IMPROVING REFRIGERATION CYCLE EFFICIENCY BY EVAPORATIVE PRECOOLING THE CONDENSER INLET AIR

A Thesis

by

ERIC CORONADO

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

MASTER OF SCIENCE

Chair of Committee,	Michael B. Pate
Committee Members,	Jorge Alvarado
	Matt Pharr
Head of Department,	Andreas A. Polycarpou

December 2017

Major Subject: Mechanical Engineering

ABSTRACT

The need to improve the energy performance of Heating, Ventilation & Air Conditioning (HVAC) units has always been a primary goal for designers as they implement new concepts and/or modifications to the standard vapor compression cycle. Recently, this primary goal has taken on an added importance due to the phasing out of conventional refrigerants that harm the environment. The newer environmentally safe refrigerants that are being considered as replacements have been shown to hinder the performance of HVAC units. A new method to increase the performance of HVAC units is investigated herein with the approach based on the integration of evaporative precooling to the air side of an HVAC system's condenser.

The goal of this project is two-fold, namely to develop a facility and methodology to test the performance of HVAC units with precooling applied to the HVAC unit's condenser, and then to perform and evaluate the results of testing. The psychometric testing facility at Texas A&M was restored to operation in accordance with AHRI 210/240 standard and then modified in order to accommodate the addition of an evaporative cooler. The testing facility allowed for the complete control of temperature and relative humidity of two separate rooms in order to simulate indoor and outdoor conditions.

The efficiencies of the HVAC unit were shown to improve with the implementation of evaporative precooling. The improvement of the coefficient of performance (COP) revealed to improve by a greater amount when operating at a higher

dry bulb temperature in the outdoor room. The reason for this increased improvement at higher outdoor temperatures was that the evaporative cooler was able to impart a larger reduction in the in dry bulb temperature entering the condenser. For example, at the highest dry bulb temperature testing condition, Test C (110^{o}F), the evaporative cooler was able to provide 18^{o}F of precooling. The effect of reducing the high-side refrigerant condition when precooling was applied to the condenser is a reduction in power consumption by the compressor, especially at higher outdoor dry bulb temperatures. For example, a reduction of 327 watts was observed at Test C, significantly offsetting the evaporative cooler’s 25 watt water pump power. The largest improvement in COP, namely 23%, occurred at the C Test conditions, which corresponded to the highest outdoor temperature of 110^{o}F.

DEDICATION

This thesis is dedicated to my family for their love and support as I've journeyed through life. Their unwavering love and guidance has allowed me to pursue my dreams and become the best version of myself.

I would also like to thank my brothers and sisters in the military for the guidance they provided during my time in the Navy. I would encourage all of my military family to pursue their goals in life and to continue their education after completing their service. I wish you guys the best.

CONTRIBUTORS AND FUNDING SOURCES

Contributors

This work was supported by a thesis committee consisting of Dr. Pate and Dr. Pharr of the Department of Mechanical Engineering and Dr. Alvarado of the Department of Engineering Technology and Industrial Distribution.

All work conducted for this thesis was completed the student independently.

Funding Sources

Graduate study was supported by RELLIS Energy Efficiency Laboratory at Texas A&M University

NOMENCLATURE

AHRI	Air-conditioning, Heating, and Refrigeration Institute
AMB	Atmospheric Pressure, in. Hg
ASHAE	American Society of Heating & Air Conditioning Engineers
ASHRAE	American Society of Heating, Refrigerating & Air Conditioning Engineers
ASME	American Society of Mechanical Engineers
ASRE	American Society of Refrigerating Engineers
CFC	Chlorofluorocarbons
COP	Coefficient of Performance
COP_R	Coefficient of Performance for Refrigerant System
$COP_{R\&E}$	Coefficient of Performance for Refrigerant and Evaporative Cooler Combination
DAQ	Data Acquisition
DB	Dry Bulb
DP	Differential Pressure, inches of water
HCFC	Hydrochlorofluorocarbons
HVAC	Heating Ventilation & Air Conditioning
IR	Indoor Room
NI	National Instruments
OR	Outdoor Room
P	Pressure, inches of water
REEL	RELLIS Energy Efficiency Laboratory

RH	Air Relative Humidity, %
RTD	Resistance Temperature Detector
s	Entropy
T	Temperature
VCR	Vapor Compression Refrigeration
VFD	Variable Frequency Drive
WB	Wet Bulb
W	Watts
gpm	Gallons per minute,
cfm	Cubic feet per minute
$\in_{Evap}$	Evaporative Cooler Performance
Q_H	Cooling Rate to Hot Reservoir, Btu/hr
Q_L	Cooling Rate Out of Cold Reservoir, Btu/hr
$q_{sensible}$	Evaporator Sensible Cooling Rate, Btu/hr
q_{latent}	Evaporator Latent Cooling Rate, Btu/hr
$q_{cooling}$	Condenser Sensible Cooling Rate, Btu/hr
W_{in}	HVAC Work Input, Watts
$\dot{m}_R$	Refrigerant Mass Flowrate, lbm_R/min
h_{1a}	Enthalpy of Air: Inlet Evaporator, Btu/lbm_a
h_{2a}	Enthalpy of Air: Outlet Condenser, Btu/lbm_a
h_{3a}	Enthalpy of Air: Inlet Condenser, Btu/lbm_a
h_{4a}	Enthalpy of Air: Outlet Evaporator, Btu/lbm_a

h_{1R}	Enthalpy of Refrigerant: Outlet Evaporator, Btu/lbm_R
h_{2R}	Enthalpy of Refrigerant: Inlet Condenser, Btu/lbm_R
h_{3R}	Enthalpy of Refrigerant: Outlet Condenser, Btu/lbm_R
h_{4R}	Enthalpy of Refrigerant: Inlet Evaporator, Btu/lbm_R
$\dot{V}_a$	Volumetric Airflow, cfm
v_a	Specific Volume of the Dry Air Portion of the Mixture, $ft3/lbm_a$
c_{ca}	Air Specific Heat: Outlet Condenser, Btu/lbm_a
$c_{p_{a1}}$	Air Specific Heat: Inlet Evaporator, Btu/lbm_a
$c_{p_{a2}}$	Air Specific Heat: Outlet Evaporator, Btu/lbm_a
T_{aceD}	Air Dry Bulb Temperature: Inlet Condenser, ^oF
T_{acoD}	Air Dry Bulb Temperature: Outlet Condenser, ^oF
T_{acoW}	Air Wet Bulb Temperature: Outlet Condenser, ^oF
T_{aeiD}	Air Dry Bulb Temperature: Inlet Evaporator, ^oF
T_{aeoD}	Air Dry Bulb Temperature: Outlet Evaporator, ^oF
A_N	Nozzle Area, in^2
P_v	Static Differential Pressure at Nozzle, inches of water
W_{1a}	Air Humidity Ratio: Inlet Evaporator, lbm_v/lbm_a
W_{2a}	Air Humidity Ratio: Outlet Evaporator, lbm_v/lbm_a

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

1. INTRODUCTION

In recent years the global market for Heating, Ventilation, and Air Conditioning (HVAC) systems has been altered due to the worldwide banning of certain types of refrigerants. Specifically, conventional refrigerants are being phased out due to potential global warming and ozone depletion concerns. The replacement refrigerants that are being considered may be more environmentally friendly, but their use can have adverse effects such as lowering the coefficient of performance (COP) of the vapor compression refrigeration (VCR) systems. Furthermore, the few refrigerants available that do not reduce COP's have flammability concerns that vary from mild to severe.

One of the methods currently under investigation for recovering some of the lost efficiency by the newer ozone-safe refrigerants is modifications to conventional methods such as the integration of an evaporative cooler to a VCR cycle. The goal of this project is to introduce an evaporative cooling system at the air inlet to the condenser of a VCR cycle and then to determine the effects on the system's COP. By precooling the air entering the condenser, the result can be a lowering of the refrigerant-side pressure for a given refrigerant-to-air differential temperature, which then results in a lower pressure differential across the compressor. This lower differential pressure improves the efficiency of the system because a smaller amount of power is required than that of the compressor in a standard VCR cycle. With the compressor being the largest source of power consumption in an HVAC unit, any reduction in the compressor's power demand would lead to an increase in efficiency or COP for the entire HVAC unit.

2. THEORY

2.1 Vapor Compression Refrigeration Cycle

A vapor compression cycle involves a refrigerant transferring thermal energy (i.e. heat) from a low temperature source, which is often the inside of a building, and then rejecting the thermal energy to a high temperature environment, namely the outdoors. Figure 1 shows a vapor compression cycle and the various states that the refrigerant must undergo when cooling a heat source. Using Figure 1, the various states that the refrigerant must undergo when cooling a heat source are described. Heat from the source (Q_L) is transferred to the refrigerant flowing through an evaporator, from states 4 to 1, which operates at a low temperature and pressure in the VCR cycle. The refrigerant leaving the evaporator is then compressed into a superheated vapor, from states 1 to 2, by the compressor (W_{in}). The high pressure, high temperature vapor exits the compressor, which then transfers its heat (Q_H) to the environment though a condenser, from states 2 to 3. The exiting refrigerant, state 3, from the condenser is now a saturated liquid at a high pressure and low temperature. The expansion valve located downstream of the condenser then drops the pressure, and hence temperature, of the refrigerant, from states 3 to 4, so that it enters the evaporator as a saturated vapor-liquid mixture, which takes us to the beginning of the VCR cycle.

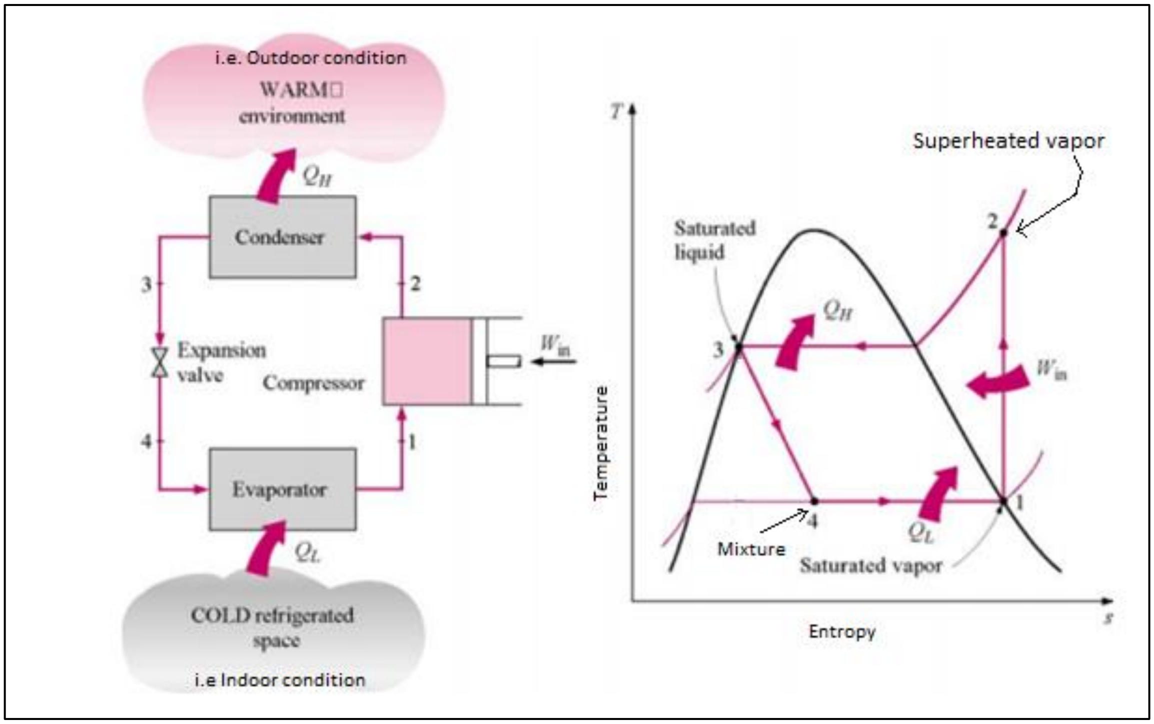

Figure 1: Diagram for a vapor compression refrigeration cycle. [1]

By measuring the heat transfer that occurs within an HVAC unit, the coefficient of performance (COP) can be measured. The heat transfer entering the refrigerant (Q_L) is calculated from an energy balance and measured, while the electrical power needed to power the HVAC unit (W_{in}) is measured by a wattmeter. COP can be found as follows.

$$COP_R = \frac{\dot{Q}_L}{\dot{W}_{in}} \quad \text{Eq. (1)}$$

The thermal energy transferred out of the indoor space (Q_L) can be calculated by performing an energy balance on the evaporator with a control volume focusing on the refrigerant side. Specifically, the mass flowrate of the refrigerant ($\dot{m}_R$) is multiplied by the difference in enthalpy from states 1 and 4 as shown in Figure 1. Additionally, the energy transfer out of indoor space air passing through the evaporator can be calculated by equating it to the energy that goes into the refrigerant. The flowrate of air is calculated by the relation of mass flowrate to volumetric flow ($\dot{V}_a$) and density of the air (v_a). In summary, these are two methods based on enthalpy changes on the refrigerant and airside of the evaporator for calculating the thermal energy out of the indoor space.

$$\dot{Q}_L = \dot{m}_R(h_{1R} - h_{4R}) = \frac{\dot{V}_a}{v_a}(h_{4a} - h_{1a}) \qquad \text{Eq. (2)}$$

Following a procedure similar to that used above for the evaporator, the thermal energy transferred out of the refrigerant onto the outdoor environment (Q_H) is calculated. Specifically, the mass flowrate of the refrigerant ($\dot{m}_R$) is multiplied by the difference in enthalpy passing through the condenser, from states 3 and 2 as shown in Figure 1. Additionally, the energy transfer onto the outdoor space air can be calculated by equating it to the energy that is removed from the refrigerant. As with the evaporator, there are two methods used for calculating the thermal energy onto the outdoor space.

$$\dot{Q}_H = \dot{m}_R(h_{3R} - h_{2R}) = \frac{\dot{V}_a}{v_a}(h_{2a} - h_{3a}) \qquad \text{Eq. (3)}$$

The work input to the VCR cycle is in the form of compression of the refrigerant (W_{in}). This term can be measured by a power meter, or by the power required to compress the refrigerant. It is be calculated by using refrigerant enthalpies from state 1 to 2 as shown in Figure 1.

$$W_{in} = \dot{m}_R (h_{2R} - h_{1R}) \qquad \text{Eq. (4)}$$

2.2 Evaporative Coolers

The primary method being investigated in this study for recuperating the loss of efficiency from the new environmentally friendly refrigerants is the implementation of an evaporative cooler at the air-side inlet of the HVAC's condenser. The evaporative cooler works on the premise of saturating the air with moisture therefore causing the entering air temperature to decrease. The direct evaporative cooling method was used for this investigational work. This method functions by passing air directly though a wet membrane so as to saturate the air with moisture thus approaching the wet bulb temperature condition as shown on Figure 2. An example of the effects that evaporative cooling can have on an air sample are displayed on the Figure 3 psychometric chart. This example presents an air sample at 90^{o}F and 60% relative humidity being fully saturated to a 100% humidity condition. As this process occurs, the dry bulb temperature is reduced to approximately 78^{o}F, a reduction of 12^{o}F, occurring by simply adding water to the air. This lower air temperature can play a key role in the condensers' performance of the VCR cycle in that the refrigerant-to-air temperature difference is unchanged but the condenser temperature and hence pressure decreases by a similar amount. With a lower pressure at the high-side outlet of the condenser, the compressor needs less work while transferring a similar amount of heat from the indoor space. The reduction in work required by the compressor results in an increase of VCR cycle COP.

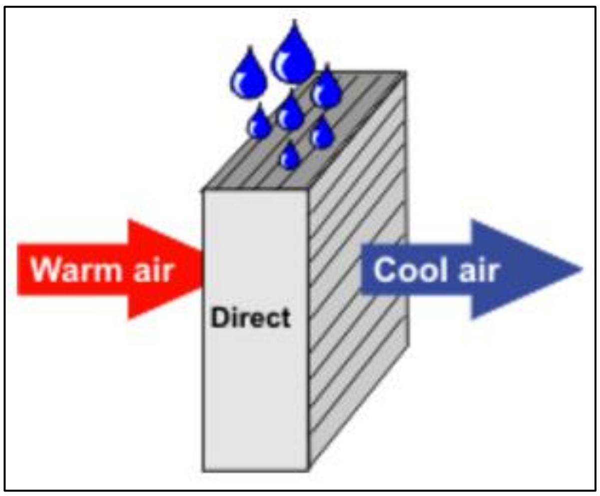

Figure 2: Example of the direct evaporative cooling method.

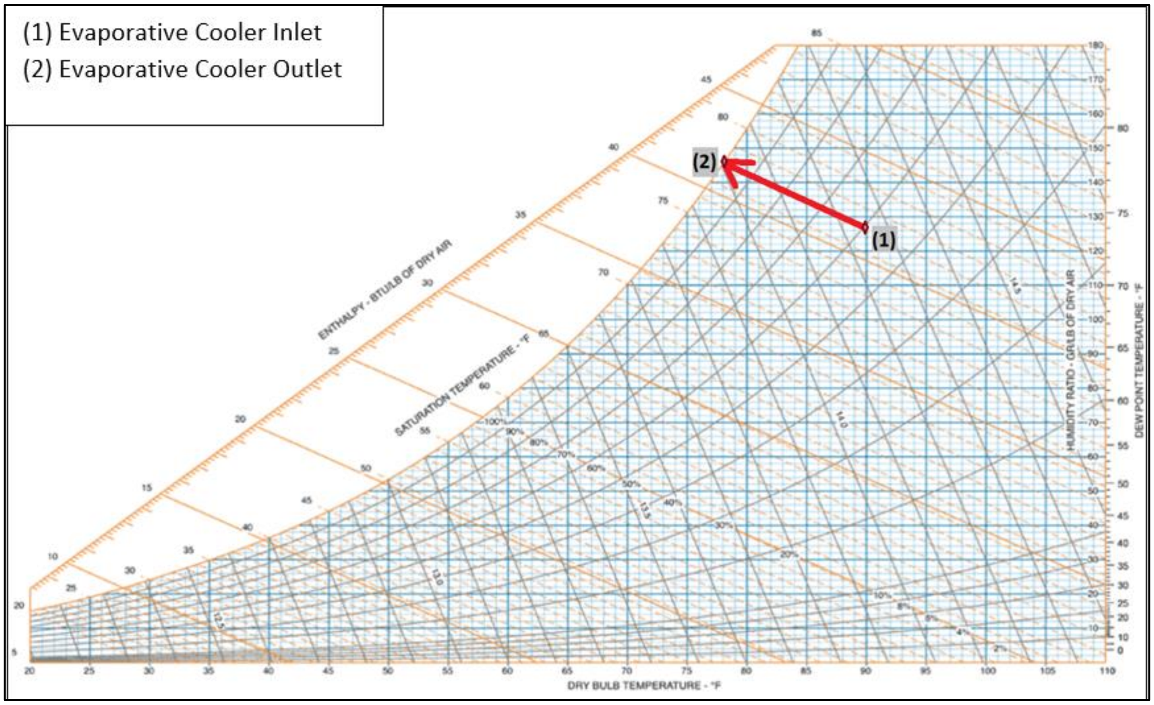

Figure 3: Condenser inlet air path through an evaporative cooler

2.3 Implementing Evaporative Precooling at Condenser Inlet

The evaporative cooler that was installed in this study at the outside air condenser inlet of the VCR cycle allows for the lowering of air temperature by saturating the air with water. The lowered temperature air then acts as the heat sink for the refrigerant rejecting its heat to the environment. As a result, the refrigerant pressure and temperature at the discharge of the condenser, point 3 on Figure 4, will be lower than it is for the non-evaporative cooler VCR case. Since the refrigerant is entering the expansion valve at a lower temperature than before, the refrigerant will have a reduced enthalpy as it enters the evaporator which in turn transfers more heat out of the refrigerated space (Q_L). Even more importantly, the work (W_{in}) going into the VCR cycle will also be lower due to the compressor having to compress the vapor to a lower pressure. This reduction in compressor work associated with the introduction of evaporative precooling to the condenser can be seen on the Figure 4 temperature entropy diagram.

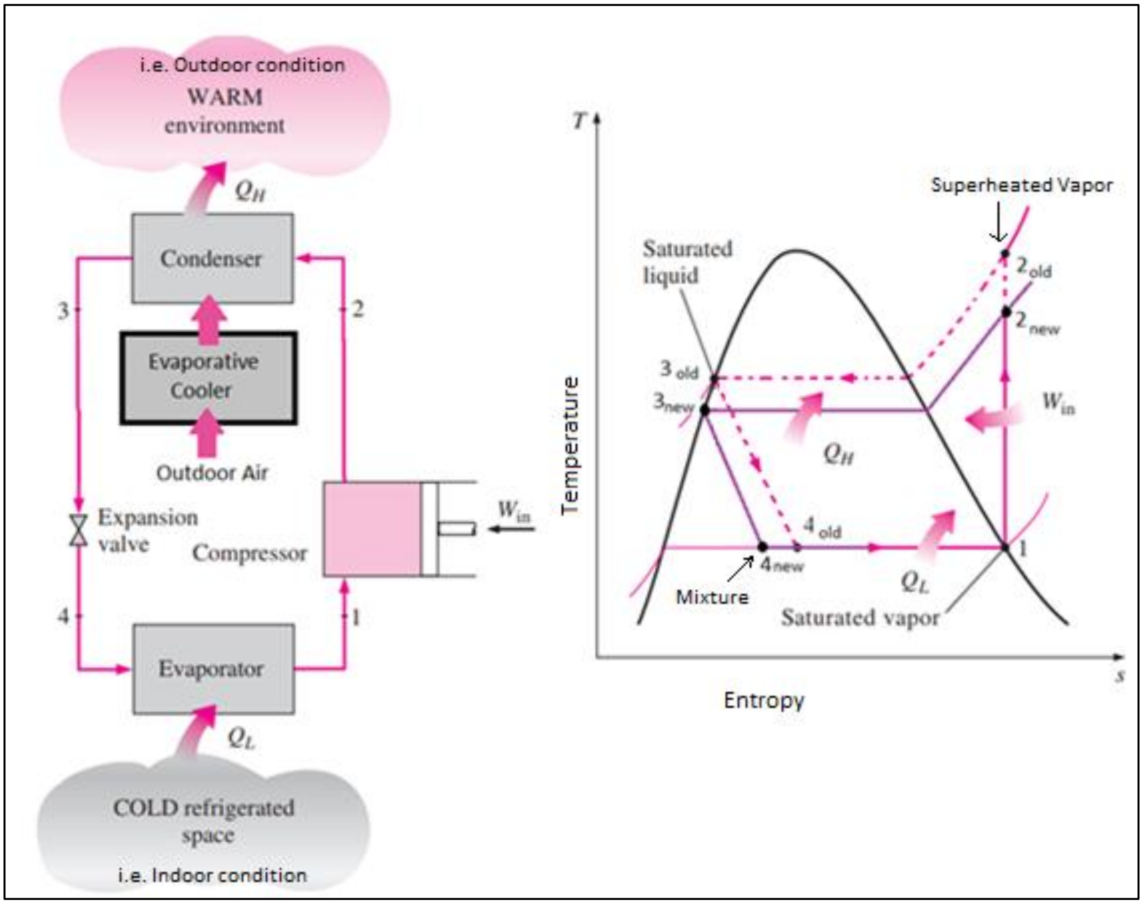

Figure 4: Schematic of a VCR cycle with the introduction of evaporative precooling to the condenser inlet air. [1].

The increase of Q_L and reduction in W_{in} results in an overall increase in the coefficient of performance when compared to that of the VCR cycle alone. The effects on the COP of the VCR cycle and evaporative cooler combination ($COP_{R\&E}$) are as follows.

$$COP_{R\&E} = \frac{\dot{Q}_L \uparrow}{\dot{W}_{in} \downarrow} \qquad \text{Eq. (5)}$$

3. TEST METHODOLOGY

3.1 Testing Facility

The psychometric room at the RELLIS Energy Efficiency Laboratory (REEL) was restored to service after being non-operational for several years in accordance with the AHRI 210/240 and ASHRAE 37 standards. Figure 5 displays the testing facility at Texas A&M that was used to conduct experiments. The psychometric room is composed of two separate rooms that allow for complete control of the environment when testing HVAC units. The rooms were built in order to simulate outdoor and indoor conditions by controlling both temperature and humidity. Additionally, the rooms were designed for testing systems with cooling capacities up to 10 tons.

Figure 5: Psychometric test chamber at REEL facility.

The environment within the two rooms is controlled by an array of heating, cooling, humidifying, and dehumidifying equipment, plus both rooms have air circulation systems that recirculate air back into the rooms by using blower fans. The arrangement of these two rooms was designed in order to comply with the testing of psychometric conditions by using the room airside enthalpy method in accordance with the ASHRAE 37 standard. A schematic of all the instrumentation and equipment for the room enthalpy testing method can be seen on Figure 6. The air temperatures within the rooms are controlled with heaters and a chill water system. A 75 ton screw chiller was used in order to reduce environmental temperatures within the room, while the temperatures were increased with the usage of three 40 kW electrical heaters. The chill water system distributes 1000 gallons of coolant with the usage of two centrifugal pumps that were controlled with via variable frequency drives (VFD). Humidity within the rooms was increased with the usage of steam from a boiler and decreased with the usage of a MiniPac 100 dehumidifier.

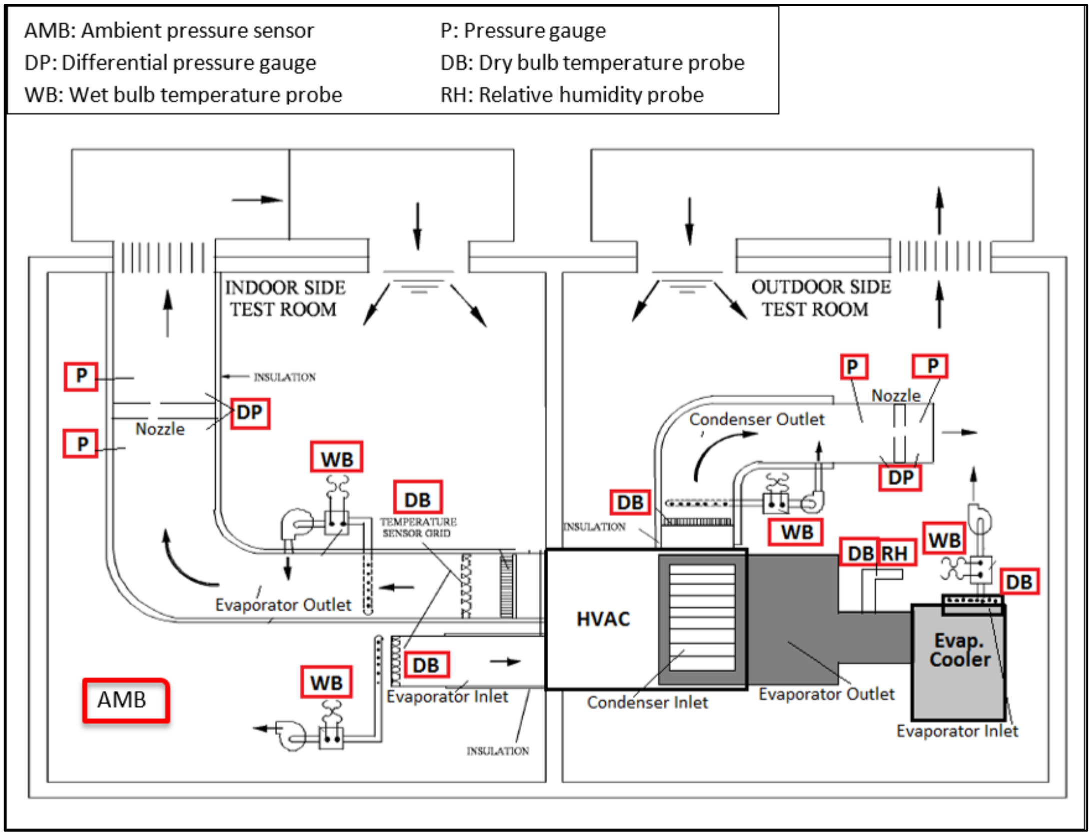

Figure 6: Psychometric facility layout and instrumentation location.

The HVAC's condenser and evaporator air mass flowrates were measured by using a nozzle airflow apparatus. The nozzle airflow measuring apparatus was built in accordance with the ASHRAE 37 standard. An example of the layout can be seen in Figure 7, and the nozzle configuration sizing capabilities are listed in Table 1.

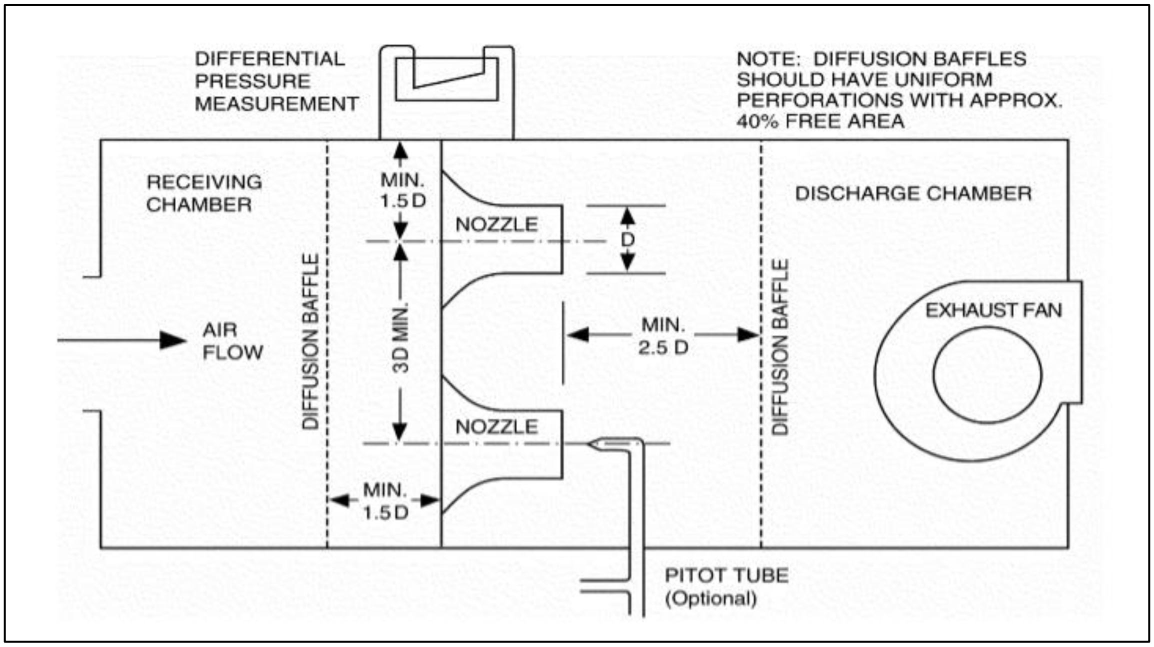

Figure 7: Nozzle airflow measuring apparatus [2].

Table 1: Airflow measuring apparatus nozzle configuration capabilities.

HVAC Component Side	**Nozzle Diameters (inches)**
Evaporator	Four Nozzles: 4,6,6,7
Condenser	Six Nozzles: 3,3,5,5,5,7

3.2 Evaporator Integration Modifications on the Testing Facility

The standard psychometric testing facility was modified by installing an evaporative cooler at the airside inlet of the HVACs' condenser. A casing unit was built around the condenser's inlet suction ports in order to better control and distribute the airflow from the evaporative cooler to the condenser. This distribution modification also optimizes the ability of the evaporative cooler to fully saturate the air entering the condenser. Figure 8 and Figure 9 display the differences in the testing facility's layout before and after the evaporative cooler modifications were made to the testing room and HVAC unit.

Figure 8: HVAC unit installed in the psychometric station before the integration of an evaporator cooler.

Figure 9: Evaporative cooler being integrated onto an HVAC system.

3.3 HVAC and Evaporative Cooler Equipment Used in the Test Setup

An off the shelf, commercially available 2 ton air-conditioning and heating unit charged with R-410A from Goodman was used as the main HVAC cooling unit for the experimental setup in this study. The Goodman HVAC unit contains both air conditioning and heat pump capabilities with a nominal capacity of 2 tons (24,000 Btu/hr). A list of the model number for the Goodman HVAC unit is shown on Table 2.

A Portacool Cyclone 130 direct evaporative cooler was selected to precool the condenser air during this investigation. The evaporative cooler was capable of operating at two speeds and had a maximum manufacture's air flowrate of 3000 cfm's per specification. The maximum manufacturer setting of 3000cfm's was not achievable during the testing due to flow restrictions that occurred when integrating the evaporative cooler to the HVAC's condenser. After the installation was completed onto the condenser, the new maximum air flowrate of the evaporative cooler was found to be 1038 cfm's at the free flow condition (zero static pressure). Table 3 and Figure 10 show the new performance capabilities of the Portacool Cyclone 130 evaporative cooler operating at high speed after modifications.

Table 2: Psychometric equipment summary.

HVAC	Goodman: GPH1424H41
Evaporative Cooler #1	Portacool Cyclone 130

Table 3: Airflow data for the Portacool Cyclone 130 evaporative cooler operating in high speed after modifications.

Fan Tested For:	Evaporator Cooler Flow: High Speed				
Fan Model Tested:	Portacool				
Test Point Number	**1**	**2**	**3**	**4**	**5**
Fan Static Pressure	0.001	0.099	0.452	0.762	1.122
Nozzle Differential Pressure	1.109	0.985	0.567	0.222	1.128
Nozzle Key (ID)	8	8	8	8	0
Nozzle Static Pressure	-0.002	0.096	0.450	0.764	1.132
Barometric Pressure (in Hg)	29.99	29.99	29.99	29.99	29.99
Fan Inlet Dry Bulb Temperature (F)	74.3	73.8	74.2	74.0	75.0
Fan Inlet Wet Bulb Temperature (F)	65.8	65.7	65.7	65.6	66.6
Chamber Dry Bulb Temperature (F)	73.7	73.5	73.3	73.3	75.6
Fan Motor Amperage	3.85	3.79	3.57	3.34	3.12
Fan Motor Voltage	120.0	120.0	120.0	120.0	120.0
Fan Motor Wattage	445.0	437.0	407.3	373.5	340.0
Fan Motor RPM	NA	NA	NA	NA	NA
Fan Motor #2 RPM	0	0	0	0	0
Air Density at Fan Inlet (lb/ft3)	0.07393	0.07400	0.07395	0.07397	0.07383
Air Density at Fan Outlet (lb/ft3)	0.07402	0.07407	0.07416	0.07421	0.07395
Air Density at Nozzle Inlet (lb/ft3)	0.07402	0.07407	0.07416	0.07421	0.07395
CFM at Nozzle Inlet	1038.5	978.0	740.5	461.7	0.0
CFM at Fan Outlet	1038.5	978.0	740.5	461.7	0.0
Fan Outlet Static Pressure	0.001	0.099	0.452	0.762	1.122
Fan Outlet Velocity Pressure	0.118	0.105	0.060	0.023	0.000
Fan Outlet Total Pressure	0.119	0.204	0.512	0.785	1.122
Values Corrected for Standard Air Density					
CFM at Nozzle Inlet	1038.5	978.0	740.5	461.7	0.0
Static Pressure	0.001	0.100	0.457	0.770	1.138
Velocity Pressure	0.120	0.106	0.061	0.024	0.000
Total Pressure of Fan	0.120	0.206	0.518	0.793	1.138
Motor Amperage	3.90	3.84	3.61	3.37	3.16
Motor Wattage	450.9	442.5	411.9	377.5	344.8
CFM per Watt	2.30	2.21	1.80	1.22	0.00
Note: All pressures are in inches of water unless otherwise stated.					

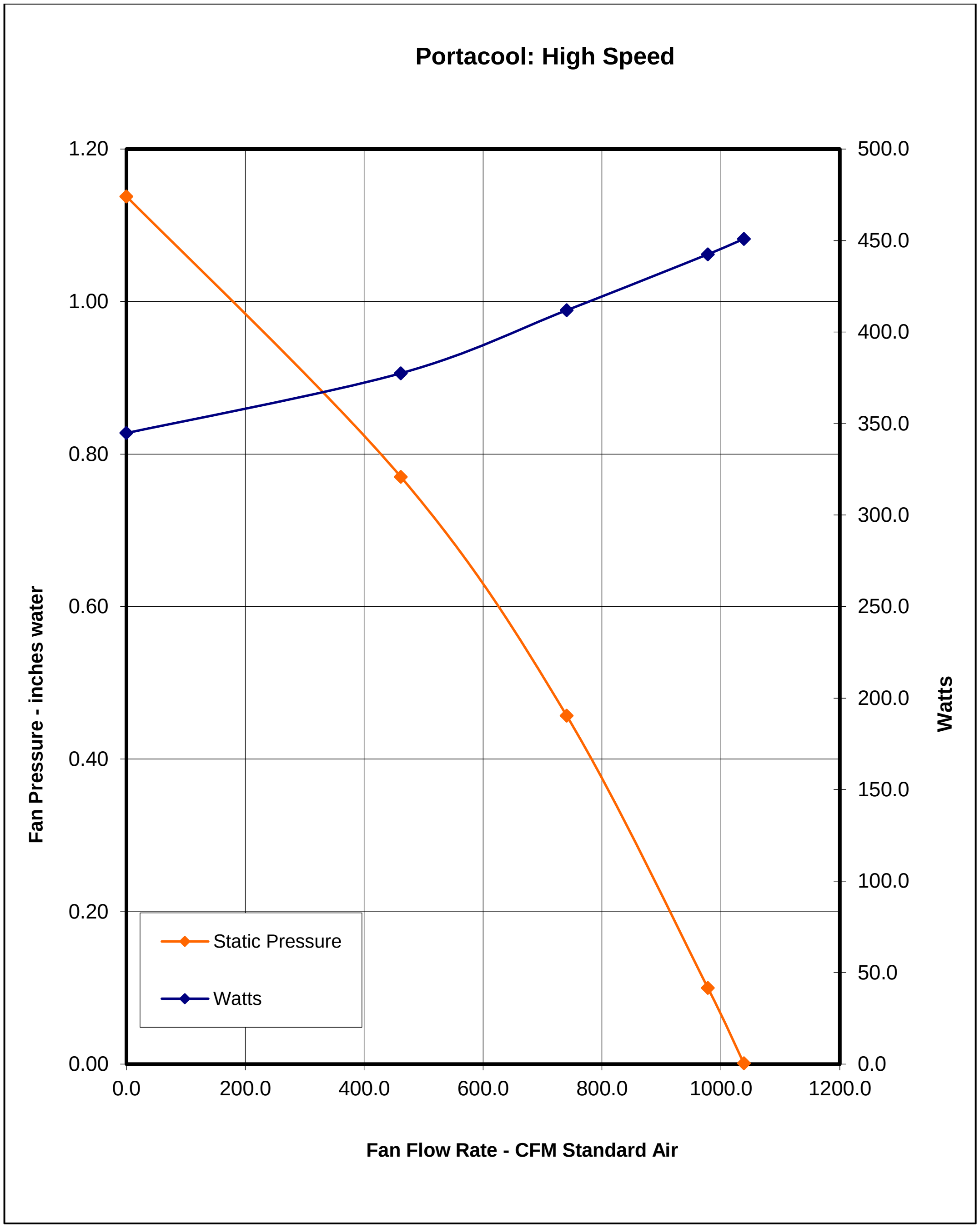

Figure 10: Flowrate to static pressure comparison for the Portacool Cyclone 130 evaporative cooler operating at high speed after modifications.

3.4 Instrumentation

A Visual Basic program in combination with a National Instrument (NI) Compact Data Acquisition (DAQ) system was used to acquire and record test data. The Visual Basic program was coded to average and record 100 input samples every 30 seconds for the duration of a test in accordance with ASHRAE 37. The DAQ system was composed of two separate chassis containing 8 modules each; a list of the NI instruments used are shown on Table 4. Chassis 1 was primarily used for receiving test data while Chassis 2 was used for outputting signals in order to control testing equipment i.e. blower VFD's, heaters, and chill water pumps.

Table 4: List of NI instruments used in the psychometric DAQ system.

Device	Module							
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**
Chassis 1	NI 9264	NI 9481	NI 9481	NI 9481	NI 9481	NI 9481	NI 9481	NI 9217
Chassis 2	NI 9205	NI 9211	NI 9211	NI 9211	NI 9217	NI 9211	NI 9217	NI 9205

The temperature readings for this experiment were measured using two different types of measuring devices, T-type thermocouples along with 3-wire RTD's. The two different type of sensors were needed in order to accommodate for the various needs of the experiment such as measuring wet bulb readings and being able to average temperatures over an area. Table 5 displays the specifications for the two different types of temperature sensors used.

Table 5: Temperature sensor specifications.

Sensor Type	Make/Model	Accuracy
Thermocouple Grid (X4)	Type T in Teflon Jacket	± 0.1 ºC
RTD (X4)	Omega	± 0.1 ºC

Wet bulb temperature measurements were taken by constructing sampling stations in accordance with ASHRAE 41.6. The wet bulb portion of the sampling station works on the premise of collecting air samples as air enters the various stages of the VCR cycle and then subjecting the air to an artificial air velocity. An inline fan was used to impart a velocity to the air in which then an RTD exposed to a wet wick was used to measure the wet bulb temperatures. An example of a sampling station can be seen on Figure 11. In total, four sampling stations located throughout the experimental setup were used to equate dry bulb and wet bulb temperatures into enthalpies for the room enthalpy testing method. The location of the four sampling stations can be seen on Figure 6.

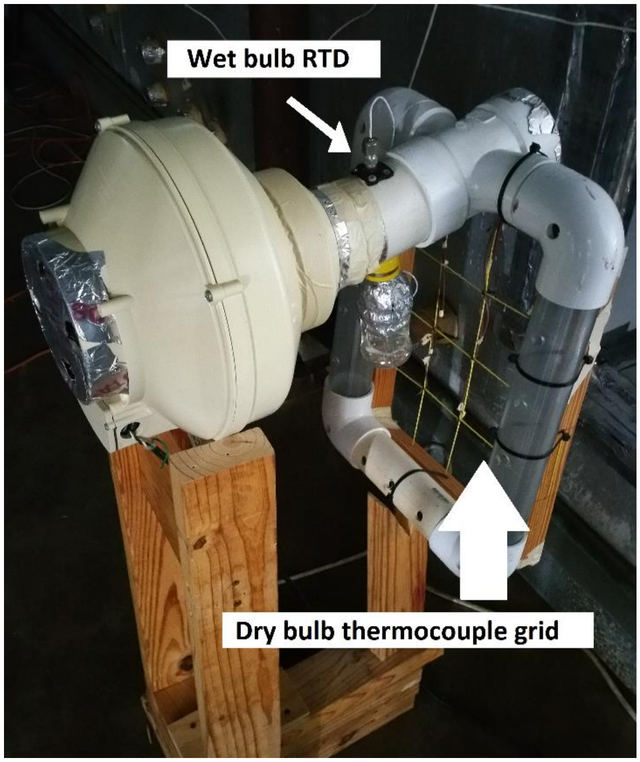

Figure 11: Dry bulb and wet bulb temperature sampling device [3]

Dry bulb temperature measurements were conducted by constructing grids in where an area of air could be sampled. Four 12-point T-wire thermocouple temperature grids were built for the 4 different stages of the VCR cycle. These thermocouple sampling grids allowed for an average temperature to be measured as air passed through the components. An example of a thermocouple grid can be seen on Figure 11.

The pressure readings for this experiment were measured using two different types of pressure sensors. Six Dwyer 616 sensors were used in order to measure static and differential pressure conditions, while a Setra 278 sensor was used in order to measure barometric pressure. The Dwyer sensors tapped into the nozzle air portions of the experimental setup which would then be used in order to translate static and differential pressures into air flow rates. A list of the pressure sensors used in this experiment are on Table 6.

Table 6: Pressure sensor specifications.

Sensor Type	Make/Model	Accuracy
Pressure (Barometric)	Setra 278	± 0.25% F.S.
Pressure (Differential)	Dwyer 616	± 0.25% F.S.

Power and voltage to the HVAC unit was measured using transmitters. The transmitters converted the measured readings and converted them into a current signal that was read by the DAQ. The instrument specifications are listed on Table 7. Power and voltage for the evaporative cooler was measured using a power quality analyzer (Fluke 435).

Table 7: Electrical measuring sensor specifications.

Sensor Type	Make/Model	Accuracy
Power	Ohio Semitronics Inc. AGW-002E	±0.2% of Rdg., ±0.04% F.S.
Voltage	Ohio Semitronics Inc. AVT 300E2	± 0.25% F.S.

An HMD70 humidity sensor was installed into the casing surrounding the condensers inlet ports. This sensor was capable of measuring the relative humidity and dry bulb temperature that was being discharged from the evaporative cooler. The specifications for the humidity sensor are listed on Table 8.

Table 8: Humidity sensor specifications.

Sensor Type	Make/Model	Accuracy
Humidity and Temperature	HMD70	±2% RH, ± 0.1 ºC

3.5 Test Procedure

The psychometric testing was conducted in accordance ASHRAE 210/240 and ASHRAE 37. The required data collected during the course of these experiments were performed under the instruction of Table 10. Testing conditions were set and stabilized for the indoor room and outdoor rooms. Once steady state conditions where set for both rooms, data was recorded for a 30-minute equilibrium period [2]. Additionally, the evaporator cooler remained in operation during the tests performed; the only difference between the dry membrane and wet membrane test were when the evaporator cooler's water pump was turned on. The two sets of test were identified as being either a dry membrane (DM) or wet membrane test (WM). Another specification that was established during the course of these experiments was that the volumetric flowrate ratio of the evaporator to condenser was to be maintained greater than 2. For all test performed, the indoor room conditions remained the same while the outdoor conditions were varied. Four outdoor testing conditions were set and labeled A through D during the course of this experiment. The A Test and B Test were the only standardized conditions established during these experiments as seen on Table 9. A high temperature and low relative humidity condition (110^{o}F dry bulb; 35%) was also established in order to simulate the best conditions for the performance of the evaporative cooler, Test C.

Table 9: Testing conditions for a standard indoor/outdoor room enthalpy psychometric test [4].

Test Description	Air Entering Indoor Unit Temperature				Air Entering Outdoor Unit Temperature				Cooling Air Volume Rate
	Dry-Bulb		Wet-Bulb		Dry-Bulb		Wet-Bulb		
	°F	°C	°F	°C	°F	°C	°F	°C	
A Test – required (steady, wet coil)	80.0	26.7	67.0	19.4	95.0	35.0	75.0 (1)	23.9 (1)	Cooling Full-load (2)
B Test – required (steady, wet coil)	80.0	26.7	67.0	19.4	82.0	27.8	65.0 (1)	18.3 (1)	Cooling Full-load (2)
C Test – optional (steady, dry coil)	80.0	26.7	(3)		82.0	27.8	—		Cooling Full-load (2)
D Test – optional (cyclic, dry coil)	80.0	26.7	(3)		82.0	27.8	—		(4)

Notes:

(1) The specified test condition only applies if the unit rejects condensate to the outdoor coil.
(2) Defined in section 6.1.3.3.1.
(3) The entering air must have a low enough moisture content so no condensate forms on the indoor coil. (It is recommended that an indoor wet-bulb temperature of 57.0 °F [13.9 °C] or less be used.)
(4) Maintain the airflow nozzles static pressure difference or velocity pressure during the ON period at the same pressure difference or velocity pressure as measured during the C Test.

Table 10: Required data when performing a psychometric test [2].

Item	Indoor Air Enthalpy Method	Outdoor Air Enthalpy Method
Date	X	X
Observer(s)	X	X
Barometric pressure, kPa [in. Hg]	X	X
Equipment nameplate data	X	X
Test interval times	X	X
Total power/energy input to equipment, W / Wh [W / Wh]		X
Power input, indoor side, W [W]		
Applied voltage(s), V [V]	X	X
Frequency, [Hz]	X	X
External resistance to airflow, Pa [in. H_2O]	X	X
fan speed(s), setting	X	X
Dry-bulb temperature of air entering equipment, indoor side, °C [°F]	X	X
Wet-bulb temperature of air entering equipment, indoor side, °C [°F]	X	X
Dry-bulb temperature of air leaving equipment, indoor side, °C [°F]	X	
Wet-bulb temperature of air leaving equipment, indoor side °C [°F]	X	
Dry-bulb temperature of air entering equipment, outdoor side, °C [°F]	X	X
Wet-bulb temperature of air entering equipment, outdoor side, °C [°F]	X	X
Dry-bulb temperature of air leaving equipment, outdoor side, °C [°F]		X
Wet-bulb temperature of air leaving equipment, outdoor side °C [°F]		X
Throat diameter of nozzle(s), mm [in.]	X	X
Velocity pressure at nozzle throat or static pressure difference across nozzle(s), Pa [in. H_2O]	X	X
Temperature at nozzle throat, °C [°F]	X	X
Pressure at nozzle throat, Pa [in. Hg]	X	X
Condensing pressure or temperature, kPa or °C [psig or °F]		
Evaporator pressure or temperature, kPa or °C [psig or °F]		
Temp. of refrigerant vapor entering compressor, °C [°F]		
Temp. of refrigerant vapor leaving compressor, °C [°F]		
Temperature of high side refrigerant vapor leaving reversing valve, °C [°F]		
Refrigerant or surface temperature used for leakage coefficient determination, °C [°F]		
Refrigerant-oil flow rate, kg/s [lbm/h]		
Refrigerant volume in refrigerant-oil mixture, m^3/m^3 [ft^3/ft^3]		
Outdoor coil water flow rate, kg/s [lbm/h]		
Temperature of outdoor water entering equipment, °C [°F]		
Temperature of outdoor water leaving equipment, °C [°F]		
Rate of condensate collection, kg/s [lbm/h]		
Refrigerant liquid temperature, indoor side, °C [°F]		Note[b]
Refrigerant liquid temperature, outdoor side, °C [°F]		Note[b]
Refrigerant vapor temperature, indoor side, °C [°F]		Note[b]
Refrigerant vapor temperature, outdoor side, °C [°F]		Note[b]
Refrigerant vapor pressure, indoor side, kPa [psig]		

a Required only during cooling capacity tests.
b Required only for line loss adjustment.

4. DATA ANALYSIS METHODOLOGY

4.1 Air Volumetric Flowrate

Air volumetric flowrates are calculated for both the indoor and outdoor rooms by using the differential pressure across the nozzle apparatuses. Additionally, the dry bulb and wet bulb temperatures are used in conjunction with a psychometric program in order to calculate the specific volume of the air-water vapor mixture [2].

$$\dot{V}_a = 1097 C_{ca} A_n \sqrt{P_V v_a} \qquad \text{Eq. (6)}$$

4.2 Outdoor Room Enthalpy Method

Heat is transferred from the refrigerant onto the air-vapor mixture in the condenser portion of the VCR cycle. During this process, a phase change does not occur in the air-vapor mixtures therefore, cooling capacities can be calculated by accounting for only the sensible heat. Additionally, the power input to the HVAC unit is subtracted from the cooling capacity calculation [2].

$$q_{cooling} = \frac{60\dot{V}_a (h_{4a} - h_{3a})}{v_a} - 3.41 W_{in} \qquad \text{Eq. (7)}$$

4.3 Indoor Room Enthalpy Method

Heat that is transferred from the air-vapor mixture to the refrigerant as the air-vapor flows through the VCR's evaporator. During this heat transfer process, phase change occurs in the air-vapor mixture as water vapor condenses so that the cooling capacities must take into account both latent and sensible heat changes. Therefore, the total cooling capacity for the evaporator side of the VCR cycle is the sum of the sensible and latent cooling [2].

$$q_{sensible} = \frac{60\dot{V}_a\left(c_{p_{a1}}T_{aeiD} - c_{p_{a2}}T_{aeoD}\right)}{v_a} \quad \text{Eq. (8)}$$

$$q_{latent} = (1061)(60)\frac{\dot{V}_a(W_{1a} - W_{2a})}{v_a} \quad \text{Eq. (9)}$$

4.4 Evaporative Cooler Performance

Evaporator cooler performance in terms of an efficiency was calculated for wet membrane testing conditions. The performance calculations use the outdoor wet bulb and dry bulb temperatures to determine how effective the evaporative cooler performs.

$$\epsilon_{Evap} = \frac{(T_{aceD} - T_{acoD})}{(T_{aceD} - T_{acoW})} \quad \text{Eq. (10)}$$

4.5 Data Presentation

The data that was collected over a 30-minute steady-state testing segment was averaged and presented in a summary table as seen on Table 11. This table presents the atmospheric conditions set for both the outdoor and indoor rooms in terms of dry bulb temperature, wet bulb temperature, and their resulting relative humidity. The table also provides two sets of nozzle airflows for the given condenser and evaporator unit, one being the measured standard airflow (SCFM) and the other when air density compensation was implemented (CFM). The table section labeled “Electrical Information” provides the voltage and wattage used by the HVAC unit and the evaporative cooler. The table section labeled “Evaporative Cooler” provides the dry bulb temperature and relative humidity entering and leaving the evaporative cooler. The table section labeled “Capacity Data” provides the coolant rates for the HVAC’s evaporator and condenser components. Additionally, this section provides the COP calculated from measured parameters for the given test performed.

