	0.07208	0.07453	763.4	759.5	PASS	25847.9
321.57	132.35	131.20	322.20	341.72	236.66	0.07208	0.07451	792.2	788.3	PASS	25068.3
322.03	130.86	131.51	323.84	340.79	234.09	0.07208	0.07451	774.8	770.8	PASS	25103.4
322.13	130.61	130.22	322.30	341.26	239.63	0.07207	0.07452	767.4	763.8	PASS	25562.6
320.54	130.76	130.79	323.48	340.13	239.49	0.07208	0.07450	779.2	775.1	PASS	25378.8
320.59	130.61	130.94	323.02	341.67	242.52	0.07209	0.07450	761.6	757.7	PASS	25159.4
321.21	130.76	130.63	323.74	342.33	237.08	0.07208	0.07450	799.2	795.1	PASS	25822.6
321.11	129.89	130.99	323.38	341.82	244.01	0.07209	0.07454	764.8	761.2	PASS	25237.6
319.87	131.58	132.28	321.84	339.10	244.19	0.07208	0.07451	797.1	793.0	PASS	25294.0
321.47	129.68	131.92	322.77	339.67	237.92	0.07208	0.07450	766.9	762.8	PASS	25325.9
320.29	130.61	131.20	324.41	341.31	250.88	0.07208	0.07451	778.8	775.0	PASS	26117.3
320.59	130.45	133.15	323.53	341.56	244.78	0.07208	0.07450	764.0	760.1	PASS	24923.9
322.29	131.17	131.97	323.12	340.64	242.06	0.07209	0.07454	779.9	776.2	PASS	25031.1
320.13	130.61	131.81	322.25	339.77	244.64	0.07208	0.07452	770.8	766.9	PASS	24600.5
319.67	131.43	131.71	322.92	339.46	247.29	0.07210	0.07452	773.6	769.5	PASS	25019.8
320.59	129.99	130.22	323.38	342.18	244.82	0.07208	0.07451	778.3	774.4	PASS	25622.6
319.36	132.20	129.45	322.20	339.26	246.38	0.07209	0.07450	757.3	753.4	PASS	25300.4
319.36	131.84	129.86	321.84	338.90	245.62	0.07210	0.07450	761.8	757.8	PASS	26307.9
319.93	128.91	130.74	322.56	339.15	250.18	0.07209	0.07452	756.9	753.1	PASS	26307.0
319.82	131.22	132.22	321.53	339.26	242.59	0.07209	0.07452	745.6	741.9	PASS	25519.2
316.69	131.63	130.12	320.61	341.10	251.75	0.07208	0.07449	769.9	765.8	PASS	25504.0
320.34	130.97	132.53	321.74	338.59	244.47	0.07209	0.07451	761.8	758.0	PASS	25601.1
319.16	131.12	130.74	321.12	336.02	242.31	0.07210	0.07452	758.3	754.5	PASS	25672.5
317.36	128.81	130.02	320.25	337.56	245.62	0.07209	0.07452	777.9	774.0	PASS	26044.3
318.85	131.17	128.74	319.43	337.87	242.59	0.07210	0.07453	773.5	769.7	PASS	25501.4
317.16	131.33	131.25	319.89	337.77	240.15	0.07210	0.07451	803.7	799.5	PASS	25928.5
316.90	129.53	131.61	321.02	338.18	249.55	0.07210	0.07452	774.2	770.3	PASS	24843.1
319.46	131.48	130.58	320.71	338.95	243.46	0.07210	0.07452	775.3	771.5	PASS	24632.0
319.05	132.20	130.69	319.94	338.02	242.41	0.07209	0.07452	776.1	772.2	PASS	25087.3

315.36	132.20	130.94	320.35	336.95	242.62	0.07210	0.07453	763.5	759.7	PASS	25294.5
319.72	131.33	130.33	321.89	338.59	242.24	0.07210	0.07451	786.0	782.0	PASS	26075.1
318.95	131.27	130.94	319.33	337.56	249.87	0.07210	0.07452	757.0	753.3	PASS	25494.9
317.21	131.27	131.40	320.46	337.61	244.68	0.07209	0.07451	788.1	783.9	PASS	25819.1
318.13	131.38	130.43	320.76	340.28	245.27	0.07209	0.07453	774.8	770.9	PASS	24614.0
314.59	131.02	131.56	320.97	335.61	250.56	0.07207	0.07450	797.6	793.4	PASS	26230.5
316.95	131.12	130.69	317.84	334.69	248.65	0.07209	0.07451	799.1	795.1	PASS	25832.2
318.44	131.17	130.38	320.20	337.25	248.16	0.07209	0.07451	763.4	759.7	PASS	25290.5
315.21	129.89	129.97	317.58	337.92	247.50	0.07209	0.07451	806.7	802.7	PASS	25212.6
316.95	132.04	129.25	318.05	336.18	250.15	0.07210	0.07452	774.5	770.6	PASS	24974.5
317.36	129.27	129.92	317.28	335.77	251.40	0.07208	0.07449	799.5	795.3	PASS	25226.6
317.98	130.86	129.76	318.51	335.97	251.89	0.07208	0.07451	752.7	748.9	PASS	25006.7
317.51	130.40	130.74	318.76	336.84	248.02	0.07209	0.07450	775.3	771.3	PASS	25730.4
318.49	131.89	132.17	320.15	338.43	243.28	0.07208	0.07451	776.0	772.2	PASS	25355.2
316.08	131.38	131.20	320.97	338.13	248.82	0.07209	0.07451	752.0	748.2	PASS	25310.0
315.41	131.43	132.38	320.92	339.20	251.75	0.07210	0.07451	789.9	785.8	PASS	26624.5
318.39	129.43	128.74	320.10	338.64	251.09	0.07209	0.07452	746.9	743.0	PASS	25432.8
318.69	132.87	131.30	322.15	339.00	251.68	0.07208	0.07451	770.6	766.5	PASS	25805.3
317.41	131.17	131.61	320.51	335.46	255.23	0.07206	0.07452	767.1	763.4	PASS	25354.3
318.64	130.81	131.15	320.87	337.61	250.56	0.07209	0.07451	756.0	752.1	PASS	25788.5
317.26	131.33	131.56	320.82	338.69	256.28	0.07209	0.07453	776.3	772.4	PASS	24798.8
318.49	131.43	131.81	322.00	336.33	253.94	0.07209	0.07451	778.9	774.9	PASS	25240.4
319.21	131.48	128.12	319.94	338.59	259.45	0.07209	0.07451	772.4	768.1	PASS	26153.2
317.87	128.97	132.79	321.43	339.92	249.97	0.07209	0.07452	742.6	738.9	PASS	25119.7
318.28	130.15	132.89	320.25	336.43	253.18	0.07209	0.07453	775.0	771.1	PASS	26069.9
318.85	129.58	129.86	321.69	339.72	254.78	0.07210	0.07452	794.0	789.8	PASS	25388.4
318.80	129.94	131.10	322.46	339.41	251.23	0.07208	0.07452	744.9	741.1	PASS	26215.2
318.23	133.48	131.35	320.87	337.87	258.05	0.07209	0.07452	791.1	787.0	PASS	25559.3
317.67	131.58	131.04	322.56	340.33	253.35	0.07209	0.07451	763.5	759.5	PASS	25262.0
319.87	129.43	131.25	322.92	340.44	251.75	0.07209	0.07452	779.4	775.4	PASS	25949.3
320.23	131.17	131.46	322.71	339.41	258.02	0.07208	0.07450	805.7	801.3	PASS	25785.8
319.52	133.84	131.71	322.97	339.61	256.73	0.07209	0.07452	771.8	767.8	PASS	25958.8
318.39	131.84	130.79	322.51	339.15	258.02	0.07208	0.07449	801.6	797.3	PASS	24314.7
319.05	130.45	131.04	321.69	342.08	257.53	0.07209	0.07451	781.8	778.0	PASS	25778.2
321.52	131.48	131.10	324.36	338.69	259.38	0.07210	0.07452	807.1	803.1	PASS	25820.3