Table 11: Summary report example- tabulations of testing conditions and results.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature								
WB Temperature								
	RH: %		RH: %		RH: %		RH: %	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)		
External SP (in. wg)		
Static B4 Nozzle (in. wg)		
Nozzle Diff. (in. wg)		
Nozzle Temp. (°F)		
STD Airflow (SCFM)		
Nozzle Airflow (CFM)		

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)		
External SP (in. wg)		
Static B4 Nozzle (in. wg)		
Nozzle Diff. (in. wg)		
Nozzle Temp. (°F)		
STD Airflow (SCFM)		
Nozzle Airflow (CFM)		

Electrical Information		
	HVAC	Evap Cooler
Power (W)		
Voltage (V)		

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)		
RH (%)		

Capacity Data	
Evap Air Sensible (Btu/hr)	Cond Air Total (Btu/hr)
Evap Air Latent (Btu/hr)	Sensible Heat Ratio
Evap Air Total (Btu/hr)	
COP	

5. RESULTS

5.1 HVAC Standalone: Dry Membrane Test

The results of the four conditions that were tested and evaluated while the evaporative cooler membrane remained dry are presented in Figure 12 through Figure 15. These plots display the various stages of air as it flows through the evaporator and condenser portions of the HVAC unit. For all of the dry membrane testing conditions, the evaporator cooler fan remained in operation thereby imparting its volumetric flow rate though the condenser which is important for performance comparisons to the wet membrane cases. The HVAC evaporator points, A to B, on these figures show the full saturation of air that was occurring near the evaporator outlet, and its subsequent drop in dry bulb temperature along the 100% relative humidity slope which represents latent heat. Additionally, all four of these plots show horizontal trend lines as heat was imparted from the refrigerant onto the air passing through the HVAC's condenser. The horizontal line from points C to D indicate that only sensible heat was added to the air.

The summary report of the test condition labeled C-DM can be seen in Table 12 while the airside data is presented in Figure 12. This test provided the highest dry bulb temperature (110^{o}F) and lowest relative humidity (35%) for the outdoor room testing conditions. Additionally, the table presents the indoor and outdoor rooms conditions that were established, and the subsequent coolant rates that were obtained for the given air volumetric flowrates and atmospheric pressure conditions.

Table 12: Summary report for test sample C-DM.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature	80.68	0.055	65.66	0.768	111.24	1.168	132.80	1.687
WB Temperature	72.19	0.112	63.10	0.494	85.39	0.163	89.73	0.353
	RH: 67%		RH: 87%		RH: 35%		RH: 19%	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.51	0.014
External SP (in. wg)	0.328	0.007
Static B4 Nozzle (in. wg)	0.320	0.007
Nozzle Diff. (in. wg)	0.098	0.002
Nozzle Temp. (°F)	68.20	0.292
STD Airflow (SCFM)	429	4
Nozzle Airflow (CFM)	438	4

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.51	0.014
External SP (in. wg)	0.062	0.124
Static B4 Nozzle (in. wg)	0.063	0.137
Nozzle Diff. (in. wg)	0.131	0.006
Nozzle Temp. (°F)	123.41	1.156
STD Airflow (SCFM)	898	21
Nozzle Airflow (CFM)	1016	25

Electrical Information: HVAC Unit		
	HVAC	Evap Cooler
Power (W)	2942	439
Voltage (V)	225	120

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)	NA	NA
RH (%)	NA	NA

Capacity Data			
Evap Air Sensible (Btu/hr)	7254	Cond Air Total (Btu/hr)	12922
Evap Air Latent (Btu/hr)	6738	Sensible Heat Ratio	0.523
Evap Air Total (Btu/hr)	13867		
COP	1.20		

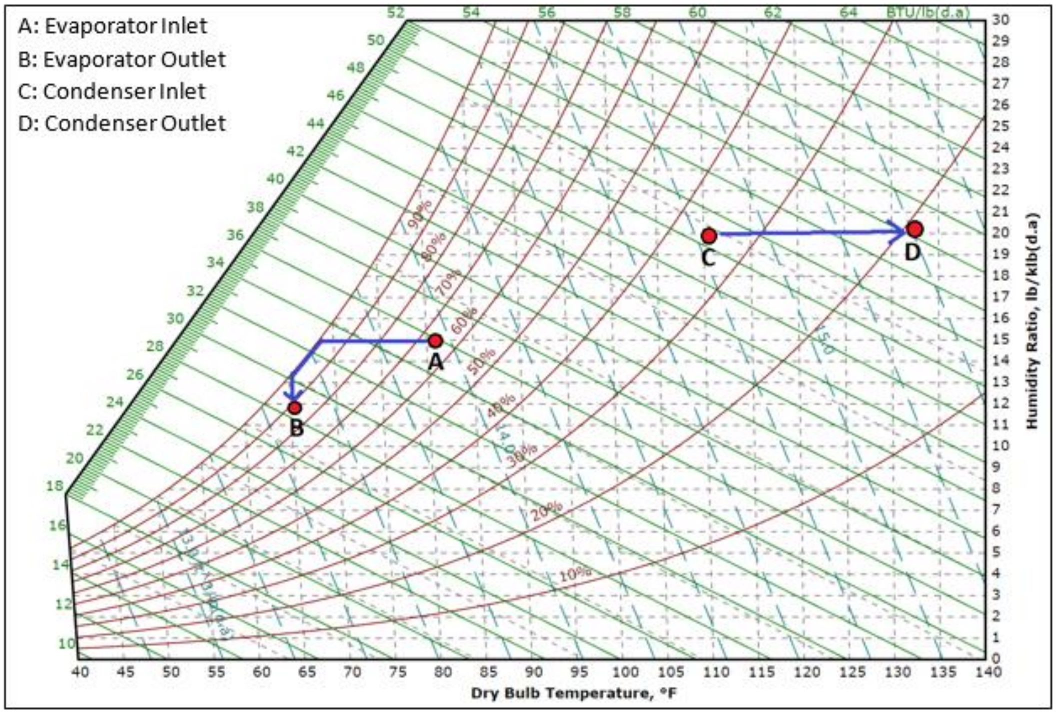

Figure 12: Test results for C-DM showing air-side psychometric changes in the HVAC units' evaporator and condenser.

The test sample labeled A-DM was performed at a dry bulb temperature (95°F) and relative humidity (39%). A summary of the test conditions set for the indoor and outdoor room and its subsequent cooling rate results are presented in Table 13. Additionally, the psychometric effects of air as it flows through the evaporator and condenser of the HVAC unit can be seen on Figure 13.

Table 13: Summary report for test sample A-DM.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature	79.90	0.029	58.90	0.191	95.42	0.081	117.73	0.087
WB Temperature	69.55	0.074	58.32	0.374	74.86	0.110	80.88	0.376
	RH: 59%		RH: 96%		RH: 39%		RH: 21%	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.61	0.009
External SP (in. wg)	0.458	0.006
Static B4 Nozzle (in. wg)	0.445	0.006
Nozzle Diff. (in. wg)	0.114	0.002
Nozzle Temp. (°F)	63.90	0.040
STD Airflow (SCFM)	466	3
Nozzle Airflow (CFM)	469	3

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.61	0.009
External SP (in. wg)	0.018	0.059
Static B4 Nozzle (in. wg)	0.026	0.057
Nozzle Diff. (in. wg)	0.148	0.005
Nozzle Temp. (°F)	108.58	0.290
STD Airflow (SCFM)	971	15
Nozzle Airflow (CFM)	1065	16

Electrical Information		
	HVAC	Evap Cooler
Power (W)	2478	429
Voltage (V)	223	120

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)	NA	NA
RH (%)	NA	NA

Capacity Data			
Evap Air Sensible (Btu/hr)	10876	Cond Air Total (Btu/hr)	16526
Evap Air Latent (Btu/hr)	5211	Sensible Heat Ratio	0.671
Evap Air Total (Btu/hr)	16197		
COP	1.63		

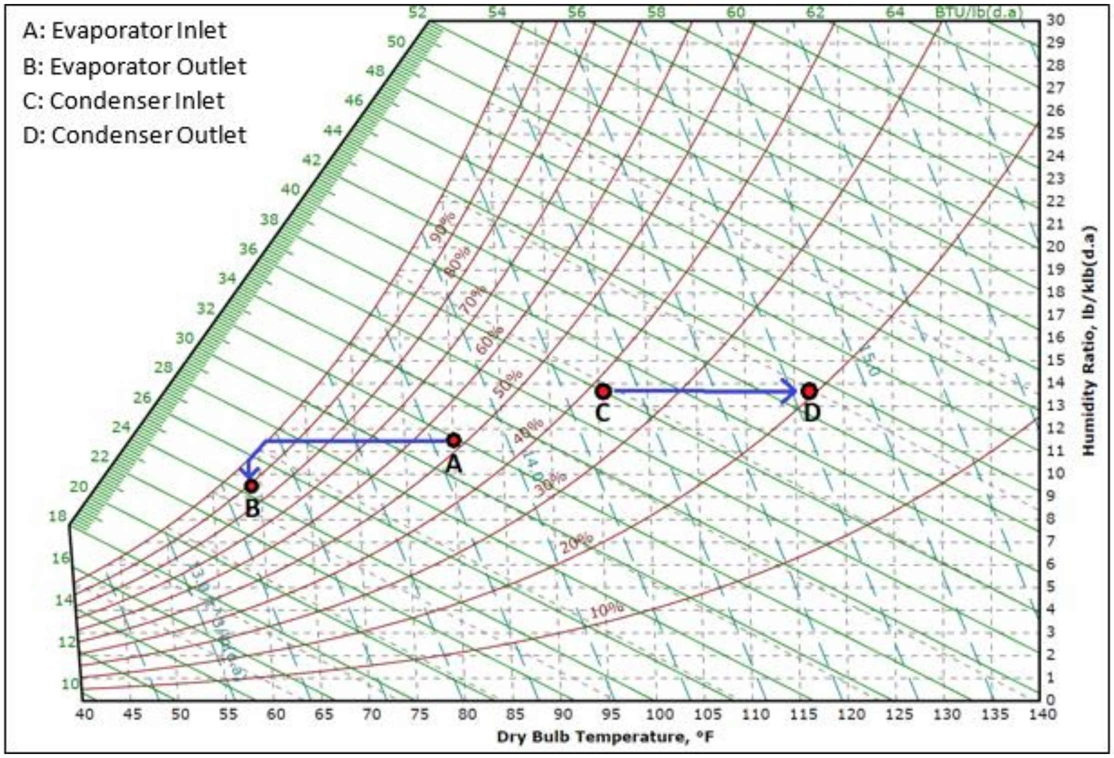

Figure 13: Test results for A-DM showing air-side psychometric changes in the HVAC units' evaporator and condenser.

The test sample labeled D-DM was performed at a dry bulb temperature (87°F) and relative humidity (41%). A summary of the test conditions set for the indoor and outdoor room and its subsequent cooling rate results are presented in Table 14. Additionally, the psychometric effects of air as it flows through the evaporator and condenser of the HVAC unit can be seen on Figure 14.

Table 14: Summary report for test sample D-DM.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature	80.66	0.224	56.12	0.213	86.83	0.705	108.78	0.802
WB Temperature	68.55	0.213	55.83	0.134	69.26	0.420	75.80	0.422
	RH: 54%		RH: 98%		RH: 41%		RH: 22%	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.78	0.012
External SP (in. wg)	0.470	0.007
Static B4 Nozzle (in. wg)	0.456	0.007
Nozzle Diff. (in. wg)	0.100	0.002
Nozzle Temp. (°F)	61.82	0.072
STD Airflow (SCFM)	439	5
Nozzle Airflow (CFM)	438	5

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.78	0.012
External SP (in. wg)	0.033	0.003
Static B4 Nozzle (in. wg)	0.036	0.004
Nozzle Diff. (in. wg)	0.128	0.003
Nozzle Temp. (°F)	99.38	0.493
STD Airflow (SCFM)	914	9
Nozzle Airflow (CFM)	978	10

Electrical Information: HVAC Unit		
	HVAC	Evap Cooler
Power (W)	2212	431
Voltage (V)	222	120

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)	NA	NA
RH (%)	NA	NA

Capacity Data			
Evap Air Sensible (Btu/hr)	11948	Cond Air Total (Btu/hr)	15865
Evap Air Latent (Btu/hr)	5882	Sensible Heat Ratio	0.667
Evap Air Total (Btu/hr)	17910		
COP	1.99		

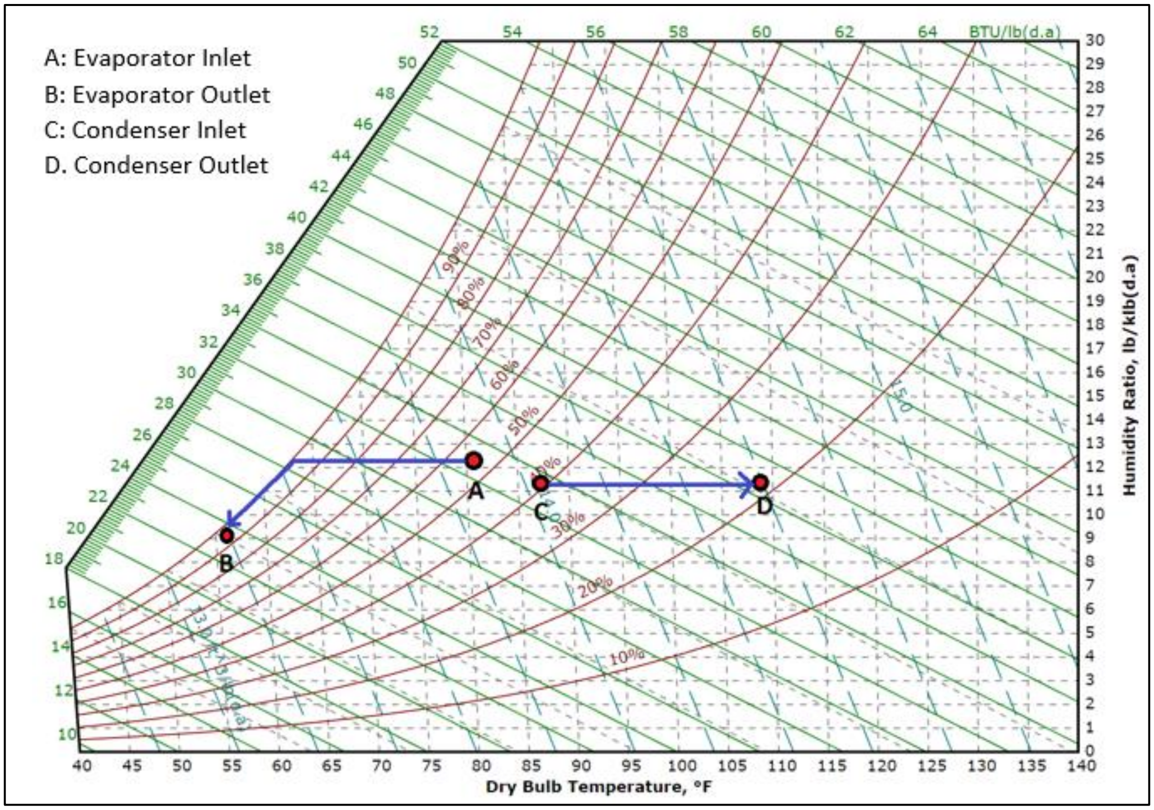

Figure 14: Test results for D-DM showing air-side psychometric changes in the HVAC units' evaporator and condenser.

The test sample labeled B-DM was performed at the lowest dry bulb temperature (82^{o}F) and highest relative humidity (43%). A summary of the test conditions set for the indoor and outdoor room along the subsequent cooling rate results are presented in Table 15. Additionally, the psychometric effects of air as it flows through the evaporator and condenser of the HVAC unit can be seen in Figure 15.

Table 15: Summary report for test sample B-DM.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature	79.61	0.051	56.20	0.078	81.73	0.209	105.91	0.205
WB Temperature	66.93	0.058	53.56	0.057	65.59	0.099	71.81	0.044
	RH: 52%		RH: 85%		RH: 43%		RH: 18%	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.61	0.015
External SP (in. wg)	0.488	0.005
Static B4 Nozzle (in. wg)	0.468	0.005
Nozzle Diff. (in. wg)	0.090	0.002
Nozzle Temp. (°F)	61.73	0.056
STD Airflow (SCFM)	414	4
Nozzle Airflow (CFM)	415	4

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.61	0.015
External SP (in. wg)	0.008	0.003
Static B4 Nozzle (in. wg)	0.018	0.005
Nozzle Diff. (in. wg)	0.154	0.003
Nozzle Temp. (°F)	96.59	0.168
STD Airflow (SCFM)	1003	10
Nozzle Airflow (CFM)	1072	10

Electrical Information: HVAC Unit		
	HVAC	Evap Cooler
Power (W)	2110	432
Voltage (V)	221	120

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)	NA	NA
RH (%)	NA	NA

Capacity Data			
Evap Air Sensible (Btu/hr)	10789	Cond Air Total (Btu/hr)	15277
Evap Air Latent (Btu/hr)	6309	Sensible Heat Ratio	0.629
Evap Air Total (Btu/hr)	17156		
COP	1.98		

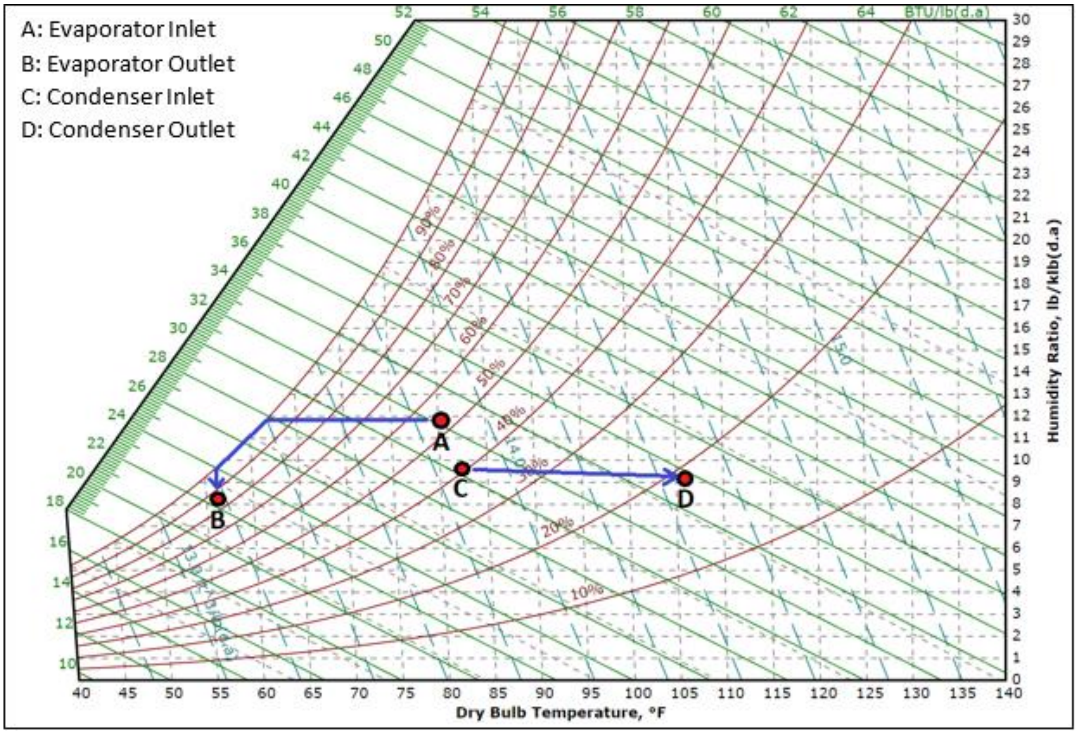

Figure 15: Test results for B-DM showing air-side psychometric changes in the HVAC units' evaporator and condenser.

5.2 Evaporative Cooler Integration: Wet Membrane Test

The testing of the conditions ending with the acronym WM (wet membrane) differed from the DM (dry membrane) due to the water pump of the evaporator cooler being on so as to supply water to the membrane element in contact with the condenser inlet air. Furthermore, the indoor and outdoor conditions remained the same for the wet membrane and dry membrane samples in the A Test, B Test, C Test, and D Test performed. The evaporative cooler fan remained on for all testing performed for both dry and wet membranes. The points labeled C to C^* on Figure 16 through Figure 19 display the constant enthalpy process that occurs when the evaporative cooler pump is turned on.

The moist air that flows through the evaporative cooler essentially follows a constant enthalpy process while also providing a cooling effect to its dry bulb temperature.

With regards to a specific test, the test labeled C-WM was performed under the same atmospheric conditions as the test labeled C-DM. As noted before, the water pump was turned on for the duration of these tests causing the membrane to become moisturized therefore saturating the air entering the evaporative cooler. A summary of the test conditions for C-WM in the indoor and outdoor rooms along with the cooling rate results are presented on Table 16. Additionally, Figure 16 displays the various stages of air as it flows though the evaporative cooler and the HVAC’s evaporator and condenser.

Table 16: Summary report for test sample C-WM.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature	80.44	0.139	62.48	0.387	109.48	1.378	123.41	1.116
WB Temperature	70.99	0.334	60.66	0.464	85.05	1.217	91.14	1.318
	RH: 63%		RH: 90%		RH: 37%		RH: 30%	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.55	0.009
External SP (in. wg)	0.356	0.007
Static B4 Nozzle (in. wg)	0.350	0.007
Nozzle Diff. (in. wg)	0.097	0.002
Nozzle Temp. (°F)	66.27	0.225
STD Airflow (SCFM)	427	4
Nozzle Airflow (CFM)	433	4

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.55	0.009
External SP (in. wg)	0.015	0.006
Static B4 Nozzle (in. wg)	0.014	0.006
Nozzle Diff. (in. wg)	0.131	0.003
Nozzle Temp. (°F)	118.38	0.972
STD Airflow (SCFM)	903	108
Nozzle Airflow (CFM)	1012	120

Electrical Information: HVAC Unit		
	HVAC	Evap Cooler
Power (W)	2615	463
Voltage (V)	227	120

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)	109.48	91.4
RH (%)	37.4	77

Capacity Data			
Evap Air Sensible (Btu/hr)	8623	Cond Air Total (Btu/hr)	23053
Evap Air Latent (Btu/hr)	6781	Sensible Heat Ratio	0.553
Evap Air Total (Btu/hr)	15580		
COP	1.48		

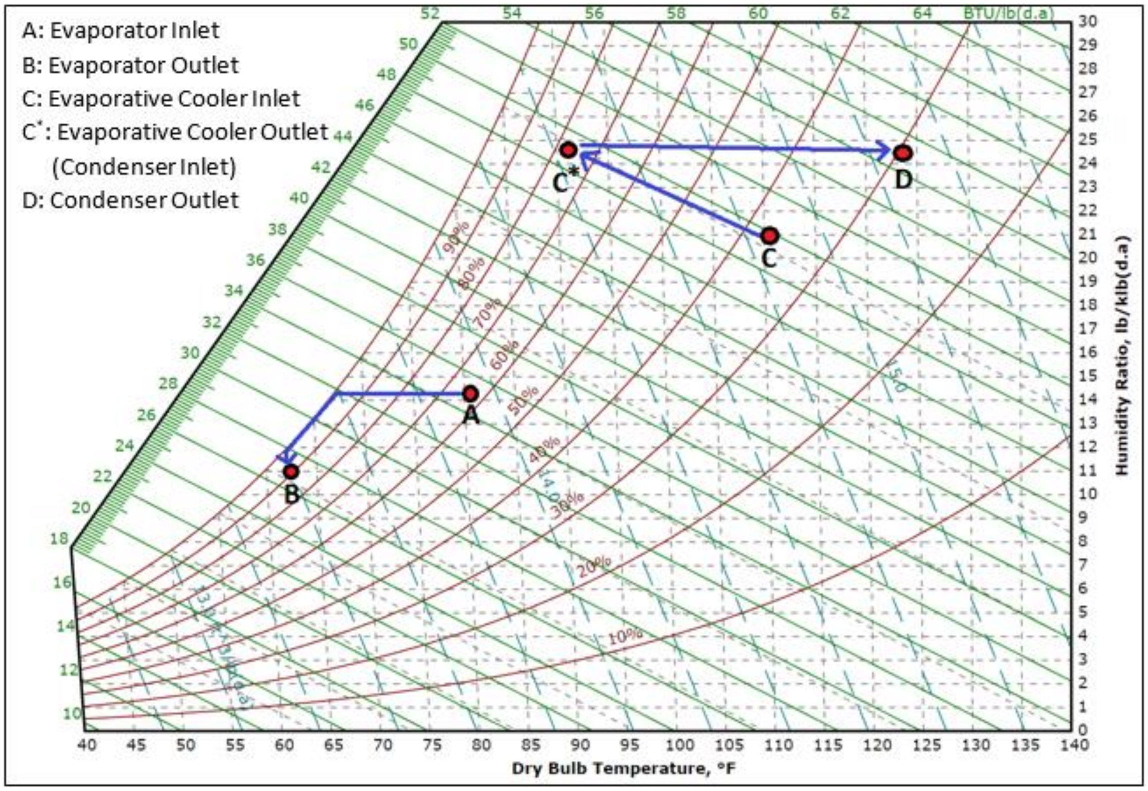

Figure 16: Test results for C-WM showing air-side psychometric changes in the evaporative cooler and HVAC units' evaporator and condenser.

The summary report for the A-WM sample is presented in Table 17. The table provides the atmospheric conditions and resulting coolant rates that were achievable when evaporative precooling was provided to the condenser inlet air. Additionally, the psychometric effects of air as it flows through the evaporative cooler and HVAC's evaporator and condenser can be seen on Figure 17.

Table 17: Summary report for test sample A-WM.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature	79.84	0.020	57.93	0.147	94.98	0.441	111.39	0.431
WB Temperature	69.30	0.087	57.34	0.143	76.64	0.348	84.04	0.413
	RH: 58%		RH: 97%		RH: 43%		RH: 32%	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.56	0.010
External SP (in. wg)	0.402	0.006
Static B4 Nozzle (in. wg)	0.394	0.006
Nozzle Diff. (in. wg)	0.089	0.001
Nozzle Temp. (°F)	62.97	0.089
STD Airflow (SCFM)	412	3
Nozzle Airflow (CFM)	415	3

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.56	0.010
External SP (in. wg)	0.009	0.003
Static B4 Nozzle (in. wg)	0.005	0.003
Nozzle Diff. (in. wg)	0.139	0.002
Nozzle Temp. (°F)	105.44	0.406
STD Airflow (SCFM)	943	9
Nozzle Airflow (CFM)	1030	9

Electrical Information: HVAC Unit		
	HVAC	Evap Cooler
Power (W)	2270	454
Voltage (V)	228	120

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)	94.98	84
RH (%)	48.4	75

Capacity Data			
Evap Air Sensible (Btu/hr)	10058	Cond Air Total (Btu/hr)	26151
Evap Air Latent (Btu/hr)	6154	Sensible Heat Ratio	0.616
Evap Air Total (Btu/hr)	16330		
COP	1.76		

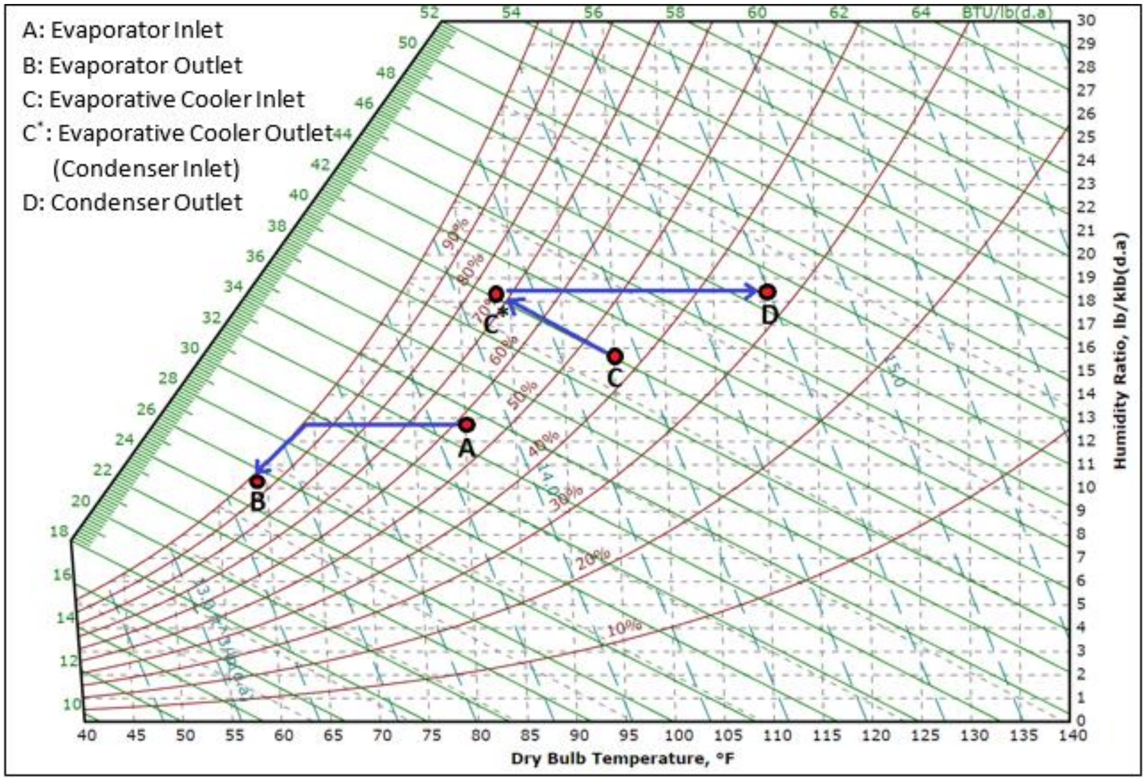

Figure 17: Test results for A-WM showing air-side psychometric changes in the evaporative cooler and HVAC units' evaporator and condenser.

The summary report for the D-WM sample is presented in Table 18. The table provides the atmospheric conditions and the resulting coolant rates that were achievable when evaporative precooling was provided to the condenser inlet air. Additionally, the psychometric effects of air as it flows through the evaporative cooler and HVAC's evaporator and condenser can be seen on Figure 18.

Table 18: Summary report for test sample D-WM.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature	80.02	0.163	55.84	0.118	87.36	0.403	104.28	0.408
WB Temperature	68.08	0.169	54.63	0.187	69.39	0.255	76.41	0.285
	RH: 54%		RH: 93%		RH: 40%		RH: 28%	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.81	0.010
External SP (in. wg)	0.472	0.008
Static B4 Nozzle (in. wg)	0.460	0.008
Nozzle Diff. (in. wg)	0.097	0.001
Nozzle Temp. (°F)	61.09	0.073
STD Airflow (SCFM)	433	3
Nozzle Airflow (CFM)	430	3

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.81	0.010
External SP (in. wg)	-0.033	0.006
Static B4 Nozzle (in. wg)	-0.038	0.006
Nozzle Diff. (in. wg)	0.132	0.005
Nozzle Temp. (°F)	97.27	0.418
STD Airflow (SCFM)	928	16
Nozzle Airflow (CFM)	987	18

Electrical Information: HVAC Unit		
	HVAC	Evap Cooler
Power (W)	2078	455
Voltage (V)	223	120

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)	87.36	77
RH (%)	48.4	70

Capacity Data			
Evap Air Sensible (Btu/hr)	11627	Cond Air Total (Btu/hr)	19034
Evap Air Latent (Btu/hr)	6647	Sensible Heat Ratio	0.633
Evap Air Total (Btu/hr)	18358		
COP	2.12		

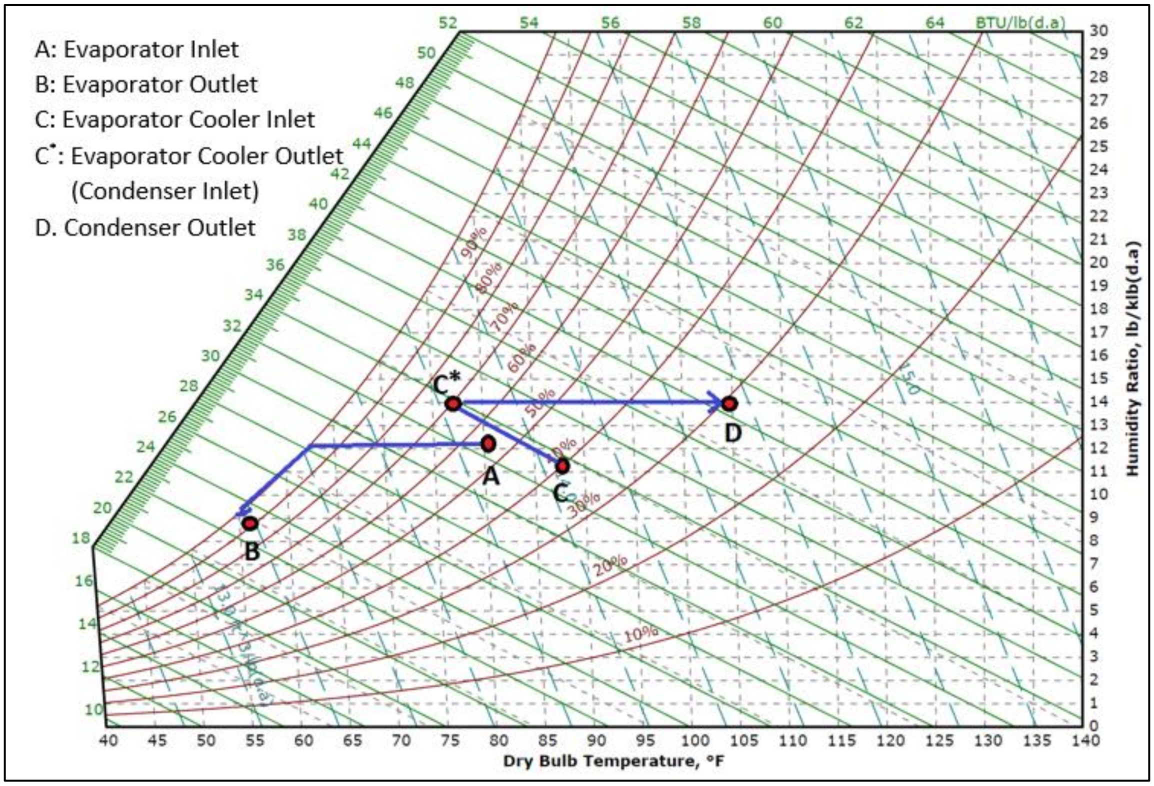

Figure 18: Test results for D-WM showing air-side psychometric changes in the evaporative cooler and HVAC units' evaporator and condenser.

Similar to the B-DM sample, the B-WM test provided the lowest dry bulb temperature for the outdoor room. The summary report for the B-WM sample is presented in Table 19. The table provides the atmospheric conditions and resulting coolant rates that were achievable when evaporative precooling was provided to the condenser inlet air. Additionally, the psychometric effects of air as it flowing through the evaporative cooler and HVAC's evaporator and condenser can be seen on Figure 19.

Table 19: Summary report for test sample B-WM.

	Indoor Entering		Indoor Leaving		Outdoor Entering		Outdoor Leaving	
	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)	AVG (°F)	STDEV (°F)
DB Temperature	80.00	0.046	56.04	0.047	82.25	0.157	102.27	0.107
WB Temperature	67.91	0.040	55.94	0.278	68.02	0.129	77.88	0.142
	RH: 54 %		RH: 99%		RH: 48%		RH: 34%	

Indoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.60	0.012
External SP (in. wg)	0.465	0.007
Static B4 Nozzle (in. wg)	0.453	0.007
Nozzle Diff. (in. wg)	0.113	0.002
Nozzle Temp. (°F)	61.49	0.052
STD Airflow (SCFM)	465	3
Nozzle Airflow (CFM)	466	3

Outdoor Condition		
Nozzle Diameter (inch) 7+4		
	AVG	STDEV
Barometric (in. Hg)	29.60	0.012
External SP (in. wg)	0.063	0.004
Static B4 Nozzle (in. wg)	0.064	0.006
Nozzle Diff. (in. wg)	0.126	0.003
Nozzle Temp. (°F)	96.10	0.086
STD Airflow (SCFM)	906	10
Nozzle Airflow (CFM)	969	11

Electrical Information: HVAC Unit		
	HVAC	Evap Cooler
Power (W)	2085	457
Voltage (V)	229	120

Evaporative Cooler		
	Entering	Exiting
DB Temperature (°F)	82.25	74.9
RH (%)	48.4	74

Capacity Data			
Evap Air Sensible (Btu/hr)	12351	Cond Air Total (Btu/hr)	29179
Evap Air Latent (Btu/hr)	5310	Sensible Heat Ratio	0.697
Evap Air Total (Btu/hr)	17721		
COP	2.04		

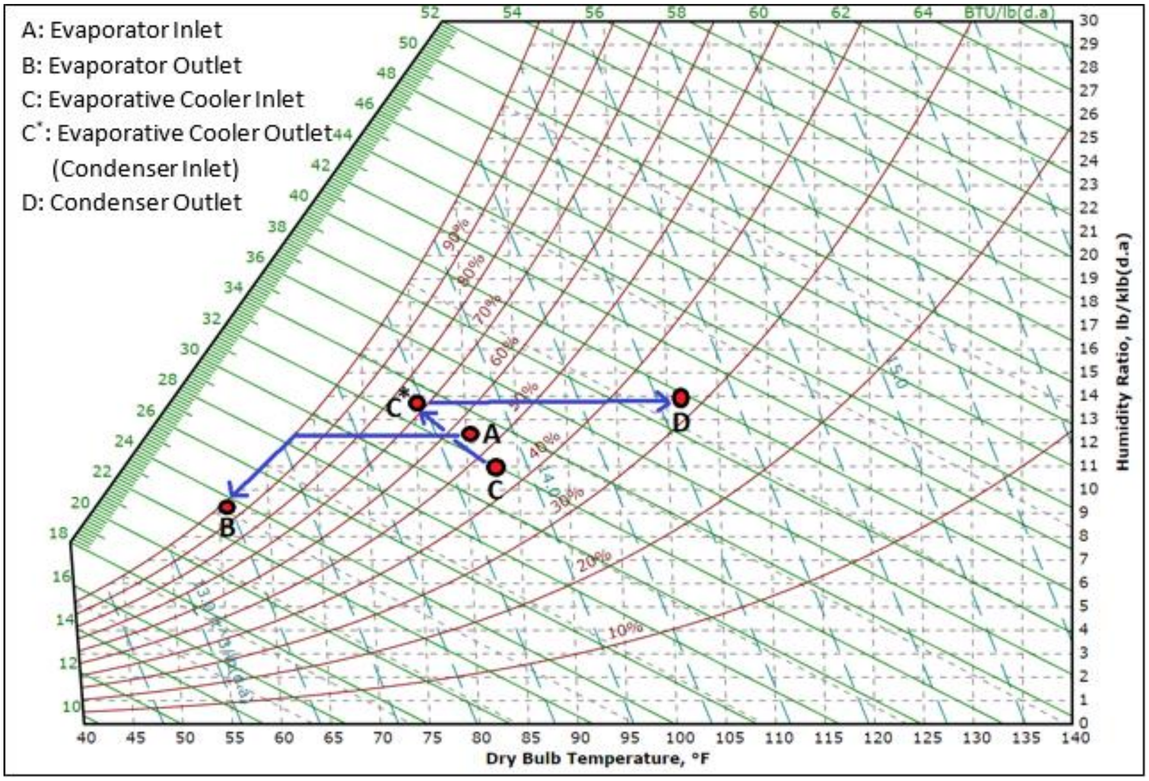

Figure 19: Test results for B-WM showing air-side psychometric changes in the evaporative cooler and HVAC units' evaporator and condenser.

5.3 Steady State Testing Condition Example

An example of the steady state conditions that were established for each test are shown in Figure 20 through Figure 23. These examples are for B-WM test conditions and they show the independent variables over the 30-minute segment in which data was collected. The indoor and outdoor temperatures were required to be maintained within a 2^{o}F temperature band during the data-collecting time period, but only varied by less than 1^{o}F from the established condition.

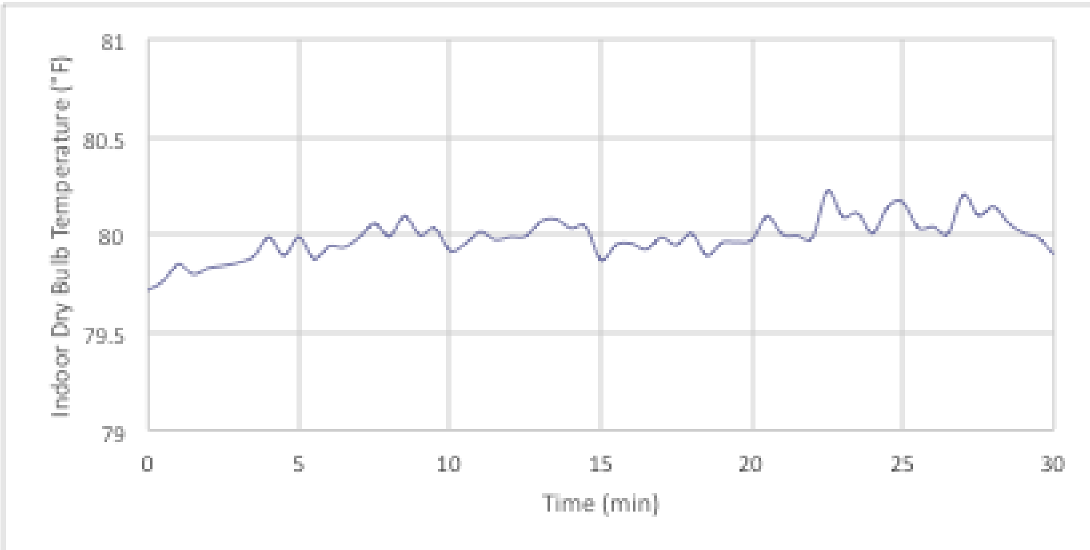

Figure 20: Indoor dry bulb temperature for the B-WM testing condition.

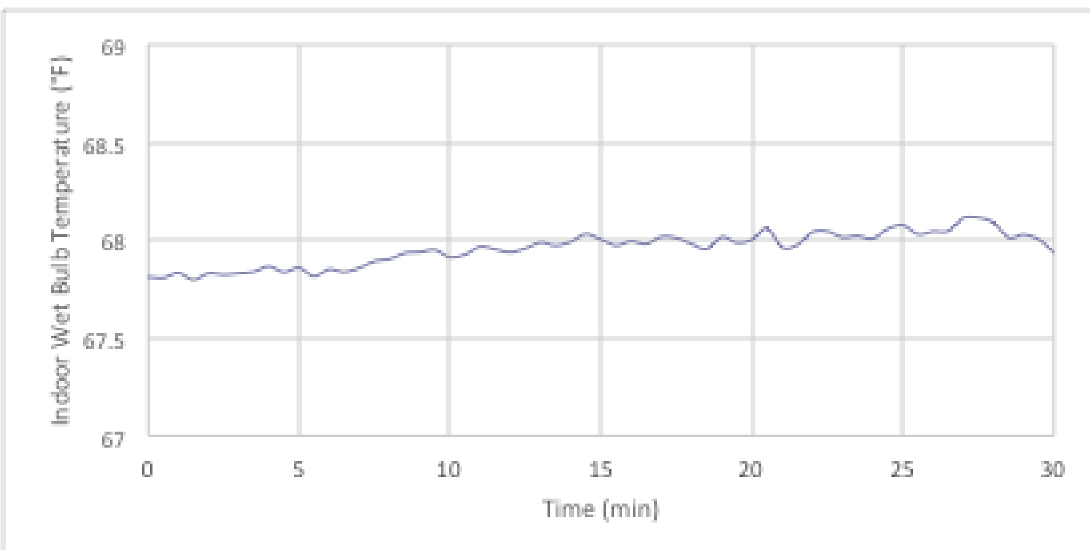

Figure 21: Indoor wet bulb temperature for the B-WM testing condition.

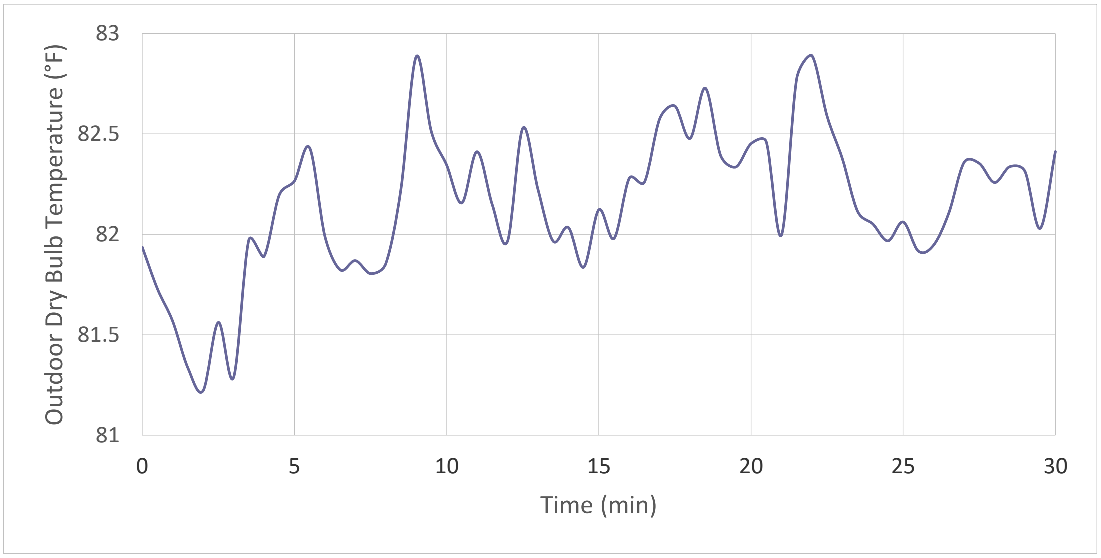

Figure 22: Outdoor dry bulb temperature for the B-WM testing condition.

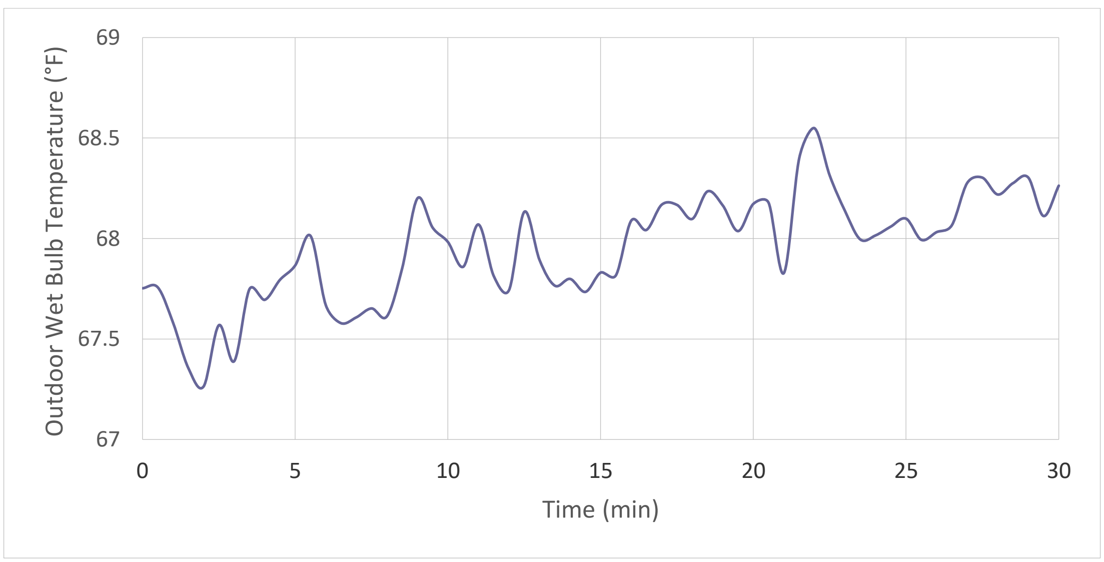

Figure 23: Outdoor wet bulb temperature for the B-WM testing condition.

5.4 Test Analysis

A summary of the coolant rates and power consumption for all of the test performed can be found in Table 20. Additionally, this table presents the COP's that were achieved for each given dry and wet membrane test, which in turns provides the base for evaluating and determining the effects of implementing the evaporative cooling to the condensers air-side inlet.

Table 20: Summary of the resulting coolant rates and power usage for the testing conditions.

	Dry Membrane				Wet Membrane			
	C	A	D	B	C	A	D	B
Evaporator Cooling Capacity (Btu/hr)	13867	16197	17910	17156	15580	16330	18358	17721
Condenser Cooling Capacity (Btu/hr)	12922	16526	15865	15277	23053	26151	19034	29179
HVAC Power (W)	2942	2478	2212	2110	2615	2270	2078	2085
Evaporative Cooler Power (W)	439	429	431	432	463	454	455	457
COP	1.20	1.63	1.99	1.98	1.48	1.76	2.12	2.04

The largest improvement in COP resulting from the use of evaporative precooling occurred at the highest dry bulb temperature and the lowest starting relative humidity, which coincided with Test C. Specifically, the trends in the table show that the higher the dry bulb temperature, then the more effective the evaporative cooler is for use with the HVAC unit. The evaporative cooler was able to saturate the condenser inlet air to approximately 70% for all four testing conditions; however, at the higher temperatures the evaporative cooler was able to affect the dry bulb temperature more significantly. At the condition C Test (110^{o}F), the dry bulb temperature was reduced by 18^{o}F. Table 21 and Figure 24 display the impact the evaporative cooler had on the condenser inlet air when the wet membrane condition was introduced. As C-WM had the highest dry bulb temperature and the lowest starting relative humidity, it provided a 23% increase in COP. Table 22 and Figure 25 provide the COP increase for the various testing conditions starting from the highest dry bulb temperature to the lowest.

Table 21: Impact of dry bulb temperatures when implementing the wet membrane condition.

Reduction of Dry Bulb Temperature (°F)			
C (110°F)	A (95°F)	D (87°F)	B (82°F)
18	11	10	7

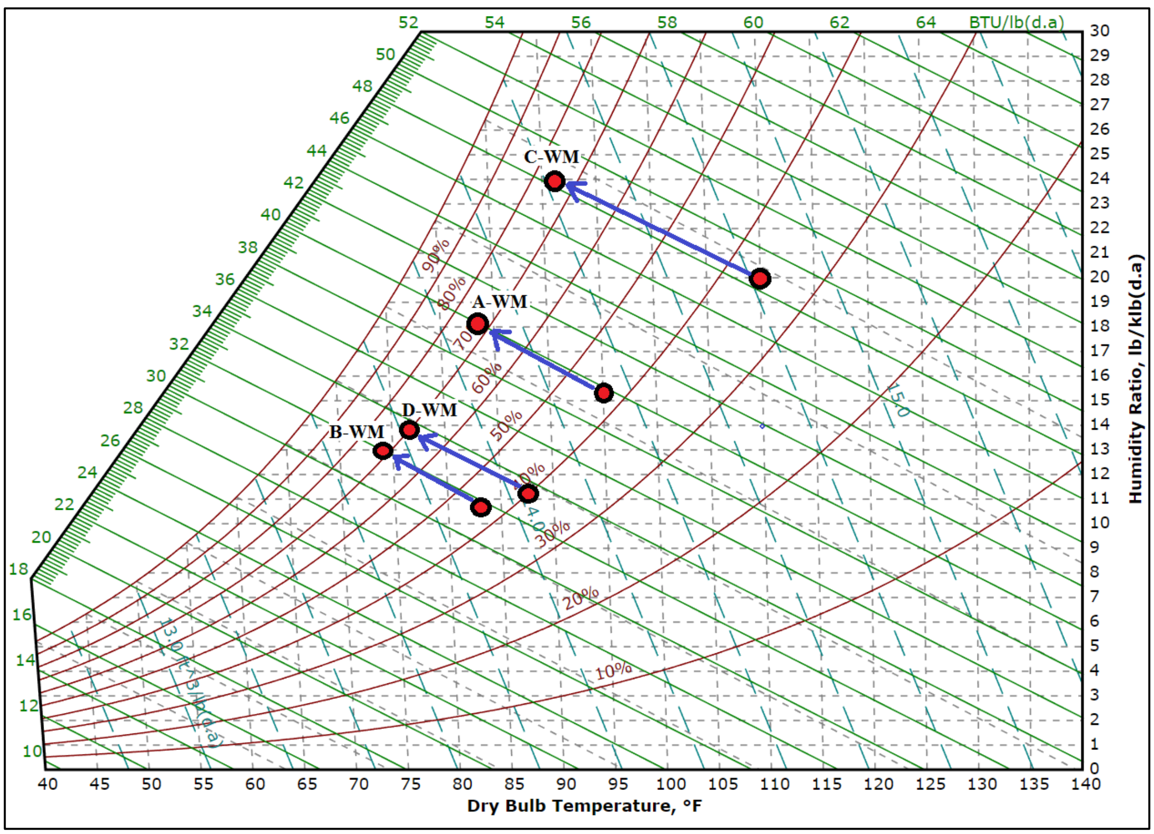

Figure 24: Evaporative cooler saturation effects on the outdoor air.

Table 22: Percent change in COP for the testing conditions.