321.05	130.97	131.51	323.43	337.87	258.93	0.07210	0.07453	753.8	750.0	PASS	25514.7
320.54	131.99	129.92	320.97	338.33	257.43	0.07210	0.07452	765.7	761.8	PASS	25364.8
320.59	132.25	131.97	323.53	340.18	254.81	0.07209	0.07454	785.1	781.3	PASS	25844.1
321.31	131.22	132.79	323.74	339.61	257.81	0.07211	0.07452	773.8	770.0	PASS	25815.1
319.87	130.30	131.20	322.87	340.49	254.26	0.07209	0.07452	748.4	744.5	PASS	24661.3
318.80	131.12	131.25	321.53	338.59	259.38	0.07210	0.07451	782.1	778.0	PASS	26623.3
319.57	131.33	131.35	322.97	340.64	251.16	0.07209	0.07452	736.0	732.2	PASS	25635.7
321.05	131.69	132.84	323.84	341.10	255.72	0.07209	0.07451	782.3	778.0	PASS	26007.9
320.80	130.92	130.02	322.30	339.82	266.00	0.07210	0.07453	778.4	774.4	PASS	25808.2
320.59	131.07	130.48	321.94	340.08	257.43	0.07210	0.07452	788.2	784.3	PASS	25263.6
321.67	131.33	132.48	323.28	340.49	257.74	0.07209	0.07452	769.7	765.8	PASS	25724.3
321.62	131.27	130.48	321.94	340.18	258.82	0.07210	0.07450	800.6	796.4	PASS	26203.5
321.16	130.04	130.48	322.61	338.59	258.05	0.07208	0.07449	792.4	788.2	PASS	26097.8
319.87	129.89	132.22	322.82	339.61	262.62	0.07210	0.07452	761.5	757.6	PASS	25274.1
322.34	131.69	131.46	322.56	341.10	264.01	0.07209	0.07452	800.8	796.9	PASS	25157.7
321.36	131.38	130.69	323.43	340.03	259.66	0.07209	0.07453	774.0	770.1	PASS	25056.0
322.08	131.43	130.43	324.25	341.97	258.79	0.07210	0.07450	799.5	795.1	PASS	25702.7
320.13	130.92	130.48	322.25	339.36	266.66	0.07209	0.07451	806.7	802.6	PASS	24890.3
321.41	130.30	130.69	323.74	340.03	262.41	0.07208	0.07452	782.0	778.0	PASS	25572.2
320.85	131.69	130.38	322.20	339.05	264.05	0.07210	0.07454	739.1	735.5	PASS	25584.1
320.75	130.15	129.71	322.82	340.85	261.26	0.07208	0.07451	761.6	757.5	PASS	24800.4
320.44	131.02	131.25	324.00	342.28	261.09	0.07209	0.07453	790.8	786.8	PASS	25649.4
318.75	132.61	130.02	321.43	338.59	262.48	0.07210	0.07453	783.1	779.3	PASS	24932.7
321.00	131.22	131.46	323.74	342.08	268.82	0.07210	0.07451	769.3	765.4	PASS	25565.0

319.77	131.38	131.15	323.33	341.10	265.65	0.07209	0.07451	796.7	792.6	PASS	25270.6
316.80	129.53	129.97	323.12	338.43	265.58	0.07210	0.07454	777.5	773.6	PASS	25104.9
320.54	129.68	130.38	322.56	340.69	264.40	0.07209	0.07453	783.7	779.9	PASS	25509.4
320.39	130.30	129.61	322.35	339.72	266.76	0.07209	0.07452	771.7	767.7	PASS	24358.1
319.16	132.25	131.76	322.20	338.74	266.10	0.07210	0.07451	777.5	773.4	PASS	25558.2
320.44	129.63	131.56	322.25	337.82	264.85	0.07211	0.07454	755.1	751.4	PASS	25675.5
320.59	129.22	131.40	322.00	338.38	266.90	0.07209	0.07451	761.1	757.3	PASS	26041.3