Increase in COP (%)	
(C-WM) / (C-DM)	23.4
(A-WM) / (A-DM)	7.6
(D-WM) / (D-DM)	6.9
(B-WM) / (B-DM)	3.3

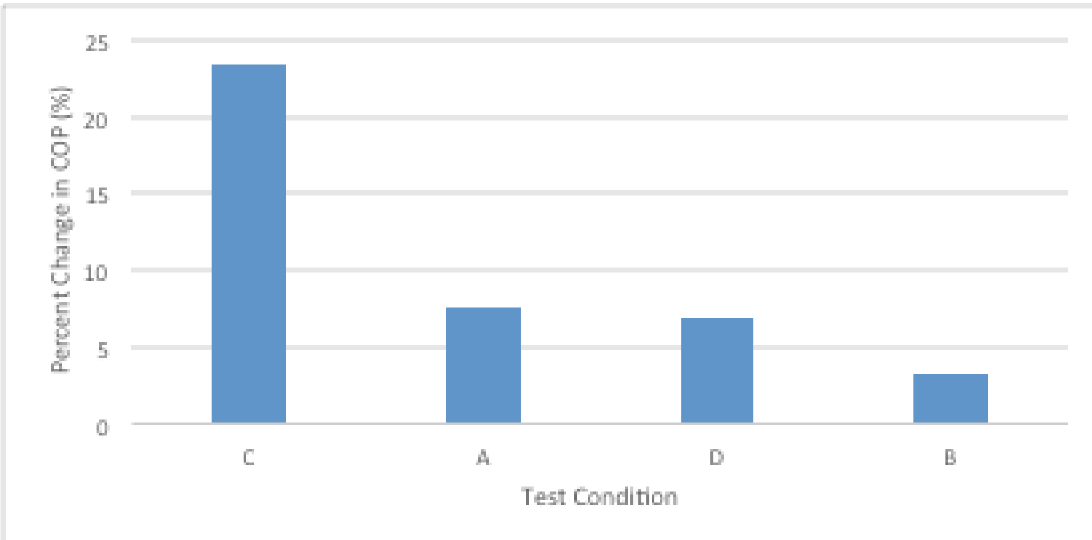

Figure 25: Improvement of COP when applying the wet membrane condition.

The performance of the evaporative cooler increased as the higher outdoor temperature conditions were established as shown in Table 23 and Figure 26. At the highest temperature setting, C Test, the evaporative cooler was able to achieve a 74% performance in saturating the outdoor air before subsequently entering the HVAC's condenser, while the increase was 52% at the lowest outdoor temperature, B Test.

Table 23: Performance of the evaporative cooler during the wet membrane test.

	C (110°F)	A (95°F)	D (87°F)	B (82°F)
Performance (%)	74	60	58	52

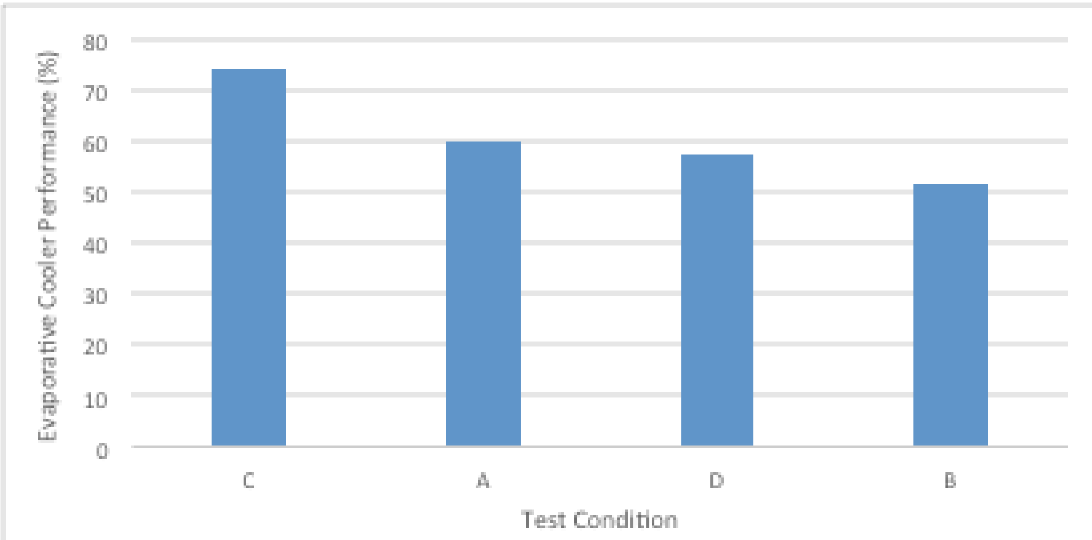

Figure 26: Performance of the evaporative cooler during the wet membrane test.

For all test conditions, the HVAC power consumption dropped with the addition of the wet membrane condition. The power consumption drop in conjunction with a higher evaporator coolant rate resulted in COP increase when comparing the wet membrane to those of the dry membrane condition. Even with the addition of approximately 25 watts from running the evaporative cooler’s water pump, a decrease in net power consumption could be achieved. A summary and comparison of the power consumption changes is presented in Table 24 and Figure 27.

Table 24: Power consumption savings when implementing a wet membrane.

	C (110°F)	A (95°F)	D (87°F)	B (82°F)
HVAC Power Change (W)	327	207	134	25
Evaporative Cooler Power Change (	-24	-25	-24	-25

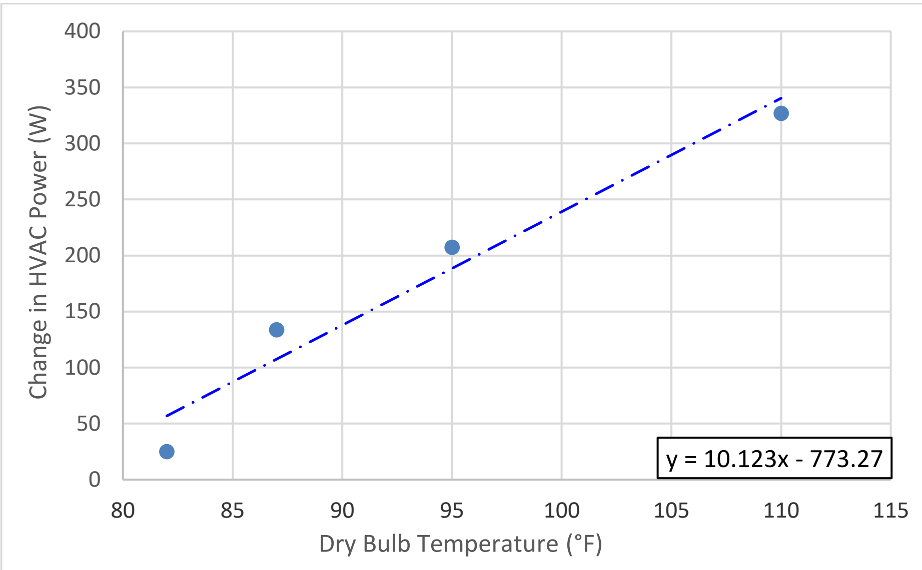

Figure 27: HVAC power savings based on utilizing the wet membrane condition for different dry bulb temperatures.

The higher the dry bulb temperature, then the higher savings that were achievable for the HVAC's compressor power. Specifically, Table 24 shows a compressor power reduction of 327 watts, which was achieved at the highest dry bulb temperature condition when the evaporative cooler was used.

Economically, this reduction in power consumption would provide savings for the HVAC unit by simply introducing an evaporative cooler. If an assumption of 0.2 \$/kW·hr was established for a summer, the 327 watt reduction would save \$188 for a 4 month duration. Table 25 displays the summer savings that were achieved by implementing evaporative precooling to the condenser inlet air during the hottest portion of the year.

Table 25: Achievable savings when implementing evaporative precooling.

	Summer Savings (\$) [4 months]			
	C (110°F)	A (95°F)	D (87°F)	B (82°F)
Assume 0.2 \$/kwh	188	119	77	14

6. EXPERIMENTAL CONCERNS ADDRESSED IN THE PROJECT

6.1 High Temperature Complications

During attempts to collect data at high temperatures and low relative humidity, frequent malfunctions would occur with the operating equipment. The evaporative cooler and HVAC unit both ceased to operate due to overheating. Specifically, operation of equipment at temperatures above 100^{o}F would hinder the equipment performance, therefore the time testing at these high temperatures had to be minimized in order to collect data.

6.2 Dehydrator Improvements

The permanently installed dehumidifier that was located in the outdoor room was not as effective as was needed during test when the evaporative cooler operated with a wet membrane. The evaporative cooler was adding more moisture into the air than was capable of being removed by the dehumidifier; therefore, two mobile dehumidifiers had to be used in order to control humidity.

6.3 Volumetric Flowrate Verification

During the restoration of the testing facility, volumetric flowrates throughout the evaporator and condenser portion of the HVAC unit had to be verified. It was observed that the volumetric air flowrates did not meet the capacities that were established by the Goodman manufacturer, which meant further flowrate checks and verifications were required. Specifically, the pressure gauges used to calculate the air flowrates were compared to those of a calibrated hand held pressure transducer. Pressures matched for the installed pressure gauges and the hand held therefore verifying the readings shown through the program were correct. Additionally, a calibrated hand held hot wire anemometer was used at both the condenser and evaporator side ducting to verify the amount of flow through the ducting.

6.4 Evaporator Cooler Distribution

The integration of the evaporative cooler to the condensers airside inlet ports presented a problem due to need to achieve an equal distribution of the moisture-saturated supply air. In order to correct this problem, a casing was constructed around the condenser inlet ports. Once the casing was constructed, three circular holes were made at the top of centerline potions of the casing. Three collapsible ducting hoses were attached to the discharge of the evaporative cooler and then routed to the casing which aligned with the three condenser inlet ports.

7. FUTURE WORK

7.1 Emissions

The refrigerants used in the VCR cycle were once thought to be miracle fluids due to the ability to reach some of the highest efficiencies while still being nonflammable and nontoxic. However, as time progressed these refrigerants that were composed of chlorofluorocarbons (CFC) and hydrochlorofluorocarbons (HCFC) came under scrutiny due to environmental and ozone depletion concerns. As the type of refrigerants being used switched to being more environmentally friendly, the efficiencies of the VCR cycle suffered.

An investigation needs to be performed on the net damage caused to the environment by switching to the newer ozone friendly refrigerants. Due to the lowered operational efficiencies for the same constant demand of cooling, more emissions will occur on the power generation side in order to power HVAC units. So even though the newer refrigerants are ozone safe, the emissions released could be more detrimental to the environment.

7.2 HVAC Volumetric Flow Rate Ratios

The tests in this study were conducted for condenser-to-evaporator flow rate ratios of approximately 2. Further testing needs to be conducted in order to find the optimal condenser-to-evaporator flow ratio in order to improve overall efficiency of the HVAC units, and then evaluate if the variance in effects when the evaporative cooler is integrated to the HVAC unit.

7.3 Optimum Evaporative Cooler Conditions

The optimum conditions for the operation of an evaporative cooler are when the atmospheric conditions are low in relative humidity and high in temperature. A more effective dehumidifier needs to be purchased and installed in the testing rooms in order to perform further experiments at these conditions or even lower humidity. Currently the dehumidifier installed does not have the capabilities to remove the humidity within the outdoor testing room while also removing the humidity added by the evaporative cooler. With the implementation of a more effective dehumidifier, further experiments can be conducted in order to estimate the best conditions for which the evaporator can improve the HVAC efficiencies.

7.4 Water Conservation Methods

The evaporative unit within the HVAC system removes moisture from the air while in operation. The recycling of this moisture into the evaporator cooler could be used in order to save on water resources while the unit is in operation. In some areas that are hot and dry, the cost and demand of water can be extremely high. Consequently, methods for recycling water while not adversely affecting the net power usage of the system need to be investigated.

8. CONCLUSIONS

The major finding of this investigation is that the HVAC unit performed better with the addition of evaporative cooling from the wet membrane condition at the airside inlet of the condenser. Specifically, the wet membrane increased the COP because the precooling of the condenser inlet air increased the cooling capacity of the evaporator while also simultaneously reducing the compressor's power consumption. The largest reduction in compressor power, 327 watts, occurred at the highest dry bulb temperature condition, C Test (110^{o}F). The higher the outdoor dry bulb temperature, then the higher the increase in COP. This increase in COP occurred primarily because of the increase in the ability to provide precooling to the condenser inlet air. Specifically, the evaporative cooler was able to saturate moist air to approximately 70% humidity for all of the tests, but was more effective at reducing the condenser inlet air at the higher dry bulb temperatures. An evaporative cooler performance efficiency of 74%, the highest of all the test, was achieved for the evaporative cooler at the C Test condition (110^{o}F). As previously identified, the more significant the precooling applied, the larger increase in COP.

To summarize, the addition of evaporative cooling resulted in an increase in the HVAC unit's COP that ranged from 23.4% at the highest temperature of 110^{o}F, to a low of 3.3% at the lowest temperature of 82^{o}F.

REFERENCES

[1] M. A. Boles and Y. A. Cengel, Thermodynamics: An Engineering Approach. Fifth Edition, New York: McGraw-Hill Higher Education, 2006.

[2] "ANSI/ASHRAE Standard 37-2009: Methods for Testingfor Rating Unitary Air-Conditioning and Heat Pump Equipment," American Society of Heating, Refrigerating and Air-Conditioning Engineers Inc., Atlantic, Atlanta, 2009.

[3] "ANSI/ASHRAE Standard 41.1-1986 (RA2006): Standard Method for Temperature Measurement, American Society of Heating, Refrigeration and Air-Conditioning Engineers Inc.," Atlantic, Atlanta, 2006.

[4] "ANSI/AHRI 210/240-2008: Unitary Air-Conditioning and Air-Source Heat Pump Equipment, Air-Conditioning, Heating, and Refrigeration Institute," Arlington, Virginia, 2008.

[5] V. E. Cline, "Phychrometric Testing Facility Restoration and Cooling Capacity Testing," Texas A&M University, 2010.

[6] P. Yin, "Duct Design Impacts on Energy Consumption and Life Cycle Costs for Residential Central Heating and Cooling Systems," Texas A&M University, 2015.

[7] "Evaluation of Advanced Evaporative Cooler Technologies," PG&E Technical and Ecological Services Performance Testing and Analysis Unit, 2004.

[8] G. B. Fernstrom, "Analysis of Standards Options for Evaporative Coolers," Davis Energy Group, 2004.

[9] R. Bourne, "Advanced Evaporative Cooling White Paper," California Energy Commission, 2004.

[10] J. Dean, "Multistaged Indirect Evaporative Cooler Evaluation," National Renewable Indirect Evaporative Cooler Evaluation, 2014.

[11] W. Saman, "Technical Backgroud Research on Evaporative Air Conditioners and Feasibility of Rating Their Water Consumption," Water Efficiency Labelling and Standards, 2009.

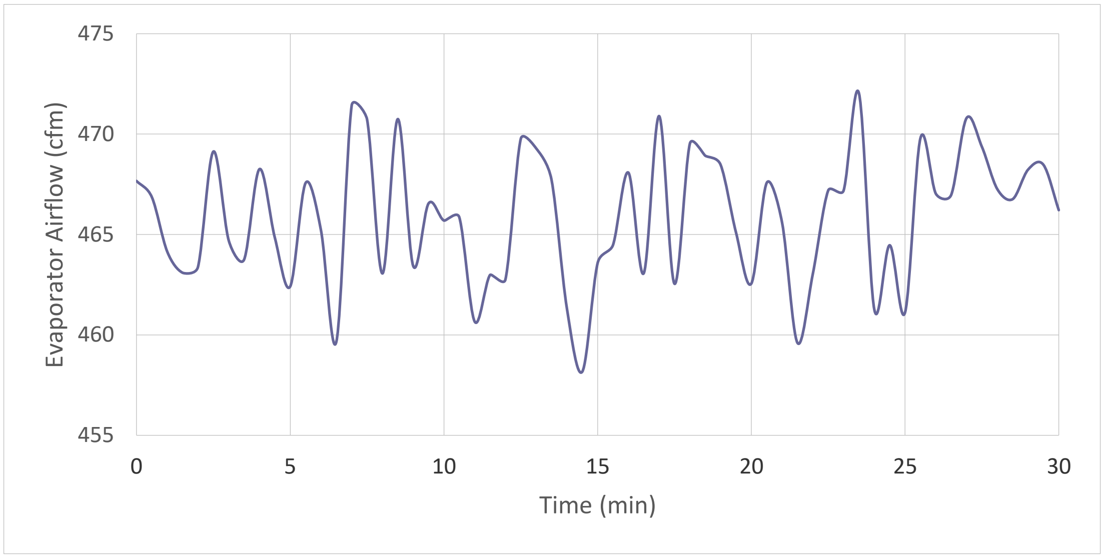

Figure 28: Evaporator airflow-dependent variable for the B-WM testing condition.

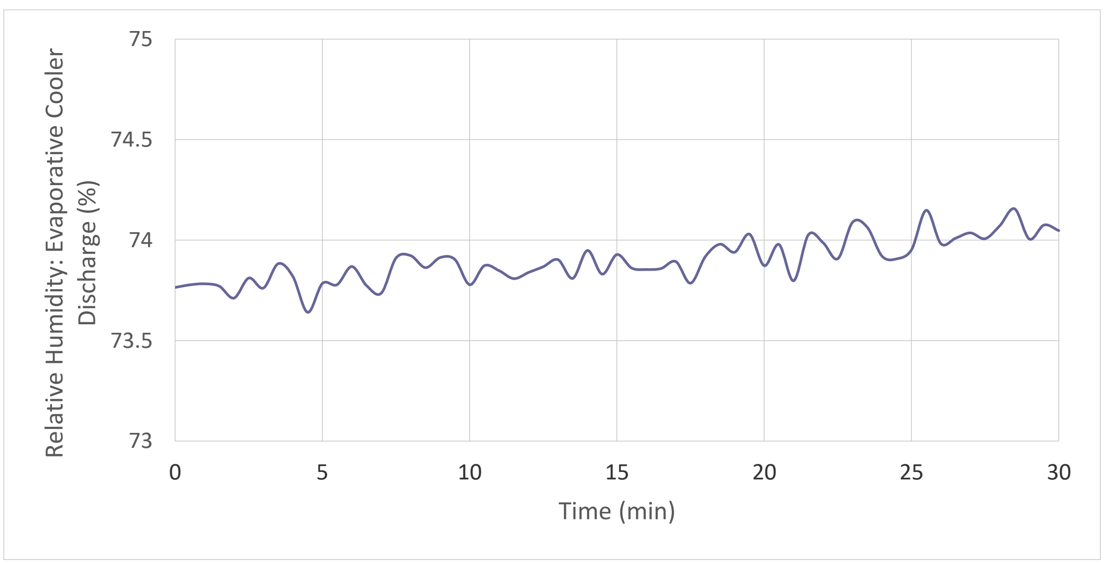

Figure 29: Relative humidity-dependent variable for the B-WM testing condition.

APPENDIX B

Table 26: Data from C-DM testing conditions.

Count	Chamber Discharge Pres	External Static Pressure	Evap Diff Pres	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Barometric Pres	Indoor Temp	Indoor Temp Ref	Evap Exit Drybulb	Cond Exit Drybulb	Evap Coil Temp	Outdoor Temp Ref	Evap Nozzle Temp	Supply Tank Temp	Indoor Wetbulb	Outdoor Temp	Cond Exit Wetbulb	Outdoor Wetbulb
	IWC	IWC	IWC	IWC	IWC	IWC	in. Hg	C	C	C	C	C	C	C	C	C	C	C	C
1	0.35	0.36	0.1	-0.01	0.04	0.19	29.502	26.84	26.49	18.06	53.46	38.5	42.57	19.43	2.02	21.95	41.28	31.67	29.21
2	0.33	0.33	0.08	-0.01	0.02	0.15	29.516	26.81	26.52	18.04	53.56	38.41	42.68	19.42	2.09	21.94	41.42	31.7	29.28
3	0.33	0.34	0.11	0.04	0.04	0.15	29.482	26.84	26.58	18.07	53.68	38.55	42.78	19.45	2.1	21.96	41.62	31.72	29.31
4	0.32	0.33	0.09	0.03	0.05	0.09	29.512	26.85	26.63	18.09	53.83	38.74	42.87	19.49	2.15	21.98	41.78	31.74	29.3
5	0.32	0.33	0.11	-0.02	0.03	0.23	29.502	26.88	26.64	18.12	53.97	38.67	42.99	19.47	2.17	21.98	41.9	31.77	29.36
6	0.32	0.34	0.1	0.04	0.02	0.19	29.501	26.9	26.7	18.1	54.05	38.64	43.09	19.51	2.17	21.99	42.11	31.83	29.47
7	0.3	0.31	0.09	-0.29	-0.26	0.05	29.506	26.95	26.7	18.19	53.9	38.9	43.2	19.53	2.22	22.02	42.26	31.62	29.51
8	0.32	0.32	0.1	-0.23	-0.27	0.11	29.512	26.98	26.68	18.18	54.41	39.01	43.3	19.55	2.26	22.02	42.04	31.41	29.32
9	0.34	0.34	0.11	-0.25	-0.29	0.1	29.518	27.11	26.72	18.33	54.73	38.16	43.35	19.6	2.31	22.11	41.86	31.37	29.2
10	0.32	0.33	0.1	-0.24	-0.27	0.14	29.513	27.04	26.72	18.38	54.88	39.05	43.43	19.59	2.31	22.1	42.06	31.39	29.35
11	0.32	0.33	0.11	-0.26	-0.27	0.05	29.512	27.02	26.74	18.38	55	38.94	43.49	19.63	2.35	22.12	42.05	31.4	29.26
12	0.33	0.35	0.1	-0.26	-0.26	0.12	29.516	27.11	26.74	18.41	55.21	39.15	43.63	19.65	2.37	22.14	42.09	31.41	29.34
13	0.31	0.32	0.09	-0.28	-0.25	0.12	29.518	27.05	26.74	18.47	55.28	39.11	43.74	19.65	2.42	22.17	42.21	31.44	29.5
14	0.32	0.33	0.1	-0.28	-0.25	0.18	29.509	27.12	26.74	18.48	55.41	38.04	43.85	19.7	2.45	22.24	42.44	31.48	29.57
15	0.33	0.34	0.09	-0.3	-0.31	0.19	29.509	27.18	26.76	18.54	55.55	38.79	43.94	19.72	2.51	22.26	42.29	31.51	29.52
16	0.32	0.32	0.1	-0.29	-0.27	0.06	29.512	27.16	26.78	18.57	55.65	39.43	44.01	19.77	2.49	22.31	42.58	31.53	29.63
17	0.33	0.34	0.11	-0.3	-0.26	0.17	29.507	27.19	26.76	18.55	55.76	38.62	44.1	19.81	2.38	22.33	42.67	31.57	29.71
18	0.32	0.34	0.1	0.03	0.02	0.18	29.513	27.13	26.7	18.6	56.08	39.3	44.19	19.82	2.24	22.35	42.6	31.59	29.57
19	0.32	0.33	0.08	-0.02	0.04	0.12	29.513	27.11	26.69	18.56	56.15	39.4	44.29	19.86	2.13	22.35	42.79	32.05	29.61
20	0.32	0.32	0.11	-0.01	0.04	0.1	29.521	27.11	26.6	18.53	55.84	39.32	44.42	19.87	2.14	22.37	43.04	32.23	29.76
21	0.31	0.32	0.1	0.03	0.03	0.12	29.516	27.07	26.53	18.48	55.79	39.6	44.51	19.93	2.08	22.39	43.17	32.3	29.75
22	0.33	0.35	0.09	0	0.03	0.13	29.512	27.03	26.46	18.47	55.79	40.16	44.63	19.92	1.93	22.38	43.52	32.34	29.91
23	0.33	0.35	0.1	0.01	0.03	0.21	29.527	27.05	26.42	18.49	55.84	40.14	44.7	19.96	1.86	22.39	43.62	32.36	29.89
24	0.32	0.32	0.1	-0.02	0	0.18	29.506	27.04	26.4	18.48	55.93	39.84	44.79	20	1.79	22.38	43.81	32.36	29.9
25	0.32	0.33	0.09	0	-0.04	0.11	29.557	27.02	26.41	18.51	56.03	39.42	44.9	20	1.79	22.37	44.05	32.36	29.95
26	0.33	0.33	0.1	0	0	0.1	29.509	27.08	26.44	18.53	56.14	39.87	44.99	19.98	1.74	22.39	43.94	32.36	29.81
27	0.32	0.33	0.1	0.01	-0.01	0.15	29.523	27.05	26.42	18.55	56.25	40.13	45.11	20.04	1.58	22.38	43.95	32.36	29.79
28	0.33	0.33	0.1	0.04	0.02	0.12	29.52	27.05	26.39	18.55	56.34	39.64	45.2	20.06	1.52	22.4	44.08	32.36	29.79
29	0.31	0.33	0.1	0.03	0.02	0.11	29.479	27.04	26.34	18.58	56.45	39.95	45.28	20.08	1.5	22.41	44.25	32.38	29.87
30	0.31	0.32	0.1	0.07	0.04	0.13	29.513	27.01	26.3	18.57	56.53	39.91	45.42	20.1	1.49	22.41	44.33	32.39	29.86
31	0.32	0.34	0.1	-0.01	0.01	0.16	29.518	27	26.22	18.55	56.62	40.54	45.48	20.12	1.47	22.4	44.35	32.4	29.84
32	0.32	0.33	0.09	-0.02	0.02	0.07	29.515	27	26.21	18.6	56.74	40.53	45.34	20.13	1.38	22.39	44.5	32.41	29.9
33	0.32	0.32	0.09	-0.01	-0.02	0.18	29.498	26.98	26.22	18.58	56.73	40.36	44.54	20.16	1.38	22.39	44.52	32.4	29.8
34	0.32	0.31	0.11	0.02	0.01	0.13	29.52	26.98	26.25	18.57	56.66	39.72	43.17	20.18	1.43	22.37	44.51	32.37	29.74
35	0.3	0.32	0.1	0.04	0	0.1	29.521	27	26.25	18.58	56.45	38.89	43	20.19	1.32	22.39	44.47	32.32	29.75
36	0.31	0.33	0.1	0.07	0.03	0.11	29.51	27	26.24	18.56	56.17	38.73	43.31	20.2	1.38	22.39	44.32	32.28	29.66
37	0.33	0.33	0.1	0.03	0.02	0.15	29.521	27	26.25	18.52	56.06	39.45	43.63	20.23	1.21	22.39	44.41	32.25	29.66
38	0.34	0.35	0.11	0.03	0.02	0.11	29.509	26.97	26.26	18.56	55.98	39.96	43.84	20.22	1.11	22.41	44.25	32.23	29.57
39	0.32	0.34	0.1	0.06	0	0.12	29.509	27.04	26.28	18.54	55.96	39.5	44.06	20.26	1.07	22.42	44.32	32.21	29.59
40	0.31	0.32	0.09	0.02	0.02	0.15	29.52	26.99	26.27	18.55	56.06	40.37	44.28	20.25	0.99	22.41	44.53	32.2	29.68
41	0.32	0.33	0.1	0.02	0	0.16	29.513	27.06	26.29	18.59	56.07	40.29	44.47	20.28	0.89	22.41	44.47	32.18	29.58
42	0.32	0.32	0.1	0	-0.02	0.07	29.515	26.99	26.29	18.57	56.26	40.12	44.82	20.33	0.78	22.41	44.58	32.16	29.6
43	0.32	0.34	0.1	0	-0.01	0.19	29.468	27.02	26.28	18.58	56.39	40.05	44.99	20.31	0.65	22.41	44.75	32.15	29.62
44	0.33	0.34	0.09	-0.01	-0.02	0.11	29.526	26.99	26.24	18.61	56.48	39.32	45.13	20.33	0.61	22.41	44.84	32.14	29.66
45	0.31	0.32	0.08	0.01	-0.01	0.09	29.504	26.98	26.2	18.62	56.58	40.02	45.29	20.35	0.52	22.4	44.93	32.16	29.63
46	0.31	0.31	0.09	0.01	-0.01	0.08	29.518	27.02	26.18	18.62	56.69	39.95	45.39	20.34	0.49	22.41	44.98	32.18	29.62
47	0.3	0.32	0.1	0.01	0.02	0.18	29.515	27.02	26.19	18.59	56.82	40.66	45.52	20.34	0.46	22.4	44.88	32.19	29.63
48	0.3	0.32	0.1	0.02	-0.01	0.15	29.509	27	26.19	18.59	56.91	40.4	45.63	20.34	0.37	22.41	45.03	32.2	29.64
49	0.32	0.34	0.09	-0.01	-0.01	0.17	29.512	26.99	26.2	18.59	57	40.19	45.75	20.36	0.3	22.4	44.85	32.21	29.52
50	0.32	0.34	0.09	0.01	0.01	0.14	29.515	27	26.21	18.63	57.15	40.85	45.85	20.37	0.31	22.41	45.03	32.21	29.62
51	0.33	0.34	0.09	-0.01	-0.02	0.18	29.507	26.99	26.23	18.66	57.22	40.85	45.98	20.38	0.27	22.4	45.2	32.21	29.68
52	0.33	0.33	0.11	-0.02	-0.03	0.06	29.538	26.97	26.27	18.63	57.34	40.88	46.12	20.42	0.3	22.4	45.1	32.21	29.58
53	0.32	0.34	0.1	-0.02	0.01	0.08	29.513	26.97	26.28	18.68	57.45	40.85	46.16	20.4	0.38	22.42	45.19	32.23	29.62
54	0.31	0.32	0.1	-0.04	0	0.09	29.506	27.06	26.31	18.7	57.52	40.44	45.76	20.44	0.29	22.44	45.33	32.25	29.66
55	0.34	0.33	0.1	-0.01	0.04	0.13	29.537	27.08	26.34	18.74	57.55	40.65	45.8	20.45	0.17	22.46	45.5	32.26	29.76
56	0.3	0.3	0.09	-0.04	-0.01	0.09	29.524	27.06	26.34	18.71	57.58	40.83	45.92	20.47	0.14	22.45	45.5	32.27	29.75
57	0.31	0.32	0.1	-0.03	0.01	0.15	29.506	27.06	26.35	18.74	57.63	40.79	46.04	20.48	0.13	22.44	45.59	32.27	29.75
58	0.32	0.33	0.1	-0.06	0	0.13	29.552	27.05	26.38	18.8	57.67	40.97	46.15	20.5	0.04	22.47	45.69	32.27	29.78
59	0.31	0.33	0.1	-0.18	-0.18	0.1	29.475	27.05	26.35	18.79	57.73	40.8	46.33	20.5	0.03	22.46	45.81	32.26	29.76
60	0.32	0.33	0.09	-0.3	-0.44	0.11	29.515	27.08	26.37	21.88	51.52	40.52	46.44	20.51	-0.09	22.47	45.77	31.83	29.72
61	0.31	0.32	0.1	-0.3	-0.48	0.12	29.527	27.14	26.5	23.24	46.23	39.69	46.47	20.58	-0.08	22.53	45.48	31.34	29.65

Count	Cond Nozzle Temp	Evap Exit Wetbulb	Evap Fan Out StatPres	Evap Noz Diff Pres	Evap Noz Stat Pres	EvapBarPres	EvapDryInletTemp	EvapWetInletTemp	EvapNozzleTemp	EvapRhoInlet	EvapRho Outlet	EvapRho Nozzle	EvapCFM Nozzle	EvapCFM Outlet	EvapSCFMNozzle	CondFan OutStatPres	CondNoz DiffPres	CondNoz StatPres	CondBar Pres	Cond Dry Inlet Temp
	C	C	in/H2O	in/H2O	in/H2O	in/Hg	C	C	C	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	in/Hg	C
1	48.02	16.77	0.33	0.098	0.33	29.51	80.3	71.5	67	0.07181	0.07403	0.07366	436.8	434.6	436.8	0.025	0.134	0.029	29.51	106.3
2	48.08	16.79	0.316	0.096	0.316	29.5	80.3	71.5	67	0.07181	0.07403	0.07366	432	429.8	432	0.016	0.143	0.02	29.5	106.5
3	48.16	16.67	0.329	0.097	0.329	29.51	80.3	71.5	67	0.0718	0.07402	0.07366	433.8	431.6	433.8	0.019	0.135	0.024	29.51	106.9
4	48.26	16.82	0.327	0.097	0.327	29.51	80.3	71.6	67.1	0.0718	0.07402	0.07365	435.1	432.9	435.1	0.016	0.139	0.021	29.51	107.2
5	48.37	17.01	0.323	0.099	0.323	29.51	80.4	71.6	67	0.07179	0.07401	0.07366	439.1	436.9	439.1	0.019	0.137	0.025	29.51	107.4
6	48.49	16.68	0.319	0.097	0.319	29.51	80.4	71.6	67.1	0.07179	0.07403	0.07365	433.5	431.3	433.5	0.015	0.141	0.018	29.51	107.8
7	48.55	16.75	0.317	0.097	0.317	29.51	80.5	71.6	67.2	0.07177	0.07399	0.07363	434.7	432.6	434.7	-0.273	0.124	-0.272	29.51	108.1
8	48.55	16.99	0.333	0.098	0.333	29.51	80.6	71.6	67.2	0.07178	0.07401	0.07364	436	433.9	436	-0.274	0.124	-0.264	29.51	107.7
9	48.61	16.85	0.337	0.1	0.337	29.51	80.8	71.8	67.3	0.07174	0.07396	0.07362	441.8	439.8	441.8	-0.28	0.124	-0.272	29.51	107.3
10	48.69	17	0.323	0.098	0.323	29.51	80.7	71.8	67.3	0.07175	0.07394	0.07362	435.8	433.9	435.8	-0.272	0.119	-0.265	29.51	107.7
11	48.86	17.06	0.334	0.099	0.334	29.51	80.6	71.8	67.3	0.07176	0.07395	0.07362	438.8	436.9	438.8	-0.279	0.125	-0.273	29.51	107.7
12	48.9	17.21	0.32	0.097	0.32	29.51	80.8	71.9	67.4	0.07174	0.07394	0.07361	435.2	433.2	435.2	-0.275	0.127	-0.267	29.51	107.8
13	49.14	17.32	0.318	0.096	0.318	29.51	80.7	71.9	67.4	0.07175	0.07393	0.07361	433.1	431.3	433.1	-0.276	0.124	-0.271	29.51	108
14	49.2	17.77	0.328	0.1	0.328	29.51	80.8	72	67.5	0.07173	0.07392	0.07359	440.6	438.6	440.6	-0.279	0.126	-0.269	29.51	108.4
15	49.26	17.13	0.327	0.099	0.327	29.51	80.9	72.1	67.5	0.07172	0.07391	0.07359	439.4	437.5	439.4	-0.28	0.127	-0.277	29.51	108.1
16	49.41	17.2	0.323	0.098	0.323	29.51	80.9	72.2	67.6	0.07172	0.07389	0.07358	436.4	434.6	436.4	-0.281	0.121	-0.27	29.51	108.7
17	49.49	17.2	0.322	0.095	0.322	29.51	80.9	72.2	67.7	0.07172	0.0739	0.07357	431.1	429.2	431.1	-0.274	0.123	-0.265	29.51	108.8
18	49.54	17.28	0.321	0.097	0.321	29.51	80.8	72.2	67.7	0.07173	0.07389	0.07356	435.7	433.8	435.7	0.018	0.137	0.022	29.51	108.7
19	49.79	17.24	0.318	0.098	0.318	29.51	80.8	72.2	67.7	0.07174	0.07389	0.07356	436.2	434.2	436.2	0.015	0.131	0.021	29.51	109
20	49.95	17.2	0.313	0.097	0.313	29.51	80.8	72.3	67.8	0.07174	0.0739	0.07355	434.1	432	434.1	0.016	0.133	0.025	29.51	109.5
21	50.07	17.17	0.323	0.099	0.323	29.51	80.8	72.3	67.9	0.07174	0.07392	0.07354	440.2	437.9	440.2	0.015	0.135	0.022	29.51	109.7
22	50.17	17.11	0.335	0.102	0.335	29.51	80.7	72.3	67.9	0.07175	0.07392	0.07354	445.5	443.1	445.5	0.017	0.132	0.021	29.51	110.3
23	50.24	17.09	0.333	0.1	0.333	29.51	80.7	72.3	67.9	0.07174	0.0739	0.07351	442	439.7	442	0.012	0.135	0.016	29.51	110.5
24	50.3	17.13	0.314	0.097	0.314	29.51	80.6	72.3	68	0.07174	0.0739	0.0735	434.5	432.2	434.5	0.009	0.137	0.014	29.51	110.9
25	50.33	17.1	0.319	0.097	0.319	29.51	80.6	72.3	68	0.07175	0.0739	0.07351	435.8	433.5	435.8	0.012	0.135	0.015	29.51	111.3
26	50.39	17.16	0.319	0.098	0.319	29.51	80.8	72.3	68	0.07173	0.0739	0.07351	436	433.7	436	0.011	0.131	0.017	29.51	111.1
27	50.5	17.17	0.33	0.1	0.33	29.51	80.7	72.3	68.1	0.07174	0.0739	0.0735	442.1	439.7	442.1	0.017	0.133	0.022	29.51	111.1
28	50.6	17.15	0.331	0.099	0.331	29.51	80.6	72.3	68.1	0.07175	0.0739	0.0735	438.6	436.2	438.6	0.016	0.129	0.02	29.51	111.3
29	50.78	17.22	0.319	0.098	0.319	29.51	80.7	72.3	68.1	0.07175	0.07389	0.07349	436	433.7	436	0.013	0.137	0.017	29.51	111.7
30	50.87	17.19	0.317	0.096	0.317	29.51	80.6	72.3	68.2	0.07175	0.07389	0.07348	433.7	431.3	433.7	0.009	0.134	0.011	29.51	111.8
31	50.98	17.22	0.315	0.097	0.315	29.51	80.6	72.3	68.2	0.07176	0.07389	0.07348	435.8	433.4	435.8	0.007	0.134	0.01	29.51	111.8
32	51.09	17.2	0.33	0.1	0.33	29.52	80.6	72.3	68.2	0.07177	0.07389	0.07349	441.2	438.8	441.2	0.01	0.132	0.013	29.52	112.1
33	51.18	17.19	0.317	0.097	0.317	29.52	80.6	72.3	68.3	0.07177	0.07389	0.07348	435.3	432.9	435.3	0.009	0.132	0.014	29.52	112.1
34	51.17	17.22	0.322	0.097	0.322	29.52	80.6	72.3	68.3	0.07177	0.0739	0.07348	433.9	431.4	433.9	0.01	0.132	0.014	29.52	112.1
35	51.28	17.23	0.316	0.098	0.316	29.52	80.6	72.3	68.3	0.07177	0.0739	0.07348	436.6	434.1	436.6	0.005	0.139	0.008	29.52	112
36	51.31	17.21	0.316	0.099	0.316	29.52	80.6	72.3	68.4	0.07177	0.0739	0.07347	438.6	436.1	438.6	0.007	0.135	0.01	29.52	111.8
37	51.33	17.18	0.31	0.096	0.31	29.52	80.6	72.3	68.4	0.07177	0.0739	0.07346	431.7	429.2	431.7	0.004	0.136	0.008	29.52	111.9
38	51.35	17.18	0.318	0.099	0.318	29.51	80.6	72.3	68.4	0.07176	0.07389	0.07345	439	436.3	439	0.009	0.134	0.013	29.51	111.6
39	51.37	17.2	0.323	0.098	0.323	29.52	80.6	72.4	68.5	0.07176	0.0739	0.07345	437.3	434.7	437.3	0.005	0.136	0.01	29.52	111.8
40	51.31	17.19	0.314	0.097	0.314	29.52	80.6	72.3	68.5	0.07177	0.0739	0.07345	435.1	432.5	435.1	0.01	0.133	0.013	29.52	112.1
41	51.3	17.2	0.314	0.097	0.314	29.52	80.7	72.3	68.5	0.07175	0.07389	0.07345	434.9	432.3	434.9	0.003	0.138	0.006	29.52	112
42	51.23	17.2	0.316	0.097	0.316	29.52	80.5	72.3	68.6	0.07177	0.0739	0.07343	434	431.3	434	0.003	0.138	0.005	29.52	112.2
43	51.3	17.21	0.321	0.097	0.321	29.51	80.7	72.3	68.5	0.07175	0.07389	0.07344	435.1	432.4	435.1	0.007	0.126	0.012	29.51	112.6
44	51.35	17.19	0.323	0.099	0.323	29.52	80.6	72.3	68.6	0.07176	0.07389	0.07344	440	437.3	440	0.009	0.136	0.013	29.52	112.7
45	51.4	17.2	0.319	0.099	0.319	29.52	80.6	72.3	68.6	0.07177	0.07388	0.07343	439.4	436.7	439.4	0.008	0.134	0.009	29.52	112.9
46	51.38	17.22	0.316	0.097	0.316	29.51	80.6	72.3	68.6	0.07174	0.07387	0.07342	436	433.4	436	0.006	0.141	0.007	29.51	113
47	51.44	17.23	0.316	0.099	0.316	29.51	80.6	72.3	68.6	0.07176	0.07389	0.07342	439.1	436.3	439.1	0.013	0.132	0.017	29.51	112.8
48	51.58	17.21	0.318	0.098	0.318	29.51	80.6	72.3	68.6	0.07175	0.07388	0.07342	437	434.3	437	0.008	0.132	0.011	29.51	113.1
49	51.66	17.24	0.33	0.1	0.33	29.51	80.6	72.3	68.7	0.07175	0.07389	0.07342	442.2	439.4	442.2	0.008	0.133	0.01	29.51	112.7
50	51.69	17.24	0.317	0.1	0.317	29.51	80.6	72.3	68.7	0.07176	0.07388	0.07342	441.9	439.1	441.9	0.004	0.132	0.007	29.51	113
51	51.8	17.25	0.32	0.1	0.32	29.51	80.6	72.3	68.7	0.07176	0.07387	0.07342	441.3	438.6	441.3	0.003	0.134	0.004	29.51	113.4
52	51.94	17.22	0.317	0.096	0.317	29.51	80.5	72.3	68.8	0.07176	0.07387	0.0734	432.3	429.6	432.3	0.008	0.133	0.01	29.51	113.2
53	52	17.29	0.321	0.101	0.321	29.51	80.5	72.3	68.7	0.07176	0.07386	0.07341	444.1	441.4	444.1	0.003	0.137	0.006	29.51	113.3
54	52.11	17.32	0.311	0.097	0.311	29.51	80.7	72.4	68.8	0.07174	0.07385	0.07339	434.3	431.6	434.3	0	0.132	0.003	29.51	113.6
55	52.13	17.29	0.327	0.1	0.327	29.51	80.7	72.4	68.8	0.07173	0.07384	0.07339	441.4	438.8	441.4	0.004	0.128	0.009	29.51	113.9
56	52.23	17.35	0.307	0.097	0.307	29.51	80.7	72.4	68.8	0.07174	0.07385	0.07339	434.3	431.6	434.3	0	0.134	0.001	29.51	113.9
57	52.32	17.36	0.315	0.099	0.315	29.51	80.7	72.4	68.9	0.07174	0.07384	0.07338	439.6	436.9	439.6	-0.003	0.132	0.001	29.51	114.1
58	52.4	17.36	0.31	0.097	0.31	29.51	80.7	72.4	68.9	0.07174	0.07383	0.07338	434.3	431.7	434.3	0.001	0.131	0.006	29.51	114.2
59	52.47	17.4	0.317	0.098	0.317	29.52	80.7	72.4	68.9	0.07175	0.07384	0.07339	437	434.3	437	-0.173	0.124	-0.166	29.52	114.5
60	52.53	18.47	0.322	0.101	0.322	29.51	80.8	72.4	68.9	0.07172	0.07304	0.07337	444.2	446.2	444.2	-0.304	0.118	-0.452	29.51	114.4
61	52.36	20.65	0.315	0.098	0.315	29.51	80.8	72.5	69	0.07171	0.07271	0.07335	437	440.8	437	-0.304	0.115	-0.454	29.51	113.9

Table 26: Data from C-DM continued.

Count	Cond Wet Inlet Temp	CondNozzleTemp	CondRho Inlet	CondRho Outlet	CondRho Nozzle	CondCF MNozzle	CondCF MOutlet	CondSCF MNozzle	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Cond Nozzle Temp	Cond Coil Temp
	C	C	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	C	C
1	84.6	118.4	0.06828	0.06574	0.06683	1024.7	1041.7	1024.7	0.015302	0.020159	0.135714	48.01417	0.326127
2	84.7	118.5	0.06824	0.06571	0.06681	1056	1073.6	1056	0.014512	0.018503	0.137994	48.08177	0.321227
3	84.8	118.7	0.06821	0.06569	0.0668	1028.8	1046.1	1028.8	0.014144	0.017581	0.143734	48.15803	0.327489
4	84.8	118.9	0.06817	0.06566	0.06678	1042.8	1060.5	1042.8	0.01982	0.024159	0.136455	48.2538	0.336644
5	84.9	119.1	0.06815	0.06564	0.06676	1036	1053.8	1036	0.016699	0.020164	0.13932	48.36414	0.309014
6	85	119.3	0.0681	0.06561	0.06673	1051.2	1069.1	1051.2	0.015968	0.021645	0.142146	48.48886	0.331043
7	85.1	119.4	0.06806	0.06559	0.06667	985.5	1001.6	985.5	-0.27028	-0.2637	0.124937	48.54573	0.320076
8	84.8	119.4	0.06813	0.06551	0.06669	983.1	1000.7	983.1	-0.27531	-0.27094	0.128594	48.54718	0.32999
9	84.6	119.5	0.06817	0.06545	0.06667	982.8	1001.2	982.8	-0.27181	-0.26426	0.122689	48.61096	0.314865
10	84.8	119.6	0.06812	0.06541	0.06665	965.9	984.2	965.9	-0.28121	-0.27787	0.125235	48.6813	0.319705
11	84.7	119.9	0.06813	0.0654	0.06662	990.1	1008.7	990.1	-0.27574	-0.26783	0.121557	48.86141	0.336049
12	84.8	120	0.06812	0.06535	0.06661	997.9	1017.2	997.9	-0.27468	-0.26788	0.122224	48.8903	0.316776
13	85.1	120.4	0.06808	0.06532	0.06656	985.5	1004.1	985.5	-0.27826	-0.26935	0.124347	49.13282	0.316647
14	85.2	120.6	0.06803	0.0653	0.06654	991.6	1010.4	991.6	-0.27521	-0.2687	0.125488	49.20015	0.318952
15	85.1	120.7	0.06807	0.06528	0.06653	996.9	1016	996.9	-0.27717	-0.26867	0.120984	49.26052	0.312915
16	85.3	121	0.068	0.06526	0.0665	972.1	990.6	972.1	-0.27974	-0.27562	0.120952	49.40525	0.310599
17	85.5	121.1	0.06798	0.06524	0.06648	980.6	999.3	980.6	-0.28105	-0.27331	0.120172	49.47462	0.325897
18	85.2	121.2	0.06801	0.06522	0.06653	1035.7	1056.4	1035.7	0.011998	0.016841	0.141892	49.53428	0.332339
19	85.3	121.6	0.06797	0.06521	0.06648	1012.1	1031.8	1012.1	0.010434	0.016085	0.136987	49.78189	0.310441
20	85.6	121.9	0.06791	0.06527	0.06644	1021	1039.3	1021	0.01319	0.018855	0.135819	49.94466	0.328394
21	85.6	122.1	0.06788	0.06529	0.06642	1028.9	1046.7	1028.9	0.012452	0.020401	0.135748	50.06524	0.323287
22	85.8	122.3	0.06781	0.06528	0.06639	1019.8	1037.2	1019.8	0.014239	0.019196	0.136133	50.16743	0.333025
23	85.8	122.4	0.06777	0.06525	0.06637	1031.8	1049.4	1031.8	0.010942	0.016846	0.138664	50.24097	0.32894
24	85.8	122.5	0.06774	0.06525	0.06636	1038.5	1056.3	1038.5	0.00675	0.011983	0.134502	50.29593	0.316487
25	85.9	122.6	0.06769	0.06523	0.06635	1030.1	1047.9	1030.1	0.011552	0.015305	0.135741	50.33329	0.314694
26	85.7	122.7	0.06772	0.06522	0.06635	1013.5	1031.1	1013.5	0.0111	0.015904	0.13606	50.38896	0.327501
27	85.6	122.9	0.06773	0.0652	0.06634	1024.2	1042	1024.2	0.012212	0.016651	0.132131	50.49281	0.320782
28	85.6	123.1	0.0677	0.06519	0.06632	1007.9	1025.4	1007.9	0.005689	0.010923	0.138181	50.60543	0.320024
29	85.8	123.4	0.06766	0.06516	0.06628	1038.6	1056.4	1038.6	0.009333	0.012078	0.136415	50.77224	0.318729
30	85.7	123.6	0.06765	0.06515	0.06626	1025.2	1042.8	1025.2	0.011387	0.016309	0.135033	50.87304	0.312772
31	85.7	123.8	0.06765	0.06513	0.06624	1028.4	1046	1028.4	0.011766	0.016016	0.130025	50.98186	0.324812
32	85.8	124	0.06762	0.06511	0.06622	1020.1	1037.6	1020.1	0.00728	0.012075	0.134013	51.0886	0.315111
33	85.6	124.1	0.06762	0.06512	0.06621	1020.5	1037.6	1020.5	0.011601	0.014375	0.131892	51.17752	0.312439
34	85.5	124.1	0.06763	0.06514	0.06622	1018.8	1035.7	1018.8	0.004809	0.0085	0.132021	51.16197	0.315669
35	85.5	124.3	0.06764	0.06518	0.0662	1045.1	1061.4	1045.1	0.007355	0.008615	0.138514	51.2858	0.317297
36	85.4	124.4	0.06767	0.06524	0.06619	1029.9	1045	1029.9	0.0058	0.00999	0.133472	51.31206	0.318856
37	85.4	124.4	0.06765	0.06527	0.06619	1035.9	1050.6	1035.9	0.013094	0.017207	0.128357	51.32774	0.319091
38	85.2	124.4	0.06769	0.06527	0.06618	1026	1040.3	1026	0.011887	0.016307	0.135555	51.34849	0.323587
39	85.3	124.5	0.06767	0.06528	0.06618	1035.2	1049.6	1035.2	0.007326	0.008887	0.135303	51.37584	0.306583
40	85.4	124.4	0.06763	0.06526	0.06619	1023.9	1038.6	1023.9	0.00695	0.011409	0.133286	51.3139	0.315104
41	85.2	124.3	0.06765	0.06526	0.0662	1043.1	1058.1	1043.1	0.007176	0.011578	0.133851	51.29539	0.316118
42	85.3	124.2	0.06762	0.06522	0.06621	1042.2	1058	1042.2	0.005757	0.007283	0.136688	51.23071	0.330008
43	85.3	124.3	0.06758	0.0652	0.0662	996.5	1011.8	996.5	0.00699	0.013249	0.130801	51.29308	0.326363
44	85.4	124.4	0.06757	0.06518	0.06619	1035	1051	1035	0.006749	0.009322	0.132594	51.34936	0.322077
45	85.3	124.5	0.06755	0.06517	0.06618	1027	1043	1027	0.010684	0.01365	0.134446	51.3978	0.320638
46	85.3	124.5	0.06753	0.06514	0.06617	1054.6	1071.4	1054.6	0.005955	0.009668	0.130293	51.38395	0.311042
47	85.3	124.6	0.06756	0.06512	0.06617	1020.1	1036.7	1020.1	0.00609	0.009461	0.135415	51.43579	0.321613
48	85.3	124.8	0.06752	0.06509	0.06614	1021.8	1038.2	1021.8	0.015841	0.020066	0.129193	51.57503	0.332428
49	85.2	125	0.06757	0.06508	0.06613	1022.8	1039.3	1022.8	0.006875	0.010024	0.131108	51.6615	0.328826
50	85.3	125	0.06753	0.06506	0.06613	1020.6	1037.4	1020.6	0.005659	0.007161	0.13647	51.68322	0.315538
51	85.4	125.3	0.06749	0.06503	0.0661	1026.8	1043.5	1026.8	0.006378	0.00882	0.134985	51.79991	0.312602
52	85.2	125.5	0.06751	0.06502	0.06607	1023.5	1040.2	1023.5	0.003458	0.005975	0.133179	51.93859	0.317666
53	85.3	125.6	0.0675	0.06499	0.06606	1042	1059.1	1042	-0.00043	0.001743	0.137343	52.00105	0.315135
54	85.4	125.8	0.06746	0.06497	0.06603	1022	1038.7	1022	0.000169	0.00324	0.132813	52.10517	0.328172
55	85.6	125.8	0.06742	0.06496	0.06603	1004.9	1021.3	1004.9	0.001456	0.005116	0.134519	52.12948	0.313817
56	85.5	126	0.06743	0.06496	0.06601	1027.6	1044.1	1027.6	0.006481	0.006936	0.132038	52.22178	0.316937
57	85.6	126.2	0.06741	0.06495	0.06599	1020.3	1036.7	1020.3	0.002311	0.005799	0.129434	52.31971	0.318514
58	85.6	126.3	0.06739	0.06495	0.06598	1017.6	1033.7	1017.6	0.007675	0.010767	0.132008	52.38614	0.31013
59	85.6	126.4	0.06737	0.06492	0.06595	988	1003.7	988	-0.07386	-0.06894	0.129404	52.46293	0.31068
60	85.5	126.6	0.06737	0.06614	0.06587	965	961.1	965	-0.30369	-0.45137	0.112866	52.53611	0.33652
61	85.4	126.2	0.06743	0.06722	0.06591	952.2	933.7	952.2	-0.30378	-0.45669	0.115766	52.36582	0.315372

Count	Evap Coil Temp	Cond Airflow at Nozzle	Cond Airflow Standard	Barometric	IndoorDB	IndoorWB	EvapExit DB	EvapExit WB	Outdoor DB	Outdoor WB	EvapStat Pres	Chamber DischargePres	EvapDiff Pres
	C	CFM	SCFM	in Hg	C	C	C	C	C	C	in/H2O	in/H2O	in/H2O
1	38.50347	1029.49	917.334	29.50589	26.844	21.9491	18.05746	16.68358	41.27247	29.19864	0.334726	0.326127	0.096821
2	38.43992	1038.351	924.9538	29.50513	26.80893	21.94283	18.02607	16.69928	41.41841	29.28365	0.328074	0.321227	0.096523
3	38.56435	1060.076	944.1166	29.50603	26.79478	21.95945	18.07013	16.73734	41.6031	29.30699	0.336193	0.327489	0.097274
4	38.68056	1032.701	919.5109	29.50519	26.87926	21.97746	18.10422	16.80457	41.76831	29.30144	0.345755	0.336644	0.099808
5	38.71179	1043.807	929.0466	29.50535	26.88942	21.98316	18.12176	17.215	41.89454	29.35581	0.317143	0.309014	0.09567
6	38.58683	1054.682	938.3358	29.50645	26.90701	21.99026	18.13808	16.68948	42.11348	29.46798	0.339218	0.331043	0.097112
7	39.64193	988.4146	878.6372	29.50675	26.96229	22.02258	18.17647	16.80271	42.25919	29.51064	0.326395	0.320076	0.098293
8	38.77641	1002.874	891.6236	29.50772	26.98294	22.0125	18.20704	16.97883	42.04663	29.32024	0.338492	0.32999	0.100522
9	38.29242	979.3297	870.6367	29.5084	27.10139	22.10727	18.32179	16.85311	41.86674	29.19933	0.323437	0.314865	0.096502
10	38.9489	989.7152	879.5733	29.50902	27.04286	22.10267	18.39721	16.99368	42.04824	29.33748	0.327354	0.319705	0.09567
11	38.90244	975.0672	866.2447	29.51173	27.045	22.12145	18.3887	17.06208	42.04104	29.26637	0.345429	0.336049	0.100282
12	39.20704	977.9058	868.52	29.50793	27.07819	22.13993	18.42088	17.21605	42.09513	29.33786	0.324412	0.316776	0.095938
13	39.04808	986.8725	875.7543	29.51003	27.08703	22.16947	18.45665	17.27437	42.20937	29.50055	0.324528	0.316647	0.098236
14	38.19193	991.5336	879.7287	29.51103	27.12046	22.24159	18.4783	17.46016	42.44967	29.5661	0.32759	0.318952	0.098157
15	38.97245	973.4602	863.4859	29.50914	27.17844	22.25741	18.52025	17.14172	42.29258	29.5274	0.321667	0.312915	0.096571
16	39.26694	973.5438	863.1869	29.51145	27.14473	22.30928	18.57552	17.19538	42.57097	29.63721	0.318417	0.310599	0.095763
17	38.59084	970.4497	860.2707	29.51328	27.18593	22.32376	18.57802	17.2023	42.67755	29.716	0.333051	0.325897	0.09807
18	39.32756	1055.285	935.9996	29.51173	27.14686	22.34377	18.60287	17.25319	42.60061	29.57509	0.340409	0.332339	0.098361
19	39.50012	1037.014	919.1461	29.51292	27.0953	22.35192	18.57035	17.25177	42.78069	29.60799	0.31741	0.310441	0.095862
20	39.33946	1032.85	914.8841	29.5117	27.09589	22.37296	18.52819	17.20221	43.03822	29.75292	0.336585	0.328394	0.099241
21	39.5196	1032.76	914.4724	29.51101	27.0765	22.39324	18.49423	17.1647	43.16103	29.75363	0.332458	0.323287	0.098836
22	40.1074	1034.422	915.6063	29.51186	27.05608	22.37885	18.48325	17.10647	43.52415	29.9136	0.340587	0.333025	0.100967
23	40.03474	1044.224	924.0802	29.51116	27.04668	22.38857	18.50246	17.0974	43.62519	29.89532	0.336626	0.32894	0.096411
24	39.83153	1028.313	909.8731	29.51093	27.04271	22.37703	18.48197	17.13083	43.80877	29.90225	0.324811	0.316487	0.098072
25	39.53167	1033.134	914.0656	29.5117	27.0235	22.367	18.49966	17.10298	44.05213	29.95646	0.32271	0.314694	0.098005
26	39.72301	1034.338	915.1638	29.51417	27.08642	22.39282	18.53825	17.13792	43.93225	29.81337	0.335007	0.327501	0.10091
27	40.25369	1019.293	901.5339	29.51215	27.06835	22.37844	18.5382	17.15192	43.95609	29.79494	0.329036	0.320782	0.099259
28	39.67672	1042.758	922.051	29.51447	27.05662	22.40219	18.56645	17.14053	44.0759	29.78557	0.328461	0.320024	0.100331
29	40.37682	1036.304	915.8138	29.5134	27.04367	22.41408	18.57949	17.17828	44.24808	29.85896	0.326679	0.318729	0.097356
30	39.98614	1031.105	910.9856	29.51392	27.0233	22.40582	18.56674	17.1842	44.3293	29.85659	0.320577	0.312772	0.09597
31	40.3912	1011.651	893.6404	29.51766	27.00577	22.40394	18.56245	17.23749	44.34958	29.84412	0.334673	0.324812	0.098162
32	40.58154	1027.445	907.2196	29.51642	26.9894	22.39135	18.58414	17.20955	44.50338	29.89797	0.322566	0.315111	0.097599
33	40.32741	1019.29	899.8266	29.51485	26.98474	22.39196	18.57735	17.19762	44.51205	29.80381	0.319491	0.312439	0.098142
34	39.88434	1019.688	900.3702	29.51789	26.98171	22.37224	18.56231	17.22061	44.488	29.72647	0.32478	0.315669	0.098085
35	38.84583	1045.018	922.2794	29.51586	27.00111	22.39123	18.57941	17.22165	44.47402	29.74894	0.325482	0.317297	0.095935
36	38.80749	1025.572	905.1487	29.51705	27.00519	22.39246	18.5578	17.2159	44.33051	29.65912	0.326504	0.318856	0.100605
37	39.22581	1005.53	887.3596	29.51368	26.98556	22.38493	18.51908	17.20027	44.40634	29.65829	0.326644	0.319091	0.099028
38	39.94761	1033.705	912.2076	29.51421	27.00227	22.41331	18.5438	17.19392	44.24502	29.57433	0.332693	0.323587	0.098421
39	39.66248	1032.744	911.339	29.5165	27.00297	22.41857	18.53422	17.19899	44.32345	29.59264	0.314238	0.306583	0.094477
40	40.0924	1024.89	904.4704	29.51376	27.01949	22.41132	18.54678	17.19921	44.52838	29.67874	0.322826	0.315104	0.097901
41	40.2768	1026.983	906.5003	29.51549	27.05384	22.41244	18.56751	17.19944	44.45633	29.58002	0.323836	0.316118	0.098072
42	40.00827	1037.92	916.2053	29.51169	26.98123	22.4111	18.57222	17.21107	44.5714	29.60303	0.337962	0.330008	0.100461
43	39.90205	1015.049	895.9999	29.51505	27.02845	22.41522	18.59071	17.21474	44.73509	29.61493	0.334848	0.326363	0.097324
44	39.41864	1022.174	902.1037	29.51517	27.02055	22.40696	18.57911	17.20295	44.83752	29.66094	0.331114	0.322077	0.097775
45	40.09744	1029.44	908.4012	29.51394	26.9806	22.39729	18.60604	17.20327	44.94042	29.62999	0.32861	0.320638	0.099354
46	40.02779	1013.175	894.0802	29.51328	27.01097	22.41272	18.5993	17.21151	44.97306	29.62394	0.318944	0.311042	0.098685
47	40.79894	1033.253	911.642	29.51407	26.98827	22.39535	18.58137	17.2224	44.87668	29.6244	0.32981	0.321613	0.098639
48	40.58725	1009.111	890.042	29.51472	26.99517	22.41057	18.62829	17.20922	45.02534	29.63344	0.340367	0.332428	0.101202
49	40.27099	1016.802	896.5619	29.51263	26.99914	22.40118	18.6008	17.21914	44.84519	29.52087	0.337585	0.328826	0.1004
50	41.02883	1037.687	914.8787	29.51367	26.95964	22.4075	18.63323	17.24348	45.03562	29.61963	0.323365	0.315538	0.097559
51	41.02574	1032.15	909.6536	29.51359	26.98332	22.39785	18.65409	17.25933	45.20589	29.68198	0.319873	0.312602	0.098654
52	40.77583	1025.31	903.3152	29.51356	26.97394	22.39668	18.64037	17.23658	45.11324	29.57843	0.32613	0.317666	0.097678
53	40.73346	1041.577	917.3468	29.51102	26.99596	22.41557	18.6554	17.26838	45.19494	29.62215	0.324634	0.315135	0.096876
54	40.49279	1024.201	901.7634	29.51108	27.05301	22.43666	18.69886	17.32881	45.30415	29.65513	0.336445	0.328172	0.100502
55	40.76003	1030.868	907.5563	29.51272	27.0615	22.45605	18.72417	17.32482	45.50087	29.76552	0.322119	0.313817	0.099423
56	40.82189	1021.381	898.898	29.51013	27.0548	22.45008	18.68838	17.3397	45.50088	29.7454	0.325333	0.316937	0.098135
57	40.92222	1011.22	889.7941	29.51295	27.05809	22.43937	18.74879	17.37005	45.57619	29.74561	0.32602	0.318514	0.098011
58	40.66652	1021.486	898.5878	29.5112	27.05088	22.46535	18.77038	17.36741	45.69066	29.78031	0.31822	0.31013	0.096962
59	40.77058	1011.388	889.4085	29.51252	27.04821	22.46095	18.79494	17.40813	45.80297	29.76093	0.319555	0.31068	0.096281
60	40.72937	944.3216	829.3965	29.50806	27.09417	22.4675	21.78126	18.36735	45.78282	29.71379	0.344547	0.33652	0.104057
61	39.72949	956.2801	840.3693	29.50984	27.15196	22.52632	23.2339	20.58779	45.49429	29.64893	0.322938	0.315372	0.097264

Count	EvapNozzTemp	Airflow at Nozzle	Standard Air Flow	CondVoltage	CondPower	Cond Exit Dry-bulb	Cond Exit Wet-bulb	Cooling Capacity	Total Cooling Capacity	Sensible Cooling Capacity	Latent Cooling Capacity	Duct Loss Correction	Total Cooling Capacity Cond	Corrected Total Cooling Capacity	Corrected Sensible Cooling	Sensible Cooling Capacity Cond
	C	CFM	SCFM	V	kW	C	C	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr
1	19.42824	433.979	426.2468	225.0251	2.790393	53.43652	31.6702	14442.13	14286.23	7563.435	6722.794	155.9	13452.1	14442.13	7719.338	13420.81
2	19.4318	433.3155	425.5728	225.0584	2.802585	53.56812	31.69537	14446.06	14288.58	7669.849	6618.729	157.5	12782.9	14446.06	7827.335	13271.06
3	19.45794	435.0306	427.2302	225.0356	2.815396	53.68937	31.71632	13900.47	13741.76	7506.351	6235.412	158.7	12478.4	13900.47	7665.054	12769.6
4	19.46716	440.7368	432.8177	224.8025	2.823321	53.82777	31.73475	14178.38	14018.45	7618.971	6399.483	159.9	12686.2	14178.38	7778.896	12682.37
5	19.49808	431.4244	423.6045	224.9923	2.830904	53.96091	31.76731	13829.61	13668.89	7651.448	6017.44	160.7	12596.9	13829.61	7812.174	12794.4
6	19.50416	434.6928	426.842	225.1191	2.842041	54.03675	31.82431	14414.82	14252.24	7593.561	6658.683	162.6	11985.5	14414.82	7756.136	12414.11
7	19.53228	437.3865	429.4311	224.7578	2.99592	53.8811	31.62954	14482.65	14319.29	7536.109	6783.178	163.4	8363	14482.65	7699.472	10193.65
8	19.57317	442.3911	434.3127	224.7197	3.064736	54.42176	31.41106	13882.49	13721.28	7543.836	6177.441	161.2	7363.4	13882.49	7705.053	11073.9
9	19.59296	433.3745	425.4078	224.6376	3.094149	54.71895	31.36969	14654.87	14496.16	7701.772	6794.388	158.7	8103.1	14654.87	7860.479	12273.2
10	19.60722	431.4865	423.5442	224.5574	3.108272	54.88932	31.39336	14164.85	14004.66	7479.707	6524.955	160.2	6891.3	14164.85	7639.9	11844.61
11	19.63625	441.8879	433.7572	224.4782	3.12517	55.0125	31.40166	14004.26	13844.09	7459.912	6384.18	160.2	7473.5	14004.26	7620.084	12046.35
12	19.66088	432.1513	424.09	224.5742	3.130878	55.20343	31.41081	13884.13	13723.56	7579.003	6144.557	160.6	6913	13884.13	7739.568	12286.97
13	19.67302	437.3575	429.1994	224.4298	3.142422	55.29835	31.44219	13494.72	13333.42	7379.235	5954.184	161.3	5795.1	13494.72	7540.538	12184.42
14	19.71394	437.2132	428.9916	224.5075	3.150497	55.39485	31.47505	-9723.22	-9886.17	6736.254	0	163	5854.5	-9723.22	6899.205	12277.36
15	19.71619	433.6407	425.451	224.4521	3.155595	55.54885	31.50729	14294.18	14132.72	7506.574	6626.142	161.5	6185.8	14294.18	7668.035	12559.57
16	19.77009	431.8347	423.6101	224.4418	3.157953	55.64104	31.52567	14272.99	14109.46	7405.724	6703.738	163.5	5475.5	14272.99	7569.25	12342.71
17	19.80995	437.0761	428.7332	224.4426	3.170923	55.75555	31.56564	14502.1	14337.88	7560.567	6777.308	164.2	5101.6	14502.1	7724.793	12365.22
18	19.8251	437.7586	429.3525	224.315	3.157816	55.94383	31.58901	14418.28	14254.49	7468.616	6785.877	163.8	7201.2	14418.28	7632.403	13449.13
19	19.84623	432.1162	423.7762	224.3753	3.002195	56.16993	32.04435	14436.36	14270.74	7492.664	6778.081	165.6	12309.8	14436.36	7658.277	14745.17
20	19.86961	439.7794	431.2467	224.8344	2.973453	55.83874	32.22702	14500.78	14332.93	7472.103	6860.825	167.8	12670.5	14500.78	7639.952	13325.86
21	19.91529	438.9163	430.3083	224.8597	2.969087	55.76408	32.30324	14326.88	14157.72	7362.441	6795.278	169.2	13399.3	14326.88	7531.599	12959.02
22	19.90931	443.664	434.9959	224.9534	2.97309	55.80064	32.33789	14592.25	14419.58	7398.084	7021.494	172.7	12505	14592.25	7570.758	12433.33
23	19.94711	433.4484	424.9105	224.8252	2.972727	55.85374	32.35386	14911.71	14738.27	7528.464	7209.803	173.4	12903.1	14911.71	7701.905	12420.58
24	19.97903	437.2448	428.5712	224.9248	2.984589	55.91691	32.35635	14815.84	14641.01	7491.263	7149.751	174.8	12998.8	14815.84	7666.093	12371.58
25	19.9888	437.0963	428.4224	224.7611	2.992632	56.01965	32.35544	14869.77	14692.68	7473.144	7219.533	177.1	12408.9	14869.77	7650.236	12036.21
26	19.99937	443.5873	434.8135	224.873	3.000074	56.11188	32.35606	14767.65	14591.85	7479.738	7112.111	175.8	13170.2	14767.65	7655.54	11874.33
27	20.03715	439.946	431.1568	224.9347	3.004809	56.25351	32.35795	14660.69	14484.83	7406.857	7077.972	175.9	13677.9	14660.69	7582.722	12336.89
28	20.06448	442.3524	433.497	224.8575	3.010659	56.31239	32.35648	14793.85	14616.8	7386.615	7230.189	177	13953.2	14793.85	7563.66	12489.15
29	20.06165	435.6727	426.9353	225.0851	3.022025	56.43821	32.3738	14609.38	14431.14	7376.784	7054.353	178.2	13351.5	14609.38	7555.029	12165.17
30	20.09929	432.5478	423.8222	225.1162	3.027825	56.51627	32.39101	14636.06	14456.92	7331.943	7124.98	179.1	13316.7	14636.06	7511.075	12049.21
31	20.10889	437.4952	428.72	225.1151	3.032137	56.62383	32.4034	14563.89	14384.46	7345.443	7039.014	179.4	13303.1	14563.89	7524.88	11965.17
32	20.11772	436.2411	427.4532	225.2198	3.038089	56.72022	32.40994	14514.01	14333.18	7299.194	7033.986	180.8	13400.5	14514.01	7480.028	12326.17
33	20.14598	437.5039	428.6221	225.2305	3.036894	56.77302	32.40068	14628.09	14447.07	7361.433	7085.639	181	13719.5	14628.09	7542.45	11993.84
34	20.16017	437.3575	428.5131	225.1684	3.029077	56.67787	32.37406	14644.84	14464.19	7385.458	7078.732	180.7	14459.7	14644.84	7566.112	12066.15
35	20.16368	432.4965	423.7149	225.1435	3.000594	56.41527	32.32351	14448.68	14267.82	7331.91	6935.909	180.9	13668	14448.68	7512.769	11647.79
36	20.18678	443.0351	434.0197	224.9377	2.98058	56.16477	32.27621	14604.94	14425.49	7352.325	7073.162	179.4	14210.7	14604.94	7531.775	11586.97
37	20.22103	439.5529	430.511	225.0525	2.97178	56.03451	32.24874	14614.91	14434.67	7371.796	7062.874	180.2	13715.5	14614.91	7552.037	10979.94
38	20.24209	438.2045	429.1639	225.0445	2.96395	55.97327	32.23196	14751.99	14573.24	7397.734	7175.509	178.7	14783.1	14751.99	7576.478	11610.94
39	20.25026	429.2217	420.3721	225.0089	2.973637	55.97456	32.21377	14972.79	14793.49	7533.74	7259.752	179.3	14008.4	14972.79	7713.033	11062.92
40	20.24779	437.041	428.0037	224.9507	2.975604	56.02578	32.19475	14502.32	14321.08	7287.11	7033.971	181.2	13197.7	14502.32	7468.351	10921.91
41	20.282	437.4372	428.3714	224.9783	2.984249	56.09655	32.17456	14671.67	14491.6	7411.904	7079.692	180.1	13974.5	14671.67	7591.978	11238.23
42	20.30067	442.8344	433.5776	225.0185	2.997679	56.25608	32.15945	14686.38	14505.09	7357.359	7147.736	181.3	13542.5	14686.38	7538.64	11265.1
43	20.29556	435.7543	426.7051	224.8789	3.007959	56.35978	32.15341	14683.07	14500.65	7384.159	7116.486	182.4	13075.2	14683.07	7566.584	10875.56
44	20.31889	436.7929	427.6871	224.8459	3.017935	56.46348	32.14148	14567.61	14383.95	7305.598	7078.347	183.7	12661.9	14567.61	7489.266	11132.3
45	20.33735	440.3716	431.1419	224.7699	3.030036	56.58431	32.15924	14640.48	14455.89	7312.048	7143.838	184.6	12760.4	14640.48	7496.638	10677.82
46	20.33515	438.8776	429.6607	224.9631	3.037211	56.68999	32.17907	14591.2	14406.42	7323.152	7083.27	184.8	13332.8	14591.2	7507.929	11087.8
47	20.347	438.7707	429.5656	224.8649	3.044616	56.78396	32.19433	14795.4	14611.43	7428.153	7183.28	184	13159.2	14795.4	7612.118	11253.23
48	20.36835	444.5086	435.1652	224.8827	3.053615	56.92398	32.20221	14596.92	14411.76	7274.884	7136.874	185.2	12828	14596.92	7460.044	10892
49	20.36226	442.7355	433.4083	224.8201	3.062889	57.01418	32.20681	14662.28	14478.63	7381	7097.628	183.6	14328.4	14662.28	7564.649	11774.48
50	20.37141	436.3584	427.1497	224.835	3.068674	57.10567	32.2092	14600.29	14414.89	7318.36	7096.533	185.4	12918	14600.29	7503.763	11100.14
51	20.40674	438.8551	429.5428	224.7896	3.075085	57.21411	32.21482	14388.7	14201.88	7200.623	7001.253	186.8	13310.7	14388.7	7387.449	11833.15
52	20.39423	436.6419	427.4002	224.5581	3.089207	57.34089	32.21421	14738.06	14551.97	7332.688	7219.285	186.1	13275.3	14738.06	7518.772	11263.08
53	20.4289	434.8672	425.5693	224.628	3.091485	57.41889	32.22636	14621.01	14434.63	7329.526	7105.107	186.4	13504	14621.01	7515.903	11752.51
54	20.41981	443.0191	433.5695	224.6392	3.098558	57.4991	32.24748	14358.55	14171.58	7253.595	6917.979	187	13661	14358.55	7440.573	11915.21
55	20.45315	440.6308	431.1867	224.6714	3.099658	57.56335	32.25904	14424.35	14235.83	7220.261	7015.566	188.5	12116.6	14424.35	7408.787	11081.68
56	20.454	437.749	428.3336	224.6084	3.103764	57.59341	32.26479	14459.74	14271.23	7300.08	6971.148	188.5	12619.4	14459.74	7488.587	11364.17
57	20.46789	437.4558	428.074	224.6826	3.107793	57.6069	32.26627	14214.43	14025.44	7175.57	6849.873	189	13081.6	14214.43	7364.561	11610.8
58	20.47288	435.1051	425.7228	224.5927	3.111631	57.65632	32.2658	14343.4	14153.29	7166.815	6986.477	190.1	11913	14343.4	7356.92	10764.61
59	20.49488	433.5598	424.2008	224.5772	3.119849	57.7656	32.26051	14262.69	14071.77	7138.65	6933.118	190.9	12203.6	14262.69	7329.574	10921.68
60	20.51001	450.9712	441.1687	228.3437	0.095806	51.78907	31.85751	11879.91	11700.31	4735.581	6964.731	179.6	18505.4	11879.91	4915.174	10336.06
61	20.56313	435.8681	426.3116	228.2146	0.095915	46.29085	31.35304	5974.938	5803.758	3404.025	2399.733	171.2	14745.3	5974.938	3575.206	1092.656

Table 27: Data from C-WM testing conditions.

Count	Chamber Discharge Pres	External Static Pressure	Evap Diff Pres	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Barometric Pres	Indoor Temp	Indoor Temp Ref	Evap Exit Drybulb	Cond Exit Drybulb	Evap Coil Temp	Outdoor Temp Ref	Evap Nozzle Temp	Indoor Wetbulb	Outdoor Temp	Cond Exit Wetbulb	Outdoor Wetbulb	Cond Nozzle Temp
	IWC	IWC	IWC	IWC	IWC	IWC	in. Hg	C	C	C	C	C	C	C	C	C	C	C	C
1	0.36	0.37	0.1	0	0.01	0.14	29.53	26.82	26.63	15.88	48.01	33.73	41.81	18.55	20.69	40.77	28.95	26.43	45.43
2	0.37	0.36	0.1	0.04	-0.01	0.1	29.53	26.79	26.31	15.89	48.15	34.94	42.04	18.54	20.72	40.88	29.02	26.48	45.46
3	0.37	0.37	0.1	0.01	0	0.18	29.537	26.8	26.35	15.89	48.2	40.94	42.24	18.49	20.7	40.57	29.15	26.38	45.53
4	0.35	0.37	0.09	0	-0.03	0.11	29.529	26.76	26.49	15.93	48.23	35.11	40.76	18.44	20.75	40.1	29.37	26.26	45.74
5	0.36	0.38	0.1	0.04	0.01	0.17	29.53	26.78	26.41	15.9	48.24	34.59	41.96	18.47	20.71	40.19	29.24	26.15	45.62
6	0.37	0.38	0.11	0.05	-0.01	0.06	29.529	26.76	26.44	15.87	48.28	52.83	41.35	18.46	20.73	40.13	29.31	26.23	45.67
7	0.36	0.37	0.08	0.04	-0.01	0.08	29.537	26.85	26.59	15.92	47.92	34.25	39.24	18.45	20.83	39.66	29.44	26.21	45.73
8	0.35	0.37	0.09	0	-0.03	0.11	29.529	26.76	26.49	15.93	48.23	35.11	40.76	18.44	20.75	40.1	29.37	26.26	45.74
9	0.35	0.35	0.1	0.06	0	0.16	29.535	26.78	26.54	15.94	48.15	48.13	40.11	18.44	20.78	39.93	29.41	26.31	45.73
10	0.36	0.36	0.09	-0.01	-0.02	0.18	29.53	26.84	26.57	15.92	48.04	37.13	39.63	18.45	20.8	40.08	29.43	26.41	45.71
11	0.36	0.37	0.08	0.04	-0.01	0.08	29.537	26.85	26.59	15.92	47.92	34.25	39.24	18.45	20.83	39.66	29.44	26.21	45.73
12	0.33	0.34	0.09	0.01	0.01	0.11	29.53	26.96	26.82	16.01	47.7	47.35	40.97	18.44	20.98	39.12	29.77	26.33	45.4
13	0.36	0.36	0.09	-0.01	-0.01	0.09	29.537	26.84	26.63	15.9	47.79	35.5	38.85	18.43	20.85	39.56	29.45	26.23	45.71
14	0.36	0.37	0.09	0.01	-0.02	0.1	29.537	26.85	26.68	15.91	47.66	48.13	38.86	18.42	20.87	39.37	29.46	26.22	45.62
15	0.36	0.35	0.1	-0.01	-0.03	0.13	29.543	27	26.87	16.07	47.96	36.44	41.53	18.44	21.03	39.18	30.04	26.37	45.45
16	0.36	0.36	0.1	-0.02	-0.02	0.1	29.543	26.87	26.71	15.92	47.58	36.23	39.27	18.44	20.9	39.22	29.48	26.24	45.52
17	0.34	0.35	0.07	-0.01	0	0.14	29.537	26.88	26.74	15.94	47.56	44	39.71	18.41	20.91	38.94	29.51	26.11	45.49
18	0.35	0.34	0.11	-0.02	0	0.13	29.537	26.91	26.76	15.97	47.58	37.93	40.1	18.44	20.93	38.99	29.56	26.16	45.47
19	0.35	0.36	0.09	-0.02	0	0.18	29.543	26.93	26.78	15.95	47.61	37.37	40.44	18.44	20.95	39.23	29.63	26.35	45.45
20	0.36	0.38	0.09	0.03	0.01	0.12	29.541	27.06	26.91	16.16	48.19	34.8	41.92	18.48	21.09	39.81	30.32	26.76	45.54
21	0.37	0.36	0.12	-0.01	0.02	0.15	29.543	26.96	26.8	15.98	47.68	43.43	40.74	18.44	20.96	39.08	29.71	26.31	45.4
22	0.33	0.34	0.09	0.01	0.01	0.11	29.53	26.96	26.82	16.01	47.7	47.35	40.97	18.44	20.98	39.12	29.77	26.33	45.4
23	0.36	0.35	0.09	0.02	-0.01	0.1	29.54	26.97	26.83	15.98	47.81	61.15	41.18	18.47	21	39.28	29.86	26.47	45.4
24	0.34	0.35	0.09	0	-0.01	0.14	29.537	27.03	26.86	16.04	47.88	36.64	41.36	18.47	21.02	39.33	29.95	26.5	45.45
25	0.36	0.35	0.1	-0.01	-0.03	0.13	29.543	27	26.87	16.07	47.96	36.44	41.53	18.44	21.03	39.18	30.04	26.37	45.45
26	0.35	0.36	0.1	-0.02	0.01	0.08	29.535	27.02	26.9	16.09	48.03	34.75	41.68	18.45	21.05	39.48	30.13	26.57	45.49
27	0.36	0.36	0.1	-0.01	-0.01	0.08	29.544	27.05	26.9	16.16	48.13	37.05	41.85	18.47	21.07	39.6	30.23	26.65	45.48
28	0.36	0.38	0.09	0.03	0.01	0.12	29.541	27.06	26.91	16.16	48.19	34.8	41.92	18.48	21.09	39.81	30.32	26.76	45.54
29	0.36	0.37	0.09	0.02	0	0.12	29.541	27.06	26.94	16.16	48.3	36.5	42.05	18.47	21.11	39.81	30.41	26.8	45.63
30	0.34	0.35	0.09	0.03	-0.01	0.12	29.527	27.07	26.92	16.2	48.35	44.17	42.15	18.49	21.14	39.9	30.49	26.75	45.69
31	0.35	0.35	0.09	0.03	0	0.15	29.493	27.12	26.95	16.24	48.4	35.57	42.22	18.48	21.14	39.83	30.58	26.81	45.74
32	0.35	0.35	0.11	0.01	-0.02	0.17	29.541	27.12	26.95	16.24	48.46	70.97	42.31	18.5	21.17	40.16	30.67	26.98	45.77
33	0.37	0.37	0.1	-0.03	-0.04	0.1	29.555	27.08	26.96	16.25	48.55	36.82	42.4	18.51	21.18	40.16	30.75	26.96	45.86
34	0.37	0.36	0.11	-0.01	-0.01	0.14	29.524	27.11	26.98	16.26	48.61	43.59	42.5	18.52	21.19	40.17	30.83	26.93	45.91
35	0.35	0.35	0.09	-0.03	-0.01	0.21	29.541	27.12	27	16.31	48.67	34.92	42.65	18.55	21.2	40.15	30.92	27.03	45.93
36	0.35	0.36	0.11	-0.02	-0.02	0.15	29.547	27.08	27	16.33	48.75	34.83	42.77	18.54	21.23	40.21	31	27.09	45.96
37	0.36	0.36	0.1	0	0.01	0.11	29.538	27.14	27	16.32	48.82	35.3	42.92	18.56	21.26	40.54	31.09	27.29	46.06
38	0.36	0.38	0.11	0.01	0	0.13	29.538	27.16	27.01	16.36	48.9	47.87	42.99	18.57	21.28	40.43	31.19	27.19	46.13
39	0.36	0.36	0.1	-0.01	0.01	0.16	29.537	27.18	27.03	16.38	49	46.37	43.09	18.58	21.3	40.5	31.28	27.22	46.21
40	0.35	0.37	0.1	0.01	0.01	0.15	29.54	27.13	27.06	16.4	49.08	37.16	43.21	18.58	21.31	40.45	31.37	27.26	46.3
41	0.37	0.37	0.12	-0.03	-0.01	0.12	29.541	27.14	27.04	16.43	49.11	43.18	43.25	18.58	21.33	40.55	31.44	27.34	46.34
42	0.36	0.37	0.1	-0.02	-0.03	0.09	29.546	27.18	27.06	16.45	49.23	37.92	43.3	18.57	21.34	40.64	31.54	27.4	46.4
43	0.36	0.37	0.12	0.04	-0.01	0.13	29.549	27.18	27.07	16.52	49.27	35.31	43.37	18.58	21.37	40.81	31.63	27.44	46.43
44	0.36	0.38	0.1	0.01	0	0.15	29.537	27.21	27.08	16.55	49.3	41.01	43.42	18.63	21.4	41.16	31.72	27.71	46.53
45	0.34	0.36	0.1	0	-0.04	0.17	29.541	27.23	27.07	16.55	49.38	74.6	43.45	18.65	21.41	40.92	31.8	27.56	46.62
46	0.34	0.35	0.1	-0.06	0	0.12	29.543	27.21	27.03	16.56	49.41	38.6	43.5	18.65	21.42	40.84	31.87	27.52	46.73
47	0.34	0.35	0.09	0	0.02	0.13	29.544	27.18	26.74	16.56	49.5	37.22	43.55	18.66	21.43	41.23	31.94	27.71	46.82
48	0.36	0.36	0.1	0.03	-0.01	0.12	29.54	26.98	25.62	16.56	49.49	34.11	43.63	18.67	21.43	41.27	32.02	27.74	46.84
49	0.36	0.37	0.1	0.01	-0.02	0.22	29.544	26.87	26.28	16.93	50.42	37.89	44.06	19.04	21.59	43.1	32.68	29.43	47.72
50	0.36	0.37	0.1	-0.02	-0.03	0.13	29.537	26.85	26.34	16.81	50.47	38.78	44.13	19.04	21.59	42.95	32.72	29.35	47.83
51	0.35	0.36	0.09	0.01	-0.02	0.17	29.549	26.85	26.42	16.87	50.55	36.48	44.21	19.01	21.61	43.12	32.77	29.44	47.87
52	0.35	0.35	0.09	0.01	-0.02	0.12	29.558	26.87	26.44	16.86	50.63	37.61	44.25	19.01	21.65	42.97	32.82	29.37	47.86
53	0.37	0.37	0.09	-0.04	-0.01	0.16	29.543	26.89	26.47	16.9	50.69	37	44.15	19.04	21.66	42.91	32.86	29.41	47.94
54	0.35	0.35	0.09	0.01	-0.06	0.02	29.541	26.89	26.53	16.91	50.79	37.87	44.11	19.01	21.67	43.11	32.9	29.6	47.96
55	0.35	0.36	0.1	-0.01	-0.03	0.09	29.554	26.89	26.57	16.93	50.89	37.95	44.16	19.04	21.7	43.29	32.93	29.59	47.98
56	0.35	0.35	0.1	0.01	-0.03	0.16	29.538	26.88	26.62	16.96	50.95	38.64	44.13	19.02	21.72	43.12	32.95	29.46	48.05
57	0.35	0.34	0.1	-0.03	-0.05	0.12	29.54	26.96	26.65	17	51.08	38.53	43.5	19.04	21.74	43.14	32.97	29.52	48.1
58	0.36	0.37	0.11	-0.03	-0.02	0.16	29.549	27.01	26.72	16.99	51.11	35.81	42.51	19.07	21.76	43.33	32.95	29.69	48.19
59	0.34	0.36	0.09	-0.04	-0.03	0.05	29.551	27.01	26.72	17.04	51.07	39.34	40.5	19.07	21.79	43.12	32.89	29.56	48.23
60	0.34	0.36	0.08	-0.04	-0.02	0.17	29.543	27.02	26.66	17	50.61	39.45	37.84	19.08	21.84	42.33	32.58	29.22	48.14

Count	Evap Exit Wetbulb	EvapFanOutStatPres	EvapNozDiffPres	EvapNozStatPres	EvapBarPres	EvapDryInletTemp	EvapWetInletTemp	EvapNozzleTemp	EvapRhoInlet	EvapRhoOutlet	EvapRhoNozzle	EvapCFMNozzle	EvapCFMOutlet	EvapSCFMNozzle	CondFanOutStatPres	CondNozDiffPres	CondNozStatPres	CondBarPres	CondDryInletTemp
	C	in/H2O	in/H2O	in/H2O	in/Hg	C	C	C	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	in/Hg	C
1	14.55	0.362	0.096	0.362	29.53	80.3	69.2	65.4	0.07195	0.07474	0.07404	NaN	NaN	NaN	-0.002	0.135	-0.001	29.53	105.4
2	14.57	0.358	0.096	0.358	29.53	80.2	69.3	65.4	0.07196	0.07474	0.07404	430.9	426.9	430.9	-0.005	0.133	-0.003	29.53	105.6
3	14.57	0.36	0.096	0.36	29.53	80.3	69.3	65.3	0.07196	0.07474	0.07406	430.9	426.9	430.9	-0.002	0.136	-0.002	29.53	105
4	14.65	0.359	0.098	0.359	29.53	80.2	69.4	65.2	0.07196	0.07473	0.07406	434.6	430.7	434.6	-0.003	0.131	-0.002	29.53	104.2
5	14.6	0.361	0.095	0.361	29.53	80.2	69.3	65.3	0.07196	0.07474	0.07406	428.6	424.7	428.6	-0.004	0.135	-0.005	29.53	104.3
6	14.64	0.36	0.096	0.36	29.54	80.2	69.3	65.2	0.07196	0.07474	0.07406	431.7	427.8	431.7	-0.002	0.135	-0.002	29.54	104.2
7	14.74	0.361	0.096	0.361	29.53	80.3	69.5	65.2	0.07194	0.07473	0.07407	431.5	427.7	431.5	0.003	0.139	0.003	29.53	103.4
8	14.65	0.359	0.098	0.359	29.53	80.2	69.4	65.2	0.07196	0.07473	0.07406	434.6	430.7	434.6	-0.003	0.131	-0.002	29.53	104.2
9	14.7	0.353	0.095	0.353	29.54	80.2	69.4	65.2	0.07195	0.07473	0.07407	428	424.2	428	-0.001	0.133	-0.001	29.54	103.9
10	14.71	0.355	0.094	0.355	29.53	80.3	69.4	65.2	0.07194	0.07472	0.07406	427.1	423.3	427.1	-0.002	0.136	-0.002	29.53	104.2
11	14.74	0.361	0.096	0.361	29.53	80.3	69.5	65.2	0.07194	0.07473	0.07407	431.5	427.7	431.5	0.003	0.139	0.003	29.53	103.4
12	14.84	0.342	0.094	0.342	29.54	80.5	69.8	65.2	0.07191	0.0747	0.07406	426.5	422.9	426.5	-0.007	0.136	-0.007	29.54	102.4
13	14.75	0.358	0.095	0.358	29.54	80.3	69.5	65.2	0.07194	0.07473	0.07407	429.5	425.7	429.5	0.001	0.132	0.002	29.54	103.2
14	14.75	0.362	0.097	0.362	29.54	80.3	69.6	65.1	0.07195	0.07473	0.07408	432.5	428.7	432.5	-0.002	0.135	0	29.54	102.9
15	14.92	0.341	0.093	0.341	29.54	80.6	69.8	65.2	0.07191	0.07469	0.07407	424.2	420.7	424.2	0	0.133	0.002	29.54	102.5
16	14.76	0.356	0.096	0.356	29.54	80.4	69.6	65.2	0.07194	0.07473	0.07406	430.6	426.8	430.6	0.004	0.13	0.004	29.54	102.6
17	14.77	0.347	0.094	0.347	29.53	80.4	69.6	65.1	0.07193	0.07471	0.07406	427.2	423.4	427.2	-0.001	0.131	-0.001	29.53	102.1
18	14.79	0.358	0.095	0.358	29.54	80.4	69.7	65.2	0.07192	0.07471	0.07406	429.3	425.6	429.3	0.006	0.131	0.006	29.54	102.2
19	14.8	0.357	0.094	0.357	29.54	80.5	69.7	65.2	0.07192	0.07472	0.07406	425.8	422	425.8	0.001	0.132	0	29.54	102.6
20	15	0.36	0.097	0.36	29.54	80.7	70	65.2	0.07189	0.07466	0.07406	432.9	429.5	432.9	-0.006	0.138	-0.006	29.54	103.7
21	14.83	0.353	0.094	0.353	29.54	80.5	69.7	65.2	0.07191	0.07471	0.07406	427.3	423.6	427.3	-0.007	0.134	-0.008	29.54	102.4
22	14.84	0.342	0.094	0.342	29.54	80.5	69.8	65.2	0.07191	0.0747	0.07406	426.5	422.9	426.5	-0.007	0.136	-0.007	29.54	102.4
23	14.86	0.344	0.092	0.344	29.54	80.6	69.8	65.2	0.07191	0.07471	0.07406	420.8	417.2	420.8	-0.003	0.131	-0.002	29.54	102.7
24	14.89	0.349	0.092	0.349	29.54	80.6	69.8	65.2	0.0719	0.07469	0.07405	422.7	419	422.7	-0.005	0.13	-0.005	29.54	102.8
25	14.92	0.341	0.093	0.341	29.54	80.6	69.8	65.2	0.07191	0.07469	0.07407	424.2	420.7	424.2	0	0.133	0.002	29.54	102.5
26	14.93	0.345	0.093	0.345	29.54	80.6	69.9	65.2	0.0719	0.07467	0.07406	424.3	420.8	424.3	-0.006	0.135	-0.007	29.54	103.1
27	14.96	0.349	0.097	0.349	29.54	80.7	69.9	65.2	0.07188	0.07466	0.07405	433.5	429.9	433.5	-0.002	0.132	-0.003	29.54	103.3
28	15	0.36	0.097	0.36	29.54	80.7	70	65.2	0.07189	0.07466	0.07406	432.9	429.5	432.9	-0.006	0.138	-0.006	29.54	103.7
29	15.02	0.359	0.098	0.359	29.54	80.7	70	65.2	0.07188	0.07466	0.07405	435.4	431.9	435.4	0.001	0.138	-0.001	29.54	103.7
30	15.05	0.35	0.094	0.35	29.54	80.7	70.1	65.3	0.07188	0.07464	0.07404	425.9	422.5	425.9	0.004	0.132	0.003	29.54	103.8
31	15.06	0.346	0.094	0.346	29.54	80.8	70.1	65.3	0.07187	0.07463	0.07404	425.6	422.2	425.6	0.003	0.131	0.004	29.54	103.7
32	15.07	0.359	0.095	0.359	29.54	80.8	70.1	65.3	0.07186	0.07463	0.07404	428.5	425.1	428.5	-0.004	0.138	-0.003	29.54	104.3
33	15.14	0.359	0.094	0.359	29.54	80.8	70.1	65.3	0.07188	0.07464	0.07404	426.5	423.1	426.5	-0.004	0.131	-0.005	29.54	104.3
34	15.11	0.357	0.094	0.357	29.54	80.8	70.1	65.3	0.07187	0.07463	0.07404	426.6	423.2	426.6	0	0.129	0.001	29.54	104.3
35	15.16	0.344	0.094	0.344	29.54	80.8	70.2	65.4	0.07187	0.07462	0.07403	425.6	422.2	425.6	-0.002	0.134	-0.002	29.54	104.3
36	15.19	0.354	0.096	0.354	29.54	80.8	70.2	65.4	0.07187	0.07461	0.07403	430.4	427	430.4	0	0.139	-0.001	29.54	104.4
37	15.21	0.358	0.097	0.358	29.54	80.8	70.3	65.4	0.07186	0.07461	0.07402	434.1	430.6	434.1	0.001	0.129	0.002	29.54	105
38	15.25	0.365	0.097	0.365	29.54	80.9	70.3	65.4	0.07185	0.0746	0.07402	434.1	430.7	434.1	0	0.134	-0.003	29.54	104.8
39	15.26	0.351	0.096	0.351	29.54	80.9	70.3	65.4	0.07185	0.07459	0.07402	431.4	428.1	431.4	-0.001	0.133	-0.003	29.54	104.9
40	15.3	0.353	0.097	0.353	29.54	80.8	70.4	65.4	0.07186	0.07459	0.07402	433.3	430	433.3	-0.003	0.133	-0.004	29.54	104.8
41	15.32	0.356	0.098	0.356	29.54	80.9	70.4	65.4	0.07185	0.07458	0.07401	435	431.6	435	-0.002	0.134	-0.002	29.54	105
42	15.34	0.356	0.098	0.356	29.54	80.9	70.4	65.4	0.07185	0.07458	0.07402	434.9	431.7	434.9	0	0.13	0	29.54	105.2
43	15.37	0.353	0.098	0.353	29.54	80.9	70.5	65.5	0.07185	0.07456	0.07401	436	432.8	436	-0.001	0.135	-0.002	29.54	105.5
44	15.4	0.352	0.096	0.352	29.54	81	70.5	65.5	0.07184	0.07455	0.074	430.9	427.7	430.9	0.001	0.131	0.003	29.54	106.1
45	15.43	0.355	0.097	0.355	29.54	81	70.5	65.6	0.07183	0.07454	0.07399	432.4	429.2	432.4	-0.003	0.132	-0.002	29.54	105.7
46	15.46	0.346	0.096	0.346	29.54	81	70.6	65.6	0.07183	0.07454	0.07399	431.4	428.2	431.4	-0.001	0.131	-0.001	29.54	105.5
47	15.47	0.356	0.096	0.356	29.54	80.9	70.6	65.6	0.07185	0.07455	0.07399	430.7	427.5	430.7	-0.002	0.135	-0.002	29.54	106.2
48	15.49	0.356	0.097	0.356	29.54	80.6	70.6	65.6	0.07189	0.07454	0.07398	432.5	429.2	432.5	0.003	0.134	0.005	29.54	106.3
49	15.76	0.36	0.098	0.36	29.55	80.4	70.9	66.3	0.07192	0.07446	0.0739	435	431.7	435	-0.016	0.134	-0.017	29.55	109.6
50	15.79	0.356	0.098	0.356	29.55	80.3	70.9	66.2	0.07193	0.07448	0.0739	436.7	433.3	436.7	-0.008	0.128	-0.009	29.55	109.3
51	15.82	0.357	0.098	0.357	29.55	80.3	70.9	66.2	0.07193	0.07447	0.0739	435.8	432.5	435.8	-0.01	0.13	-0.011	29.55	109.6
52	15.88	0.357	0.098	0.357	29.55	80.3	71	66.2	0.07192	0.07447	0.0739	436.2	432.9	436.2	-0.008	0.13	-0.008	29.55	109.3
53	15.88	0.361	0.099	0.361	29.55	80.4	71	66.3	0.07192	0.07446	0.07389	438.3	435	438.3	-0.012	0.129	-0.011	29.55	109.2
54	15.91	0.35	0.097	0.35	29.55	80.4	71	66.2	0.07191	0.07445	0.07389	434.1	430.9	434.1	-0.018	0.135	-0.018	29.55	109.6
55	15.92	0.35	0.098	0.35	29.55	80.4	71.1	66.3	0.07191	0.07445	0.07389	436.5	433.2	436.5	-0.012	0.134	-0.012	29.55	109.9
56	15.98	0.347	0.097	0.347	29.55	80.4	71.1	66.3	0.07191	0.07443	0.07389	433.9	430.7	433.9	-0.013	0.133	-0.012	29.55	109.6
57	15.98	0.353	0.095	0.353	29.55	80.5	71.1	66.3	0.07189	0.07442	0.07388	429.5	426.4	429.5	-0.016	0.129	-0.017	29.55	109.6
58	16.01	0.355	0.097	0.355	29.55	80.6	71.2	66.3	0.07188	0.07443	0.07388	433.3	430.1	433.3	-0.019	0.134	-0.018	29.55	110
59	16.07	0.354	0.096	0.354	29.55	80.6	71.2	66.3	0.07188	0.07442	0.07388	430.4	427.4	430.4	-0.014	0.132	-0.013	29.55	109.6
60	16.08	0.353	0.096	0.353	29.55	80.6	71.3	66.3	0.07187	0.07442	0.07387	430.6	427.5	430.6	-0.012	0.133	-0.012	29.55	108.2

Table 27: Data from C-WM continued.