317.46	130.15	130.99	322.51	339.72	266.07	0.07208	0.07451	784.9	780.9	PASS	25889.0
322.39	130.81	131.20	321.53	340.03	266.76	0.07208	0.07452	756.6	752.7	PASS	25880.0
318.28	129.07	130.94	322.20	339.97	272.62	0.07210	0.07450	809.3	805.2	PASS	26399.6
318.85	129.74	129.40	321.12	339.31	268.75	0.07209	0.07452	772.8	769.0	PASS	25220.8
318.80	127.48	129.81	320.46	338.28	267.32	0.07208	0.07450	758.3	754.4	PASS	25572.4
319.00	129.89	131.61	321.43	337.51	278.23	0.07208	0.07450	768.5	764.6	PASS	25340.2
317.72	128.71	130.22	321.02	338.69	268.99	0.07208	0.07452	748.0	744.2	PASS	25400.7

Table F-7. Continued

Sensible Cooling Capacity Btu/hr	Latent Cooling Capacity Btu/hr	Degree of Sub- cooling F	Degree of Super- heat F	Refrig Cooling Capacity Btu/hr	Time hhmmss
17029.6	8786.9	8.7	12.0	25273.0	173210
16922.0	8641.7	8.5	11.9	25238.9	173220
16715.7	8484.2	8.7	12.6	25302.8	173230
16634.4	8415.5	8.8	12.2	25258.5	173240
17689.3	9203.4	8.7	12.3	25272.9	173250
17122.2	8756.3	8.8	12.0	25266.2	173300
16957.7	8757.4	8.6	11.7	25262.1	173310
16752.2	8511.0	8.6	11.8	25231.3	173320
17279.6	8674.0	8.7	12.0	25317.8	173330
16793.2	8532.1	8.7	11.9	25278.4	173340
16784.0	8495.3	8.6	12.1	25292.1	173350
17191.6	8581.9	8.5	11.4	25172.0	173400
16626.1	8357.8	8.6	11.7	25179.9	173410
16995.6	8542.6	8.4	11.4	25085.0	173420
16803.0	8543.4	8.4	11.9	25107.9	173430
16903.4	8567.8	8.4	12.2	25168.2	173440
17469.2	8640.7	8.3	12.6	25180.1	173450
16825.8	8494.8	8.5	12.6	25262.4	173500
16629.3	8403.5	8.4	13.3	25289.1	173510
17424.2	8876.0	8.5	12.8	25195.8	173520
16842.1	8497.8	8.5	13.4	25339.5	173530
16930.1	8692.5	8.5	13.8	25354.6	173540
17028.8	8772.7	8.4	13.6	25355.4	173550
17361.4	8904.8	8.4	13.8	25294.4	173600
17458.6	8981.7	8.5	13.3	25305.7	173610
16779.6	8648.7	8.7	13.0	25293.5	173620
16936.4	8560.1	8.5	13.6	25312.3	173630
16822.6	8540.1	8.4	13.3	25275.5	173640
17076.6	8648.1	8.6	13.3	25297.8	173650
16599.0	8569.4	8.5	13.4	25321.5	173700
16741.3	8589.4	8.4	13.2	25262.8	173710
16881.3	8702.9	8.4	13.4	25283.3	173720
16557.3	8576.2	8.5	13.5	25275.9	173730
17559.1	8881.8	8.4	13.5	25327.0	173740
17069.4	8706.6	8.3	13.5	25230.6	173750
17033.3	8553.6	8.4	13.9	25371.9	173800
16789.5	8689.5	8.5	13.8	25285.8	173810
17318.6	8690.3	8.4	13.8	25279.0	173820
16843.4	8463.1	8.5	13.7	25379.4	173830
16787.5	8497.8	8.6	13.9	25377.2	173840
17329.9	8755.1	8.4	13.5	25260.3	173850
16529.6	8357.3	8.6	13.9	25383.1	173900
16547.6	8307.1	8.4	13.9	25394.5	173910
16966.0	8576.6	8.6	13.5	25302.7	173920
17211.0	8835.6	8.8	13.5	25390.6	173930
16996.0	8565.2	8.7	13.4	25391.8	173940
17090.5	8607.7	8.6	13.7	25246.7	173950
17210.8	8791.8	8.4	13.4	25365.7	174000
17169.5	8905.8	8.7	13.4	25350.9	174010