Count	CondWetInletTemp	CondNozzleTemp	CondRhoInlet	CondRhoOutlet	CondRhoNozzle	CondCFM Nozzle	CondCFM Outlet	CondSCFM Nozzle	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres
	C	C	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O
1	79.6	113.8	0.06864	0.06709	0.06761	131	132	131	0.002823	0.002613	0.135583
2	79.7	113.8	0.06862	0.06706	0.06761	1013.8	1022	1013.8	-0.000388	0.000822	0.130061
3	79.5	114	0.06869	0.06706	0.06759	1023.9	1032.1	1023.9	-0.00502	-0.003178	0.132076
4	79.3	114.3	0.06879	0.06705	0.06755	1007.4	1014.9	1007.4	-0.004384	-0.005094	0.137033
5	79.1	114.1	0.06878	0.06705	0.06758	1020.9	1029	1020.9	0.002677	0.001608	0.13209
6	79.2	114.2	0.06879	0.06704	0.06757	1019.7	1027.7	1019.7	-0.003436	-0.001741	0.131255
7	79.2	114.3	0.06888	0.06711	0.06755	1035.6	1042.4	1035.6	-0.001656	-0.000224	0.13187
8	79.3	114.3	0.06879	0.06705	0.06755	1007.4	1014.9	1007.4	-0.004384	-0.005094	0.137033
9	79.4	114.3	0.06882	0.06706	0.06755	1012.9	1020.3	1012.9	-0.00419	-0.003404	0.138646
10	79.5	114.3	0.06878	0.06708	0.06754	1024.4	1031.6	1024.4	-0.004046	-0.00348	0.136768
11	79.2	114.3	0.06888	0.06711	0.06755	1035.6	1042.4	1035.6	-0.001656	-0.000224	0.13187
12	79.4	113.7	0.06899	0.06714	0.06761	1024.7	1031.8	1024.7	-0.001492	-0.002319	0.133215
13	79.2	114.3	0.0689	0.06714	0.06755	1010.3	1016.5	1010.3	-0.01017	-0.010778	0.142084
14	79.2	114.1	0.06895	0.06716	0.06757	1022.1	1028.3	1022.1	-0.001474	-0.000857	0.13455
15	79.5	113.8	0.06898	0.0671	0.0676	1012.6	1020.2	1012.6	-0.003963	-0.005281	0.136323
16	79.2	113.9	0.06897	0.06717	0.06759	1002.9	1009.1	1002.9	-0.004237	-0.003572	0.134495
17	79	113.9	0.06904	0.06718	0.06759	1004	1010.2	1004	-0.005229	-0.00443	0.131558
18	79.1	113.8	0.06902	0.06718	0.0676	1006	1012.3	1006	-0.002946	-0.000819	0.137365
19	79.4	113.8	0.06896	0.06716	0.06759	1011.1	1017.6	1011.1	-0.004066	-0.003593	0.134844
20	80.2	114	0.06883	0.06703	0.06756	1031.5	1039.8	1031.5	-0.001906	-0.001924	0.13818
21	79.4	113.7	0.069	0.06715	0.0676	1016.2	1023.1	1016.2	-0.003496	-0.002926	0.137081
22	79.4	113.7	0.06899	0.06714	0.06761	1024.7	1031.8	1024.7	-0.001492	-0.002319	0.133215
23	79.6	113.7	0.06895	0.06712	0.0676	1005.3	1012.6	1005.3	-0.000144	0.000362	0.133651
24	79.7	113.8	0.06894	0.0671	0.06759	1000.9	1008.3	1000.9	-0.002596	-0.002428	0.135729
25	79.5	113.8	0.06898	0.0671	0.0676	1012.6	1020.2	1012.6	-0.003963	-0.005281	0.136323
26	79.8	113.9	0.0689	0.06706	0.06758	1020.9	1028.7	1020.9	-0.001491	-0.003158	0.13581
27	80	113.9	0.06887	0.06704	0.06757	1008.2	1016.2	1008.2	-0.001339	-0.001705	0.133738
28	80.2	114	0.06883	0.06703	0.06756	1031.5	1039.8	1031.5	-0.001906	-0.001924	0.13818
29	80.2	114.1	0.06882	0.067	0.06754	1031.3	1039.6	1031.3	-0.000598	-0.00192	0.132665
30	80.2	114.3	0.0688	0.067	0.06753	1010.4	1018.4	1010.4	-0.005379	-0.005521	0.132901
31	80.3	114.3	0.06881	0.06698	0.06751	1006.1	1014.2	1006.1	-0.003552	-0.002708	0.130934
32	80.6	114.4	0.06873	0.06696	0.0675	1033.4	1041.8	1033.4	-0.000953	0.000491	0.133303
33	80.5	114.5	0.06874	0.06695	0.06749	1007.5	1015.7	1007.5	0.000384	0.002841	0.133548
34	80.5	114.6	0.06874	0.06694	0.06748	997.8	1005.9	997.8	-0.005572	-0.004525	0.132821
35	80.6	114.7	0.06874	0.06692	0.06747	1018.4	1026.9	1018.4	-0.005632	-0.006158	0.134368
36	80.8	114.7	0.06872	0.06689	0.06746	1036.5	1045.2	1036.5	-0.00122	-0.003254	0.135921
37	81.1	114.9	0.06864	0.06687	0.06743	999	1007.3	999	-0.003449	-0.003289	0.135141
38	80.9	115	0.06867	0.06686	0.06742	1019.1	1027.6	1019.1	-0.000742	-0.002479	0.134054
39	81	115.2	0.06866	0.06684	0.06741	1014.7	1023.2	1014.7	-0.004861	-0.006418	0.135404
40	81.1	115.3	0.06866	0.06683	0.06738	1014.2	1022.7	1014.2	-2.70E-05	-0.00189	0.136784
41	81.2	115.4	0.06864	0.06681	0.06737	1017.1	1025.6	1017.1	0.004945	0.00601	0.130874
42	81.3	115.5	0.06862	0.06679	0.06736	1003.1	1011.6	1003.1	-0.004795	-0.005007	0.13446
43	81.4	115.6	0.06858	0.06678	0.06735	1024.6	1033.3	1024.6	0.003122	0.003386	0.130995
44	81.9	115.7	0.06849	0.06676	0.06732	1007.1	1015.5	1007.1	-0.000896	-0.001311	0.133472
45	81.6	115.9	0.06854	0.06675	0.0673	1012.4	1020.8	1012.4	-0.000998	-0.000461	0.133586
46	81.5	116.1	0.06856	0.06674	0.06728	1008.6	1016.7	1008.6	-0.004415	-0.003708	0.132523
47	81.9	116.3	0.06848	0.06672	0.06726	1025.1	1033.4	1025.1	-0.001205	-0.000283	0.131409
48	81.9	116.3	0.06847	0.06672	0.06725	1019.2	1027.4	1019.2	0.006733	0.006618	0.137391
49	85	117.9	0.068	0.06646	0.06699	1020.6	1028.9	1020.6	-0.018005	-0.017831	0.131
50	84.8	118.1	0.06803	0.06645	0.06698	1000.3	1008.2	1000.3	-0.016197	-0.016937	0.134796
51	85	118.2	0.068	0.06643	0.06696	1006	1014	1006	-0.017387	-0.017595	0.130291
52	84.9	118.2	0.06803	0.06642	0.06697	1008.1	1016.4	1008.1	-0.015876	-0.015614	0.131984
53	84.9	118.3	0.06804	0.0664	0.06695	1000.9	1009.2	1000.9	-0.00852	-0.008922	0.130959
54	85.3	118.3	0.06798	0.06637	0.06693	1025.6	1034.3	1025.6	-0.017893	-0.016682	0.131064
55	85.3	118.4	0.06796	0.06636	0.06694	1020.7	1029.6	1020.7	-0.009877	-0.007375	0.12852
56	85	118.5	0.068	0.06635	0.06693	1017.1	1025.9	1017.1	-0.012054	-0.011603	0.136068
57	85.1	118.6	0.06798	0.06631	0.06691	1002.4	1011.4	1002.4	-0.01598	-0.014532	0.12794
58	85.4	118.7	0.06794	0.0663	0.06688	1023.8	1032.8	1023.8	-0.015707	-0.015996	0.137347
59	85.2	118.8	0.06799	0.06632	0.06688	1014.9	1023.6	1014.9	-0.014503	-0.013549	0.130116
60	84.6	118.7	0.06817	0.06642	0.06691	1017.1	1024.5	1017.1	-0.012541	-0.011574	0.127091

Count	Cond Nozzle Temp	Cond Coil Temp	Evap Coil Temp	Cond Airflow at Nozzle	Cond Airflow Standard	Barometric	IndoorDB	IndoorWB	EvapExitDB	EvapExitWB	OutdoorDB	OutdoorWB
	C	C	C	CFM	SCFM	in Hg	C	C	C	C	C	C
1	45.43174	0.357128	33.27544	131.339	118.3966	29.53183	26.80897	20.68877	15.89662	14.5389	40.77175	26.43177
2	45.45529	0.357454	37.24015	1001.894	903.1437	29.53347	26.78613	20.72626	15.89865	14.58086	40.85632	26.47018
3	45.52974	0.357058	34.89408	1009.819	910.0999	29.53443	26.79864	20.70068	15.89728	14.58359	40.58577	26.39
4	45.74168	0.359462	35.04663	1029.178	926.8757	29.53305	26.75159	20.75531	15.93407	14.63243	40.10399	26.26003
5	45.61524	0.359692	37.97025	1009.974	910.0528	29.53169	26.77479	20.70774	15.87229	14.59521	40.2003	26.14079
6	45.66477	0.354044	37.8509	1006.78	907.0921	29.53688	26.78026	20.73199	15.88479	14.63176	40.14709	26.23804
7	45.73082	0.359245	39.20451	1009.292	909.1027	29.53744	26.83085	20.82599	15.93234	14.74077	39.668	26.20727
8	45.74168	0.359462	35.04663	1029.178	926.8757	29.53305	26.75159	20.75531	15.93407	14.63243	40.10399	26.26003
9	45.72638	0.354358	37.32869	1035.249	932.4183	29.53688	26.79187	20.77867	15.91485	14.67794	39.94639	26.32035
10	45.70789	0.360772	36.8551	1028.119	926.0293	29.53727	26.85188	20.80005	15.92751	14.6943	40.06247	26.39171
11	45.73082	0.359245	39.20451	1009.292	909.1027	29.53744	26.83085	20.82599	15.93234	14.74077	39.668	26.20727
12	45.3974	0.33606	82.98409	1014.1	914.1804	29.53843	26.96763	20.97776	15.97257	14.84469	39.11705	26.32379
13	45.70571	0.354991	35.41173	1048.153	944.0227	29.53487	26.8614	20.84672	15.92779	14.74231	39.55569	26.20531
14	45.6225	0.356086	43.57545	1019.545	918.5035	29.53549	26.82677	20.86683	15.89848	14.7481	39.36208	26.21346
15	45.44437	0.353292	35.43988	1026.095	924.8179	29.53857	27.00937	21.02475	16.07082	14.92234	39.17643	26.37191
16	45.52559	0.352365	35.41322	1019.147	918.4806	29.53863	26.86116	20.89398	15.89513	14.76733	39.22317	26.21822
17	45.48808	0.344612	36.76367	1007.789	908.3204	29.53622	26.88136	20.91155	15.93646	14.78491	38.95388	26.10352
18	45.46898	0.349466	36.6322	1030.023	928.4058	29.53719	26.90508	20.92896	15.93647	14.78514	38.98805	26.15242
19	45.45216	0.355661	36.25333	1020.443	919.733	29.53821	26.93694	20.94821	15.93302	14.79948	39.22372	26.34521
20	45.53991	0.359247	72.22094	1033.429	930.9073	29.5372	27.06479	21.09329	16.13298	14.99674	39.79635	26.75273
21	45.39933	0.357555	77.25879	1028.956	927.4406	29.53479	26.96376	20.95987	15.98451	14.82185	39.09456	26.31797
22	45.3974	0.33606	82.98409	1014.1	914.1804	29.53843	26.96763	20.97776	15.97257	14.84469	39.11705	26.32379
23	45.4014	0.358116	38.63897	1015.852	915.6193	29.53687	26.96977	20.99461	15.99886	14.86713	39.27173	26.45862
24	45.445	0.357652	36.53699	1023.878	922.7216	29.53774	27.01564	21.02002	16.03625	14.89702	39.32878	26.49822
25	45.44437	0.353292	35.43988	1026.095	924.8179	29.53857	27.00937	21.02475	16.07082	14.92234	39.17643	26.37191
26	45.48742	0.334162	35.53062	1024.345	922.8699	29.53399	27.00448	21.04619	16.12206	14.93456	39.47375	26.56738
27	45.48384	0.345892	38.2523	1016.32	915.7944	29.53987	27.04534	21.0729	16.13519	14.95801	39.59708	26.65365
28	45.53991	0.359247	72.22094	1033.429	930.9073	29.5372	27.06479	21.09329	16.13298	14.99674	39.79635	26.75273
29	45.63247	0.357771	45.162	1012.513	911.7495	29.5363	27.05673	21.11261	16.15374	15.0156	39.82827	26.80122
30	45.69006	0.349167	48.79407	1013.451	912.5556	29.53827	27.06604	21.14468	16.20923	15.04172	39.88397	26.7334
31	45.73529	0.352455	35.20385	1005.909	905.6249	29.54003	27.09817	21.14382	16.20149	15.06465	39.83285	26.80606
32	45.77093	0.345642	39.24224	1015.196	913.7528	29.538	27.10298	21.16541	16.22511	15.07116	40.14503	26.96312
33	45.85619	0.363648	39.12719	1016.296	914.465	29.53652	27.10045	21.1812	16.2404	15.11487	40.17166	26.96076
34	45.90852	0.361655	38.18055	1013.483	911.9424	29.54127	27.09486	21.19038	16.28378	15.11715	40.15244	26.92837
35	45.92902	0.344868	50.34516	1019.555	917.2034	29.53966	27.11735	21.20387	16.29781	15.14482	40.16261	27.02549
36	45.96427	0.358481	35.03667	1025.628	922.4259	29.53706	27.11529	21.22995	16.32326	15.19012	40.2173	27.10403
37	46.05661	0.356795	35.34802	1022.814	919.5701	29.5379	27.12875	21.2616	16.33423	15.20495	40.54294	27.28095
38	46.12658	0.352249	37.60595	1018.694	915.7855	29.54022	27.16098	21.27592	16.35549	15.23995	40.43008	27.20602
39	46.20373	0.340851	43.07598	1024.039	920.2784	29.53767	27.14638	21.2966	16.39381	15.26007	40.49913	27.22042
40	46.30104	0.358121	41.84179	1029.431	924.8882	29.54051	27.13123	21.31318	16.40615	15.3008	40.45113	27.26349
41	46.34399	0.353276	36.93702	1006.749	904.3811	29.54047	27.15225	21.32606	16.42843	15.31916	40.55145	27.33009
42	46.39287	0.356778	73.4161	1020.718	916.738	29.54177	27.1865	21.34254	16.45407	15.3405	40.63759	27.41603
43	46.42521	0.355851	35.48086	1007.377	904.6508	29.53978	27.16566	21.37401	16.52404	15.36741	40.79283	27.43163
44	46.52136	0.357566	104.482	1017.209	913.0528	29.54072	27.21819	21.39246	16.54818	15.40156	41.16967	27.70646
45	46.61917	0.347453	40.98232	1017.769	913.3325	29.53972	27.23728	21.40787	16.55113	15.42881	40.94385	27.55608
46	46.72923	0.346229	37.02483	1013.799	909.5164	29.54119	27.22796	21.4201	16.55784	15.4481	40.84637	27.51199
47	46.81263	0.358008	36.36379	1009.652	905.4658	29.5409	27.17551	21.42449	16.56995	15.47349	41.21074	27.70793
48	46.83728	0.35364	37.37976	1032.713	926.0381	29.53996	26.96929	21.42907	16.54441	15.48109	41.26363	27.73143
49	47.7166	0.3499	37.55636	1009.998	902.2116	29.54799	26.84132	21.58925	16.88726	15.75895	43.11988	29.4556
50	47.82906	0.358769	38.75546	1024.86	915.1848	29.54631	26.85278	21.59145	16.85657	15.7853	42.951	29.33456
51	47.86688	0.351005	37.131	1007.45	899.5261	29.54772	26.83947	21.61567	16.84918	15.81857	43.11283	29.43452
52	47.86334	0.357544	36.82798	1014.042	905.4362	29.54721	26.83801	21.65139	16.89949	15.85935	42.96486	29.36814
53	47.93982	0.335778	38.66959	1010.18	901.7443	29.54765	26.88012	21.65702	16.9077	15.87709	42.92825	29.4213
54	47.96351	0.356541	38.21591	1010.701	902.0056	29.54771	26.9105	21.66987	16.89587	15.91539	43.112	29.59287
55	47.97859	0.349796	36.96649	1000.677	893.1325	29.54943	26.87986	21.70333	16.90503	15.92087	43.27945	29.59588
56	48.04414	0.352443	38.25358	1030.104	919.2132	29.54746	26.888	21.72296	16.977	15.96359	43.1147	29.46027
57	48.09593	0.338821	38.35079	998.5604	890.9396	29.5492	26.95869	21.7372	17.00951	15.97913	43.12538	29.51293
58	48.18937	0.353408	37.23467	1035.296	923.2925	29.549	26.98578	21.76122	16.99377	16.00922	43.32675	29.68709
59	48.23359	0.344371	39.56505	1007.355	898.3538	29.54931	27.01034	21.79233	17.03771	16.06426	43.14808	29.56881
60	48.14685	0.355158	39.0163	995.2465	887.8829	29.54727	27.01695	21.83677	17.00053	16.08797	42.34037	29.22562

Count	EvapStatPres	ChamberDischargePres	EvapDiffPres	EvapNozzTemp	Airflow at Nozzle	Standard Air Flow	CondVoltage	CondPower	Cond Exit Dry-bulb	Cond Exit Wet-bulb	RH
	in/H2O	in/H2O	in/H2O	C	CFM	SCFM	V	kW	C	C	%
1	0.362539	0.357128	0.096284	18.54177	NaN	NaN	225.8328	2.437825	48.01891	28.9464	77.24957
2	0.363008	0.357454	0.0958	18.52691	430.5765	425.0833	225.8459	2.443653	48.14553	29.01618	77.23568
3	0.361321	0.357058	0.093965	18.50334	426.3529	420.9734	225.808	2.44632	48.21682	29.15084	77.24098
4	0.363205	0.359462	0.094702	18.46275	428.0349	422.6504	226.0605	2.44673	48.24394	29.36672	77.25937
5	0.364991	0.359692	0.094901	18.46955	428.4947	423.0943	225.9262	2.449706	48.24585	29.23769	77.25882
6	0.360315	0.354044	0.09407	18.48475	426.5716	421.2351	225.966	2.450099	48.28044	29.31186	77.25753
7	0.364173	0.359245	0.094986	18.44031	428.6448	423.3315	226.1463	2.432499	47.90988	29.4429	77.25357
8	0.363205	0.359462	0.094702	18.46275	428.0349	422.6504	226.0605	2.44673	48.24394	29.36672	77.25937
9	0.35891	0.354358	0.097003	18.45528	433.2382	427.8433	226.0299	2.442928	48.14458	29.4047	77.26241
10	0.366549	0.360772	0.095939	18.44658	430.8147	425.4751	225.9541	2.439697	48.04611	29.42585	77.25772
11	0.364173	0.359245	0.094986	18.44031	428.6448	423.3315	226.1463	2.432499	47.90988	29.4429	77.25357
12	0.341666	0.33606	0.091629	18.419	420.9169	415.6847	226.4023	2.430072	47.72145	29.77144	77.20039
13	0.359531	0.354991	0.094114	18.45812	426.6833	421.3241	226.101	2.425169	47.77549	29.45028	77.25123
14	0.360736	0.356086	0.095739	18.42233	430.3728	425.0169	226.3131	2.419965	47.68179	29.4629	77.26142
15	0.359257	0.353292	0.09598	18.44689	430.9352	425.541	226.4268	2.443423	47.93704	30.04265	77.19839
16	0.355768	0.352365	0.097648	18.42793	434.6811	429.2972	226.3002	2.41621	47.57547	29.48093	77.23635
17	0.350023	0.344612	0.094595	18.426	427.7696	422.4304	226.2974	2.416136	47.55699	29.51012	77.22311
18	0.354573	0.349466	0.096052	18.4571	431.1064	425.6942	226.3507	2.417306	47.57076	29.56364	77.21006
19	0.361322	0.355661	0.095062	18.43048	428.8234	423.4974	226.1877	2.420023	47.62059	29.62984	77.20865
20	0.364365	0.359247	0.096637	18.46306	432.4553	426.9854	226.345	2.459847	48.2122	30.31526	77.23612
21	0.363733	0.357555	0.094643	18.44624	427.9029	422.5172	226.3809	2.42235	47.66172	29.70416	77.17425
22	0.341666	0.33606	0.091629	18.419	420.9169	415.6847	226.4023	2.430072	47.72145	29.77144	77.20039
23	0.36305	0.358116	0.097118	18.44831	433.5158	428.0729	226.3591	2.432831	47.8011	29.85689	77.20918
24	0.364534	0.357652	0.095993	18.44568	430.9641	425.5662	226.3661	2.438841	47.87268	29.95105	77.22987
25	0.359257	0.353292	0.09598	18.44689	430.9352	425.541	226.4268	2.443423	47.93704	30.04265	77.19839
26	0.339629	0.334162	0.089519	18.44202	416.0394	410.7534	226.4876	2.44772	48.03831	30.13298	77.24698
27	0.350732	0.345892	0.094534	18.45012	427.6402	422.2818	226.4329	2.454007	48.1339	30.22622	77.24953
28	0.364365	0.359247	0.096637	18.46306	432.4553	426.9854	226.345	2.459847	48.2122	30.31526	77.23612
29	0.361491	0.357771	0.096004	18.46859	431.0325	425.5507	226.43	2.462633	48.26235	30.40295	77.25544
30	0.354649	0.349167	0.09401	18.48633	426.4856	421.0469	226.5085	2.461929	48.31708	30.49187	77.25633
31	0.356813	0.352455	0.097225	18.48107	433.7839	428.2895	226.552	2.467552	48.40293	30.57849	77.26219
32	0.351536	0.345642	0.091279	18.50192	420.1817	414.7932	226.3679	2.46997	48.44067	30.66524	77.26225
33	0.369039	0.363648	0.097768	18.50844	435.0556	429.4513	226.4043	2.473886	48.54849	30.75193	77.2581
34	0.366547	0.361655	0.097538	18.497	434.498	428.9815	226.3417	2.478255	48.60583	30.82994	77.26259
35	0.350491	0.344868	0.093796	18.53986	426.0325	420.5225	226.3072	2.481868	48.65477	30.91866	77.26024
36	0.364549	0.358481	0.098937	18.55848	437.7249	431.9969	226.4242	2.488011	48.73519	30.99904	77.26259
37	0.362178	0.356795	0.099042	18.55645	437.9594	432.2317	226.467	2.492252	48.81656	31.09269	77.26259
38	0.356955	0.352249	0.096668	18.55441	432.6	426.9753	226.6199	2.498538	48.89963	31.19047	77.26259
39	0.346489	0.340851	0.09468	18.56146	428.1078	422.4755	226.5681	2.502796	49.00793	31.27219	77.26259
40	0.364418	0.358121	0.093688	18.57246	425.8109	420.2453	226.3726	2.510579	49.06761	31.36282	77.26259
41	0.359368	0.353276	0.096129	18.56833	431.3944	425.7512	226.3904	2.513572	49.13374	31.43983	77.26259
42	0.361945	0.356778	0.095983	18.58478	431.0626	425.4203	226.316	2.518704	49.219	31.53735	77.26259
43	0.361512	0.355851	0.095404	18.60867	429.7831	424.0799	226.5417	2.52161	49.27355	31.62605	77.26259
44	0.362808	0.357566	0.096714	18.62138	432.7635	427.0153	226.4197	2.522641	49.32524	31.71495	77.26259
45	0.352689	0.347453	0.093863	18.64928	426.2905	420.5625	226.4737	2.525243	49.37768	31.79721	77.26259
46	0.351731	0.346229	0.093918	18.66323	426.4216	420.6861	226.4959	2.529613	49.41844	31.86541	77.26259
47	0.362636	0.358008	0.096994	18.67207	433.4395	427.5945	226.4991	2.531685	49.49351	31.93645	77.26259
48	0.358657	0.35364	0.096034	18.68263	431.2926	425.4199	226.278	2.532983	49.51973	32.01429	77.26259
49	0.35356	0.3499	0.096395	19.03895	432.3471	425.9801	226.5411	2.583409	50.42376	32.67282	77.26259
50	0.364936	0.358769	0.097179	19.04373	434.1354	427.7195	226.4514	2.5908	50.46422	32.72344	77.26259
51	0.356204	0.351005	0.096359	19.02068	432.2589	425.9072	226.6137	2.595597	50.52914	32.76889	77.26259
52	0.363883	0.357544	0.096842	19.01669	433.3569	426.9807	226.4328	2.60105	50.62189	32.82125	77.26259
53	0.340259	0.335778	0.09393	19.02316	426.7182	420.4194	226.711	2.607082	50.7087	32.86159	77.26259
54	0.361541	0.356541	0.098004	19.03151	435.9885	429.5578	226.7337	2.614267	50.78418	32.8934	77.26259
55	0.353622	0.349796	0.096786	19.03322	433.2373	426.8484	226.3937	2.619395	50.86464	32.93007	77.26259
56	0.357265	0.352443	0.098102	19.03559	436.2273	429.7568	226.5621	2.630009	50.94423	32.953	77.26259
57	0.344991	0.338821	0.095791	19.03975	430.9932	424.61	226.3965	2.633742	51.08728	32.96551	77.26259
58	0.359118	0.353408	0.096775	19.0621	433.2408	426.7973	226.3224	2.643492	51.14134	32.95575	77.26259
59	0.350444	0.344371	0.097206	19.07009	434.2271	427.7429	226.342	2.642931	51.07705	32.88709	77.26259
60	0.360233	0.355158	0.096269								

Count	Evap Disch Temp	Cooling Capacity	Total Cooling Capacity	Sensible Cooling Capacity	Latent Cooling Capacity	Duct Loss Correction	Total Cooling Capacity Cond Side	Corrected Total Cooling Capacity	Corrected Sensible Cooling Capacity	Sensible Cooling Capacity Cond Side
	C	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr
1	33.0003	2363218	2363058	1417550	945508	159.9	-5586.6	2363218	1417710	-6558.856
2	33.0003	15900.9	15740.47	9393.684	6346.785	160.4	12720.3	15900.9	9554.11	5133.125
3	33.0003	15477.84	15319.44	9244.816	6074.622	158.4	14268.8	15477.84	9403.219	5595.827
4	33.0003	15583.34	15428.96	9198.47	6230.49	154.4	17142.4	15583.34	9352.854	6492.351
5	33.0003	15646.6	15491.43	9333.736	6157.691	155.2	17342.1	15646.6	9488.909	6536.049
6	33.0003	15777.39	15622.47	9409.506	6212.961	154.9	16943.3	15777.39	9564.429	6533.862
7	33.0003	15588.46	15438.19	9285.322	6152.872	150.3	18418	15588.46	9435.588	6747.02
8	33.0003	15583.34	15428.96	9198.47	6230.49	154.4	17142.4	15583.34	9352.854	6492.351
9	33.0003	15612.06	15458.86	9296.803	6162.06	153.2	17434.1	15612.06	9449.996	6828.6
10	33.0003	15534.85	15381.44	9251.461	6129.983	153.4	17081.8	15534.85	9404.868	6434.634
11	33.0003	15588.46	15438.19	9285.322	6152.872	150.3	18418	15588.46	9435.588	6747.02
12	33.0003	15804.85	15660.29	9400.021	6260.265	144.6	20857.2	15804.85	9544.583	7696.92
13	33.0003	15812.81	15663.69	9417.697	6245.997	149.1	19333.4	15812.81	9566.816	7165.103
14	33.0003	15668.55	15520.94	9288.211	6232.732	147.6	19186.2	15668.55	9435.813	7327.501
15	33.0003	15841.09	15696.42	9388.012	6308.413	144.7	22729	15841.09	9532.676	7935.158
16	33.0003	15757.57	15611.16	9379.177	6231.987	146.4	19410.7	15757.57	9525.586	7421.956
17	33.0003	15564.32	15420.4	9229.311	6191.087	143.9	20196.8	15564.32	9373.237	7627.727
18	33.0003	15715.66	15571.61	9305.213	6266.397	144	20146.7	15715.66	9449.258	7549.309
19	33.0003	15829.25	15683.47	9390.647	6292.823	145.8	19606.2	15829.25	9536.43	7372.292
20	33.0003	15945.79	15796.34	9422.594	6373.745	149.4	22435.9	15945.79	9572.04	7244.231
21	33.0003	16017.3	15872.65	9511.721	6360.924	144.7	20168.6	16017.3	9656.378	7532.487
22	33.0003	15804.85	15660.29	9400.021	6260.265	144.6	20857.2	15804.85	9544.583	7696.92
23	33.0003	16008.02	15862.21	9517.381	6344.834	145.8	20665.4	16008.02	9663.186	7527.916
24	33.0003	15870.79	15724.94	9402.376	6322.564	145.9	20892.7	15870.79	9548.23	7446.882
25	33.0003	15841.09	15696.42	9388.012	6308.413	144.7	22729	15841.09	9532.676	7935.158
26	33.0003	15555.33	15408.38	9147.427	6260.957	146.9	22164.2	15555.33	9294.368	7596.24
27	33.0003	15898.63	15750.79	9334.697	6416.098	147.8	22035.6	15898.63	9482.535	7323.779
28	33.0003	15945.79	15796.34	9422.594	6373.745	149.4	22435.9	15945.79	9572.04	7244.231
29	33.0003	15863.6	15713.81	9356.637	6357.172	149.8	22797.4	15863.6	9506.427	7244.689
30	33.0003	15649.74	15500.08	9153.244	6346.838	149.7	23913.4	15649.74	9302.897	7143.406
31	33.0003	15546.52	15397.16	9143.272	6253.884	149.4	23991.5	15546.52	9292.636	7284.222
32	33.0003	15873.84	15722.08	9337.844	6384.236	151.8	24150.7	15873.84	9489.607	7049.931
33	33.0003	15744.85	15592.69	9242.113	6350.578	152.2	24485.6	15744.85	9394.276	6918.803
34	33.0003	15730.63	15579.07	9214.406	6364.659	151.6	25523.6	15730.63	9365.967	7136.08
35	33.0003	15685.1	15533.23	9223.88	6309.346	151.9	25454.4	15685.1	9375.754	7140.383
36	33.0003	15758.78	15606.64	9247.208	6359.436	152.1	25210	15758.78	9399.345	7017.465
37	33.0003	15737.22	15582.39	9216.339	6366.049	154.8	25478.4	15737.22	9371.173	6838.979
38	33.0003	15750.12	15596.53	9207.516	6389.015	153.6	27158	15750.12	9361.1	7361.026
39	33.0003	15905.2	15751.18	9265.839	6485.339	154	27813.4	15905.2	9419.862	7340.271
40	33.0003	15980.41	15826.58	9336.226	6490.355	153.8	27598.4	15980.41	9490.055	7262.365
41	33.0003	15810.49	15656.11	9216.751	6439.355	154.4	28106.1	15810.49	9371.138	7247.296
42	33.0003	15856.45	15701.57	9234.926	6466.647	154.9	27483.9	15856.45	9389.798	6931.256
43	33.0003	16111.35	15955.49	9327.727	6627.76	155.9	28842.1	16111.35	9483.589	6942.933
44	33.0003	15664.6	15505.56	9090.954	6414.61	159	27122	15664.6	9249.993	6199.769
45	33.0003	15999.47	15842.51	9309.143	6533.37	157	29379.3	15999.47	9466.105	6809.753
46	33.0003	15846.54	15690.25	9218.306	6471.943	156.3	30641.1	15846.54	9374.593	7087.558
47	33.0003	15758.73	15599.42	9115.617	6483.807	159.3	28970	15758.73	9274.925	6336.113
48	33.0003	15826.58	15665.83	9031.042	6634.787	160.8	30877.1	15826.58	9191.797	6779.316
49	33.0003	15264.13	15087.84	8421.652	6666.188	176.3	21619.3	15264.13	8597.942	4570.393
50	33.0003	15562.03	15387.38	8633.569	6753.806	174.7	24066.9	15562.03	8808.225	5216.115
51	33.0003	15696.45	15520.54	8690.751	6829.79	175.9	23041	15696.45	8866.662	4769.718
52	33.0003	15630.98	15456.25	8627.659	6828.596	174.7	23495.1	15630.98	8802.381	4934.093
53	33.0003	15668.81	15494.51	8686.398	6808.108	174.3	23131.7	15668.81	8860.698	5034.4
54	33.0003	15543.45	15367.73	8617.109	6750.625	175.7	22239.2	15543.45	8792.822	4911.701
55	33.0003	15585.29	15408.28	8602.051	6806.225	177	22602	15585.29	8779.067	4829.601
56	33.0003	15629.2	15453.78	8618.943	6834.841	175.4	24317.9	15629.2	8794.358	5325.89
57	33.0003	15768.93	15593.85	8691.254	6902.592	175.1	24261.2	15768.93	8866.337	5657.808
58	33.0003	15594.81	15418.27	8674.624	6743.645	176.5	22110.2	15594.81	8851.163	5137.746
59	33.0003	15432.7	15257.41	8585.461	6671.953	175.3	22693.5	15432.7	8760.748	5504.81
60										

Table 28: Data from A-DM testing conditions.

Count	Chamber Discharge Pres	External Static Pressure	Evap Diff Pres	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Barometric Pres	Indoor Temp	Indoor Temp Ref	Evap Exit Drybulb	Cond Exit Drybulb	Evap Coil Temp	Outdoor Temp Ref
	IWC	IWC	IWC	IWC	IWC	IWC	in. Hg	C	C	C	C	C	C
1	0.45	0.46	0.12	-0.05	-0.05	0.15	29.614	26.57	26.57	14.79	47.69	32.92	35.06
2	0.45	0.46	0.11	-0.07	-0.08	0.11	29.611	26.69	26.42	14.77	47.68	35.12	35.09
3	0.45	0.45	0.13	-0.02	-0.06	0.12	29.616	26.7	26.38	14.83	47.66	34.58	35.09
4	0.45	0.45	0.11	-0.01	-0.04	0.11	29.616	26.74	26.35	14.85	47.64	35.07	35.09
5	0.43	0.45	0.1	-0.05	-0.05	0.21	29.603	26.71	26.34	14.85	47.59	35.52	35.16
6	0.46	0.48	0.11	-0.02	-0.01	0.1	29.627	26.71	26.33	14.86	47.61	35.23	35.08
7	0.43	0.44	0.11	-0.04	-0.02	0.13	29.611	26.67	26.33	14.9	47.67	49.9	35.15
8	0.44	0.45	0.1	-0.05	-0.06	0.14	29.616	26.66	26.34	14.88	47.68	35.74	35.17
9	0.44	0.45	0.1	-0.05	-0.05	0.15	29.614	26.66	26.32	14.9	47.68	34.99	35.19
10	0.45	0.47	0.13	-0.08	-0.06	0.18	29.613	26.66	26.36	14.94	47.7	44.71	35.15
11	0.46	0.48	0.11	-0.04	-0.07	0.17	29.616	26.65	26.32	14.88	47.71	35.49	35.22
12	0.44	0.45	0.12	-0.04	-0.05	0.17	29.585	26.66	26.34	14.88	47.73	35.94	35.23
13	0.45	0.46	0.12	-0.06	-0.07	0.11	29.622	26.59	26.34	14.88	47.78	34.17	35.18
14	0.44	0.46	0.12	-0.01	-0.03	0.13	29.614	26.65	26.32	14.89	47.77	34.4	35.17
15	0.45	0.46	0.12	-0.02	-0.03	0.26	29.62	26.64	26.33	14.87	47.75	55.78	35.15
16	0.46	0.47	0.12	-0.08	-0.11	0.12	29.619	26.62	26.35	14.84	47.76	34.43	35.1
17	0.44	0.45	0.11	-0.07	-0.09	0.15	29.614	26.64	26.36	14.85	47.76	35.25	35.12
18	0.44	0.46	0.11	-0.03	-0.05	0.15	29.605	26.63	26.36	14.86	47.76	37.01	35.11
19	0.44	0.44	0.12	-0.03	-0.07	0.15	29.611	26.61	26.35	14.81	47.72	36.1	35.13
20	0.45	0.46	0.11	-0.05	-0.05	0.11	29.613	26.65	26.36	14.84	47.74	34.53	35.08
21	0.43	0.45	0.11	-0.07	-0.06	0.19	29.617	26.61	26.36	14.85	47.71	37.21	35.02
22	0.45	0.46	0.12	-0.04	-0.08	0.11	29.613	26.65	26.34	14.9	47.7	34.16	34.97
23	0.45	0.45	0.12	-0.04	-0.07	0.16	29.613	26.6	26.35	14.92	47.71	34.59	34.93
24	0.43	0.46	0.1	-0.03	-0.04	0.16	29.623	26.61	26.37	14.89	47.68	35.75	34.92
25	0.46	0.47	0.11	-0.05	-0.05	0.17	29.606	26.6	26.37	14.87	47.66	35.42	34.88
26	0.46	0.46	0.11	-0.02	-0.03	0.14	29.625	26.59	26.35	14.94	47.62	34.38	34.92
27	0.45	0.47	0.1	-0.05	-0.04	0.15	29.613	26.59	26.36	14.95	47.66	34.87	34.89
28	0.45	0.46	0.12	-0.04	-0.04	0.09	29.575	26.59	26.35	14.94	47.61	35.47	34.8
29	0.46	0.48	0.12	-0.02	-0.06	0.18	29.614	26.62	26.36	14.95	47.61	34.99	34.78
30	0.45	0.45	0.11	-0.03	-0.03	0.12	29.608	26.62	26.34	14.96	47.62	35.09	34.74
31	0.43	0.44	0.1	-0.04	0	0.21	29.613	26.62	26.37	14.98	47.6	35.12	34.71
32	0.45	0.47	0.12	-0.03	-0.07	0.16	29.614	26.64	26.34	15	47.55	35.09	34.73
33	0.45	0.46	0.12	-0.02	-0.02	0.22	29.625	26.64	26.36	14.97	47.56	35.65	34.72
34	0.45	0.46	0.12	-0.01	-0.07	0.08	29.606	26.65	26.35	15	47.52	34.64	34.74
35	0.44	0.45	0.12	-0.06	-0.08	0.12	29.622	26.64	26.35	15.04	47.52	34.62	34.73
36	0.45	0.46	0.12	-0.06	-0.08	0.06	29.625	26.62	26.36	15.06	47.49	35.86	34.75
37	0.44	0.47	0.11	-0.05	-0.03	0.19	29.614	26.61	26.35	15.02	47.52	34.68	34.72
38	0.44	0.44	0.12	-0.03	-0.05	0.1	29.608	26.61	26.35	15.05	47.51	35.17	34.75
39	0.44	0.44	0.11	0	-0.05	0.05	29.614	26.57	26.37	15.04	47.52	37.57	34.78
40	0.45	0.48	0.1	0.03	-0.01	0.03	29.61	26.59	26.39	15.06	47.52	36.73	34.78
41	0.44	0.44	0.12	-0.05	-0.05	0.16	29.634	26.62	26.36	15.07	47.5	42.13	34.74
42	0.44	0.46	0.12	-0.03	-0.03	0.11	29.62	26.59	26.36	15.07	47.53	35.84	34.78
43	0.46	0.47	0.11	-0.04	-0.03	0.22	29.608	26.56	26.38	15.1	47.54	38.69	34.77
44	0.45	0.45	0.12	-0.01	-0.05	0.18	29.613	26.56	26.36	15.11	47.52	35.06	34.77
45	0.45	0.46	0.12	-0.04	-0.07	0.13	29.613	26.59	26.38	15.13	47.49	37.97	34.8
46	0.44	0.44	0.11	-0.06	-0.07	0.17	29.619	26.58	26.38	15.1	47.53	35.42	34.81
47	0.45	0.46	0.13	-0.02	-0.07	0.14	29.622	26.57	26.39	15.12	47.54	36.12	34.85
48	0.46	0.47	0.12	-0.03	-0.06	0.09	29.625	26.57	26.4	15.09	47.55	35.5	34.84
49	0.44	0.46	0.11	-0.03	-0.05	0.22	29.613	26.57	26.39	15.13	47.55	35.56	34.85
50	0.42	0.43	0.1	-0.06	-0.1	0.2	29.613	26.6	26.4	15.13	47.56	35.22	34.87
51	0.44	0.44	0.11	-0.04	-0.01	0.13	29.611	26.62	26.41	15.17	47.59	35.73	34.86
52	0.46	0.48	0.12	-0.02	-0.01	0.21	29.608	26.64	26.4	15.17	47.58	36.27	34.88
53	0.44	0.46	0.12	-0.03	-0.02	0.19	29.599	26.63	26.39	15.19	47.6	35.04	34.9
54	0.45	0.46	0.12	-0.03	-0.03	0.21	29.613	26.6	26.41	15.13	47.62	35.81	34.91
55	0.44	0.46	0.12	-0.04	-0.03	0.1	29.614	26.62	26.41	15.14	47.6	35	34.94
56	0.43	0.45	0.11	-0.01	-0.04	0.21	29.606	26.59	26.4	15.12	47.63	35	34.94
57	0.45	0.45	0.11	0.13	0.08	0.09	29.628	26.6	26.41	15.09	47.62	34.33	34.98
58	0.45	0.47	0.12	0.08	0.06	0.06	29.619	26.59	26.4	14.75	47.64	39.17	34.98
59	0.45	0.45	0.11	0.15	0.11	0.13	29.616	26.51	26.4	14.61	47.66	35.29	34.98
60	0.43	0.44	0.12	0.1	0.12	0.18	29.61	26.56	26.39	14.5	47.68	41.69	35.03
61	0.45	0.46	0.11	0.15	0.14	0.11	29.614	26.6	26.42	14.42	47.7	33.2	35.04
62	0.44	0.45	0.11	0.13	0.13	0.13	29.608	26.59	26.41	14.43	47.68	34.55	35.05
63	0.43	0.45	0.11	0.16	0.13	0.08	29.614	26.58	26.4	14.32	47.7	36.56	35.06
64	0.45	0.47	0.12	0.17	0.16	0.22	29.619	26.56	26.43	14.34	47.72	39.2	35.13

Count	Evap Nozzle Temp	Indoor Wetbulb	Outdoor Temp	Cond Exit Wetbulb	Outdoor Wetbulb	Cond Nozzle Temp	Evap Exit Wetbulb	EvapFan OutStatPres	EvapNoz DiffPres	EvapNoz StatPres	EvapBarPres	EvapDryInletTemp
	C	C	C	C	C	C	C	in/H2O	in/H2O	in/H2O	in/Hg	C
1	17.73	20.93	35.38	27.69	24.09	42.88	15.34	0.451	0.116	0.451	29.61	79.8
2	17.75	20.93	35.36	27.67	24.07	42.89	15.42	0.446	0.115	0.446	29.61	80
3	17.72	20.92	35.33	27.69	24.05	42.9	15.39	0.444	0.113	0.444	29.61	80.1
4	17.7	20.94	35.31	27.62	24.04	42.96	15.47	0.455	0.114	0.455	29.61	80.1
5	17.71	20.94	35.31	27.63	24.03	42.93	15.17	0.447	0.115	0.447	29.61	80.1
6	17.69	20.92	35.31	27.71	24.03	42.91	15.11	0.451	0.116	0.451	29.61	80.1
7	17.65	20.91	35.31	27.64	24.02	42.87	15.08	0.445	0.115	0.445	29.61	80
8	17.66	20.9	35.32	27.68	24.02	42.82	15.02	0.448	0.114	0.448	29.61	80
9	17.7	20.91	35.32	27.59	24.01	42.77	15.11	0.444	0.113	0.444	29.61	80
10	17.68	20.92	35.33	27.44	24.01	42.82	15.04	0.454	0.116	0.454	29.61	80
11	17.67	20.89	35.32	27.53	24	42.89	14.78	0.443	0.115	0.443	29.61	80
12	17.69	20.9	35.32	27.38	23.99	42.88	15.03	0.447	0.111	0.447	29.61	80
13	17.66	20.88	35.34	27.42	24	42.94	14.85	0.448	0.116	0.448	29.61	79.9
14	17.68	20.9	35.33	27.49	23.98	42.92	14.9	0.45	0.114	0.45	29.61	80
15	17.67	20.91	35.32	27.48	23.97	42.95	14.86	0.45	0.117	0.45	29.61	80
16	17.69	20.9	35.34	27.42	23.97	42.97	15.15	0.453	0.115	0.453	29.61	79.9
17	17.67	20.9	35.33	27.44	23.97	42.94	15.06	0.445	0.114	0.445	29.61	79.9
18	17.7	20.9	35.33	27.27	23.96	42.92	15.14	0.444	0.114	0.444	29.61	79.9
19	17.67	20.9	35.34	27.39	23.95	42.95	14.76	0.442	0.113	0.442	29.61	79.9
20	17.68	20.9	35.33	27.34	23.94	43	14.55	0.438	0.114	0.438	29.61	80
21	17.69	20.89	35.33	27.23	23.93	43.03	14.93	0.437	0.113	0.437	29.61	79.9
22	17.69	20.88	35.32	27.28	23.93	43.1	15.01	0.444	0.116	0.444	29.61	80
23	17.7	20.9	35.29	27.26	23.91	43.05	14.8	0.444	0.113	0.444	29.61	79.9
24	17.68	20.88	35.27	27.15	23.88	43	15.46	0.446	0.114	0.446	29.61	79.9
25	17.67	20.87	35.25	27.15	23.88	43	14.79	0.453	0.115	0.453	29.61	79.9
26	17.69	20.87	35.23	27.14	23.86	42.98	15.05	0.456	0.117	0.456	29.61	79.9
27	17.67	20.86	35.22	26.96	23.85	43.04	15.2	0.446	0.112	0.446	29.61	79.9
28	17.68	20.86	35.21	27.04	23.84	43.01	15.25	0.449	0.112	0.449	29.61	79.9
29	17.69	20.87	35.21	26.82	23.83	43.01	14.62	0.453	0.123	0.453	29.61	79.9
30	17.69	20.88	35.18	26.69	23.82	43.02	15.22	0.444	0.114	0.444	29.61	79.9
31	17.71	20.88	35.16	26.64	23.8	42.99	15.23	0.44	0.115	0.44	29.61	79.9
32	17.69	20.86	35.15	26.58	23.79	42.99	15.2	0.448	0.117	0.448	29.61	80
33	17.71	20.85	35.14	26.49	23.78	42.97	15.06	0.435	0.112	0.435	29.61	79.9
34	17.69	20.87	35.12	26.5	23.76	42.98	14.77	0.45	0.113	0.45	29.61	80
35	17.71	21.36	35.14	26.41	23.77	43.04	14.77	0.446	0.115	0.446	29.61	79.9
36	17.75	21.09	35.13	26.41	23.76	43.08	15.12	0.44	0.115	0.44	29.61	79.9
37	17.73	20.95	35.12	26.67	23.75	43.09	16.4	0.436	0.113	0.436	29.61	79.9
38	17.73	20.9	35.11	26.52	23.74	43.05	15.83	0.442	0.111	0.442	29.61	79.9
39	17.72	20.91	35.14	26.49	23.75	42.98	15.97	0.449	0.114	0.449	29.61	79.8
40	17.72	20.87	35.13	26.55	23.74	43.02	16.02	0.46	0.117	0.46	29.61	79.9
41	17.72	20.89	35.14	26.89	23.73	43.04	15.48	0.442	0.114	0.442	29.61	79.9
42	17.73	20.88	35.15	27.88	23.74	43.03	15.03	0.437	0.114	0.437	29.61	79.9
43	17.74	20.87	35.13	27.75	23.72	42.96	15.07	0.446	0.114	0.446	29.61	79.8
44	17.75	20.85	35.13	27.52	23.72	42.97	14.77	0.448	0.114	0.448	29.61	79.8
45	17.76	20.87	35.12	27.44	23.71	43	14.87	0.45	0.114	0.45	29.61	79.9
46	17.77	20.87	35.15	27.63	23.71	43.02	14.79	0.433	0.112	0.433	29.61	79.8
47	17.74	20.88	35.16	27.68	23.71	43.04	15.89	0.446	0.116	0.446	29.61	79.8
48	17.77	20.85	35.16	27.49	23.7	43.02	15.67	0.449	0.115	0.449	29.61	79.8
49	17.76	20.84	35.15	27.52	23.7	42.92	15.39	0.441	0.115	0.441	29.61	79.8
50	17.75	20.85	35.18	27.41	23.71	42.94	15.92	0.434	0.113	0.434	29.61	79.9
51	17.78	20.9	35.2	27.35	23.71	43	15.67	0.443	0.116	0.443	29.61	79.9
52	17.78	20.92	35.21	27.25	23.71	42.95	15.86	0.449	0.117	0.449	29.61	79.9
53	17.78	20.91	35.21	27.11	23.71	42.96	15.02	0.444	0.114	0.444	29.61	79.9
54	17.78	20.89	35.22	26.99	23.71	42.96	15.53	0.442	0.114	0.442	29.61	79.9
55	17.78	20.9	35.22	27.5	23.7	42.93	15.24	0.448	0.116	0.448	29.61	79.9
56	17.78	20.86	35.24	27.46	23.7	42.98	14.98	0.451	0.116	0.451	29.61	79.9
57	17.77	20.86	35.24	27.2	23.7	43.05	15.36	0.45	0.116	0.45	29.61	79.9
58	17.78	20.87	35.26	26.86	23.7	43.07	15.21	0.455	0.115	0.455	29.61	79.9
59	17.78	20.88	35.29	27.14	23.72	43.11	15.02	0.452	0.115	0.452	29.61	79.7
60	17.79	20.85	35.3	27.34	23.71	43.1	15.24	0.435	0.113	0.435	29.61	79.8
61	17.79	20.86	35.32	26.87	23.72	43.11	15.1	0.442	0.115	0.442	29.61	79.9
62	17.78	20.86	35.33	27.02	23.72	43.1	15.18	0.444	0.113	0.444	29.61	79.8
63	17.75	20.88	35.34	26.96	23.72	43.13	14.88	0.451	0.116	0.451	29.61	79.9
64	17.76	20.85	35.39	26.75	23.73	43.2	14.85	0.442	0.114	0.442	29.61	79.8

Count	EvapWetInletTemp	EvapNozzleTemp	EvapRhoInlet	EvapRho Outlet	EvapRho Nozzle	EvapCFM Nozzle	EvapCFM Outlet	EvapSCFMNozzle	CondFan OutStatPres	CondNoz DiffPres	CondNoz StatPres	CondBar Pres	CondDryInletTemp
	C	C	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	in/Hg	C
1	69.7	63.9	0.07219	0.07523	0.07444	NaN	NaN	NaN	-0.048	0.149	-0.056	29.61	95.7
2	69.7	64	0.07216	0.07522	0.07444	471.1	466.2	471.1	-0.051	0.147	-0.058	29.61	96.2
3	69.7	63.9	0.07216	0.07522	0.07445	467.1	462.3	467.1	-0.038	0.145	-0.047	29.61	95.4
4	69.7	63.9	0.07215	0.07521	0.07446	469.2	464.5	469.2	-0.041	0.146	-0.048	29.61	95.3
5	69.7	63.9	0.07216	0.07521	0.07445	470.8	466.1	470.8	-0.043	0.146	-0.05	29.61	95.2
6	69.7	63.8	0.07216	0.07521	0.07446	472	467.3	472	-0.044	0.147	-0.051	29.61	95.5
7	69.6	63.8	0.07217	0.0752	0.07447	470.2	465.6	470.2	-0.04	0.146	-0.047	29.61	95.6
8	69.6	63.8	0.07217	0.07521	0.07447	469.6	465	469.6	-0.05	0.148	-0.057	29.61	95.9
9	69.6	63.8	0.07217	0.0752	0.07446	467.4	462.8	467.4	-0.05	0.144	-0.055	29.61	95.6
10	69.7	63.8	0.07218	0.0752	0.07446	472.3	467.7	472.3	-0.047	0.147	-0.053	29.61	95.1
11	69.6	63.8	0.07217	0.07521	0.07447	471.1	466.4	471.1	-0.046	0.147	-0.051	29.61	95.4
12	69.6	63.8	0.07217	0.0752	0.07445	463.2	458.6	463.2	-0.044	0.145	-0.051	29.61	94.8
13	69.6	63.8	0.07219	0.0752	0.07446	474	469.3	474	-0.044	0.143	-0.052	29.61	95.1
14	69.6	63.8	0.07217	0.0752	0.07446	469.2	464.6	469.2	-0.036	0.149	-0.045	29.61	95
15	69.6	63.8	0.07218	0.07521	0.07447	474.2	469.5	474.2	-0.043	0.146	-0.049	29.61	95.5
16	69.6	63.8	0.07218	0.07522	0.07446	470.7	466	470.7	-0.045	0.149	-0.052	29.61	95.2
17	69.6	63.8	0.07218	0.07522	0.07447	469.1	464.4	469.1	-0.044	0.149	-0.051	29.61	95.1
18	69.6	63.9	0.07218	0.07521	0.07446	469.2	464.5	469.2	-0.043	0.145	-0.05	29.61	95.3
19	69.6	63.8	0.07219	0.07523	0.07447	467.7	463	467.7	-0.043	0.151	-0.052	29.61	94.6
20	69.6	63.8	0.07218	0.07522	0.07446	467.9	463.2	467.9	-0.04	0.149	-0.048	29.61	94.8
21	69.6	63.8	0.07218	0.07521	0.07446	467.3	462.7	467.3	-0.053	0.145	-0.061	29.61	94.6
22	69.6	63.8	0.07217	0.0752	0.07446	472.3	467.6	472.3	-0.046	0.144	-0.053	29.61	94.4
23	69.6	63.9	0.07219	0.0752	0.07446	466.7	462.1	466.7	-0.045	0.15	-0.052	29.61	94.3
24	69.6	63.8	0.07218	0.0752	0.07446	468.5	463.9	468.5	-0.041	0.146	-0.049	29.61	94.8
25	69.6	63.8	0.07218	0.0752	0.07446	471.3	466.6	471.3	-0.051	0.148	-0.057	29.61	95.1
26	69.6	63.8	0.07219	0.07519	0.07446	474.9	470.3	474.9	-0.042	0.15	-0.051	29.61	94.9
27	69.5	63.8	0.07218	0.07518	0.07446	465.3	460.9	465.3	-0.043	0.147	-0.053	29.61	94.9
28	69.5	63.8	0.07219	0.07519	0.07446	464.6	460.1	464.6	-0.04	0.147	-0.047	29.61	95.2
29	69.6	63.8	0.07219	0.07519	0.07446	487.1	482.4	487.1	-0.037	0.146	-0.043	29.61	95.5
30	69.6	63.8	0.07218	0.07518	0.07446	468	463.4	468	-0.043	0.146	-0.051	29.61	95.5
31	69.6	63.9	0.07218	0.07517	0.07445	470	465.5	470	-0.04	0.149	-0.047	29.61	95.4
32	69.5	63.8	0.07218	0.07518	0.07446	475.3	470.8	475.3	-0.046	0.148	-0.054	29.61	95.6
33	69.5	63.9	0.07218	0.07518	0.07445	464.6	460.1	464.6	-0.042	0.151	-0.048	29.61	96.3
34	69.6	63.8	0.07217	0.07518	0.07446	467.6	463.2	467.6	-0.042	0.149	-0.05	29.61	96.6
35	70.4	63.9	0.07215	0.07513	0.07442	470.4	466	470.4	-0.042	0.145	-0.047	29.61	96.4
36	70	63.9	0.07217	0.07514	0.07443	470.2	465.7	470.2	-0.038	0.148	-0.046	29.61	96.2
37	69.7	63.9	0.07218	0.07517	0.07445	466.9	462.5	466.9	-0.042	0.151	-0.046	29.61	96.4
38	69.6	63.9	0.07218	0.07516	0.07444	463.5	459	463.5	-0.04	0.151	-0.049	29.61	96.4
39	69.6	63.9	0.07219	0.07516	0.07445	469.7	465.2	469.7	-0.041	0.151	-0.05	29.61	96.5
40	69.6	63.9	0.07219	0.07516	0.07445	474.7	470.2	474.7	-0.041	0.147	-0.051	29.61	96.5
41	69.6	63.9	0.07218	0.07516	0.07445	468.8	464.4	468.8	-0.038	0.151	-0.047	29.61	96.7
42	69.6	63.9	0.07219	0.07516	0.07445	468.1	463.7	468.1	-0.036	0.148	-0.042	29.61	96.6
43	69.6	63.9	0.07219	0.07515	0.07444	468.4	464	468.4	-0.039	0.147	-0.048	29.61	96.6
44	69.5	63.9	0.0722	0.07515	0.07444	468.8	464.4	468.8	-0.041	0.147	-0.045	29.61	96.6
45	69.6	64	0.07219	0.07515	0.07444	469.8	465.4	469.8	-0.037	0.149	-0.045	29.61	96.7
46	69.6	64	0.07219	0.07514	0.07443	465.7	461.3	465.7	-0.042	0.152	-0.05	29.61	96.4
47	69.6	63.9	0.07219	0.07514	0.07444	472.3	467.9	472.3	-0.039	0.146	-0.046	29.61	96.5
48	69.5	64	0.07219	0.07515	0.07444	470.9	466.5	470.9	-0.036	0.145	-0.046	29.61	96.6
49	69.5	64	0.07219	0.07514	0.07444	470.3	465.9	470.3	-0.037	0.151	-0.045	29.61	96.7
50	69.5	64	0.07219	0.07514	0.07444	467.5	463.1	467.5	-0.037	0.146	-0.044	29.61	96.9
51	69.6	64	0.07218	0.07514	0.07444	472.6	468.2	472.6	-0.034	0.147	-0.04	29.61	97.3
52	69.7	64	0.07217	0.07512	0.07443	474.9	470.5	474.9	-0.029	0.141	-0.037	29.61	96.8
53	69.6	64	0.07217	0.07513	0.07443	469.3	464.9	469.3	-0.027	0.146	-0.034	29.61	96.6
54	69.6	64	0.07218	0.07513	0.07443	468.7	464.3	468.7	-0.035	0.147	-0.04	29.61	96.6
55	69.6	64	0.07217	0.07513	0.07443	473.7	469.2	473.7	-0.021	0.152	-0.027	29.61	96.6
56	69.6	64	0.07219	0.07513	0.07443	472.7	468.3	472.7	-0.012	0.148	-0.022	29.61	96.2
57	69.6	64	0.07219	0.07516	0.07444	473.9	469.4	473.9	0.113	0.145	0.101	29.61	96.3
58	69.6	64	0.07219	0.07524	0.07444	471.1	466.1	471.1	0.114	0.154	0.099	29.61	96.2
59	69.6	64	0.0722	0.07527	0.07443	470.3	465.1	470.3	0.118	0.159	0.104	29.61	95.7
60	69.5	64	0.07219	0.0753	0.07443	466.1	460.7	466.1	0.131	0.155	0.119	29.61	94.9
61	69.5	64	0.07219	0.07533	0.07443	472	466.4	472	0.155	0.153	0.14	29.61	94.7
62	69.6	64	0.07219	0.07532	0.07443	467.4	461.9	467.4	0.138	0.153	0.129	29.61	94.3
63	69.6	63.9	0.07219	0.07535	0.07444	474	468.3	474	0.163	0.157	0.148	29.61	94.5
64	69.5	64	0.07219	0.07535	0.07444	468.7	463	468.7	0.16	0.155	0.15	29.61	94.3

Table 28: Data from A-DM continued.

Count	CondWetInletTemp	CondNozzleTemp	CondRhoInlet	CondRhoOutlet	CondRhoNozzle	CondCFMNozzle	CondCFMOutlet	CondSCFMNozzle	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres
	C	C	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O
1	77.1	107.8	0.07003	0.06789	0.0685	137.1	138.3	137.1	-0.04305	-0.05039	0.145158
2	77.4	107.8	0.06995	0.06787	0.06849	1057.5	1067.2	1057.5	-0.04725	-0.05588	0.144745
3	76.7	108	0.07007	0.06788	0.06849	1050.7	1060.1	1050.7	-0.04296	-0.05048	0.149825
4	76.6	107.9	0.07009	0.06787	0.06849	1055	1064.7	1055	-0.04417	-0.05178	0.143514
5	76.7	108	0.0701	0.06786	0.06849	1054.9	1064.6	1054.9	-0.04646	-0.05413	0.149984
6	76.8	108.1	0.07006	0.06786	0.06847	1060.4	1070	1060.4	-0.04526	-0.05125	0.145642
7	76.9	108.1	0.07004	0.06787	0.06847	1054.3	1063.7	1054.3	-0.04311	-0.0497	0.149589
8	77.1	108	0.07001	0.06787	0.06847	1064.5	1074	1064.5	-0.04379	-0.05095	0.145211
9	76.8	108.1	0.07005	0.06787	0.06847	1047.2	1056.5	1047.2	-0.04558	-0.05168	0.144366
10	76.4	108.2	0.07012	0.0679	0.06847	1060.6	1069.6	1060.6	-0.0463	-0.05233	0.145853
11	76.6	108.2	0.07008	0.06789	0.06847	1059.7	1068.8	1059.7	-0.04761	-0.05403	0.148029
12	76.3	108.2	0.07015	0.06789	0.06846	1051.5	1060.3	1051.5	-0.0448	-0.05033	0.148981
13	76.7	108.1	0.0701	0.06789	0.06847	1046.1	1055	1046.1	-0.03895	-0.04624	0.145055
14	76.6	108.2	0.07012	0.0679	0.06846	1066.1	1074.9	1066.1	-0.0463	-0.05411	0.146487
15	76.9	108.2	0.07005	0.0679	0.06846	1056.5	1065.1	1056.5	-0.04111	-0.04878	0.150995
16	76.7	108.1	0.0701	0.06791	0.06847	1066.9	1075.7	1066.9	-0.04377	-0.05229	0.145978
17	76.6	108.1	0.07011	0.06791	0.06848	1067.4	1076.4	1067.4	-0.0454	-0.05403	0.148604
18	76.8	108.1	0.07009	0.0679	0.06848	1051	1059.9	1051	-0.04373	-0.05085	0.146625
19	76.3	108	0.07018	0.0679	0.0685	1074.7	1084.2	1074.7	-0.04075	-0.04829	0.146692
20	76.5	108	0.07015	0.06789	0.0685	1066.9	1076.4	1066.9	-0.04369	-0.04993	0.143067
21	76.3	108	0.07019	0.06789	0.06849	1051.8	1061.1	1051.8	-0.04792	-0.05411	0.14503
22	76.2	108.1	0.07021	0.0679	0.06848	1049.3	1058.4	1049.3	-0.04401	-0.05044	0.146777
23	76.3	108.1	0.07022	0.0679	0.06848	1068.4	1077.6	1068.4	-0.04985	-0.05662	0.152511
24	76.5	108.2	0.07015	0.06787	0.06846	1055.1	1064.3	1055.1	-0.05033	-0.056	0.153097
25	76.8	108.1	0.07011	0.06787	0.06847	1061.2	1070.6	1061.2	-0.04398	-0.0525	0.143209
26	76.6	108	0.07014	0.06787	0.06848	1071.7	1081.4	1071.7	-0.04269	-0.0499	0.152949
27	76.6	108	0.07013	0.06786	0.06848	1058.2	1067.9	1058.2	-0.03921	-0.04793	0.145854
28	76.7	108.1	0.0701	0.06786	0.06847	1060	1069.7	1060	-0.03951	-0.04817	0.146124
29	76.9	108.2	0.07006	0.06785	0.06845	1054.3	1063.8	1054.3	-0.0447	-0.0517	0.141083
30	76.9	108.3	0.07005	0.06783	0.06845	1054.7	1064.4	1054.7	-0.04259	-0.05121	0.150852
31	76.8	108.2	0.07007	0.06783	0.06845	1066.1	1075.9	1066.1	-0.04613	-0.05428	0.146094
32	77	108.3	0.07005	0.06781	0.06844	1061.6	1071.3	1061.6	-0.04274	-0.05104	0.148742
33	77.4	108.3	0.06995	0.06781	0.06843	1074.2	1084.1	1074.2	-0.04564	-0.0534	0.147904
34	77.6	108.3	0.06991	0.06778	0.06843	1067.3	1077.4	1067.3	-0.04307	-0.04999	0.148285
35	77.3	108.3	0.06994	0.06779	0.06843	1053.9	1064	1053.9	-0.03209	-0.04085	0.141571
36	77.2	108.5	0.06996	0.06778	0.06842	1062.7	1072.7	1062.7	-0.04445	-0.05119	0.148666
37	77.3	108.4	0.06994	0.06777	0.06843	1073.1	1083.5	1073.1	-0.03364	-0.04178	0.146483
38	77.3	108.5	0.06994	0.06776	0.0684	1075.6	1085.9	1075.6	-0.04106	-0.04716	0.143033
39	77.4	108.5	0.06992	0.06775	0.0684	1074.9	1085.4	1074.9	-0.04264	-0.04968	0.146421
40	77.3	108.7	0.06992	0.06774	0.06838	1058.9	1068.9	1058.9	-0.04462	-0.05302	0.152068
41	77.5	108.9	0.0699	0.06774	0.06836	1074.9	1084.9	1074.9	-0.04173	-0.04911	0.149186
42	77.4	109	0.06991	0.06773	0.06836	1062.7	1072.5	1062.7	-0.03781	-0.04032	0.148222
43	77.4	109	0.06991	0.06772	0.06834	1058.7	1068.4	1058.7	-0.04462	-0.05295	0.145577
44	77.4	109.1	0.0699	0.06772	0.06834	1060.8	1070.5	1060.8	-0.0316	-0.03621	0.145543
45	77.5	109.1	0.0699	0.06772	0.06834	1066	1075.8	1066	-0.04199	-0.04904	0.144983
46	77.1	109.2	0.06994	0.06771	0.06834	1077.5	1087.4	1077.5	-0.04249	-0.05182	0.148207
47	77.4	109.2	0.06992	0.06771	0.06833	1055.5	1065.2	1055.5	-0.03058	-0.03844	0.145971
48	77.5	109.3	0.06991	0.06771	0.06832	1052.3	1061.8	1052.3	-0.03337	-0.04133	0.143553
49	77.6	109.2	0.06989	0.06769	0.06832	1074.5	1084.4	1074.5	-0.03805	-0.04632	0.145172
50	77.7	109.3	0.06986	0.0677	0.0683	1057.1	1066.5	1057.1	-0.03528	-0.04379	0.149667
51	77.9	109.5	0.06981	0.06769	0.06829	1060.8	1070.2	1060.8	-0.02996	-0.03941	0.150554
52	77.6	109.5	0.06987	0.06769	0.06828	1039.6	1048.7	1039.6	-0.0273	-0.03694	0.142346
53	77.5	109.5	0.0699	0.06771	0.06829	1058.4	1067.4	1058.4	-0.03017	-0.03903	0.152559
54	77.6	109.5	0.0699	0.06772	0.06828	1059.2	1068.1	1059.2	-0.03353	-0.03763	0.142197
55	77.4	109.5	0.0699	0.06773	0.06829	1077.1	1086	1077.1	-0.02515	-0.03116	0.151167
56	77.4	109.4	0.06996	0.06774	0.0683	1064.9	1073.7	1064.9	-0.00821	-0.01782	0.14747
57	77.5	109.3	0.06993	0.0678	0.06833	1054.9	1063.1	1054.9	0.119288	0.107442	0.151629
58	77.4	109.1	0.06996	0.06791	0.06836	1084.1	1091.2	1084.1	0.108825	0.097606	0.155999
59	77.1	108.9	0.07003	0.06797	0.06838	1103	1109.7	1103	0.116573	0.102188	0.154743
60	76.7	108.8	0.07013	0.06802	0.06841	1089.1	1095.4	1089.1	0.145013	0.131008	0.156392
61	76.7	108.6	0.07016	0.06809	0.06844	1082.2	1087.8	1082.2	0.149248	0.133951	0.16035
62	76.6	108.4	0.0702	0.06814	0.06846	1079.6	1084.7	1079.6	0.146702	0.132472	0.159798
63	76.7	108.1	0.07019	0.0682	0.0685	1095.4	1100.2	1095.4	0.148666	0.132492	0.160506
64	76.6	107.7	0.07021	0.06822	0.06854	1086.2	1091.3	1086.2	0.147935	0.13482	0.153065

Count	Cond Nozzle Temp	Cond Coil Temp	Evap Coil Temp	Cond Airflow at Nozzle	Cond Airflow Standard	Barometric	IndoorDB	IndoorWB	EvapExit DB	EvapExit WB	OutdoorDB
	C	C	C	CFM	SCFM	in Hg	C	C	C	C	C
1	42.09024	0.450918	32.62737	135.1005	123.3962	29.6122	26.57503	20.93202	14.76637	15.35909	35.38077
2	42.11789	0.43857	35.13354	1051.027	959.6992	29.60995	26.67134	20.92483	14.77947	15.37589	35.3571
3	42.19555	0.433819	34.74611	1069.442	976.6541	29.61421	26.71737	20.91794	14.8304	15.2582	35.3286
4	42.18897	0.446114	39.87328	1046.378	955.6679	29.6144	26.7577	20.93889	14.85522	15.46617	35.30715
5	42.2148	0.443283	34.90059	1070.104	977.0978	29.61167	26.7126	20.93836	14.85704	15.32012	35.30893
6	42.25383	0.447295	41.7772	1054.335	962.6799	29.61541	26.70793	20.91902	14.86548	15.12828	35.31354
7	42.26346	0.448819	35.02152	1068.772	975.7061	29.61173	26.67314	20.90843	14.89319	15.04565	35.3149
8	42.23736	0.449663	35.87208	1052.794	961.195	29.6137	26.65988	20.89662	14.88312	15.10745	35.31708
9	42.26147	0.441407	39.68594	1049.673	958.3807	29.61455	26.6499	20.91116	14.92162	15.02458	35.32232
10	42.32675	0.445744	35.40304	1055.143	963.3461	29.615	26.65447	20.92018	14.91256	14.83519	35.33155
11	42.31679	0.444537	35.01217	1063.14	970.5289	29.61337	26.65645	20.89423	14.88878	14.86954	35.31945
12	42.3442	0.447459	35.10077	1066.617	973.6494	29.61245	26.64915	20.89774	14.87099	14.60727	35.3227
13	42.27632	0.454085	34.15547	1052.21	960.6867	29.61451	26.6086	20.87792	14.88589	14.97655	35.34166
14	42.33541	0.453512	38.32731	1057.536	965.3881	29.61483	26.62775	20.89702	14.90839	14.81991	35.33329
15	42.34745	0.439859	35.39736	1073.941	980.2319	29.61512	26.64648	20.90775	14.85799	15.11427	35.31855
16	42.30744	0.444358	35.00172	1055.69	963.6788	29.61181	26.62527	20.90366	14.83973	15.16069	35.33439
17	42.27258	0.445904	34.10195	1065.139	972.5205	29.61489	26.64198	20.90591	14.84934	14.8777	35.33662
18	42.25993	0.445886	34.31749	1058.017	965.8774	29.61156	26.65322	20.9038	14.84876	14.82113	35.32682
19	42.19717	0.446988	34.90971	1058.032	966.3074	29.61375	26.6319	20.8971	14.82826	15.11931	35.34111
20	42.19616	0.446081	34.62436	1044.729	954.1427	29.61411	26.65102	20.90063	14.85859	14.8746	35.33307
21	42.2356	0.439483	35.10882	1051.991	960.7227	29.61504	26.6343	20.88922	14.88495	14.88644	35.33065
22	42.26981	0.448486	34.50875	1058.442	966.5011	29.6146	26.63823	20.88368	14.87005	14.98672	35.31958
23	42.2799	0.447014	35.19067	1079.159	985.4185	29.61717	26.60732	20.89655	14.91284	14.86413	35.2961
24	42.31953	0.455791	35.11306	1081.373	987.2017	29.61544	26.6138	20.87487	14.91959	15.35452	35.2673
25	42.28087	0.446618	35.47224	1045.427	954.4596	29.61577	26.61729	20.86915	14.87041	14.57738	35.24991
26	42.22593	0.447246	34.13465	1080.751	986.8299	29.61339	26.59467	20.86873	14.9095	15.27587	35.22926
27	42.24184	0.451762	34.82707	1055.123	963.3757	29.61216	26.58266	20.86098	14.91898	14.8748	35.21802
28	42.27504	0.450834	35.49175	1056.156	964.2327	29.61295	26.60407	20.85759	14.93995	15.20982	35.20761
29	42.33863	0.436085	34.41972	1037.684	947.1349	29.61321	26.62323	20.86477	14.94028	15.03951	35.20951
30	42.36912	0.446443	35.41916	1073.501	979.6928	29.6129	26.61797	20.87767	14.95047	15.22047	35.18676
31	42.35605	0.455079	34.71342	1056.187	963.9938	29.61384	26.64262	20.87628	14.97331	15.20038	35.16452
32	42.40988	0.432837	36.43375	1065.986	972.6474	29.61183	26.64693	20.85748	14.99536	15.18058	35.14841
33	42.40744	0.44283	35.934	1062.93	969.8809	29.61539	26.62325	20.847	14.99994	14.82297	35.13573
34	42.39839	0.433089	34.5154	1064.329	971.1316	29.61529	26.63704	20.87061	14.98605	15.05341	35.11569
35	42.39949	0.449047	35.75804	1039.578	948.7119	29.61605	26.63477	21.36301	15.02832	14.90968	35.13783
36	42.49383	0.440032	35.44179	1065.823	972.2799	29.61307	26.6261	21.09404	15.08015	15.17586	35.12483
37	42.44433	0.441754	34.25169	1057.826	965.0768	29.61249	26.60703	20.95506	15.03784	16.24053	35.12528
38	42.52231	0.442043	34.7818	1045.301	953.3459	29.61049	26.59046	20.9049	15.06307	15.91475	35.10648
39	42.51596	0.457797	35.32067	1057.757	964.7176	29.61056	26.55935	20.90706	15.04274	15.68543	35.14047
40	42.62936	0.439069	37.84127	1078.361	983.2018	29.61265	26.58818	20.87173	15.04338	15.73933	35.13393
41	42.70777	0.447879	35.51834	1068.104	973.62	29.61353	26.62359	20.88843	15.06499	16.02269	35.13371
42	42.76471	0.439077	35.52474	1064.651	970.389	29.61496	26.59957	20.8805	15.09103	15.33881	35.14723
43	42.79686	0.44821	36.00123	1055.091	961.501	29.61338	26.58157	20.8697	15.07698	15.09545	35.13562
44	42.84576	0.441254	35.30261	1055.04	961.3102	29.61154	26.56607	20.8515	15.10343	14.99482	35.13411
45	42.8363	0.44033	37.31576	1052.98	959.4411	29.61359	26.5906	20.86518	15.11143	14.66247	35.1252
46	42.86458	0.446228	35.47841	1064.745	970.1883	29.61302	26.58063	20.86971	15.1204	15.12093	35.14916
47	42.88199	0.449655	35.60127	1056.662	962.694	29.61351	26.57237	20.87825	15.11167	15.65154	35.15912
48	42.9273	0.436949	35.52207	1047.911	954.4582	29.61073	26.5708	20.84835	15.12366	15.87855	35.16126
49	42.89898	0.433537	35.52469	1053.836	959.912	29.61109	26.56958	20.84337	15.14423	15.19449	35.15444
50	42.96288	0.45259	35.64611	1070.304	974.7581	29.61301	26.58072	20.8469	15.11386	15.95912	35.18304
51	43.02892	0.436027	36.14376	1073.453	977.7201	29.6115	26.62269	20.90379	15.143	15.02382	35.20165
52	43.05278	0.444466	35.3366	1043.643	950.1925	29.61142	26.61631	20.91632	15.14924	15.5779	35.20684
53	43.06579	0.452964	35.41354	1080.864	984.0864	29.61224	26.62593	20.90819	15.17633	15.59144	35.21327
54	43.06151	0.441607	36.77128	1043.097	949.6798	29.61165	26.59679	20.88758	15.1533	15.39784	35.22438
55	43.04869	0.451195	35.29824	1075.786	979.6213	29.61227	26.61771	20.89725	15.16679	15.19239	35.22207
56	42.99584	0.438373	35.29133	1062.389	967.4373	29.60906	26.60082	20.86197	15.12839	14.82032	35.23874
57	42.97621	0.444575	34.43408	1077.21	981.3452	29.61201	26.59409	20.86374	15.07407	15.28554	35.24243
58	42.83508	0.447505	35.3048	1092.601	995.7586	29.61147	26.57963	20.86852	14.76833	14.64673	35.25805
59	42.73658	0.445456	39.02317	1087.89	991.9338	29.61304	26.54583	20.87745	14.60406	15.31968	35.28957
60	42.65109	0.449655	42.23716	1093.502	997.4998	29.61213	26.55635	20.85425	14.48901	15.24989	35.29715
61	42.54234	0.452498	33.55077	1107.259	1010.321	29.61046	26.59161	20.85517	14.40858	15.24889	35.32374
62	42.43092	0.445295	37.46506	1105.104	1008.776	29.6133	26.5711	20.86438	14.40685	15.25899	35.33015
63	42.28217	0.451363	35.18039	1107.386	1011.237	29.61144	26.58988	20.88305	14.36764	14.92204	35.34376
64	42.0905	0.444233	36.64567	1080.769	987.5894	29.61149	26.55972	20.85221	14.32633	14.69943	35.39429

Count	Outdoor WB	EvapStat Pres	Chamber Discharge Pres	EvapDiffPres	EvapNozzTemp	Airflow at Nozzle	Standard Air Flow	CondVoltage	CondPower	Cond Exit Dry-bulb	Cond Exit Wet-bulb
	C	in/H2O	in/H2O	in/H2O	C	CFM	SCFM	V	kW	C	C
1	24.08745	0.463108	0.450918	0.113928	17.72116	465.3413	463.7409	223.4699	2.481817	47.7013	27.67587
2	24.07248	0.451709	0.43857	0.113829	17.75075	468.6259	465.0754	223.1822	2.480016	47.66706	27.67073
3	24.05455	0.447384	0.433819	0.111525	17.72918	463.7513	460.344	223.1112	2.479748	47.65954	27.66826
4	24.03895	0.457425	0.446114	0.115654	17.70963	472.3378	468.9079	222.8909	2.47658	47.62813	27.6385
5	24.03467	0.454604	0.443283	0.113349	17.68901	467.5621	464.1508	222.96	2.47729	47.61963	27.63469
6	24.02951	0.459806	0.447295	0.11384	17.68355	468.5457	465.2064	223.1519	2.476124	47.62288	27.64657
7	24.02316	0.461377	0.448819	0.114065	17.63847	469.0075	465.6802	222.9198	2.476865	47.66151	27.66712
8	24.01764	0.461112	0.449663	0.115737	17.64455	472.4589	469.131	223.1653	2.482077	47.67897	27.63895
9	24.01482	0.453107	0.441407	0.113753	17.6588	468.3566	465.0341	223.0949	2.480035	47.69331	27.58575
10	24.01076	0.458478	0.445744	0.113731	17.68787	468.3287	464.9692	223.2677	2.482314	47.70913	27.43423
11	24.00106	0.457292	0.444537	0.113234	17.68035	467.2943	463.938	223.0952	2.477767	47.73038	27.53936
12	23.99214	0.459061	0.447459	0.113995	17.68484	468.8908	465.5015	223.1264	2.479371	47.74947	27.35502
13	23.99648	0.466667	0.454085	0.114971	17.66473	470.882	467.5529	223.053	2.483407	47.76544	27.44648
14	23.98248	0.466087	0.453512	0.114944	17.67795	470.837	467.4861	223.3986	2.48081	47.76598	27.4637
15	23.97199	0.451389	0.439859	0.113655	17.6789	468.164	464.819	223.3054	2.482928	47.75791	27.48564
16	23.96961	0.455893	0.444358	0.114191	17.66454	469.2936	465.9147	223.1917	2.481994	47.75847	27.41714
17	23.96862	0.457552	0.445904	0.114183	17.69753	469.2766	465.8968	223.2105	2.483982	47.77502	27.41276
18	23.95539	0.458976	0.445886	0.11339	17.69497	467.647	464.2334	223.446	2.481655	47.74628	27.21134
19	23.95419	0.458754	0.446988	0.11367	17.68406	468.2053	464.8408	223.2115	2.483274	47.72526	27.39495
20	23.94429	0.458021	0.446081	0.115444	17.68067	471.8814	468.4995	223.2519	2.482112	47.7331	27.33869
21	23.93353	0.452062	0.439483	0.110977	17.68268	462.5503	459.2467	223.2855	2.482007	47.72762	27.23506
22	23.92475	0.461435	0.448486	0.111803	17.67522	464.2798	460.9807	223.3557	2.481273	47.70978	27.28081
23	23.90743	0.459268	0.447014	0.114297	17.70117	469.4976	466.1473	223.2274	2.479313	47.68681	27.21253
24	23.88478	0.468663	0.455791	0.115429	17.69201	471.8412	468.4795	223.1724	2.480324	47.68505	27.13364
25	23.87739	0.45896	0.446618	0.115078	17.69557	471.1193	467.7546	223.062	2.477765	47.64649	27.14671
26	23.85892	0.459621	0.447246	0.114425	17.6799	469.7721	466.4034	223.2442	2.480015	47.64675	27.10799
27	23.8517	0.464085	0.451762	0.116474	17.68101	474.015	470.599	223.1641	2.478738	47.63805	26.97743
28	23.83932	0.46319	0.450834	0.113254	17.67607	467.3298	463.9887	223.1632	2.478213	47.6268	27.04279
29	23.83212	0.448792	0.436085	0.116867	17.69193	474.828	471.3897	223.1147	2.478802	47.61874	26.8466
30	23.81589	0.458794	0.446443	0.115545	17.70067	472.1137	468.684	223.0048	2.477196	47.60546	26.69486
31	23.79807	0.466721	0.455079	0.114147	17.68235	469.1866	465.8375	223.004	2.478331	47.60228	26.64842
32	23.78454	0.445585	0.432837	0.112585	17.68597	465.9524	462.5729	223.2838	2.475729	47.56097	26.62764
33	23.77633	0.455722	0.44283	0.112389	17.71138	465.5291	462.1814	223.2113	2.473999	47.53906	26.55822
34	23.76187	0.445548	0.433089	0.111037	17.72665	462.7082	459.338	223.1565	2.475887	47.52589	26.44928
35	23.76881	0.461885	0.449047	0.113571	17.72122	468.0995	464.5323	223.0509	2.474529	47.52376	26.50156
36	23.7564	0.451214	0.440032	0.112607	17.73204	466.0698	462.5494	222.8006	2.47527	47.5039	26.43977
37	23.75042	0.454154	0.441754	0.113626	17.71943	468.1666	464.6943	222.9703	2.474965	47.50149	26.58794
38	23.73806	0.454705	0.442043	0.11282	17.73753	466.504	463.0025	223.0438	2.474375	47.51455	26.54658
39	23.74767	0.469737	0.457797	0.116022	17.72361	473.1374	469.6197	222.9278	2.474189	47.51807	26.52462
40	23.74002	0.450822	0.439069	0.11114	17.72511	462.9417	459.5315	222.95	2.475125	47.52414	26.51039
41	23.73387	0.460667	0.447879	0.113678	17.72282	468.2528	464.8259	222.6193	2.473678	47.51646	26.77436
42	23.73928	0.451569	0.439077	0.11351	17.7581	467.9241	464.4562	222.4183	2.474364	47.51522	27.82513
43	23.72433	0.460447	0.44821	0.115119	17.74528	471.2634	467.777	222.406	2.472825	47.5282	27.81307
44	23.71871	0.454012	0.441254	0.113326	17.74218	467.5481	464.0645	222.6265	2.475666	47.52825	27.56055
45	23.70795	0.4531	0.44033	0.114818	17.75306	470.6463	467.1494	222.6891	2.472835	47.50655	27.47024
46	23.71373	0.458018	0.446228	0.11418	17.73754	469.3119	465.8453	222.3895	2.474576	47.5322	27.59825
47	23.71095	0.461699	0.449655	0.11493	17.75553	470.88	467.3795	222.4406	2.475606	47.55124	27.58656
48	23.70646	0.450076	0.436949	0.112452	17.76792	465.7481	462.2221	222.5898	2.473547	47.55376	27.46145
49	23.69631	0.445854	0.433537	0.110714	17.77597	462.0944	458.5888	222.5569	2.473234	47.5531	27.49076
50	23.70496	0.464541	0.45259	0.115916	17.7753	472.9298	469.3898	222.5633	2.474994	47.57384	27.40754
51	23.71002	0.448261	0.436027	0.113151	17.78785	467.2279	463.6537	222.805	2.476399	47.58712	27.38477
52	23.71055	0.45603	0.444466	0.116086	17.75985	473.2992	469.7231	222.6442	2.478329	47.62616	27.24912
53	23.71219	0.466248	0.452964	0.115457	17.77491	471.9979	468.4356	222.8564	2.477682	47.60081	27.13681
54	23.70867	0.454985	0.441607	0.114078	17.76744	469.1402	465.5951	222.7903	2.478911	47.63272	27.08137
55	23.7028	0.463244	0.451195	0.116836	17.76826	474.8351	471.2621	222.7693	2.473527	47.61292	27.48727
56	23.70208	0.450329	0.438373	0.110901	17.78242	462.509	458.9601	222.5921	2.474258	47.60208	27.43199
57	23.70041	0.456653	0.444575	0.113098	17.77995	467.0965	463.5659	222.6227	2.476794	47.58492	27.25972
58	23.70443	0.45907	0.447505	0.114323	17.77602	469.6507	466.0971	222.2189	2.47708	47.62337	26.89993
59	23.71434	0.457454	0.445456	0.114637	17.76866	470.2912	466.7592	222.5522	2.480336	47.66524	27.01188
60	23.71119	0.462522	0.449655	0.116054	17.7724	473.2236	469.6626	222.4469	2.47898	47.67163	27.44217
61	23.71939	0.465346	0.452498	0.116509	17.77493	474.1739	470.5815	222.4362	2.478988	47.68528	26.94121
62	23.71571	0.457224	0.445295	0.114204	17.77015	469.3855	465.8705	222.3034	2.479975	47.70767	27.04197
63	23.7191	0.462651	0.451363	0.114164	17.75535	469.3051	465.7869	222.3678	2.480026	47.71368	27.06697
64	23.73197	0.457426	0.444233	0.115764	17.75801	472.6214	469.0731	222.2939	2.483457	47.72938	26.85252

Count	EvapOutDrybulbRef	Cooling Capacity	Total Cooling Capacity	Sensible Cooling Capacity	Latent Cooling Capacity	Duct Loss Correction	Total Cooling Capacity Cond Side	Corrected Total Cooling Capacity	Corrected Sensible Cooling Capacity	Sensible Cooling Capacity Cond Side
	C	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr
1	-67495	2186198	2186079	1535263	650816	118.5	19297.9	16007.81	11211.36	14635.75
2	-67504	16007.81	15886	11012.29	4873.712	121.8	19311.2	15313.48	11113.23	14696.52
3	-67503	15313.48	15196.29	10982.68	4213.61	117.2	19242.6	15703.08	11325.13	14564.83
4	-67501	15703.08	15586.92	11083.09	4503.835	116.2	18684.9	16814.22	11368.57	14216
5	-67500	16814.22	16698.14	11023.58	5674.563	116.1	19543.3	16181.78	11335.88	14891.51
6	-67499	16181.78	16064.34	10966.77	5097.573	117.4	19002.7	16205.58	11621.94	14252.31
7	-67499	16205.58	16087.89	10910.47	5177.417	117.7	19447.3	17421.82	11684.84	14653.11
8	-67499	17421.82	17302.3	11038.14	6264.163	119.5	19799.4	16591.64	11432.49	14843.58
9	-67500	16591.64	16473.78	11031.67	5442.109	117.9	18814.9	17495.96	11686.74	14548.47
10	-67500	17495.96	17380.47	11112.96	6267.518	115.5	17681.7	16469.86	11501.25	14411.07
11	-67501	16469.86	16352.87	10907.49	5445.377	117	18775.7	16681.76	11443.8	14949.85
12	-67501	16681.76	16567.29	11061.28	5506.005	114.5	17392.1	17486.43	11280.44	14885.97
13	-67502	17486.43	17370.11	10913.53	6456.583	116.3	16928.4	16421.71	11508.99	14191.89
14	-67503	16421.71	16306.41	10905.9	5400.503	115.3	18345.4	16099.36	11426.05	14721.78
15	-67504	16099.36	15981.37	10908.95	5072.42	118	18067.3	16148.69	11309.49	14582.66
16	-67505	16148.69	16032.16	10951.41	5080.751	116.5	17430.7	15615.1	11283.67	14454.07
17	-67506	15615.1	15499.61	10985.83	4513.778	115.5	17812.9	16447.66	11379.14	14527.81
18	-67506	16447.66	16330.8	10972.17	5358.624	116.9	16047.8	17559.71	11364.76	14498.88
19	-67507	17559.71	17445.74	11053.61	6392.133	114	17629.2	17360.9	11442.62	14588.64
20	-67508	17360.9	17246.53	10969.03	6277.501	114.4	17251.3	17237.04	11224.8	14510.52
21	-67509	17237.04	17123.64	11007.36	6116.281	113.4	15807.8	17465.47	11324.21	14098.43
22	-67509	17465.47	17352.77	11030.9	6321.874	112.7	16839.2	17385.35	11411.2	14654.87
23	-67510	17385.35	17273.31	10885.03	6388.283	112	16260.6	16541.37	11300.62	14569.36
24	-67511	16541.37	16427.34	10953.09	5474.25	114	16001.3	17739.03	11320.18	14609.72
25	-67511	17739.03	17623.29	11022.66	6600.634	115.7	15826.7	15779.72	11424.14	14346.08
26	-67512	15779.72	15665.2	10735.22	4929.98	114.5	15597.5	16122.02	11492.1	14284.65
27	-67513	16122.02	16007.25	10913.49	5093.761	114.8	14841.3	15709.41	11401.35	14859.46
28	-67514	15709.41	15593.78	10793.18	4800.594	115.6	16158	17026.36	11374.16	14466.1
29	-67515	17026.36	16909.43	10894.58	6014.854	116.9	14402.7	16457.41	11294.73	14338.87
30	-67515	16457.41	16340.05	11165.24	5174.806	117.4	13025.5	16115.74	11551.13	14736.35
31	-67516	16115.74	15998.92	10975.36	5023.554	116.8	12563.3	16111.27	11503.51	14463.64
32	-67517	16111.27	15994.04	10993.23	5000.806	117.2	11864.5	17486.38	11442.76	14217.49
33	-67518	17486.38	17366.01	10957.83	6408.18	120.4	11656	16361.88	11297.27	14050.87
34	-67518	16361.88	16239.8	10839.04	5400.757	122.1	10495.3	18110.91	11463.9	14074.08
35	-67519	18110.91	17989.87	10800.81	7189.063	121	10471.6	16808.18	11329.72	14017.92
36	-67520	16808.18	16688.14	10684.41	6003.731	120	11392.4	14078.38	11406.17	14094.1
37	-67521	14078.38	13956.87	10731.36	3225.514	121.5	12611.8	13387.95	11486.36	14020.6
38	-67522	13387.95	13266.78	10584.95	2681.834	121.2	12368.6	13620.69	11591.25	14286.2
39	-67523	13620.69	13498.7	10617.43	2881.271	122	12000.1	14088.06	11707.2	14200.62
40	-67523	14088.06	13966.15	10785.25	3180.904	121.9	10776.4	15704.8	11459.83	14222.81
41	-67524	15704.8	15582.31	10622.56	4959.753	122.5	14795.3	16661.57	11579.75	14214.19
42	-67525	16661.57	16539.52	10779.34	5760.172	122.1	23040	16696.07	11682.87	14032.84
43	-67526	16696.07	16573.77	10763.44	5810.331	122.3	21902.9	16541.35	11621.38	14555.92
44	-67527	16541.35	16419.25	10764.09	5655.167	122.1	22407.5	15268.42	11620.11	14494.14
45	-67528	15268.42	15145.41	10653.84	4491.567	123	21045.1	17130.61	11527.22	14453.3
46	-67529	17130.61	17009.35	10642.56	6366.794	121.3	20848.9	17092.2	11550.94	14420.5
47	-67530	17092.2	16970.57	10771.75	6198.822	121.6	20622.9	16329.26	11540.39	14315.91
48	-67531	16329.26	16207.03	10737.07	5469.969	122.2	19340.8	15564.37	11553.75	14355.07
49	-67531	15564.37	15441.75	10769.11	4672.643	122.6	20827.9	14281.27	11675.75	14560.25
50	-67532	14281.27	14157.49	10600.81	3556.674	123.8	19024.8	15907.3	11700.78	14512.34
51	-67533	15907.3	15782.15	10626.55	5155.597	125.2	19209.2	14541.19	11575.9	14305.92
52	-67533	14541.19	14418.03	10563.53	3854.504	123.2	17655	16037.53	11657.66	14037.26
53	-67534	16037.53	15915.26	10553.74	5361.52	122.3	16854.7	14910.61	11738.45	13980.2
54	-67535	14910.61	14788.46	10638.09	4150.361	122.2	15586.6	15751.92	11571.19	13754.25
55	-67535	15751.92	15630.51	10674.65	4955.862	121.4	19366	16628.89	11667.93	14600.75
56	-67536	16628.89	16508.46	10702.6	5805.854	120.4	17984	16280.15	11703.38	14102.32
57	-67536	16280.15	16159.03	10694.15	5464.888	121.1	18081.8	15416.09	11624.94	13862.31
58	-67537	15416.09	15294.58	10966.24	4328.34	121.5	14535.4	16405.5	11718.69	13668.26
59	-67538	16405.5	16285.6	11209.7	5075.895	119.9	15884.4	15881.19	11763.03	14231.9
60	-67538	15881.19	15764.31	11229.89	4534.418	116.9	18039.2	16080.69	11505.54	13874.2
61	-67539	16080.69	15965.43	11401.12	4564.317	115.3	16149.6	16023.36	11593.59	14028.66
62	-67540	16023.36	15909.39	11368.31	4541.08	114	16249.7	16153.33	11675.33	13846.53
63	-67541	16153.33	16038.45	11297.63	4740.816	114.9	16334.5	16140.15	11643.24	13960.88
64	-67541	16140.15	16026.38	11400.7	4625.682	113.8	14085.5	17313.93	11717.68	13780.38

Table 29: Data from A-WM testing condition.

Count	Chamber Discharge Pres (IWC)	External Static Pressure (IWC)	Evap Diff Pres (IWC)	Cond ESP (IWC)	Cond Chamber Discharge Pres (IWC)	Cond Diff Pres (IWC)	Barometric Pres (in. Hg)	Indoor Temp (C)	Indoor Temp Ref (C)	Evap Exit Drybulb (C)	Cond Exit Drybulb (C)	Evap Coil Temp (C)	Outdoor Temp Ref (C)	Evap Nozzle Temp (C)	Indoor Wetbulb (C)
1	0.4	0.42	0.1	-0.01	-0.04	0.06	29.563	26.68	26.76	14.25	43.65	33.63	32.78	17.13	20.64
2	0.4	0.42	0.09	-0.03	0	0.22	29.565	26.78	26.64	14.22	43.69	34.14	34.09	17.12	20.6
3	0.39	0.39	0.08	-0.02	-0.01	0.16	29.558	26.69	26.58	14.23	43.67	34.36	34.13	17.12	20.59
4	0.4	0.41	0.09	-0.01	-0.02	0.1	29.558	26.64	26.59	14.23	43.69	35.54	33.87	17.07	20.61
5	0.4	0.41	0.09	-0.07	-0.03	0.14	29.566	26.6	26.62	14.23	43.64	33.99	33.69	17.07	20.6
6	0.39	0.39	0.09	-0.01	-0.02	0.08	29.555	26.59	26.57	14.21	43.61	34.22	33.61	17.09	20.62
7	0.39	0.39	0.1	0.01	0.02	0.23	29.554	26.6	26.6	14.19	43.58	33.59	33.54	17.07	20.61
8	0.41	0.42	0.09	0.01	0.01	0.17	29.565	26.58	26.61	14.18	43.55	46.94	33.57	17.08	20.62
9	0.42	0.41	0.1	0	-0.01	0.08	29.557	26.59	26.59	14.2	43.51	35.9	33.59	17.12	20.62
10	0.4	0.42	0.1	-0.02	0.02	0.13	29.555	26.6	26.59	14.19	43.48	33.73	33.63	17.11	20.63
11	0.39	0.41	0.08	-0.02	0.02	0.13	29.554	26.62	26.57	14.21	43.48	34.37	33.67	17.11	20.62
12	0.41	0.41	0.09	0.02	0	0.16	29.555	26.59	26.57	14.18	43.5	34.25	33.67	17.11	20.63
13	0.4	0.41	0.08	0.01	-0.05	0.11	29.563	26.58	26.58	14.2	43.5	32.53	33.55	17.1	20.64
14	0.38	0.41	0.06	0	0.01	0.26	29.56	26.56	26.59	14.23	43.5	33.1	33.56	17.08	20.64
15	0.41	0.42	0.1	-0.01	0.02	0.2	29.557	26.57	26.58	14.23	43.5	33.98	33.65	17.11	20.64
16	0.38	0.39	0.08	0.01	0.04	0.13	29.56	26.58	26.61	14.21	43.47	33.35	33.69	17.09	20.65
17	0.41	0.42	0.08	0.01	-0.01	0.15	29.603	26.59	26.59	14.2	43.5	33.15	33.81	17.1	20.65
18	0.4	0.41	0.09	0	-0.01	0.14	29.557	26.56	26.59	14.24	43.52	33.25	33.91	17.09	20.65
19	0.37	0.4	0.08	0.01	-0.02	0.1	29.565	26.58	26.58	14.25	43.57	33.53	34.03	17.09	20.66
20	0.4	0.39	0.1	-0.01	-0.01	0.12	29.557	26.56	26.58	14.26	43.57	34.71	34.13	17.09	20.66
21	0.39	0.4	0.09	0.01	-0.02	0.11	29.561	26.59	26.58	14.26	43.62	33.8	34.22	17.12	20.66
22	0.39	0.4	0.1	-0.04	-0.02	0.16	29.572	26.57	26.58	14.25	43.67	37.18	34.19	17.13	20.67
23	0.4	0.42	0.1	-0.02	-0.01	0.14	29.563	26.57	26.61	14.27	43.7	33.93	34.31	17.13	20.67
24	0.39	0.39	0.08	0.01	-0.01	0.14	29.554	26.59	26.59	14.26	43.69	36.59	34.37	17.13	20.68
25	0.41	0.4	0.1	0.03	-0.03	0.14	29.558	26.59	26.59	14.3	43.74	35.7	34.37	17.13	20.69
26	0.39	0.39	0.09	0.01	0	0.15	29.565	26.57	26.6	14.31	43.77	35.06	34.46	17.15	20.68
27	0.41	0.42	0.09	-0.05	-0.05	0.14	29.555	26.58	26.58	14.3	43.8	33.4	34.43	17.11	20.69
28	0.39	0.41	0.09	-0.05	0	0.21	29.554	26.59	26.58	14.32	43.82	33.26	34.43	17.15	20.7
29	0.4	0.41	0.1	-0.03	0	0.2	29.558	26.58	26.59	14.31	43.82	33.19	34.49	17.14	20.72
30	0.39	0.39	0.09	-0.01	-0.02	0.17	29.547	26.59	26.57	14.35	43.86	33.77	34.61	17.15	20.72
31	0.39	0.41	0.08	-0.01	-0.02	0.06	29.558	26.61	26.58	14.34	43.85	33.25	34.68	17.16	20.73
32	0.4	0.41	0.07	-0.02	0	0.1	29.552	26.58	26.57	14.35	43.88	34.81	34.81	17.16	20.71
33	0.39	0.41	0.1	-0.02	0	0.15	29.555	26.56	26.58	14.34	43.93	34.72	34.97	17.17	20.72
34	0.39	0.4	0.09	0.03	-0.02	0.12	29.561	26.6	26.59	14.36	43.98	33.96	35.13	17.17	20.74
35	0.4	0.42	0.1	-0.03	-0.05	0.19	29.569	26.59	26.6	14.4	44.03	34.08	35.25	17.17	20.73
36	0.39	0.41	0.09	-0.01	-0.05	0.07	29.555	26.56	26.58	14.38	44.13	33.51	35.32	17.18	20.73
37	0.38	0.4	0.09	-0.06	-0.03	0.16	29.577	26.57	26.58	14.41	44.19	33.67	35.41	17.21	20.74
38	0.4	0.41	0.09	-0.01	0.02	0.09	29.558	26.56	26.58	14.4	44.21	33.17	35.45	17.22	20.74
39	0.38	0.37	0.09	0.02	-0.02	0.1	29.56	26.55	26.6	14.42	44.27	33.23	35.5	17.22	20.74
40	0.39	0.41	0.1	-0.01	-0.04	0.13	29.568	26.56	26.59	14.42	44.29	32.83	35.55	17.2	20.75
41	0.4	0.4	0.08	0	0.01	0.16	29.554	26.56	26.59	14.47	44.32	34.44	35.65	17.21	20.76
42	0.39	0.39	0.09	-0.02	0.01	0.2	29.561	26.57	26.6	14.48	44.39	35.33	35.62	17.23	20.76
43	0.4	0.4	0.1	0.02	-0.03	0.16	29.568	26.6	26.62	14.48	44.43	34.38	35.72	17.25	20.78
44	0.4	0.41	0.09	0	0	0.12	29.551	26.57	26.6	14.5	44.45	33.77	35.73	17.26	20.79
45	0.38	0.4	0.09	0	-0.02	0.13	29.558	26.54	26.58	14.5	44.52	34.05	35.66	17.28	20.78
46	0.39	0.39	0.09	-0.02	-0.03	0.15	29.555	26.57	26.59	14.48	44.53	34.87	35.65	17.28	20.79
47	0.4	0.39	0.09	-0.02	-0.01	0.11	29.565	26.55	26.58	14.52	44.52	33.35	35.63	17.24	20.8
48	0.39	0.4	0.09	0	-0.01	0.14	29.554	26.59	26.59	14.53	44.55	33.51	35.64	17.26	20.8
49	0.4	0.41	0.09	-0.01	0.02	0.24	29.555	26.63	26.6	14.57	44.56	34.48	35.64	17.27	20.85
50	0.38	0.4	0.08	0.02	-0.03	0.13	29.552	26.59	26.58	14.58	44.58	34.09	35.52	17.26	20.86
51	0.4	0.39	0.08	-0.02	-0.01	0.07	29.558	26.56	26.59	14.59	44.61	37.86	35.46	17.27	20.85
52	0.39	0.39	0.08	-0.03	-0.01	0.15	29.557	26.57	26.59	14.57	44.59	34.68	35.4	17.27	20.84
53	0.39	0.4	0.11	-0.03	0.01	0.17	29.547	26.61	26.6	14.57	44.56	34.73	35.4	17.3	20.84
54	0.4	0.39	0.1	-0.01	0.01	0.09	29.568	26.58	26.57	14.57	44.56	34.66	35.38	17.3	20.85
55	0.39	0.4	0.09	-0.02	0.04	0.12	29.56	26.58	26.59	14.58	44.55	35.63	35.31	17.32	20.87
56	0.39	0.4	0.1	0.02	-0.02	0.16	29.557	26.59	26.62	14.58	44.56	34.23	35.3	17.3	20.86
57	0.39	0.41	0.08	0.01	-0.01	0.13	29.557	26.59	26.63	14.62	44.56	36.7	35.27	17.3	20.87
58	0.39	0.4	0.1	0.01	-0.01	0.14	29.569	26.59	26.62	14.6	44.53	38.58	35.34	17.31	20.87
59	0.38	0.39	0.09	-0.01	-0.01	0.11	29.561	26.6	26.63	14.61	44.56	37.97	35.3	17.35	20.88
60	0.41	0.41	0.09	-0.05	0.01	0.14	29.568	26.56	26.62	14.63	44.56	36.18	35.39	17.34	20.89
61	0.39	0.38	0.1	-0.06	-0.02	0.14	29.557	26.57	26.62	14.6	44.58	33.45	35.28	17.37	20.89
62	0.38	0.4	0.08	-0.01	0.01	0.2	29.521	26.57	26.62	14.6	44.59	36.95	35.21	17.33	20.88
63	0.38	0.38	0.09	0	0.01	0.18	29.558	26.57	26.64	14.63	44.56	42.37	35.13	17.35	20.88
64	0.4	0.4	0.1	-0.02	-0.01	0.19	29.568	26.61	26.62	14.6	44.54	35.24	35.05	17.38	20.89
65	0.39	0.4	0.1	-0.01	-0.02	0.11	29.56	26.59	26.59	14.62	44.52	53.05	34.98	17.39	20.89

Count	Outdoor Temp (C)	Cond Exit Wetbulb (C)	Outdoor Wetbulb (C)	Cond Nozzle Temp (C)	Evap Exit Wetbulb (C)	EvapFanOutStatPres (in/H2O)	EvapNozDiffPres (in/H2O)	EvapNozStatPres (in/H2O)	EvapBarPres (in/Hg)	EvapDryInletTemp (C)	EvapWetInletTemp (C)	EvapNozzleTemp (C)	EvapRhoInlet (lb/ft^3)	EvapRhoOutlet (lb/ft^3)
1	34.96	28.11	24.36	40.42	13.84	0.4	0.089	0.4	29.56	80	69.1	62.8	0.07205	0.07524
2	35.15	28.16	24.5	40.5	13.84	0.403	0.09	0.403	29.56	80.2	69.1	62.8	0.07203	0.07525
3	34.67	28.21	24.22	40.49	13.85	0.396	0.091	0.396	29.56	80	69.1	62.8	0.07205	0.07525
4	34.67	28.23	24.31	40.48	13.84	0.398	0.091	0.398	29.56	80	69.1	62.7	0.07206	0.07525
5	34.81	28.25	24.39	40.52	13.84	0.402	0.09	0.402	29.56	79.9	69.1	62.7	0.07207	0.07525
6	34.8	28.24	24.37	40.49	13.89	0.396	0.092	0.396	29.56	79.9	69.1	62.8	0.07207	0.07525
7	34.86	28.26	24.46	40.48	13.85	0.397	0.09	0.397	29.56	79.9	69.1	62.7	0.07208	0.07526
8	34.69	28.26	24.36	40.48	13.84	0.413	0.092	0.413	29.56	79.8	69.1	62.8	0.07208	0.07527
9	34.64	28.27	24.33	40.47	13.87	0.409	0.089	0.409	29.56	79.9	69.1	62.8	0.07207	0.07526
10	34.66	28.28	24.36	40.49	13.84	0.398	0.09	0.398	29.56	79.9	69.1	62.8	0.07207	0.07526
11	34.46	28.29	24.25	40.41	13.88	0.396	0.092	0.396	29.56	79.9	69.1	62.8	0.07207	0.07525
12	34.44	28.3	24.29	40.41	13.86	0.402	0.092	0.402	29.56	79.9	69.1	62.8	0.07207	0.07526
13	34.49	28.32	24.35	40.36	13.9	0.4	0.091	0.4	29.56	79.8	69.2	62.8	0.07208	0.07526
14	34.53	28.32	24.33	40.34	13.9	0.401	0.089	0.401	29.56	79.8	69.2	62.8	0.07208	0.07524
15	34.35	28.34	24.27	40.36	13.91	0.397	0.088	0.397	29.56	79.8	69.2	62.8	0.07207	0.07524
16	34.58	28.35	24.41	40.4	13.91	0.392	0.091	0.392	29.56	79.9	69.2	62.8	0.07207	0.07525
17	34.6	28.36	24.42	40.38	13.91	0.398	0.089	0.398	29.56	79.9	69.2	62.8	0.07207	0.07525
18	34.7	28.39	24.47	40.3	13.91	0.4	0.089	0.4	29.56	79.8	69.2	62.8	0.07208	0.07525
19	34.64	28.42	24.45	40.32	13.92	0.394	0.091	0.394	29.56	79.9	69.2	62.8	0.07207	0.07524
20	34.54	28.45	24.42	40.33	13.95	0.395	0.088	0.395	29.56	79.8	69.2	62.8	0.07208	0.07524
21	34.54	28.47	24.45	40.33	13.93	0.392	0.089	0.392	29.56	79.9	69.2	62.8	0.07207	0.07524
22	34.51	28.5	24.42	40.28	13.93	0.392	0.091	0.392	29.56	79.8	69.2	62.8	0.07207	0.07524
23	34.75	28.52	24.62	40.29	13.93	0.402	0.09	0.402	29.56	79.8	69.2	62.8	0.07207	0.07523
24	34.69	28.55	24.57	40.32	13.96	0.393	0.088	0.393	29.56	79.9	69.2	62.8	0.07207	0.07523
25	34.66	28.57	24.5	40.37	13.98	0.399	0.089	0.399	29.56	79.9	69.2	62.8	0.07207	0.07523
26	34.49	28.6	24.44	40.37	13.98	0.392	0.089	0.392	29.56	79.8	69.2	62.9	0.07207	0.07522
27	34.39	28.62	24.44	40.43	13.98	0.401	0.09	0.401	29.56	79.8	69.2	62.8	0.07207	0.07523
28	34.43	28.64	24.45	40.54	13.99	0.402	0.092	0.402	29.56	79.9	69.3	62.9	0.07206	0.07521
29	34.42	28.65	24.46	40.52	14.03	0.391	0.089	0.391	29.56	79.8	69.3	62.8	0.07207	0.07522
30	34.65	28.68	24.6	40.53	14.03	0.391	0.088	0.391	29.56	79.9	69.3	62.9	0.07206	0.07521
31	34.36	28.71	24.44	40.53	13.98	0.398	0.088	0.398	29.56	79.9	69.3	62.9	0.07206	0.07521
32	34.51	28.74	24.58	40.54	14	0.398	0.09	0.398	29.56	79.8	69.3	62.9	0.07207	0.07521
33	34.6	28.78	24.63	40.57	14.02	0.396	0.09	0.396	29.56	79.8	69.3	62.9	0.07207	0.07521
34	34.71	28.82	24.7	40.61	14.03	0.392	0.091	0.392	29.56	79.9	69.3	62.9	0.07206	0.0752
35	34.67	28.85	24.64	40.64	14.03	0.395	0.091	0.395	29.56	79.8	69.3	62.9	0.07207	0.0752
36	35.04	28.89	24.88	40.64	14.02	0.396	0.09	0.396	29.56	79.8	69.3	62.9	0.07207	0.0752
37	35.1	28.93	24.94	40.68	14.05	0.395	0.091	0.395	29.56	79.8	69.3	63	0.07207	0.07519
38	35.19	28.97	24.94	40.77	14.05	0.394	0.09	0.394	29.56	79.8	69.3	63	0.07208	0.0752
39	35.08	29.01	24.88	40.74	14.08	0.385	0.087	0.385	29.56	79.8	69.3	63	0.07208	0.07519
40	35.12	29.04	24.9	40.82	14.08	0.396	0.091	0.396	29.56	79.8	69.4	63	0.07207	0.07518
41	35.24	29.07	24.93	40.89	14.09	0.398	0.09	0.398	29.56	79.8	69.4	63	0.07207	0.07518
42	35.52	29.1	25.13	40.9	14.08	0.395	0.089	0.395	29.56	79.8	69.4	63	0.07207	0.07518
43	35.43	29.13	25.06	40.93	14.11	0.394	0.09	0.394	29.56	79.9	69.4	63	0.07206	0.07517
44	35.34	29.17	25.02	41.01	14.09	0.399	0.091	0.399	29.56	79.8	69.4	63.1	0.07206	0.07516
45	35.53	29.19	25.15	41.04	14.14	0.389	0.088	0.389	29.56	79.8	69.4	63.1	0.07208	0.07517
46	35.46	29.21	25.06	41.06	14.14	0.392	0.089	0.392	29.56	79.8	69.4	63.1	0.07207	0.07517
47	35.48	29.24	25.15	41.1	14.14	0.389	0.088	0.389	29.56	79.8	69.4	63	0.07207	0.07515
48	35.48	29.26	25.06	41.18	14.17	0.39	0.09	0.39	29.56	79.9	69.4	63.1	0.07206	0.07516
49	35.45	29.28	25.1	41.2	14.17	0.384	0.089	0.384	29.56	79.9	69.5	63.1	0.07205	0.07514
50	35.4	29.32	25.1	41.24	14.21	0.387	0.088	0.387	29.56	79.9	69.6	63.1	0.07206	0.07513
51	35.65	29.34	25.27	41.26	14.21	0.39	0.085	0.39	29.56	79.8	69.5	63.1	0.07207	0.07514
52	35.54	29.35	25.18	41.26	14.19	0.4	0.091	0.4	29.56	79.8	69.5	63.1	0.07206	0.07514
53	35.13	29.36	24.95	41.29	14.24	0.389	0.089	0.389	29.56	79.9	69.5	63.1	0.07206	0.07514
54	35.35	29.37	25.14	41.32	14.22	0.387	0.088	0.387	29.56	79.8	69.5	63.1	0.07206	0.07514
55	35.35	29.38	25.11	41.33	14.25	0.395	0.091	0.395	29.56	79.8	69.6	63.2	0.07206	0.07514
56	35.41	29.39	25.2	41.37	14.24	0.389	0.089	0.389	29.56	79.9	69.5	63.1	0.07206	0.07514
57	35.57	29.4	25.28	41.38	14.26	0.395	0.09	0.395	29.56	79.9	69.6	63.1	0.07205	0.07513
58	35.46	29.42	25.2	41.39	14.29	0.393	0.091	0.393	29.56	79.8	69.6	63.2	0.07206	0.07513
59	35.56	29.43	25.29	41.36	14.28	0.384	0.086	0.384	29.56	79.9	69.6	63.2	0.07206	0.07514
60	35.52	29.45	25.27	41.39	14.3	0.396	0.09	0.396	29.56	79.8	69.6	63.2	0.07207	0.07513
61	35.48	29.46	25.23	41.35	14.28	0.38	0.087	0.38	29.56	79.9	69.6	63.3	0.07206	0.07513
62	35.51	29.47	25.26	41.31	14.35	0.387	0.089	0.387	29.56	79.8	69.6	63.2	0.07206	0.07513
63	35.38	29.47	25.19	41.33	14.36	0.383	0.089	0.383	29.56	79.8	69.6	63.2	0.07206	0.07513
64	35.19	29.48	25.07	41.36	14.35	0.39	0.088	0.39	29.56	79.9	69.6	63.3	0.07206	0.07514
65	35.23	29.48	25.1	41.32	14.36	0.39	0.09	0.39	29.56	79.9	69.6	63.3	0.07207	0.07514