17333.7	8885.1	8.4	13.2	25237.1	174020

17576.2	8988.6	8.5	13.5	25403.3	174030
16975.6	8686.7	8.5	13.8	25379.8	174040
17167.0	8987.1	8.4	13.5	25281.8	174050
16556.5	8475.8	8.6	13.1	25376.8	174100
17039.9	8873.9	8.7	13.5	25423.9	174110
16561.1	8404.7	8.7	13.0	25293.0	174120
16881.4	8663.8	8.8	13.5	25392.1	174130
17156.4	8772.8	8.7	13.2	25356.6	174140
16094.3	8656.8	8.5	13.1	25301.6	174150
17155.6	8803.4	8.7	12.6	25456.2	174200
17091.5	8755.6	8.7	13.2	25401.5	174210
16851.4	8760.6	8.6	13.2	25368.7	174220
16535.7	8574.1	8.8	12.6	25391.6	174230
16907.7	8611.8	8.8	12.5	25361.8	174240
16503.0	8324.1	8.7	12.6	25353.4	174250
16447.3	8456.8	8.7	12.9	25383.4	174300
16702.0	8707.8	8.8	13.1	25402.1	174310
16251.5	8419.2	8.7	12.3	25296.8	174320
16733.5	8490.9	8.9	12.2	25326.9	174330
17064.2	8687.2	9.0	12.7	25373.0	174340
16942.4	8917.0	8.7	11.7	25192.9	174350
17129.1	8650.1	8.7	11.6	25232.8	174400
16745.3	8510.8	8.8	11.7	25314.6	174410
17415.5	9017.4	8.5	11.3	25140.0	174420
16674.8	8455.9	8.6	11.2	25165.8	174430
17055.2	8528.5	8.6	11.1	25163.2	174440
16328.2	8402.9	8.4	12.0	25128.4	174450
16498.7	8255.6	8.7	12.2	25239.3	174500
17043.5	8650.6	8.7	12.5	25358.7	174510
16992.3	8743.2	8.6	12.5	25285.4	174520
17140.4	8707.6	8.7	12.2	25261.0	174530
16586.8	8481.4	8.6	12.2	25230.4	174540
16672.7	8430.6	8.3	11.4	25155.8	174550
16890.8	8671.8	8.7	12.2	25253.4	174600
16833.1	8545.7	8.6	12.5	25231.5	174610
16519.0	8640.3	8.7	12.7	25230.2	174620
16979.0	8843.7	8.7	13.0	25358.8	174630
16608.0	8629.6	8.4	12.6	25249.3	174640
16749.0	8545.0	8.5	12.9	25243.5	174650
16783.4	8542.5	8.6	12.1	25277.7	174700
17278.0	8839.3	8.5	12.6	25267.9	174710
16462.6	8461.3	8.4	12.3	25252.0	174720
16551.1	8479.9	8.5	13.1	25267.7	174730
16322.0	8278.5	8.5	13.0	25262.4	174740
16460.9	8558.9	8.5	12.7	25235.2	174750
16961.8	8660.8	8.6	13.0	25295.5	174800
16628.0	8672.5	8.5	12.9	25277.5	174810
17374.1	8933.8	8.1	12.7	25144.7	174820
17427.4	8879.6	8.4	12.9	25291.8	174830
16904.0	8615.2	8.4	13.0	25283.7	174840
16915.5	8588.4	8.1	13.4	25211.2	174850
16963.7	8637.4	8.3	13.5	25283.6	174900
16967.9	8704.7	8.4	13.5	25251.4	174910
17175.6	8868.7	8.3	13.6	25305.7	174920
16778.1	8723.4	8.4	13.8	25391.7	174930
17199.5	8729.0	8.4	14.0	25391.6	174940
16345.7	8497.3	8.5	13.8	25327.4	174950
16347.5	8284.5	8.7	13.7	25329.3	175000
16577.7	8509.6	8.3	13.3	25334.0	175010

16717.0	8577.5	8.4	13.6	25264.4	175020
17197.3	8877.8	8.4	13.7	25377.3	175030
16785.0	8709.9	8.8	13.9	25426.4	175040
16988.4	8830.8	8.5	13.1	25333.2	175050
16263.8	8350.2	8.7	13.7	25380.6	175100
17272.7	8957.8	8.6	14.0	25442.7	175110
17066.2	8766.0	8.5	13.6	25278.2	175120
16704.8	8585.7	8.6	13.3	25320.8	175130
16605.6	8607.0	8.6	13.6	25344.7	175140
16368.2	8606.3	8.4	13.5	25275.7	175150
16671.5	8555.1	8.6	12.6	25269.4	175200
16492.4	8514.2	8.3	13.1	25284.3	175210
16967.3	8763.0	8.4	13.8	25307.7	175220
16730.2	8625.0	8.6	13.5	25331.9	175230
16725.9	8584.1	8.7	13.6	25426.2	175240
17567.3	9057.2	8.5	13.4	25357.5	175250
16828.2	8604.6	8.6	13.4	25329.1	175300
17091.1	8714.2	8.7	12.3	25321.3	175310
16799.4	8555.0	8.5	12.2	25213.3	175320
17038.5	8750.0	8.7	12.6	25300.7	175330
16399.9	8398.9	8.6	12.3	25278.4	175340
16692.8	8547.6	8.5	11.9	25238.7	175350
17374.5	8778.7	8.6	12.1	25300.9	175400
16584.1	8535.6	8.7	12.2	25293.5	175410
17250.4	8819.5	8.6	11.4	25119.3	175420
16760.5	8627.8	8.5	11.1	25145.3	175430
17386.3	8828.9	8.6	12.2	25244.9	175440
16975.1	8584.3	8.6	12.5	25252.3	175450
16694.3	8567.7	8.6	12.2	25263.9	175500
17234.5	8714.8	8.9	12.5	25395.3	175510
17141.4	8644.4	8.5	12.4	25269.9	175520
17049.6	8909.2	8.5	12.0	25210.0	175530
15997.2	8317.4	8.8	12.3	25290.5	175540
17062.1	8716.0	8.5	12.6	25294.5	175550
17071.4	8748.8	8.7	12.2	25258.4	175600
16813.8	8700.9	8.7	12.4	25302.2	175610
16659.6	8705.2	8.5	12.2	25233.4	175620
17006.5	8837.6	8.7	12.6	25235.9	175630
17023.2	8791.9	8.6	12.2	25271.1	175640
16300.6	8360.6	8.4	12.6	25197.1	175650
17589.8	9033.5	8.4	12.8	25231.2	175700
16926.5	8709.2	8.7	12.4	25337.8	175710
17165.3	8842.6	8.6	12.8	25317.2	175720
17108.5	8699.7	8.6	12.7	25252.9	175730
16787.9	8475.7	8.5	12.2	25237.8	175740
17007.5	8716.8	8.6	11.6	25231.2	175750
17303.2	8900.3	8.7	12.3	25250.0	175800
17255.9	8842.0	8.7	12.3	25214.2	175810
16662.1	8612.1	8.5	12.4	25190.3	175820
16683.8	8473.8	8.6	12.5	25251.0	175830
16647.4	8408.6	8.7	11.0	25184.0	175840
17044.8	8657.9	8.6	11.5	25159.4	175850
16509.2	8381.2	8.5	12.1	25204.4	175900
16893.4	8678.7	8.6	12.5	25221.5	175910
16950.5	8633.6	8.5	12.5	25234.7	175920
16583.0	8217.4	8.4	12.7	25247.6	175930
16940.4	8709.0	8.4	11.5	25210.9	175940
16478.5	8454.2	8.4	13.0	25222.6	175950
16983.5	8581.5	8.4	12.3	25247.0	180000

16773.9	8496.7	8.6	12.5	25249.7	180010
16531.9	8572.9	8.4	13.4	25264.2	180020
16885.5	8623.9	8.4	13.0	25290.1	180030
16029.5	8328.7	8.4	13.1	25337.8	180040
16923.3	8634.9	8.4	13.4	25299.1	180050
16956.1	8719.4	8.5	13.0	25306.3	180100
17221.3	8820.0	8.5	13.2	25294.9	180110
17257.3	8631.7	8.3	13.2	25250.4	180120
17079.8	8800.1	8.5	13.6	25314.4	180130
17410.2	8989.3	8.5	13.3	25287.3	180140
16751.3	8469.5	8.4	13.6	25361.2	180150
16960.1	8612.2	8.5	13.4	25285.4	180200
16832.2	8508.0	8.4	13.7	25301.6	180210
16695.5	8705.3	8.4	14.1	25334.3	180220

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