Count	EvapRhoNozzle (lb/ft^3)	EvapCFMNozzle (CFM)	EvapCFMOutlet (CFM)	EvapSCFMNozzle (SCFM)	CondFanOutStatPres (in/H2O)	CondNozDiffPres (in/H2O)	CondNozStatPres (in/H2O)	CondBarPres (in/Hg)	CondDryInletTemp (C)	CondWetInletTemp (C)	CondNozzleTemp (C)	CondRhoInlet (lb/ft^3)	CondRhoOutlet (lb/ft^3)	CondRhoNozzle (lb/ft^3)
1	0.07448	NaN	NaN	NaN	-0.013	0.137	-0.008	29.56	94.9	75.9	104.8	0.07003	0.06811	0.06878
2	0.07449	417.1	412.8	417.1	-0.006	0.139	0.001	29.56	95.3	76.1	104.9	0.06998	0.0681	0.06876
3	0.07448	417.3	413	417.3	-0.016	0.143	-0.012	29.56	94.4	75.6	104.9	0.0701	0.06811	0.06878
4	0.0745	419.3	415.1	419.3	-0.01	0.141	-0.003	29.56	94.4	75.8	104.9	0.0701	0.0681	0.06878
5	0.0745	416.2	412.1	416.2	-0.011	0.139	-0.004	29.56	94.7	75.9	104.9	0.07006	0.06811	0.06876
6	0.07449	419.5	415.3	419.5	-0.013	0.139	-0.008	29.56	94.6	75.9	104.9	0.07006	0.06811	0.06877
7	0.0745	417.1	412.8	417.1	-0.004	0.137	0.002	29.56	94.7	76	104.9	0.07005	0.06812	0.06878
8	0.0745	420.5	416.2	420.5	-0.009	0.14	-0.004	29.56	94.4	75.9	104.9	0.07009	0.06813	0.06877
9	0.07448	413.2	409	413.2	-0.006	0.137	0	29.56	94.3	75.8	104.8	0.0701	0.06814	0.06878
10	0.07449	414.8	410.6	414.8	-0.013	0.142	-0.008	29.56	94.4	75.8	104.9	0.0701	0.06815	0.06877
11	0.07449	420	415.8	420	-0.008	0.139	-0.003	29.56	94	75.6	104.7	0.07015	0.06815	0.0688
12	0.07449	420.8	416.5	420.8	-0.01	0.137	-0.006	29.56	94	75.7	104.7	0.07015	0.06814	0.06879
13	0.07449	418.7	414.4	418.7	-0.012	0.141	-0.008	29.56	94.1	75.8	104.6	0.07014	0.06814	0.0688
14	0.07449	414.7	410.5	414.7	-0.012	0.139	-0.007	29.56	94.2	75.8	104.6	0.07012	0.06813	0.0688
15	0.07448	411.9	407.7	411.9	-0.012	0.14	-0.006	29.56	93.8	75.7	104.6	0.07016	0.06813	0.06879
16	0.07448	417.8	413.5	417.8	-0.009	0.139	-0.004	29.56	94.3	75.9	104.7	0.07011	0.06813	0.06878
17	0.07449	414.3	410.1	414.3	-0.007	0.141	-0.003	29.56	94.3	76	104.7	0.07011	0.06814	0.06879
18	0.07449	413.4	409.2	413.4	-0.01	0.137	-0.006	29.56	94.5	76.1	104.5	0.07008	0.06813	0.0688
19	0.07448	418.7	414.5	418.7	-0.011	0.145	-0.006	29.56	94.4	76	104.6	0.07009	0.06812	0.0688
20	0.07449	411.7	407.6	411.7	-0.012	0.143	-0.006	29.56	94.2	76	104.6	0.07012	0.06812	0.0688
21	0.07448	413.3	409.1	413.3	-0.006	0.142	-0.001	29.56	94.2	76	104.6	0.07012	0.06811	0.0688
22	0.07448	417.8	413.6	417.8	-0.008	0.139	-0.003	29.56	94.1	76	104.5	0.07012	0.06809	0.06881
23	0.07447	416.7	412.5	416.7	-0.009	0.142	-0.006	29.56	94.6	76.3	104.5	0.07006	0.06808	0.0688
24	0.07447	411.7	407.5	411.7	-0.007	0.144	-0.002	29.56	94.4	76.2	104.6	0.07007	0.06808	0.06879
25	0.07448	413.1	409	413.1	-0.01	0.143	-0.007	29.56	94.4	76.1	104.7	0.07009	0.06808	0.06879
26	0.07447	413.3	409.1	413.3	-0.01	0.144	-0.006	29.56	94.1	76	104.7	0.07013	0.06807	0.06879
27	0.07448	416.7	412.5	416.7	-0.015	0.14	-0.009	29.56	93.9	76	104.8	0.07015	0.06807	0.06877
28	0.07446	419.9	415.7	419.9	-0.009	0.142	-0.005	29.56	94	76	105	0.07013	0.06805	0.06874
29	0.07447	413.2	409.1	413.2	-0.011	0.146	-0.008	29.56	94	76	104.9	0.07014	0.06806	0.06875
30	0.07446	411.6	407.5	411.6	-0.011	0.139	-0.006	29.56	94.4	76.3	105	0.07008	0.06804	0.06874
31	0.07446	410.3	406.2	410.3	-0.013	0.141	-0.007	29.56	93.8	76	104.9	0.07015	0.06805	0.06875
32	0.07447	416.4	412.2	416.4	-0.008	0.141	-0.005	29.56	94.1	76.2	105	0.07012	0.06804	0.06874
33	0.07446	415.6	411.4	415.6	-0.011	0.14	-0.006	29.56	94.3	76.3	105	0.07009	0.06802	0.06873
34	0.07446	418.2	414.1	418.2	-0.012	0.142	-0.008	29.56	94.5	76.5	105.1	0.07006	0.06801	0.06872
35	0.07446	418.5	414.5	418.5	-0.016	0.143	-0.011	29.56	94.4	76.4	105.2	0.07008	0.06801	0.06872
36	0.07445	415.8	411.7	415.8	-0.005	0.142	-0.002	29.56	95.1	76.8	105.2	0.06998	0.06797	0.06871
37	0.07445	417.3	413.2	417.3	-0.019	0.137	-0.013	29.56	95.2	76.9	105.2	0.06996	0.06795	0.06869
38	0.07445	415.2	411.1	415.2	-0.011	0.14	-0.006	29.56	95.3	76.9	105.4	0.06995	0.06796	0.06868
39	0.07445	408.7	404.7	408.7	-0.016	0.141	-0.011	29.56	95.1	76.8	105.3	0.06998	0.06794	0.06869
40	0.07445	419.5	415.4	419.5	-0.008	0.14	-0.005	29.56	95.2	76.8	105.5	0.06996	0.06794	0.06867
41	0.07445	416.5	412.4	416.5	-0.009	0.141	-0.005	29.56	95.4	76.9	105.6	0.06994	0.06793	0.06866
42	0.07445	413.9	409.9	413.9	-0.007	0.137	-0.003	29.56	95.9	77.2	105.6	0.06987	0.06792	0.06865
43	0.07444	415.2	411.1	415.2	-0.011	0.138	-0.007	29.56	95.8	77.1	105.7	0.06989	0.06791	0.06864
44	0.07443	418.7	414.6	418.7	-0.01	0.143	-0.005	29.56	95.6	77	105.8	0.06991	0.0679	0.06862
45	0.07443	410.3	406.3	410.3	-0.013	0.136	-0.008	29.56	95.9	77.3	105.9	0.06987	0.06789	0.06862
46	0.07443	414.1	410	414.1	-0.011	0.144	-0.007	29.56	95.8	77.1	105.9	0.06989	0.06789	0.06861
47	0.07443	411.6	407.6	411.6	-0.006	0.14	-0.002	29.56	95.9	77.3	106	0.06987	0.06788	0.0686
48	0.07443	415.3	411.3	415.3	-0.011	0.136	-0.006	29.56	95.9	77.1	106.1	0.06988	0.06788	0.06859
49	0.07443	413.4	409.5	413.4	-0.014	0.14	-0.009	29.56	95.8	77.2	106.2	0.06988	0.06787	0.06858
50	0.07442	410.7	406.8	410.7	-0.005	0.139	0	29.56	95.7	77.2	106.2	0.06989	0.06787	0.06857
51	0.07443	404.1	400.3	404.1	-0.004	0.133	0	29.56	96.2	77.5	106.3	0.06984	0.06787	0.06857
52	0.07443	417.4	413.4	417.4	-0.008	0.136	-0.003	29.56	96	77.3	106.3	0.06986	0.06787	0.06856
53	0.07442	414.2	410.2	414.2	-0.016	0.144	-0.012	29.56	95.2	76.9	106.3	0.06996	0.06788	0.06856
54	0.07442	410.6	406.6	410.6	-0.003	0.139	0.003	29.56	95.6	77.2	106.4	0.0699	0.06787	0.06855
55	0.07441	419	415	419	0	0.138	0.005	29.56	95.6	77.2	106.4	0.0699	0.06787	0.06855
56	0.07442	414	410.1	414	-0.004	0.139	0.001	29.56	95.7	77.4	106.5	0.06988	0.06787	0.06854
57	0.07441	416.8	412.9	416.8	-0.013	0.139	-0.009	29.56	96	77.5	106.5	0.06984	0.06786	0.06853
58	0.07441	419.4	415.4	419.4	-0.014	0.141	-0.01	29.56	95.8	77.4	106.5	0.06987	0.06787	0.06853
59	0.07441	407.1	403.2	407.1	-0.008	0.136	-0.004	29.56	96	77.5	106.5	0.06985	0.06787	0.06854
60	0.07441	417.2	413.1	417.2	-0.011	0.137	-0.003	29.56	95.9	77.5	106.5	0.06986	0.06787	0.06853
61	0.0744	409.6	405.6	409.6	-0.007	0.138	-0.002	29.56	95.9	77.4	106.4	0.06987	0.06787	0.06854
62	0.07441	413.9	410	413.9	-0.007	0.133	-0.002	29.56	95.9	77.5	106.4	0.06986	0.06786	0.06855
63	0.07441	413	409	413	-0.009	0.136	-0.004	29.56	95.7	77.4	106.4	0.06989	0.06787	0.06855
64	0.0744	411.7	407.7	411.7	-0.015	0.137	-0.01	29.56	95.3	77.1	106.4	0.06995	0.06788	0.06855
65	0.07441	416	411.9	416	-0.018	0.136	-0.013	29.56	95.4	77.2	106.4	0.06994	0.06789	0.06856

Table 29: Data from A-WM continued.

Count	CondCFM Nozzle	CondCFM Outlet	CondSCFM Nozzle	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Cond Nozzle Temp	Cond Coil Temp	Evap Coil Temp	Cond Airflow at Nozzle
	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	C	C	C	CFM
1	131.1	132.4	131.1	-0.014279	-0.009653	0.138303	40.42466	0.404955	33.57878	131.5659
2	1025.9	1035.9	1025.9	-0.00812	-0.003299	0.13703	40.50123	0.396906	35.42449	1020.248
3	1042.9	1053.1	1042.9	-0.017403	-0.011816	0.143356	40.48923	0.403831	34.12544	1043.755
4	1033.4	1043.7	1033.4	-0.008385	-0.003253	0.142128	40.4784	0.399054	33.72576	1039.267
5	1028.5	1038.4	1028.5	-0.010919	-0.005119	0.137455	40.51783	0.398914	35.40817	1021.893
6	1026.4	1036.3	1026.4	-0.006009	-0.00016	0.136321	40.49104	0.407228	33.63214	1017.595
7	1018.9	1028.7	1018.9	-0.010723	-0.004543	0.140926	40.47935	0.396712	35.28394	1034.832
8	1029.9	1039.7	1029.9	-0.006875	-0.000766	0.139523	40.48066	0.397338	34.26035	1029.583
9	1020.7	1030.2	1020.7	-0.009503	-0.004982	0.144494	40.46338	0.408776	33.71834	1047.942
10	1037	1046.5	1037	-0.015691	-0.010389	0.146115	40.49353	0.397045	33.88756	1053.944
11	1025.9	1035.6	1025.9	-0.009037	-0.004848	0.139702	40.40599	0.40319	33.23193	1030.119
12	1020.3	1030	1020.3	-0.004565	-0.000595	0.141087	40.4084	0.400119	34.52158	1035.288
13	1033.8	1043.8	1033.8	-0.011669	-0.006056	0.141726	40.35637	0.391109	32.55774	1037.629
14	1026.3	1036.3	1026.3	-0.006222	-0.000663	0.135252	40.3447	0.3966	32.96616	1013.321
15	1031	1040.9	1031	-0.013061	-0.00857	0.143113	40.36093	0.400883	33.13477	1042.747
16	1027.2	1037	1027.2	-0.008387	-0.002238	0.1416	40.39528	0.398146	34.03137	1037.225
17	1033.6	1043.5	1033.6	-0.003847	0.000774	0.137501	40.38704	0.403126	32.67611	1021.888
18	1020.2	1030.3	1020.2	-0.008992	-0.002485	0.138928	40.30129	0.395841	33.65954	1027.036
19	1049.3	1059.8	1049.3	-0.007447	-0.003408	0.141613	40.31547	0.403798	34.76742	1037.139
20	1041	1051.4	1041	-0.010492	0.000311	0.138029	40.33231	0.400951	33.2076	1023.768
21	1037.2	1047.8	1037.2	-0.005729	0.000757	0.135395	40.33075	0.401559	34.12893	1013.837
22	1025.8	1036.5	1025.8	-0.006235	-0.001152	0.136094	40.28219	0.399523	33.23137	1016.413
23	1037.6	1048.5	1037.6	-0.006934	-0.002282	0.137995	40.2883	0.390037	34.72587	1023.668
24	1047.8	1058.7	1047.8	-0.007747	-0.003626	0.139484	40.31758	0.392357	33.60012	1029.264
25	1041.1	1052	1041.1	-0.012489	-0.00669	0.141246	40.36732	0.39282	38.73895	1035.895
26	1046.6	1057.5	1046.6	-0.008648	-0.004974	0.144017	40.37166	0.390601	33.52545	1046.099
27	1030.4	1041.1	1030.4	-0.006138	-0.002419	0.138076	40.42802	0.399152	33.55407	1024.16
28	1038.3	1048.7	1038.3	-0.014031	-0.010102	0.143029	40.53858	0.39579	33.34454	1042.771
29	1052.3	1063	1052.3	-0.006678	-0.001684	0.138645	40.5178	0.398527	33.00477	1026.424
30	1026.2	1036.8	1026.2	-0.009576	-0.004801	0.134819	40.52979	0.400753	34.45014	1012.062
31	1034.8	1045.5	1034.8	-0.007714	-0.004363	0.138813	40.52578	0.396866	33.50989	1027.145
32	1035.2	1045.8	1035.2	-0.002717	0.000927	0.137136	40.54471	0.394426	34.5017	1020.862
33	1031.5	1042.3	1031.5	-0.001602	0.002488	0.140961	40.5657	0.394207	36.19274	1035.212
34	1037.6	1048.4	1037.6	-0.015214	-0.010427	0.140692	40.61121	0.398916	34.20084	1034.289
35	1041.8	1052.7	1041.8	-0.008589	-0.005219	0.138925	40.64337	0.391579	34.36103	1027.721
36	1037.7	1048.9	1037.7	-0.006865	-0.002882	0.138474	40.6449	0.392109	33.66507	1026.145
37	1020.6	1031.7	1020.6	-0.011574	-0.007316	0.141676	40.67936	0.397758	34.00562	1038.133
38	1032.4	1043.4	1032.4	-0.008091	-0.001401	0.138818	40.76468	0.384922	33.04808	1027.623
39	1036.1	1047.4	1036.1	-0.009668	-0.004785	0.138805	40.74004	0.391231	33.20265	1027.483
40	1032.7	1043.8	1032.7	-0.008748	-0.005646	0.140684	40.81789	0.396216	32.93554	1034.665
41	1037.5	1048.5	1037.5	-0.010626	-0.005864	0.141928	40.88471	0.396258	35.79541	1039.343
42	1022.5	1033.5	1022.5	-0.005416	-0.002496	0.137849	40.89984	0.39062	33.81482	1024.206
43	1026.2	1037.3	1026.2	-0.010328	-0.007186	0.139472	40.92926	0.399661	34.11061	1030.33
44	1045.2	1056.3	1045.2	-0.007844	-0.00317	0.136477	41.00826	0.397569	33.46335	1019.163
45	1015.7	1026.6	1015.7	-0.011001	-0.00672	0.136914	41.04074	0.396111	34.27411	1020.924
46	1048.9	1060.1	1048.9	-0.009258	-0.005117	0.140244	41.06342	0.389026	34.08795	1033.385
47	1031.7	1042.6	1031.7	-0.014065	-0.011482	0.141923	41.09694	0.389439	33.51306	1039.75
48	1018.9	1029.5	1018.9	-0.013942	-0.00889	0.14066	41.17947	0.387754	33.37675	1035.179
49	1033.2	1043.9	1033.2	-0.008675	-0.004608	0.141918	41.19456	0.378046	34.18392	1039.923
50	1029.2	1039.8	1029.2	-0.01405	-0.009226	0.139476	41.23976	0.384822	34.859	1030.897
51	1007.8	1018.2	1007.8	-0.004996	-0.000646	0.133814	41.25951	0.387251	33.92775	1009.543
52	1017.3	1027.7	1017.3	-0.009175	-0.004854	0.138939	41.26082	0.390424	35.99678	1028.92
53	1047.9	1058.4	1047.9	-0.009979	-0.005394	0.137511	41.29005	0.391452	34.74137	1023.56
54	1027.8	1038.1	1027.8	-0.01112	-0.004862	0.140237	41.31841	0.384068	36.261	1033.865
55	1027.2	1037.4	1027.2	-0.01084	-0.00721	0.140184	41.33648	0.388162	39.36425	1033.694
56	1031	1041.1	1031	-0.01365	-0.008102	0.135299	41.36887	0.393697	35.19846	1015.391
57	1030.2	1040.3	1030.2	-0.008564	-0.005277	0.137838	41.38125	0.390903	33.96767	1025.032
58	1035.4	1045.5	1035.4	-0.015401	-0.011793	0.14317	41.38802	0.381927	35.07455	1044.888
59	1017.5	1027.5	1017.5	-0.012016	-0.006777	0.136135	41.36658	0.397208	37.59484	1018.553
60	1021.4	1031.4	1021.4	-0.007669	-0.003994	0.139163	41.39279	0.3898	36.4553	1029.993
61	1027.1	1037.3	1027.1	-0.008625	-0.005097	0.138889	41.35302	0.391903	34.38288	1028.882
62	1006.6	1016.8	1006.6	-0.009173	-0.003838	0.137619	41.30404	0.386174	34.40012	1024.061
63	1018.2	1028.4	1018.2	-0.011044	-0.009141	0.141169	41.33154	0.394422	35.15942	1037.349
64	1020.2	1030.3	1020.2	-0.007861	-0.004533	0.140111	41.35693	0.379979	33.67528	1033.436
65	1017.4	1027.4	1017.4	-0.007525	-0.002841	0.139475	41.32098	0.38966	35.26178	1030.975

Count	Cond Airflow Standard	Barometric	IndoorDB	IndoorWB	EvapExitDB	EvapExitWB	OutdoorDB	OutdoorWB	EvapStatPres	ChamberDischargePres
	SCFM	in Hg	C	C	C	C	C	C	in/H2O	in/H2O
1	120.6697	29.56076	26.6478	20.63491	14.24187	13.84349	34.95881	24.36327	0.413415	0.404955
2	935.486	29.56127	26.77204	20.59753	14.22586	13.8339	35.14284	24.49645	0.405378	0.396906
3	957.147	29.56048	26.69203	20.59245	14.23827	13.84023	34.67901	24.22152	0.41332	0.403831
4	952.9489	29.55862	26.66383	20.61096	14.23958	13.8546	34.67268	24.30784	0.407009	0.399054
5	936.9105	29.55979	26.61841	20.60357	14.20983	13.84154	34.80639	24.38292	0.406762	0.398914
6	933.0142	29.55778	26.59856	20.61706	14.22946	13.86638	34.78424	24.35969	0.417035	0.407228
7	948.835	29.56007	26.60596	20.61468	14.18535	13.84997	34.87016	24.46573	0.406457	0.396712
8	944.0742	29.56007	26.60098	20.61753	14.18427	13.84874	34.70317	24.36993	0.404711	0.397338
9	960.956	29.56011	26.58	20.62355	14.1941	13.87229	34.64572	24.33682	0.418406	0.408776
10	966.3404	29.56029	26.59964	20.63037	14.19858	13.8807	34.6631	24.35902	0.406435	0.397045
11	944.8203	29.5597	26.59069	20.62363	14.20449	13.87971	34.4551	24.24228	0.411959	0.40319
12	949.5206	29.56007	26.58988	20.63399	14.19695	13.88507	34.44986	24.30086	0.408055	0.400119
13	951.734	29.55878	26.57119	20.64282	14.21192	13.87237	34.49535	24.35339	0.399894	0.391109
14	929.5278	29.55864	26.56606	20.63937	14.21939	13.90413	34.52212	24.32296	0.403946	0.3966
15	956.4342	29.55856	26.58918	20.63897	14.20361	13.90561	34.34294	24.26991	0.409963	0.400883
16	951.2402	29.55897	26.57767	20.65005	14.20699	13.91103	34.56761	24.39648	0.405555	0.398146
17	937.245	29.56014	26.58806	20.64755	14.22062	13.91165	34.59701	24.41396	0.411822	0.403126
18	942.3521	29.56481	26.59047	20.64812	14.21513	13.91233	34.6892	24.45258	0.405445	0.395841
19	951.4112	29.56016	26.58941	20.65783	14.22674	13.91764	34.63056	24.44575	0.411455	0.403798
20	939.1569	29.56151	26.57716	20.66462	14.25207	13.92422	34.55022	24.42186	0.408127	0.400951
21	930.0384	29.5616	26.60581	20.66347	14.27425	13.93023	34.53659	24.44425	0.409503	0.401559
22	932.5491	29.56131	26.55619	20.66911	14.27083	13.95913	34.50789	24.41528	0.408875	0.399523
23	939.0175	29.55999	26.56941	20.66603	14.27524	13.93087	34.76405	24.62219	0.39835	0.390037
24	944.1044	29.56087	26.59604	20.6795	14.25466	13.95706	34.70875	24.58459	0.400301	0.392357
25	950.0548	29.55988	26.56179	20.6913	14.2923	13.97152	34.64938	24.49837	0.401284	0.39282
26	959.4658	29.56154	26.56495	20.6838	14.28203	13.95285	34.48815	24.43866	0.400237	0.390601
27	939.1194	29.56	26.56091	20.69381	14.29395	13.98249	34.39899	24.44384	0.407537	0.399152
28	955.8299	29.56036	26.58608	20.69818	14.30614	13.99557	34.42933	24.45173	0.404345	0.39579
29	940.927	29.56043	26.59218	20.71664	14.33937	14.0174	34.4145	24.46268	0.406112	0.398527
30	927.6517	29.55971	26.59511	20.71472	14.32341	14.02687	34.63803	24.58506	0.409465	0.400753
31	941.4344	29.55638	26.59638	20.72531	14.36131	13.9968	34.36147	24.43986	0.404679	0.396866
32	935.6462	29.55941	26.55748	20.71662	14.35274	14.00682	34.50164	24.57706	0.402754	0.394426
33	948.7235	29.55993	26.55534	20.71656	14.33893	14.02348	34.59725	24.62923	0.402971	0.394207
34	947.7297	29.56165	26.59746	20.73798	14.35683	14.04018	34.70692	24.69985	0.408596	0.398916
35	941.6576	29.56093	26.5965	20.73187	14.37922	14.03865	34.65817	24.63059	0.400733	0.391579
36	940.0054	29.55824	26.55509	20.72802	14.37397	14.02278	35.0252	24.8703	0.401067	0.392109
37	950.8898	29.56027	26.55784	20.73677	14.39589	14.06226	35.11156	24.93873	0.404569	0.397758
38	941.0081	29.55916	26.55774	20.7426	14.42001	14.06291	35.19326	24.94322	0.393279	0.384922
39	941.05	29.56203	26.52786	20.73653	14.42711	14.07916	35.08701	24.90079	0.399398	0.391231
40	947.3124	29.5593	26.554	20.75284	14.44056	14.08859	35.12752	24.89617	0.40618	0.396216
41	951.4781	29.56198	26.57201	20.75952	14.4506	14.10046	35.21161	24.91707	0.405821	0.396258
42	937.4668	29.56197	26.56415	20.76095	14.46306	14.11236	35.52943	25.14459	0.399145	0.39062
43	942.9947	29.56117	26.60573	20.77992	14.46012	14.12003	35.43022	25.06053	0.409561	0.399661
44	932.5893	29.56224	26.5737	20.78753	14.48941	14.09784	35.33204	25.035	0.405882	0.397569
45	934.0153	29.56153	26.54072	20.78318	14.49336	14.14288	35.53336	25.15283	0.406043	0.396111
46	945.4533	29.56302	26.55877	20.79069	14.48819	14.1571	35.44392	25.06009	0.397475	0.389026
47	951.0507	29.56226	26.56805	20.8023	14.49294	14.15235	35.50337	25.16589	0.399144	0.389439
48	946.6377	29.55971	26.57573	20.79961	14.52057	14.16088	35.46723	25.05507	0.398032	0.387754
49	950.8464	29.55847	26.63148	20.84977	14.56251	14.17928	35.43357	25.10239	0.385698	0.378046
50	942.4733	29.55892	26.59657	20.86488	14.55234	14.21509	35.38631	25.08285	0.391982	0.384822
51	922.8826	29.56105	26.55113	20.85485	14.57977	14.22404	35.65686	25.28151	0.395945	0.387251
52	940.6022	29.5602	26.58536	20.83674	14.55787	14.20347	35.5406	25.18481	0.399756	0.390424
53	935.6754	29.55872	26.57808	20.83947	14.57326	14.21843	35.13334	24.95574	0.400722	0.391452
54	944.9473	29.56042	26.59705	20.85142	14.57022	14.21746	35.35036	25.14085	0.393227	0.384068
55	944.7404	29.55984	26.57958	20.86633	14.57186	14.22588	35.33683	25.10597	0.395192	0.388162
56	927.8547	29.5595	26.58985	20.86076	14.5903	14.23022	35.40171	25.19208	0.402584	0.393697
57	936.5848	29.55958	26.59128	20.86508	14.60031	14.28185	35.57141	25.28904	0.399757	0.390903
58	954.7594	29.56049	26.56054	20.86839	14.60063	14.28117	35.45674	25.20227	0.390879	0.381927
59	930.7657	29.56133	26.61906	20.87897	14.62411	14.28109	35.56372	25.28639	0.40666	0.397208
60	941.1421	29.56111	26.56116	20.88818	14.61185	14.30083	35.53458	25.26935	0.399318	0.3898
61	940.2866	29.5618	26.59446	20.8913	14.59982	14.31844	35.47397	25.23017	0.400937	0.391903
62	935.9713	29.56057	26.56874	20.884	14.6029	14.34144	35.51272	25.26406	0.394317	0.386174
63	948.0948	29.56201	26.58083	20.8851	14.62361	14.35758	35.38781	25.19183	0.402564	0.394422
64	944.4766	29.56099	26.60249	20.8916	14.62519	14.31415	35.19984	25.07976	0.389289	0.379979
65	942.3804	29.5623	26.58572	20.89082	14.61535	14.33041	35.21853	25.08799	0.399439	0.38966

Count	EvapDiffPres	EvapNozzTemp	Airflow at Nozzle	Standard Air Flow	CondVoltage	CondPower	Cond Exit Dry-bulb	Cond Exit Wet-bulb	RH	Evap Disch Temp
	in/H2O	C	CFM	SCFM	V	kW	C	C	%	C
1	0.09176	17.14154	NaN	NaN	227.8977	2.245293	43.62248	28.1043	74.20473	28.61664
2	0.088728	17.12474	412.982	410.1618	227.8902	2.248244	43.67232	28.15936	74.3119	28.63357
3	0.091561	17.10966	419.6	416.7427	228.009	2.250142	43.68051	28.20535	74.27909	28.66089
4	0.089199	17.0899	414.0902	411.2605	228.0822	2.248044	43.67151	28.2335	74.23968	28.67314
5	0.089804	17.06561	415.4869	412.6957	228.0909	2.247923	43.64352	28.24721	74.22633	28.68742
6	0.091338	17.09211	419.0986	416.2168	228.0424	2.245159	43.60537	28.24502	74.31628	28.67384
7	0.089218	17.08373	414.1271	411.3165	228.0742	2.242042	43.59085	28.25943	74.32636	28.66969
8	0.08873	17.08405	412.9768	410.1732	228.0671	2.240108	43.55388	28.26044	74.28961	28.63839
9	0.08916	17.10529	414.0026	411.1695	228.198	2.244798	43.51566	28.26718	74.25233	28.62926
10	0.087914	17.11094	411.0725	408.2431	228.1626	2.241564	43.49745	28.27911	74.28635	28.62019
11	0.091262	17.09371	418.9119	416.0492	228.1635	2.243155	43.47676	28.28923	74.24067	28.60491
12	0.092894	17.10202	422.6946	419.7907	228.1473	2.243512	43.49687	28.30361	74.20603	28.59108
13	0.089436	17.08471	414.6585	411.8056	228.2937	2.243802	43.48936	28.31775	74.31702	28.58942
14	0.090467	17.08507	417.0705	414.2036	228.3425	2.242287	43.49852	28.32515	74.25871	28.58106
15	0.090349	17.09711	416.7998	413.9237	228.4888	2.243421	43.47722	28.33592	74.1189	28.57959
16	0.090415	17.09327	416.9524	414.0786	228.4119	2.24317	43.46003	28.346	74.14039	28.5632
17	0.091779	17.10217	420.1175	417.2314	228.5506	2.24176	43.47299	28.36465	74.19082	28.55512
18	0.091247	17.09026	418.8446	416.0438	228.3273	2.247927	43.52821	28.38958	74.09265	28.57251
19	0.089498	17.11554	414.811	411.9422	228.476	2.249027	43.53945	28.42332	74.16597	28.58474
20	0.092936	17.11302	422.7886	419.8774	228.455	2.249391	43.58461	28.44604	74.17523	28.59446
21	0.08951	17.12357	414.8363	411.9738	228.5138	2.249332	43.61933	28.47286	74.25643	28.63164
22	0.089784	17.10581	415.4729	412.6176	228.6642	2.252937	43.66636	28.49682	74.27398	28.65008
23	0.088686	17.12503	412.9182	410.0287	228.3313	2.250502	43.69616	28.5239	74.27264	28.68234
24	0.088021	17.11769	411.3378	408.4831	228.3416	2.252459	43.72453	28.54744	74.50472	28.70196
25	0.088998	17.1179	413.6536	410.7605	228.3768	2.25636	43.73873	28.56689	74.33287	28.73654
26	0.090072	17.14783	416.1807	413.2503	228.2925	2.255119	43.75832	28.59376	74.39228	28.7613
27	0.090133	17.1392	416.3255	413.3895	228.2214	2.257925	43.81881	28.616	74.50265	28.78773
28	0.089075	17.12837	413.8345	410.9352	228.2859	2.257596	43.79738	28.63609	74.45597	28.81213
29	0.090436	17.14751	417.0386	414.0863	228.2873	2.25776	43.82131	28.65164	74.42557	28.8216
30	0.090085	17.15337	416.2247	413.2632	228.1003	2.261207	43.85432	28.67761	74.46427	28.84147
31	0.088529	17.1526	412.5971	409.6101	227.9582	2.257742	43.88896	28.71053	74.57674	28.86756
32	0.089482	17.17599	414.8379	411.8394	228.1035	2.261255	43.89214	28.73946	74.47375	28.88574
33	0.089721	17.17552	415.3928	412.3977	228.0314	2.263899	43.94766	28.77579	74.59152	28.91305
34	0.090941	17.16497	418.2243	415.2488	228.1015	2.266993	43.99617	28.81662	74.70618	28.95606
35	0.088701	17.1708	412.9876	410.0279	228.0857	2.269934	44.04718	28.84997	74.60421	28.98978
36	0.087422	17.19486	409.9976	406.9871	228.0005	2.273144	44.11523	28.89248	74.68053	29.0313
37	0.088524	17.19525	412.5907	409.5909	228.0299	2.276429	44.19085	28.93304	74.73972	29.08827
38	0.088487	17.19986	412.5218	409.4854	228.0008	2.277987	44.23364	28.97107	74.81866	29.13093
39	0.09081	17.2137	417.9532	414.9008	228.1012	2.278769	44.27128	29.00659	74.82936	29.18748
40	0.08826	17.20291	411.9807	408.9539	228.104	2.283019	44.29852	29.04175	74.87772	29.22611
41	0.089175	17.23023	414.1418	411.0966	227.838	2.279726	44.336	29.07021	74.92026	29.2674
42	0.089596	17.22262	415.1284	412.0792	227.9912	2.284771	44.38685	29.10275	74.9634	29.30269
43	0.089038	17.25971	413.8439	410.7479	228.0709	2.28351	44.42651	29.13182	75.09084	29.3428
44	0.091824	17.25203	420.3408	417.2114	228.1859	2.287974	44.47137	29.16524	75.03867	29.38631
45	0.089446	17.25745	414.8046	411.6978	227.9336	2.286692	44.46703	29.19211	75.14286	29.42406
46	0.087796	17.25562	410.9046	407.8442	227.9814	2.283941	44.49672	29.21402	75.13034	29.45508
47	0.086754	17.25176	408.4329	405.3842	228.0676	2.288603	44.53304	29.24318	75.20592	29.47233
48	0.0886	17.25143	412.828	409.7094	228.0479	2.28787	44.55697	29.26096	75.17803	29.49098
49	0.087525	17.25736	410.3083	407.1631	228.1821	2.290828	44.57595	29.28204	75.20493	29.50955
50	0.087979	17.25783	411.382	408.2317	228.1592	2.288002	44.58958	29.31875	75.23448	29.55044
51	0.087877	17.28485	411.141	407.9855	228.0663	2.290321	44.59519	29.33684	75.27741	29.54203
52	0.088617	17.30233	412.9044	409.7112	228.1332	2.290556	44.57316	29.35153	75.28345	29.55726
53	0.088334	17.30385	412.248	409.0367	228.1327	2.289635	44.56769	29.3601	75.26273	29.56107
54	0.089009	17.29438	413.8266	410.6299	227.936	2.289607	44.56241	29.37073	75.28693	29.56843
55	0.088531	17.30348	412.7088	409.4975	228.1372	2.286805	44.53853	29.38067	75.34172	29.56329
56	0.089746	17.31275	415.5741	412.3299	228.1379	2.292128	44.55509	29.38597	75.32355	29.5691
57	0.088853	17.30847	413.4724	410.2486	228.0711	2.288499	44.57312	29.40186	75.20734	29.56282
58	0.087816	17.3074	411.0209	407.8179	228.2157	2.288954	44.54702	29.41499	75.28224	29.57249
59	0.091368	17.3199	419.3449	416.0858	228.1812	2.288863	44.55936	29.43038	75.36628	29.55506
60	0.089034	17.35648	413.9281	410.6418	228.1183	2.291032	44.58294	29.44362	75.32868	29.56471
61	0.089587	17.34492	415.2117	411.9454	228.006	2.292881	44.56063	29.45707	75.31136	29.56895
62	0.088289	17.35621	412.1749	408.8947	228.0289	2.290494	44.59976	29.46722	75.30996	29.58051
63	0.089881	17.37098	415.9165	412.6135	228.1623	2.288424	44.55458	29.47307	75.35135	29.56013
64	0.088167	17.38465	411.9062	408.5886	228.1687	2.290658	44.54711	29.47655	75.24703	29.56415
65	0.088628	17.37229	412.9727	409.6903	228.1219	2.288635	44.50718	29.47796	75.26577	29.54409

Count	Cooling Capacity	Total Cooling Capacity	Sensible Cooling Capacity	Latent Cooling Capacity	Duct Loss Correction	Total Cooling Capacity Cond Side	Corrected Total Cooling Capacity	Corrected Sensible Cooling Capacity	Sensible Cooling Capacity Cond Side
	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr
1	2588227	2588110	1621348	966762.1	117.1	-3787.1	2588227	1621465	-5535.089
2	16570.68	16452.4	10433.63	6018.776	118.3	21677.3	16570.68	10551.9	8509.805
3	16399.96	16285.24	10291.63	5993.618	114.7	24232.7	16399.96	10406.34	9416.211
4	16555.13	16440.45	10361.32	6079.128	114.7	23304.5	16555.13	10476	9130.71
5	16369.37	16253.3	10257.73	5995.575	116.1	23285.9	16369.37	10373.8	9026.922
6	16248.25	16132.31	10156.54	5975.776	115.9	23619.4	16248.25	10272.48	9044.889
7	16504.52	16387.56	10299.71	6087.856	117	23524.1	16504.52	10416.66	9187.671
8	16196	16080.28	10114.8	5965.48	115.7	23643.8	16196	10230.52	9112.044
9	16518.66	16403.63	10297.07	6106.563	115	23911.8	16518.66	10412.09	9134.84
10	16381.42	16266.25	10254.91	6011.34	115.2	23861.6	16381.42	10370.08	9125.519
11	16598.04	16484.72	10382.98	6101.745	113.3	25266.8	16598.04	10496.3	9661.868
12	16623.96	16510.6	10345.57	6165.035	113.4	23947.4	16623.96	10458.92	9226.656
13	16479.95	16366.12	10255.52	6110.599	113.8	24413.5	16479.95	10369.35	9482.891
14	16319.78	16205.97	10196.35	6009.622	113.8	24125.6	16319.78	10310.16	9153.775
15	16425.96	16313.53	10254.32	6059.208	112.4	25435	16425.96	10366.75	9951.796
16	16430.23	16316.07	10235.93	6080.135	114.2	24848.5	16430.23	10350.1	9626.301
17	16376.74	16262.35	10223.8	6038.545	114.4	24037	16376.74	10338.19	9067.914
18	16334.86	16219.83	10156.81	6063.021	115	24148.8	16334.86	10271.84	9071.146
19	16380.37	16265.75	10210.28	6055.474	114.6	25278.6	16380.37	10324.89	9687.21
20	16611.78	16497.54	10329.39	6168.152	114.2	25701.9	16611.78	10443.63	9903.744
21	16499.61	16385.91	10262.68	6123.237	113.7	25252	16499.61	10376.37	9752.29
22	16566.92	16453.44	10283.15	6170.289	113.5	25712.1	16566.92	10396.64	9858.834
23	16158.96	16043.06	9998.402	6044.655	115.9	24368.5	16158.96	10114.31	9427.252
24	16356.09	16240.61	10161.66	6078.946	115.5	24150.7	16356.09	10277.15	9194.508
25	16267.5	16152.75	10089.41	6063.345	114.8	25350.7	16267.5	10204.16	9637.775
26	16076.17	15962.71	9969.462	5993.246	113.5	25870.7	16076.17	10082.92	9867.39
27	16432.65	16319.8	10180.05	6139.755	112.8	25688.4	16432.65	10292.89	9868.129
28	16341.77	16229.16	10125.17	6103.985	112.6	26684.4	16341.77	10237.79	10272.38
29	16251.08	16138.59	10092.58	6046.011	112.5	26671.6	16251.08	10205.07	10333.43
30	16190.51	16076.15	10048.98	6027.173	114.4	25884	16190.51	10163.33	9848.102
31	16366.31	16254.32	10121.07	6133.249	112	26825.9	16366.31	10233.06	10231.46
32	16151.9	16038.59	9958.817	6079.771	113.3	26229.3	16151.9	10072.13	10086.5
33	16669.12	16555	10297.61	6257.39	114.1	26195.3	16669.12	10411.73	9966.686
34	16359.27	16244.35	10029.55	6214.799	114.9	25741.9	16359.27	10144.47	9772.006
35	16368.99	16254.79	10075.01	6179.783	114.2	27183.5	16368.99	10189.21	10273.05
36	16370.76	16253.29	10070.15	6183.146	117.5	25145.9	16370.76	10187.61	9393.306
37	16548.82	16430.47	10148.33	6282.143	118.3	25004.7	16548.82	10266.68	9331.121
38	16436.58	16317.61	10074.26	6243.344	119	24847	16436.58	10193.24	9074.609
39	16106.32	15987.97	9902.503	6085.466	118.4	26114.8	16106.32	10020.86	9701.382
40	16354.85	16236.44	10042.37	6194.07	118.4	25662.7	16354.85	10160.78	9180.909
41	16303.93	16185.09	10013.3	6171.793	118.8	26553.8	16303.93	10132.13	9570.826
42	16418.72	16296.88	10039.17	6257.716	121.8	24834	16418.72	10161	8864.051
43	16238.45	16117.7	9959.746	6157.952	120.7	26147.6	16238.45	10080.49	9328.496
44	16471.9	16352.03	10054.8	6297.235	119.9	26247.3	16471.9	10174.67	9418.703
45	16397.62	16275.91	9993.905	6282.003	121.7	25802.6	16397.62	10115.62	9196.668
46	16168.57	16047.8	9921.73	6126.067	120.8	26787.5	16168.57	10042.5	9482.174
47	16482.59	16361.05	10069.34	6291.707	121.5	26441	16482.59	10190.88	9425.965
48	16386.88	16266.25	10070.83	6195.418	120.6	27769.6	16386.88	10191.46	9669.179
49	16615.43	16495.36	10097.4	6397.96	120.1	27665.5	16615.43	10217.47	9854.983
50	16061.25	15941.61	9787.921	6153.692	119.6	28265.5	16061.25	9907.562	9930.783
51	15990	15867.65	9743.138	6124.509	122.3	26170.4	15990	9865.488	9159.727
52	16235.6	16114.3	9942.796	6171.501	121.3	27604.5	16235.6	10064.1	9573.668
53	16334.82	16217.06	9954.687	6262.376	117.8	29154.9	16334.82	10072.44	10198.24
54	16318.08	16198.45	10006.2	6192.251	119.6	27664	16318.08	10125.83	9720.617
55	16081.12	15961.72	9806.731	6154.984	119.4	28218.6	16081.12	9926.14	9804.041
56	16297.53	16177.61	9930.042	6247.57	119.9	26786.1	16297.53	10049.96	9283.357
57	16088.36	15966.93	9782.315	6184.616	121.4	27132	16088.36	9903.742	9511.009
58	16407.45	16286.97	9997.486	6289.484	120.5	27342.5	16407.45	10117.96	9369.129
59	16201.11	16079.96	9911.836	6168.121	121.2	26886.6	16201.11	10032.99	9196.935
60	16093.29	15972.05	9757.543	6214.505	121.2	27022.8	16093.29	9878.783	9197.498
61	16214.11	16093.56	9904.583	6188.981	120.5	27490	16214.11	10025.13	9357.609
62	16159.71	16038.81	9867.147	6171.658	120.9	27942.1	16159.71	9988.058	9648.378
63	16259.39	16139.52	9963.372	6176.146	119.9	27916.8	16259.39	10083.24	9459.171
64	16059.89	15941.78	9836.945	6104.831	118.1	28788.8	16059.89	9955.063	9810.456
65	16016.77	15898.61	9846.148	6052.466	118.2	29632	16016.77	9964.301	10143.55

Table 30: Data from D-DM testing condition.

Count	Chamber Discharge Pres	External Static Pressure	Evap Diff Pres	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Barometric Pres	Indoor Temp	Indoor Temp Ref	Evap Exit Drybulb	Cond Exit Drybulb	Evap Coil Temp	Outdoor Temp Ref	Evap Nozzle Temp
s	IWC	IWC	IWC	IWC	IWC	IWC	in. Hg	C	C	C	C	C	C	C
1	0.46	0.47	0.11	0.03	0.04	0.2	29.782	26.82	25.67	13.38	41.03	28.34	24.9	16.52
2	0.46	0.48	0.11	0	0.06	0.11	29.769	26.88	25.71	13.38	41.01	27.97	24.75	16.49
3	0.44	0.45	0.09	0.02	0.03	0.12	29.783	26.93	25.71	13.36	40.93	28	24.87	16.48
4	0.45	0.46	0.1	0.07	0.06	0.12	29.783	26.86	25.71	13.37	40.89	28.14	25.34	16.52
5	0.43	0.45	0.08	0.03	0.07	0.2	29.782	26.7	25.73	13.35	40.95	28.28	26.02	16.52
6	0.45	0.46	0.1	0.01	0.03	0.17	29.825	26.87	25.75	13.38	41.16	28.56	26.38	16.49
7	0.45	0.46	0.11	0.06	0.05	0.06	29.786	26.87	25.75	13.41	41.26	28.75	26.5	16.5
8	0.46	0.47	0.1	0.03	0.03	0.15	29.793	26.78	25.79	13.39	41.39	28.77	26.78	16.49
9	0.44	0.46	0.1	0.01	0.05	0.19	29.789	26.97	25.77	13.43	41.51	32.88	27.15	16.47
10	0.46	0.48	0.1	0.03	0.03	0.16	29.755	27	25.8	13.45	41.85	29.19	27.92	16.5
11	0.46	0.47	0.09	0.05	0.02	0.1	29.782	27.02	25.79	13.5	42.03	39.94	28.25	16.45
12	0.45	0.47	0.1	0.03	0.03	0.11	29.796	27.05	25.8	13.51	42.22	29.55	28.54	16.45
13	0.43	0.45	0.1	0.01	0.05	0.17	29.768	26.94	25.79	13.55	42.41	29.69	28.75	16.44
14	0.46	0.46	0.11	0.05	0.03	0.13	29.783	26.84	25.79	13.57	42.63	29.59	28.88	16.44
15	0.44	0.46	0.11	0.09	0.05	0.22	29.788	26.95	25.8	13.59	42.75	30.07	28.96	16.41
16	0.47	0.49	0.1	0.07	0.06	0.14	29.796	26.87	25.79	13.62	42.85	30.01	28.81	16.44
17	0.46	0.48	0.11	-0.01	0.02	0.11	29.78	26.84	25.81	13.63	42.97	47.31	28.49	16.46
18	0.46	0.46	0.1	0.02	0.05	0.11	29.788	26.85	25.81	13.65	42.99	29.68	28.13	16.45
19	0.44	0.46	0.09	0.04	0.01	0.11	29.785	26.88	25.81	13.69	42.95	29.39	27.96	16.48
20	0.44	0.45	0.1	0	0.03	0.14	29.791	27.05	25.84	13.65	42.89	30.4	28.19	16.5
21	0.46	0.47	0.1	0	0.07	0.2	29.789	26.99	25.85	13.64	42.91	29.59	28.21	16.47
22	0.45	0.46	0.1	0.03	0.03	0.11	29.783	27.09	25.85	13.61	42.93	29.31	28.11	16.51
23	0.45	0.46	0.1	0.06	0.05	0.18	29.771	27.09	25.87	13.57	43	29.85	28.51	16.53
24	0.46	0.47	0.09	0.06	0.03	0.14	29.786	27.02	25.92	13.6	43.08	29.73	29.19	16.51
25	0.46	0.47	0.1	0.02	0.01	0.08	29.782	26.99	25.9	13.59	43.29	30.3	29.58	16.55
26	0.45	0.46	0.1	0.05	0.05	0.15	29.769	27.13	25.92	13.6	43.44	30.03	29.93	16.53
27	0.46	0.47	0.09	0.05	0.01	0.16	29.775	27.14	25.94	13.58	43.53	29.99	29.61	16.53
28	0.45	0.47	0.1	0.02	0.04	0.17	29.786	27.07	25.98	13.59	43.57	30.28	29.5	16.54
29	0.46	0.47	0.1	-0.02	0.01	0.08	29.775	27.12	26.01	13.56	43.59	75.69	29.15	16.56
30	0.46	0.47	0.11	0.03	0.02	0.09	29.785	27.18	26	13.57	43.6	29.73	28.97	16.56
31	0.46	0.47	0.1	0.05	0.04	0.13	29.779	27.31	26.01	13.57	43.61	29.79	28.91	16.58
32	0.47	0.48	0.09	0.05	0.05	0.03	29.779	27.29	26.05	13.57	43.6	30.01	28.57	16.6
33	0.46	0.47	0.11	0.01	0.01	0.11	29.786	27.36	26.05	13.55	43.54	29.7	28.65	16.57
34	0.47	0.49	0.1	0.03	0.04	0.09	29.779	27.29	26.09	13.58	43.51	95	28.62	16.6
35	0.46	0.47	0.11	0.05	0.04	0.13	29.775	27.09	26.09	13.54	43.45	29.89	28.26	16.61
36	0.46	0.47	0.11	0.01	0.04	0.17	29.782	27.07	26.08	13.47	43.39	29.57	28.19	16.63
37	0.46	0.48	0.1	0.04	0.02	0.13	29.788	27.1	26.07	13.43	43.28	29.29	27.8	16.63
38	0.45	0.47	0.1	0.04	0.03	0.15	29.777	27.05	26.05	13.37	43.18	29.22	27.85	16.65
39	0.45	0.46	0.11	0.03	0.05	0.07	29.779	27.08	26.04	13.37	43.04	36.18	27.6	16.64
40	0.46	0.48	0.1	0.01	0.02	0.14	29.777	27.02	26.04	13.34	42.95	31.75	27.77	16.69
41	0.46	0.48	0.1	0	0.06	0.14	29.765	27.07	26.03	13.31	42.9	29.56	27.47	16.63
42	0.46	0.47	0.09	0.02	0.06	0.15	29.782	27.15	26.04	13.34	42.83	29	27.13	16.64
43	0.47	0.49	0.11	-0.01	0.02	0.15	29.793	27.25	26.04	13.36	42.68	28.82	26.39	16.67
44	0.46	0.48	0.1	0.01	0.02	0.12	29.775	27.34	26.06	13.36	42.52	28.63	25.78	16.66
45	0.47	0.48	0.09	0.02	0.08	0.19	29.769	27.44	26.08	13.33	42.23	28.29	24.58	16.65
46	0.46	0.48	0.09	0.03	0.02	0.17	29.777	27.35	26.13	13.28	41.84	44.57	23.54	16.64
47	0.45	0.47	0.1	0.05	0.05	0.07	29.779	27.17	26.12	13.2	41.4	28.07	23.77	16.65
48	0.47	0.48	0.1	0.05	0.05	0.19	29.78	27.26	26.16	13.16	41.13	65.3	24.73	16.65
49	0.46	0.48	0.09	0.03	0.06	0.18	29.775	27.19	26.13	13.12	41.03	28.04	25.82	16.65
50	0.44	0.46	0.09	0.04	0.05	0.03	29.783	27.13	26.12	13.07	41.09	53.3	26.75	16.63
51	0.44	0.46	0.1	0.04	0.04	0.12	29.737	27.19	26.12	13.09	41.29	28.86	27.6	16.6
52	0.45	0.46	0.1	0.07	0.02	0.06	29.785	27.17	26.14	13.09	41.56	30.73	28.34	16.59
53	0.45	0.47	0.09	0.06	0.02	0.19	29.771	26.94	26.14	13.1	41.86	125.29	28.91	16.61
54	0.46	0.48	0.1	0.07	0.05	0.09	29.772	26.77	26.1	13.08	42.17	30.5	28.95	16.61
55	0.45	0.47	0.09	0.02	0.04	0.1	29.768	26.66	26.07	13.07	42.4	29.89	28.55	16.62
56	0.46	0.47	0.1	0.01	0.05	0.15	29.771	26.63	26.04	13.07	42.53	29.55	27.64	16.58
57	0.45	0.47	0.1	0	0.02	0.18	29.768	26.61	26	13.05	42.47	29.22	26.22	16.58
58	0.45	0.46	0.1	0	0.01	0.18	29.772	26.59	25.97	13.02	42.23	28.55	25.31	16.56
59	0.45	0.46	0.1	0.05	0.04	0.13	29.775	26.49	25.95	13.01	41.85	28.3	24.81	16.57
60	0.43	0.45	0.09	0.01	0.05	0.18	29.775	26.36	25.89	12.96	41.55	28.39	25.13	16.53

Count	Indoor Wetbulb	Outdoor Temp	Cond Exit Wetbulb	Outdoor Wetbulb	Cond Nozzle Temp	Evap Exit Wetbulb	EvapFanOutStatPres	EvapNozDiffPres	EvapNozStatPres	EvapBarPres	EvapDryInletTemp	EvapWetInletTemp	EvapNozzleTemp	EvapRhoInlet
s	C	C	C	C	C	C	in/H2O	in/H2O	in/H2O	in/Hg	C	C	C	lb/ft^3
1	20.47	29.03	23.9	20.21	37.01	13.19	0.466	0.1	0.466	29.79	80.3	68.8	61.7	0.07259
2	20.44	28.9	23.89	20.2	36.89	13.15	0.456	0.103	0.456	29.79	80.3	68.8	61.7	0.07258
3	20.49	28.79	23.87	20.15	36.77	13.18	0.444	0.099	0.444	29.79	80.5	68.9	61.7	0.07257
4	20.49	28.64	23.86	20.11	36.7	13.18	0.448	0.099	0.448	29.79	80.3	68.9	61.7	0.07258
5	20.43	28.63	23.88	20.15	36.62	13.14	0.435	0.097	0.435	29.79	80	68.8	61.7	0.07262
6	20.42	28.97	23.98	20.34	36.56	13.15	0.454	0.101	0.454	29.79	80.3	68.8	61.7	0.07258
7	20.47	29.17	23.97	20.39	36.51	13.17	0.44	0.099	0.44	29.79	80.4	68.8	61.7	0.07257
8	20.42	29.19	23.93	20.38	36.52	13.18	0.454	0.099	0.454	29.78	80.2	68.8	61.7	0.07259
9	20.47	29.26	23.88	20.32	36.55	13.19	0.454	0.101	0.454	29.78	80.5	68.8	61.7	0.07255
10	20.57	29.59	23.84	20.31	36.51	13.21	0.443	0.099	0.443	29.78	80.6	69	61.7	0.07253
11	20.58	29.65	23.81	20.25	36.59	13.23	0.466	0.101	0.466	29.78	80.6	69.1	61.6	0.07253
12	20.63	29.91	23.81	20.3	36.64	13.25	0.453	0.098	0.453	29.78	80.7	69.1	61.6	0.07252
13	20.63	30.01	23.8	20.27	36.66	13.27	0.447	0.099	0.447	29.78	80.5	69.1	61.6	0.07254
14	20.61	30.16	23.79	20.26	36.74	13.3	0.455	0.101	0.455	29.78	80.3	69.1	61.6	0.07257
15	20.61	30.41	23.78	20.33	36.86	13.38	0.44	0.1	0.44	29.78	80.5	69.1	61.5	0.07254
16	20.62	30.43	23.77	20.29	36.95	13.4	0.457	0.102	0.457	29.78	80.3	69.1	61.6	0.07257
17	20.64	30.42	23.75	20.16	37.06	13.41	0.468	0.104	0.468	29.78	80.3	69.2	61.6	0.07256
18	20.65	30.5	23.72	20.17	37.12	13.43	0.457	0.102	0.457	29.78	80.3	69.2	61.6	0.07256
19	20.67	30.57	23.68	20.13	37.23	13.43	0.455	0.103	0.455	29.78	80.4	69.2	61.7	0.07255
20	20.66	30.69	23.64	20.15	37.24	13.47	0.449	0.1	0.449	29.78	80.7	69.2	61.7	0.07252
21	20.64	30.81	23.6	20.14	37.29	13.45	0.458	0.101	0.458	29.78	80.6	69.1	61.7	0.07253
22	20.6	30.68	23.57	20.01	37.36	13.41	0.453	0.101	0.453	29.78	80.7	69.1	61.7	0.07251
23	20.56	30.64	23.77	20.13	37.4	13.38	0.452	0.102	0.452	29.78	80.8	69	61.8	0.0725
24	20.51	30.74	24.21	20.45	37.46	13.35	0.459	0.101	0.459	29.78	80.7	68.9	61.7	0.07253
25	20.47	30.8	24.67	20.82	37.47	13.37	0.458	0.101	0.458	29.78	80.6	68.8	61.8	0.07253
26	20.46	31.09	24.78	21.13	37.52	13.37	0.455	0.102	0.455	29.78	80.8	68.8	61.7	0.07251
27	20.43	31.05	24.83	21.2	37.51	13.37	0.456	0.1	0.456	29.78	80.8	68.8	61.8	0.07251
28	20.43	31.19	24.77	21.2	37.67	13.35	0.459	0.102	0.459	29.78	80.7	68.8	61.8	0.07252
29	20.42	31.21	24.71	21.13	37.75	13.33	0.455	0.102	0.455	29.78	80.8	68.7	61.8	0.07251
30	20.37	31.17	24.74	21.13	37.85	13.35	0.462	0.102	0.462	29.78	80.9	68.7	61.8	0.0725
31	20.39	31.11	24.77	21.16	37.9	13.32	0.46	0.1	0.46	29.78	81.1	68.7	61.8	0.07247
32	20.39	31.3	24.8	21.21	37.94	13.34	0.449	0.099	0.449	29.78	81.1	68.7	61.9	0.07247
33	20.39	31.24	24.81	21.23	37.92	13.27	0.465	0.104	0.465	29.78	81.2	68.7	61.9	0.07246
34	20.37	31.15	24.8	21.14	37.96	13.25	0.465	0.102	0.465	29.78	81.1	68.7	61.9	0.07247
35	20.33	31.17	24.79	21.15	37.95	13.23	0.442	0.097	0.442	29.78	80.8	68.6	61.9	0.07252
36	20.27	30.96	24.75	21.01	38.02	13.17	0.456	0.101	0.456	29.78	80.7	68.5	61.9	0.07252
37	20.24	30.99	24.72	21.02	38.04	13.14	0.456	0.103	0.456	29.78	80.8	68.4	62	0.07253
38	20.21	31.21	24.69	21.09	38.09	13.11	0.453	0.1	0.453	29.78	80.7	68.4	62	0.07253
39	20.2	31.03	24.64	20.99	37.98	13.08	0.453	0.103	0.453	29.78	80.7	68.4	61.9	0.07253
40	20.19	30.85	24.62	20.89	37.97	13.05	0.468	0.101	0.468	29.78	80.7	68.3	62	0.07254
41	20.22	30.92	24.62	21.01	37.97	13.03	0.454	0.101	0.454	29.78	80.7	68.4	61.9	0.07253
42	20.26	30.89	24.6	21.01	37.91	13.04	0.457	0.101	0.457	29.78	80.9	68.5	62	0.0725
43	20.26	30.56	24.54	20.85	37.87	13.04	0.464	0.1	0.464	29.78	81.1	68.5	62	0.07249
44	20.25	30.46	24.5	20.83	37.87	13.04	0.458	0.101	0.458	29.78	81.2	68.4	62	0.07247
45	20.25	30.17	24.42	20.67	37.8	13.28	0.465	0.1	0.465	29.78	81.4	68.5	61.9	0.07244
46	20.25	29.82	24.27	20.5	37.73	13.25	0.46	0.099	0.46	29.78	81.2	68.4	61.9	0.07246
47	20.23	29.19	24.1	20.14	37.68	13.19	0.455	0.098	0.455	29.78	80.9	68.4	62	0.07249
48	20.22	29.11	24.01	20.13	37.51	12.99	0.461	0.099	0.461	29.78	81.1	68.4	62	0.07248
49	20.18	29.03	24.01	20.13	37.35	13.17	0.458	0.1	0.458	29.78	81	68.3	62	0.0725
50	20.18	29.31	24.06	20.34	37.27	13.1	0.453	0.099	0.453	29.77	80.8	68.3	61.9	0.0725
51	20.17	29.39	24.22	20.5	37.11	13.08	0.458	0.101	0.458	29.77	80.9	68.3	61.9	0.07249
52	20.17	29.68	24.46	20.81	37.01	13.09	0.453	0.097	0.453	29.78	80.9	68.3	61.9	0.07251
53	20.12	29.94	24.62	21.02	36.91	13.1	0.456	0.098	0.456	29.78	80.5	68.2	61.9	0.07256
54	20.05	30.31	24.66	21.2	36.95	13.08	0.454	0.098	0.454	29.77	80.2	68.1	61.9	0.07259
55	20.01	30.51	24.69	21.27	36.99	13.01	0.452	0.099	0.452	29.78	80	68	61.9	0.07262
56	20	30.58	24.69	21.27	37.08	13.28	0.455	0.096	0.455	29.78	79.9	68	61.8	0.07263
57	19.98	30.56	24.64	21.19	37.09	13.26	0.449	0.097	0.449	29.77	79.9	68	61.8	0.07263
58	19.96	30.19	24.46	20.91	37.13	13.24	0.452	0.1	0.452	29.78	79.8	67.9	61.8	0.07265
59	19.95	29.79	24.26	20.54	37.13	13.14	0.446	0.097	0.446	29.78	79.7	67.9	61.8	0.07267
60	19.92	29.39	24.09	20.29	37.15	13.1	0.444	0.098	0.444	29.77	79.4	67.9	61.7	0.07269

Count	EvapRhoOutlet	EvapRhoNozzle	EvapCFMNozzle	EvapCFMOutlet	EvapSCFMNozzle	CondFanOutStatPres	CondNozDiffPres	CondNozStatPres	CondBarPres	CondDryInletTemp	CondWetInletTemp	CondNozzleTemp	CondRhoInlet	CondRhoOutlet
s	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	in/Hg	C	C	C	lb/ft^3	lb/ft^3
1	0.07608	0.07524	437.6	432.8	437.6	0.031	0.136	0.035	29.79	84.3	68.4	98.6	0.07211	0.06936
2	0.07608	0.07524	443.7	438.8	443.7	0.033	0.126	0.038	29.79	84	68.4	98.4	0.07214	0.06937
3	0.07609	0.07524	435.5	430.6	435.5	0.031	0.127	0.036	29.79	83.8	68.3	98.2	0.07217	0.06939
4	0.07608	0.07524	433.8	429	433.8	0.036	0.127	0.041	29.79	83.6	68.2	98.1	0.0722	0.0694
5	0.07608	0.07523	429.4	424.5	429.4	0.034	0.131	0.037	29.79	83.5	68.3	97.9	0.0722	0.06938
6	0.07608	0.07525	438	433.2	438	0.031	0.13	0.037	29.79	84.1	68.6	97.8	0.07212	0.06933
7	0.07607	0.07524	434.1	429.4	434.1	0.036	0.133	0.039	29.79	84.5	68.7	97.7	0.07207	0.0693
8	0.07607	0.07524	433.3	428.5	433.3	0.029	0.13	0.033	29.78	84.5	68.7	97.7	0.07206	0.06927
9	0.07606	0.07524	439.7	435	439.7	0.032	0.131	0.035	29.78	84.7	68.6	97.8	0.07205	0.06925
10	0.07604	0.07523	434.9	430.2	434.9	0.026	0.133	0.028	29.78	85.3	68.6	97.7	0.07197	0.06918
11	0.07603	0.07524	439.3	434.7	439.3	0.038	0.126	0.041	29.78	85.4	68.4	97.9	0.07196	0.06915
12	0.07603	0.07524	433	428.6	433	0.03	0.129	0.034	29.78	85.8	68.5	98	0.07191	0.06911
13	0.07601	0.07524	433.4	429	433.4	0.031	0.127	0.035	29.78	86	68.5	98	0.07188	0.06907
14	0.07601	0.07524	439.4	435	439.4	0.037	0.126	0.041	29.78	86.3	68.5	98.1	0.07186	0.06902
15	0.076	0.07524	436.3	431.9	436.3	0.03	0.13	0.034	29.78	86.7	68.6	98.4	0.07179	0.06899
16	0.076	0.07524	441.2	436.8	441.2	0.035	0.126	0.042	29.78	86.8	68.5	98.5	0.07179	0.06897
17	0.07599	0.07523	445.7	441.3	445.7	0.028	0.133	0.032	29.78	86.8	68.3	98.7	0.0718	0.06896
18	0.07598	0.07523	439.9	435.6	439.9	0.026	0.133	0.031	29.78	86.9	68.3	98.8	0.07178	0.06895
19	0.07597	0.07522	443.4	439	443.4	0.031	0.129	0.031	29.78	87	68.2	99	0.07177	0.06896
20	0.07598	0.07522	436.2	431.8	436.2	0.036	0.126	0.04	29.78	87.2	68.3	99	0.07175	0.06898
21	0.07599	0.07523	439.7	435.3	439.7	0.032	0.124	0.035	29.78	87.5	68.3	99.1	0.07172	0.06897
22	0.076	0.07522	439.4	434.9	439.4	0.034	0.129	0.04	29.78	87.2	68	99.2	0.07175	0.06897
23	0.07601	0.07521	441.1	436.5	441.1	0.032	0.13	0.033	29.78	87.2	68.2	99.3	0.07175	0.06895
24	0.07601	0.07523	439.2	434.7	439.2	0.032	0.127	0.037	29.78	87.3	68.8	99.4	0.07171	0.06891
25	0.076	0.07521	438.4	433.8	438.4	0.03	0.134	0.032	29.78	87.4	69.5	99.4	0.07167	0.06885
26	0.07602	0.07523	441	436.4	441	0.033	0.126	0.038	29.78	88	70	99.5	0.07159	0.06881
27	0.07601	0.07522	435.9	431.4	435.9	0.033	0.13	0.035	29.78	87.9	70.2	99.5	0.07159	0.06878
28	0.07601	0.07522	440.3	435.7	440.3	0.033	0.13	0.034	29.78	88.1	70.2	99.8	0.07157	0.06877
29	0.07602	0.07521	440.3	435.6	440.3	0.029	0.131	0.03	29.78	88.2	70	100	0.07156	0.06877
30	0.07603	0.07522	441	436.4	441	0.031	0.133	0.033	29.78	88.1	70	100.1	0.07157	0.06877
31	0.07603	0.07522	436.7	432.1	436.7	0.033	0.135	0.035	29.78	88	70.1	100.2	0.07159	0.06877
32	0.07602	0.07521	433.9	429.2	433.9	0.029	0.124	0.033	29.78	88.3	70.2	100.3	0.07154	0.06877
33	0.07604	0.07522	446.4	441.6	446.4	0.032	0.13	0.033	29.78	88.2	70.2	100.3	0.07156	0.06878
34	0.07603	0.07521	441.1	436.4	441.1	0.041	0.123	0.045	29.78	88.1	70.1	100.3	0.07158	0.06879
35	0.07603	0.07521	430.8	426.2	430.8	0.028	0.133	0.032	29.78	88.1	70.1	100.3	0.07157	0.0688
36	0.07605	0.0752	438.7	433.8	438.7	0.029	0.131	0.033	29.78	87.7	69.8	100.4	0.07162	0.06882
37	0.07608	0.07521	442.2	437.2	442.2	0.03	0.131	0.031	29.78	87.8	69.8	100.5	0.07163	0.06885
38	0.07608	0.0752	436.3	431.3	436.3	0.04	0.127	0.041	29.78	88.2	70	100.6	0.07156	0.06886
39	0.07608	0.07521	442.5	437.4	442.5	0.033	0.125	0.035	29.78	87.9	69.8	100.4	0.07161	0.0689
40	0.07609	0.07521	439.5	434.4	439.5	0.034	0.129	0.038	29.78	87.5	69.6	100.4	0.07166	0.06892
41	0.0761	0.07521	438.3	433.1	438.3	0.029	0.129	0.032	29.78	87.7	69.8	100.3	0.07164	0.06893
42	0.07609	0.0752	438	432.9	438	0.033	0.129	0.036	29.78	87.6	69.8	100.2	0.07164	0.06894
43	0.07609	0.0752	436.4	431.3	436.4	0.029	0.128	0.034	29.78	87	69.5	100.2	0.07172	0.06898
44	0.07609	0.0752	438.9	433.8	438.9	0.028	0.132	0.032	29.78	86.8	69.5	100.2	0.07174	0.069
45	0.0761	0.07521	436.2	431.1	436.2	0.038	0.122	0.044	29.78	86.3	69.2	100	0.07182	0.06907
46	0.0761	0.0752	434	428.9	434	0.036	0.129	0.038	29.78	85.7	68.9	99.9	0.0719	0.06916
47	0.07613	0.0752	432.2	426.9	432.2	0.04	0.123	0.045	29.78	84.5	68.3	99.8	0.07206	0.06926
48	0.07614	0.0752	434	428.7	434	0.036	0.125	0.039	29.78	84.4	68.2	99.5	0.07208	0.06933
49	0.07615	0.0752	437.4	431.9	437.4	0.036	0.128	0.04	29.78	84.3	68.2	99.2	0.07209	0.06934
50	0.07615	0.0752	434	428.6	434	0.033	0.125	0.036	29.77	84.8	68.6	99.1	0.07201	0.06932
51	0.07615	0.07521	438.4	432.9	438.4	0.032	0.125	0.035	29.77	84.9	68.9	98.8	0.07199	0.06927
52	0.07616	0.07522	430.9	425.5	430.9	0.036	0.124	0.038	29.78	85.4	69.4	98.6	0.07191	0.0692
53	0.07615	0.07521	433.1	427.7	433.1	0.036	0.129	0.039	29.78	85.9	69.8	98.4	0.07184	0.06912
54	0.07615	0.0752	431.7	426.4	431.7	0.032	0.124	0.035	29.77	86.6	70.2	98.5	0.07174	0.06905
55	0.07616	0.07521	434.3	428.9	434.3	0.031	0.125	0.035	29.78	86.9	70.3	98.6	0.0717	0.069
56	0.07616	0.07522	428.8	423.5	428.8	0.031	0.123	0.037	29.78	87	70.3	98.7	0.07168	0.06898
57	0.07616	0.07522	430.4	425.1	430.4	0.027	0.129	0.029	29.77	87	70.1	98.8	0.07169	0.06899
58	0.07617	0.07522	436.5	431.1	436.5	0.032	0.128	0.036	29.78	86.3	69.6	98.8	0.07179	0.06906
59	0.07617	0.07522	430.8	425.4	430.8	0.032	0.128	0.035	29.78	85.6	69	98.8	0.0719	0.06915
60	0.07618	0.07522	431.9	426.5	431.9	0.033	0.126	0.036	29.77	84.9	68.5	98.9	0.072	0.06922

Table 30: Data from D-DM continued.

Count	CondRho Nozzle	CondCFM Nozzle	CondCFM Outlet	CondSCF MNozzle	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Cond Nozzle Temp	Cond Coil Temp
s	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	C	C
1	0.07024	1004.7	1017.4	1004.7	0.032834	0.036384	0.129196	37.01517	0.44674
2	0.07027	968.8	981.3	968.8	0.036448	0.038495	0.129918	36.88938	0.450221
3	0.0703	972.5	985.3	972.5	0.03466	0.038861	0.129082	36.77588	0.457832
4	0.07031	972.6	985.4	972.6	0.036754	0.041013	0.129386	36.69769	0.456007
5	0.07032	988.1	1001.6	988.1	0.038243	0.041987	0.128947	36.62298	0.451722
6	0.07034	982	996.3	982	0.030805	0.034724	0.132192	36.55757	0.454155
7	0.07035	993.3	1008.2	993.3	0.033864	0.037799	0.132012	36.50722	0.454656
8	0.07034	984.2	999.4	984.2	0.032256	0.033858	0.129539	36.51226	0.44601
9	0.07034	985.6	1001	985.6	0.032084	0.035797	0.130261	36.54701	0.455989
10	0.07035	992.6	1009.3	992.6	0.03209	0.036243	0.132243	36.51004	0.44678
11	0.07034	966.5	983.1	966.5	0.034634	0.037327	0.132178	36.5937	0.451828
12	0.07033	979.3	996.6	979.3	0.033742	0.036274	0.124721	36.63748	0.451603
13	0.07033	972.5	990.3	972.5	0.032879	0.037524	0.129229	36.65948	0.439657
14	0.07031	965.5	983.5	965.5	0.026208	0.031003	0.127589	36.73066	0.443164
15	0.07028	984.5	1002.8	984.5	0.031691	0.035493	0.126289	36.85556	0.455573
16	0.07027	966.7	984.9	966.7	0.033447	0.036628	0.131044	36.95015	0.460748
17	0.07025	993.6	1012.2	993.6	0.030202	0.035076	0.131562	37.0573	0.467353
18	0.07023	993.9	1012.4	993.9	0.035605	0.037132	0.12984	37.11141	0.452752
19	0.07021	978.6	996.3	978.6	0.026645	0.028959	0.133374	37.23071	0.461848
20	0.07022	967.9	985.3	967.9	0.02615	0.026965	0.130029	37.24409	0.460818
21	0.0702	959.5	976.6	959.5	0.03014	0.034446	0.129652	37.28581	0.455416
22	0.07019	978.1	995.3	978.1	0.031035	0.037978	0.127626	37.35955	0.456711
23	0.07017	984.3	1001.7	984.3	0.03489	0.039171	0.127073	37.40047	0.461802
24	0.07015	973.1	990.5	973.1	0.030116	0.03562	0.127843	37.45848	0.459042
25	0.07011	998.4	1016.8	998.4	0.034523	0.037683	0.130224	37.46271	0.451947
26	0.0701	968.4	986.6	968.4	0.031715	0.034483	0.126704	37.52239	0.463877
27	0.07009	986	1004.8	986	0.034232	0.036673	0.128709	37.50887	0.455074
28	0.07006	983.9	1002.3	983.9	0.036232	0.039487	0.128498	37.66556	0.450889
29	0.07004	986.8	1005	986.8	0.033624	0.036721	0.12831	37.75039	0.464188
30	0.07002	995.8	1013.9	995.8	0.036853	0.041114	0.12816	37.8448	0.450925
31	0.07001	1002.9	1021	1002.9	0.030891	0.033234	0.13311	37.90445	0.455563
32	0.07	960.2	977.3	960.2	0.040074	0.044892	0.124497	37.94085	0.452752
33	0.07	983.3	1000.7	983.3	0.03667	0.038164	0.127558	37.92208	0.463511
34	0.07	958.6	975.4	958.6	0.033196	0.037945	0.128263	37.95722	0.458881
35	0.07	996.3	1013.6	996.3	0.03297	0.037023	0.128149	37.94553	0.447428
36	0.06998	990.5	1007.3	990.5	0.041288	0.045986	0.124388	38.0192	0.474897
37	0.06999	989.1	1005.5	989.1	0.038119	0.041352	0.123382	38.03539	0.455326
38	0.06997	972	987.6	972	0.033382	0.036751	0.125973	38.09016	0.4542
39	0.06999	966.6	982	966.6	0.032745	0.0349	0.129857	37.98442	0.456309
40	0.07	981.6	997	981.6	0.029418	0.032338	0.126435	37.97246	0.448937
41	0.07	979.5	994.7	979.5	0.031179	0.033659	0.131074	37.96909	0.472271
42	0.07	981.5	996.6	981.5	0.028144	0.032067	0.127693	37.90955	0.464605
43	0.07002	977.7	992.6	977.7	0.028734	0.033407	0.12836	37.8747	0.45764
44	0.07002	990.5	1005.1	990.5	0.026013	0.027553	0.131328	37.87119	0.462313
45	0.07004	952.5	965.8	952.5	0.030879	0.033935	0.130336	37.80901	0.464103
46	0.07005	978.9	991.5	978.9	0.033816	0.03552	0.129683	37.72757	0.458831
47	0.07007	958.6	969.8	958.6	0.035903	0.037571	0.13095	37.68903	0.453688
48	0.07011	963.5	974.4	963.5	0.035685	0.038929	0.126921	37.51341	0.445877
49	0.07015	974.8	986	974.8	0.032698	0.035432	0.129306	37.35132	0.451281
50	0.07015	966.3	977.9	966.3	0.0325	0.035132	0.132472	37.27512	0.462068
51	0.07018	966.2	978.9	966.2	0.03814	0.041167	0.124699	37.11753	0.44897
52	0.0702	960.9	974.8	960.9	0.039997	0.045094	0.122192	37.01214	0.452528
53	0.07021	977.8	993.2	977.8	0.033864	0.035651	0.126014	36.90809	0.459905
54	0.07019	961.7	977.5	961.7	0.032628	0.034415	0.125401	36.95174	0.460042
55	0.07019	962.8	979.3	962.8	0.033314	0.036329	0.127579	36.98693	0.457243
56	0.07017	957.3	973.8	957.3	0.029361	0.033337	0.128934	37.08024	0.454523
57	0.07016	979.6	996.2	979.6	0.028683	0.032852	0.129188	37.08836	0.45244
58	0.07017	977.9	993.6	977.9	0.032175	0.040068	0.128772	37.12571	0.45528
59	0.07018	977.6	992.2	977.6	0.034101	0.037146	0.129188	37.13517	0.448019
60	0.07018	967.3	980.7	967.3	0.029626	0.035499	0.128123	37.15119	0.449287

Count	Evap Coil Temp	Cond Airflow at Nozzle	Cond Airflow Standard	Barometric	IndoorDB	IndoorWB	EvapExit DB	EvapExit WB	OutdoorDB	OutdoorWB
s	C	CFM	SCFM	in Hg	C	C	C	C	C	C
1	28.40605	980.098	917.9163	29.78714	26.78935	20.46684	13.3959	13.19344	29.03101	20.20599
2	27.97116	982.7051	920.6857	29.78648	26.84952	20.44497	13.38434	13.11052	28.90773	20.20494
3	28.68682	979.3348	917.8555	29.78569	26.91269	20.49349	13.38943	13.18448	28.78847	20.15035
4	28.12819	980.3377	919.1079	29.78815	26.88804	20.48619	13.37985	13.13288	28.63829	20.10416
5	28.30608	978.5958	917.5876	29.78577	26.68241	20.42833	13.35041	13.15564	28.62097	20.14897
6	28.53806	990.9283	929.2538	29.7856	26.85889	20.4193	13.36065	13.15734	28.95332	20.33605
7	28.72097	990.1383	928.7168	29.78679	26.86021	20.46413	13.38792	13.17319	29.15289	20.38722
8	28.74597	980.7172	919.8674	29.78665	26.7527	20.42217	13.39637	13.1852	29.19614	20.38733
9	34.39526	983.4899	922.4464	29.78714	26.9969	20.47087	13.43053	13.18892	29.26437	20.32463
10	29.1886	990.9857	929.5643	29.78374	27.02414	20.5631	13.45131	13.21301	29.59062	20.31116
11	29.51062	990.8065	929.2478	29.78487	27.01478	20.58743	13.49557	13.22893	29.64895	20.24511
12	29.53019	962.1943	902.271	29.78329	27.07614	20.62446	13.50622	13.25092	29.90259	20.29733
13	29.70261	979.6764	918.5998	29.782	26.94536	20.62501	13.55918	13.27112	30.00861	20.26592
14	29.91562	973.4273	912.6224	29.78405	26.84821	20.61096	13.58391	13.30103	30.15373	20.25826
15	30.10539	968.5798	907.7144	29.78342	26.9781	20.61278	13.60799	13.37565	30.41073	20.32551
16	30.8535	987.0003	924.7063	29.78319	26.88757	20.62365	13.63509	13.40495	30.44665	20.30199
17	37.72746	989.0942	926.4471	29.78309	26.84832	20.6436	13.6446	13.41328	30.41697	20.15161
18	29.35468	982.6086	920.1991	29.7823	26.85882	20.6468	13.62431	13.42611	30.50041	20.17309
19	29.39316	996.2314	932.6041	29.78172	26.88354	20.66771	13.67189	13.43086	30.57363	20.12832
20	29.86529	983.5444	920.662	29.7804	27.08673	20.66443	13.662	13.47707	30.70489	20.15233
21	47.14237	982.1186	919.2838	29.78134	27.01339	20.63671	13.65904	13.45375	30.81935	20.14432
22	29.29231	974.4103	911.9156	29.78102	27.07589	20.60127	13.59707	13.4167	30.68699	20.02156
23	30.33774	972.3653	909.8163	29.78163	27.08073	20.56337	13.58747	13.38175	30.64843	20.12849
24	30.19302	975.5666	912.3843	29.78043	27.02772	20.50928	13.5882	13.35434	30.74051	20.43739
25	367.6254	984.8391	920.8227	29.78207	26.99944	20.47226	13.58087	13.3676	30.78478	20.80615
26	39.66433	971.527	907.9083	29.77818	27.1504	20.45561	13.58864	13.37186	31.08311	21.12577
27	30.02134	979.2345	915.1876	29.78146	27.11304	20.43463	13.59146	13.37083	31.04694	21.19993
28	30.26326	978.6341	914.2185	29.78175	27.09866	20.4258	13.58913	13.35527	31.19863	21.19684
29	37.88201	978.0344	913.4131	29.7804	27.15514	20.41836	13.57944	13.3351	31.22392	21.1372
30	29.78653	977.6026	912.7206	29.77971	27.14598	20.37371	13.57482	13.34975	31.17985	21.12547
31	29.80806	996.6499	930.2806	29.78064	27.30284	20.39081	13.59363	13.32159	31.12023	21.16433
32	30.02184	963.5152	899.2862	29.78037	27.308	20.39285	13.57266	13.35926	31.29878	21.21528
33	30.31269	975.4552	910.3827	29.77849	27.35283	20.38845	13.55804	13.2674	31.24816	21.22887
34	31.80734	978.1495	912.9357	29.78175	27.31005	20.37179	13.59817	13.25148	31.14189	21.14142
35	29.85919	977.703	912.5349	29.78092	27.11785	20.32728	13.52891	13.18905	31.18047	21.14122
36	30.37451	963.1439	898.8037	29.78079	27.05924	20.26979	13.46732	13.16654	30.96241	21.01432
37	29.29711	959.226	895.0759	29.78027	27.08117	20.2352	13.44448	13.1423	30.98592	21.02356
38	29.28828	969.4952	904.4493	29.77903	27.08298	20.21531	13.39604	13.10951	31.2004	21.08275
39	29.37802	984.3055	918.6424	29.78029	27.05222	20.20407	13.38835	13.07778	31.03295	20.98225
40	29.49334	971.1099	906.3043	29.77742	27.01088	20.19107	13.33182	13.05317	30.83602	20.88516
41	37.31426	988.9605	922.9966	29.78059	27.04292	20.21591	13.33176	13.03451	30.93158	21.00275
42	31.52461	975.974	910.8761	29.77525	27.1496	20.26234	13.3271	13.04222	30.90418	21.01237
43	28.77716	978.4125	913.4143	29.77891	27.23444	20.25565	13.35408	13.04452	30.5585	20.84832
44	28.69911	989.8482	923.9871	29.77618	27.3464	20.24967	13.36845	13.04251	30.4754	20.83381
45	28.37058	985.885	920.5801	29.77749	27.43551	20.25258	13.34389	13.27974	30.15604	20.66993
46	28.64266	983.2428	918.4232	29.77784	27.31767	20.24705	13.28901	13.25208	29.84955	20.50523
47	28.10508	987.9603	923.0483	29.77738	27.17187	20.22664	13.19117	13.25062	29.1932	20.14908
48	31.62572	972.2009	908.8515	29.77754	27.24212	20.22164	13.14348	12.99232	29.12552	20.13206
49	27.92702	981.2244	917.6384	29.77467	27.16909	20.17803	13.11993	13.18368	29.02783	20.13509
50	29.57538	993.1905	929.0316	29.77679	27.15168	20.17778	13.07945	13.10907	29.31469	20.33453
51	28.84637	963.0691	901.2498	29.77716	27.20609	20.17467	13.08098	13.07922	29.38457	20.49838
52	44.75691	953.1553	892.1039	29.77592	27.16114	20.16996	13.10428	13.08239	29.68384	20.79031
53	36.37631	968.0512	906.1985	29.77569	26.91652	20.12667	13.10899	13.09931	29.92375	21.01376
54	29.99386	965.7588	903.8733	29.77587	26.77228	20.05513	13.08586	13.08204	30.29302	21.19906
55	32.38453	974.2668	911.7227	29.77561	26.67697	20.01173	13.09787	13.00948	30.50293	21.26407
56	29.57262	979.6587	916.4283	29.77356	26.62171	19.99797	13.08981	13.26811	30.57403	21.27343
57	60.31774	980.6305	917.3603	29.77308	26.59044	19.98335	13.06475	13.25813	30.55871	21.18676
58	29.68614	979.0215	915.8734	29.77279	26.59504	19.96045	13.01712	13.23835	30.20848	20.92499
59	28.97858	980.4702	917.5141	29.77683	26.49629	19.94817	13.01225	13.14635	29.79802	20.54348
60	28.2128	976.3662	913.6819	29.77578	26.3797	19.92016	12.96024	13.04533	29.40279	20.30352

Count	EvapStat Pres	Chamber Discharge Pres	EvapDiffPres	EvapNozz Temp	Airflow at Nozzle	Standard Air Flow	CondVoltage	CondPower	Cond Exit Dry-bulb	Cond Exit Wet-bulb
s	in/H2O	in/H2O	in/H2O	C	CFM	SCFM	V	kW	C	C
1	0.459288	0.44674	0.098738	16.48008	433.7755	435.1914	223.0557	2.132483	41.04709	23.90434
2	0.464352	0.450221	0.097628	16.49495	431.3024	432.6976	222.9402	2.130317	40.96784	23.88877
3	0.470883	0.457832	0.102572	16.49449	442.2321	443.6438	223.0132	2.128044	40.9326	23.8705
4	0.469232	0.456007	0.102227	16.49437	441.4619	442.9064	222.8808	2.12838	40.88892	23.85862
5	0.46447	0.451722	0.101226	16.49742	439.2901	440.6819	222.841	2.133434	40.92147	23.87912
6	0.467518	0.454155	0.100722	16.50543	438.1794	439.5791	223.0499	2.142505	41.14056	23.97969
7	0.468458	0.454656	0.101863	16.49163	440.6715	442.1012	222.9459	2.150699	41.26886	23.9654
8	0.459001	0.44601	0.100433	16.46801	437.5184	438.9669	222.4837	2.155499	41.37529	23.92608
9	0.468575	0.455989	0.101975	16.49888	440.9155	442.3543	222.4557	2.160451	41.50629	23.88536
10	0.459449	0.44678	0.099783	16.46803	436.1139	437.4954	222.3164	2.177907	41.84868	23.83645
11	0.465883	0.451828	0.098655	16.46459	433.6026	434.9948	221.9742	2.186505	42.01613	23.81413
12	0.465013	0.451603	0.10067	16.43519	438.0561	439.4745	221.8573	2.197081	42.20306	23.80945
13	0.452865	0.439657	0.096405	16.44736	428.5939	429.9222	221.5899	2.205641	42.42332	23.80001
14	0.455408	0.443164	0.096425	16.44271	428.619	429.9823	221.8813	2.2121	42.58901	23.79278
15	0.469211	0.455573	0.10178	16.43933	440.4971	441.9155	222.1313	2.221811	42.74894	23.78427
16	0.473325	0.460748	0.098585	16.44483	433.452	434.8312	221.99	2.225301	42.87051	23.76842
17	0.481378	0.467353	0.104826	16.44766	447.1357	448.541	221.8685	2.227952	42.97515	23.74872
18	0.465938	0.452752	0.101228	16.47362	439.3346	440.6521	221.7166	2.2261	42.99528	23.72135
19	0.475752	0.461848	0.101719	16.48769	440.4243	441.7193	221.8406	2.224826	42.96758	23.6833
20	0.474292	0.460818	0.100958	16.49459	438.7581	440.0417	221.5685	2.223411	42.93394	23.6386
21	0.469818	0.455416	0.102198	16.50364	441.4781	442.7646	221.7939	2.222499	42.901	23.59777
22	0.470113	0.456711	0.101865	16.49436	440.7334	442.049	221.7437	2.223505	42.92306	23.57002
23	0.474717	0.461802	0.103386	16.51454	444.0537	445.3759	221.4768	2.227829	42.97948	23.75719
24	0.472638	0.459042	0.102877	16.53583	442.9652	444.2449	221.3246	2.235194	43.08727	24.19943
25	0.464718	0.451947	0.10228	16.53974	441.6516	442.9492	221.629	2.246008	43.27083	24.6678
26	0.478043	0.463877	0.102364	16.53305	441.8405	443.1266	221.6129	2.252079	43.43732	24.78317
27	0.468582	0.455074	0.102908	16.55185	443.0196	444.323	221.2575	2.259991	43.52754	24.82977
28	0.464927	0.450889	0.101056	16.53917	438.9579	440.2719	222.211	2.259522	43.57419	24.77209
29	0.47845	0.464188	0.102051	16.54938	441.1445	442.4517	222.2128	2.262222	43.6083	24.71724
30	0.463972	0.450925	0.101489	16.56384	439.9299	441.2027	222.0604	2.259001	43.63599	24.74096
31	0.469596	0.455563	0.103463	16.57049	444.227	445.5303	222.0314	2.257706	43.61893	24.77225
32	0.46597	0.452752	0.099915	16.57355	436.4598	437.7325	222.1372	2.256344	43.58778	24.79557
33	0.478206	0.463511	0.104081	16.58176	445.5868	446.8588	222.2725	2.25589	43.56227	24.81036
34	0.472656	0.458881	0.0998	16.60909	436.212	437.4652	223.1099	2.254041	43.50574	24.7981
35	0.460939	0.447428	0.101105	16.61107	439.1048	440.3317	223.0615	2.247933	43.45939	24.78554
36	0.488423	0.474897	0.104021	16.62987	445.4631	446.7184	222.7771	2.245598	43.40474	24.75413
37	0.468147	0.455326	0.102054	16.62483	441.1849	442.4238	222.9321	2.23913	43.28976	24.72288
38	0.467915	0.4542	0.101384	16.64804	439.7398	440.9278	222.4073	2.231851	43.16359	24.68611
39	0.470126	0.456309	0.103697	16.63233	444.766	446.011	222.8688	2.229429	43.03841	24.64489
40	0.462056	0.448937	0.098926	16.64976	434.3265	435.4713	222.6524	2.222283	42.98751	24.62353
41	0.485534	0.472271	0.106048	16.63612	449.8304	451.098	222.4157	2.220428	42.90133	24.62349
42	0.47931	0.464605	0.101844	16.64409	440.7709	441.9123	222.3201	2.219287	42.84238	24.59629
43	0.470894	0.45764	0.096566	16.64512	429.0306	430.2031	222.6481	2.209776	42.67789	24.54392
44	0.476552	0.462313	0.099921	16.65359	436.529	437.685	223.0113	2.196886	42.52471	24.50329
45	0.47742	0.464103	0.099656	16.66071	435.9324	437.1065	222.7165	2.186225	42.23443	24.42776
46	0.472209	0.458831	0.099246	16.63475	435.0105	436.21	222.9691	2.16489	41.85921	24.28044
47	0.467504	0.453688	0.098321	16.6535	432.9791	434.1249	222.6773	2.142487	41.42035	24.10624
48	0.45902	0.445877	0.097201	16.63475	430.4587	431.6303	222.667	2.130483	41.14632	24.01341
49	0.46488	0.451281	0.098316	16.65628	432.981	434.0972	222.5536	2.127083	41.02229	24.00856
50	0.475696	0.462068	0.098984	16.63505	434.4335	435.6256	222.2736	2.133865	41.07087	24.0535
51	0.462618	0.44897	0.097675	16.62585	431.5083	432.7059	222.1822	2.144483	41.27307	24.21583
52	0.465796	0.452528	0.096877	16.61651	429.7246	430.9146	222.3179	2.163411	41.54352	24.4429
53	0.473344	0.459905	0.098059	16.63163	432.3828	433.5491	222.3216	2.18078	41.86292	24.61495
54	0.474203	0.460042	0.099574	16.5944	435.7171	436.9593	221.8899	2.193652	42.14165	24.65996
55	0.471552	0.457243	0.098244	16.60363	432.7713	433.9908	221.6539	2.205446	42.40613	24.68797
56	0.467163	0.454523	0.09913	16.59935	434.7542	435.9502	221.7498	2.212477	42.51003	24.69259
57	0.466734	0.45244	0.100032	16.56456	436.7308	437.9762	221.6325	2.204441	42.45335	24.6452
58	0.46923	0.45528	0.097531	16.54856	431.1538	432.4174	221.8414	2.188504	42.23192	24.46714
59	0.460877	0.448019	0.096887	16.55596	429.6963	430.9898	221.1459	2.164027	41.86391	24.26324
60	0.463327	0.449287	0.099701	16.54504	435.9681	437.2769	221.7642	2.151805	41.54484	24.09199

Count	EvapOutDrybulbRef	Cooling Capacity	Total Cooling Capacity	Sensible Cooling Capacity	Latent Cooling Capacity	Duct Loss Correction	Total Cooling Capacity Cond Side	Corrected Total Cooling Capacity	Corrected Sensible Cooling Capacity	Sensible Cooling Capacity Cond Side
s	C	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr
1	-67315.3	18437.68	18368.74	11825.3	6543.438	68.9	16477	18437.68	11894.24	14702.71
2	-67315.8	18400.62	18332.35	11808.35	6523.999	68.3	16363	18400.62	11876.62	14861.96
3	-67316	18465.36	18398.83	11864.02	6534.808	66.5	16579.6	18465.36	11930.55	14920.45
4	-67316.5	18628.95	18563.6	12001.69	6561.905	65.3	16904.2	18628.95	12067.04	15275.33
5	-67316.7	18459.95	18393.55	11680.93	6712.621	66.4	16337.6	18459.95	11747.32	14952.52
6	-67317.4	18214.9	18146.88	11717.75	6429.128	68	16115	18214.9	11785.78	14961.08
7	-67317.7	18527.69	18458.19	11944.69	6513.498	69.5	15849.6	18527.69	12014.19	14931.48
8	-67318.3	18424.21	18353.16	11784.44	6568.727	71	15618.2	18424.21	11855.48	15127.17
9	-67318.6	18396.6	18326.6	11948.36	6378.239	70	15773.4	18396.6	12018.36	15276.91
10	-67319.5	18551.56	18479.01	11885.36	6593.648	72.6	14958.3	18551.56	11957.92	14761.8
11	-67320	18821.55	18748.78	11986.96	6761.814	72.8	15230	18821.55	12059.74	14986.29
12	-67320.2	18842.12	18767.65	12025.28	6742.378	74.5	15057.2	18842.12	12099.75	15067.72
13	-67320.8	18671.08	18594.94	11811.42	6783.519	76.1	15155.8	18671.08	11887.56	15214.79
14	-67321.1	18392.01	18314.25	11539.82	6774.432	77.8	14921.5	18392.01	11617.58	15075.52
15	-67321.8	18236.39	18157.06	11646.86	6510.201	79.3	14530.9	18236.39	11726.19	14867.19
16	-67322.5	18426.29	18346.31	11684.92	6661.392	80	13933.4	18426.29	11764.89	14457.04
17	-67323	18665.11	18585.44	11762.4	6823.038	79.7	15356.2	18665.11	11842.08	15254.59
18	-67323.6	18431.85	18351.53	11647.98	6703.543	80.3	14687.4	18431.85	11728.3	14881
19	-67324.4	18494.47	18413.48	11626.23	6787.25	81	14621.4	18494.47	11707.22	14636.66
20	-67324.9	18181.29	18100.04	11645.77	6454.266	81.3	14561.8	18181.29	11727.02	14670.32
21	-67325.4	18368.83	18286.39	11759.58	6526.802	82.4	14111.9	18368.83	11842.03	14186.59
22	-67325.7	18038.17	17956.93	11669.17	6287.761	81.2	14321.2	18038.17	11750.41	14229.77
23	-67326.1	18374.33	18293.33	11963.36	6329.971	81	15570.9	18374.33	12044.36	14929.7
24	-67326.5	18274.25	18192.35	11866.83	6325.523	81.9	16169.1	18274.25	11948.72	14448.89
25	-67327.1	18082.76	18000.57	11821.16	6179.417	82.2	17186	18082.76	11903.34	14593.39
26	-67327.5	18057.59	17973.43	11932.43	6041.004	84.2	16485.4	18057.59	12016.59	14771.63
27	-67328	18076.41	17992.46	11988.22	6004.241	84	16258.9	18076.41	12072.17	14909.87
28	-67328.4	17845.67	17760.27	11823.17	5937.098	85.4	16070.1	17845.67	11908.57	14788.3
29	-67329	18067.49	17981.97	12003.98	5977.983	85.5	15508.5	18067.49	12089.5	14440.1
30	-67329.5	17929.51	17844.4	12021.85	5822.552	85.1	16004	17929.51	12106.95	14738.58
31	-67330	18192.53	18108.41	12223.23	5885.186	84.1	15697.8	18192.53	12307.35	14577.79
32	-67331	18079.14	17993.43	12149.45	5843.978	85.7	16020	18079.14	12235.16	14665.39
33	-67331.7	18276.76	18191.73	12270.55	5921.187	85	15980.2	18276.76	12355.58	14700.18
34	-67332.5	18114.78	18030.88	12120.38	5910.504	83.9	16173.4	18114.78	12204.27	14525.71
35	-67333.5	18221.43	18135.94	12146.48	5989.462	85.5	16153.6	18221.43	12231.97	14391.02
36	-67334.5	17961.05	17876.92	11998.2	5878.718	84.1	17148.3	17961.05	12082.33	15054.03
37	-67335.4	18046.63	17962.41	12108.71	5853.698	84.2	17117.8	18046.63	12192.93	15001.5
38	-67336.5	17708.79	17622.51	11909.36	5713.147	86.3	16151.6	17708.79	11995.64	14163.05
39	-67337.6	17950.54	17865.68	12015.57	5850.111	84.9	16559.4	17950.54	12100.43	14247.97
40	-67338.8	18117.9	18034.58	12169.68	5864.899	83.3	16556.9	18117.9	12253	14161.11
41	-67340	18128.55	18044.13	12104.32	5939.808	84.4	16144	18128.55	12188.74	14092.78
42	-67341	17868.22	17784.5	11927.8	5856.696	83.7	15649.9	17868.22	12011.53	13763.91
43	-67342.2	18133.08	18052.77	12184.82	5867.943	80.3	16592.4	18133.08	12265.13	14439
44	-67343.4	17831.97	17753.08	12124.69	5628.393	78.9	16241.8	17831.97	12203.58	14066.15
45	-67344.3	17389.32	17313.6	12228.56	5085.035	75.7	16824.2	17389.32	12304.28	14391.58
46	-67345.3	17467.92	17393.67	12173.71	5219.963	74.3	16779.3	17467.92	12247.96	14139.59
47	-67346.4	17218.82	17149.24	12079.21	5070.033	69.6	18108.3	17218.82	12148.79	15002.26
48	-67347.1	17842.29	17773.4	12162.83	5610.579	68.9	17347.5	17842.29	12231.72	14377.79
49	-67348	17919.03	17850.71	12248.79	5601.911	68.3	17261	17919.03	12317.12	14359.07
50	-67348.8	17449.33	17378.29	12134.07	5244.217	71	15926.6	17449.33	12205.11	13423.66
51	-67349.5	17585	17513.61	12226.06	5287.547	71.4	16847.1	17585	12297.46	14400.63
52	-67350	17773.93	17699.75	12321.45	5378.303	74.2	16187.2	17773.93	12395.63	13934.57
53	-67350.5	17455.4	17378.35	11981.61	5396.735	77.1	16199.3	17455.4	12058.67	14158.51
54	-67350.6	17340.39	17259.38	11913.78	5345.596	81	15268.6	17340.39	11994.8	14018.78
55	-67350.9	17368.84	17285.41	11818.82	5466.59	83.4	14997.3	17368.84	11902.25	14002.13
56	-67350.8	16785.75	16701.6	11709.02	4992.582	84.1	14753.9	16785.75	11793.17	13841.79
57	-67350.6	16422.55	16338.31	11574.6	4763.703	84.2	15058	16422.55	11658.85	13886.4
58	-67350.5	16753.54	16671.79	11826.07	4845.72	81.8	15563.3	16753.54	11907.82	14264.69
59	-67350.1	16838.24	16759.54	11635.85	5123.684	78.7	15865.1	16838.24	11714.56	13802.23
60	-67349.6	16969.75	16893.54	11660.15	5233.395	76.2	16337.6	16969.75	11736.36	14155.68

Table 31: Data from D-WM testing condition.

Count	Chamber Discharge Pres	External Static Pressure	Evap Diff Pres	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Barometric Pres	Indoor Temp	Indoor Temp Ref	Evap Exit Drybulb	Cond Exit Drybulb
s	IWC	IWC	IWC	IWC	IWC	IWC	in. Hg	C	C	C	C
1	0.46	0.47	0.1	-0.02	0.03	0.17	29.85	26.57	25.33	13.04	39.37
2	0.46	0.47	0.09	-0.03	0.04	0.21	29.805	26.47	25.36	13.02	39.4
3	0.46	0.47	0.1	0	0.02	0.14	29.782	26.44	25.34	13.04	39.45
4	0.48	0.49	0.1	0.02	0.03	0.13	29.785	26.49	25.35	13.03	39.45
5	0.46	0.47	0.09	0.02	0.04	0.14	29.825	26.56	25.37	13.07	39.41
6	0.47	0.48	0.1	0.01	0.03	0.16	29.814	26.55	25.39	13.02	39.43
7	0.47	0.48	0.09	0.02	0.04	0.11	29.819	26.6	25.4	13.05	39.44
8	0.45	0.47	0.1	0.01	0.01	0.13	29.845	26.52	25.39	13.05	39.44
9	0.47	0.47	0.1	0.02	0.03	0.13	29.81	26.55	25.41	13.03	39.46
10	0.47	0.48	0.09	0.01	0.02	0.11	29.81	26.56	25.42	13.01	39.49
11	0.45	0.46	0.1	0.08	0.01	0.05	29.814	26.55	25.42	13.02	39.51
12	0.46	0.47	0.09	0.01	0.05	0.09	29.816	26.44	25.44	13.04	39.55
13	0.47	0.49	0.1	0.04	0.01	0.09	29.811	26.57	25.45	13.03	39.56
14	0.46	0.47	0.1	0.03	0.04	0.2	29.808	26.62	25.43	13.07	39.62
15	0.46	0.47	0.1	0.03	0.04	0.13	29.824	26.59	25.46	13.11	39.66
16	0.47	0.48	0.1	0.05	0.04	0.13	29.816	26.69	25.46	13.09	39.68
17	0.46	0.47	0.1	0.03	0.03	0.11	29.803	26.63	25.46	13.08	39.71
18	0.47	0.48	0.09	0.03	0.03	0.13	29.808	26.64	25.47	13.08	39.77
19	0.46	0.47	0.1	0.05	-0.01	0.06	29.813	26.68	25.49	13.12	39.82
20	0.47	0.48	0.09	0	0.05	0.09	29.813	26.68	25.49	13.12	39.88
21	0.47	0.47	0.09	0.06	0.04	0.15	29.813	26.76	25.52	13.12	39.89
22	0.47	0.48	0.1	0.04	0.09	0.13	29.816	26.64	25.51	13.13	39.95
23	0.47	0.48	0.1	0.03	0.03	0.13	29.817	26.7	25.55	13.13	39.97
24	0.46	0.47	0.1	0.01	0.04	0.17	29.808	26.74	25.56	13.17	40.04
25	0.46	0.48	0.11	0.06	0.04	0.16	29.813	26.68	25.55	13.16	40.04
26	0.45	0.46	0.1	0.07	0.08	0.16	29.822	26.7	25.56	13.18	40.11
27	0.46	0.47	0.1	0.01	0.02	0.11	29.808	26.76	25.58	13.15	40.13
28	0.46	0.47	0.1	0.07	0.04	0.12	29.797	26.74	25.58	13.17	40.19
29	0.46	0.47	0.1	0.05	0	0.11	29.814	26.8	25.6	13.19	40.22
30	0.47	0.48	0.11	-0.01	0.01	0.13	29.783	26.56	25.63	13.23	40.24
31	0.46	0.47	0.09	0.05	0.03	0.11	29.811	26.11	25.62	13.21	40.31
32	0.47	0.48	0.1	0.02	0.01	0.09	29.802	26.17	25.65	13.2	40.34
33	0.46	0.47	0.1	-0.01	0.03	0.13	29.813	26.56	25.62	13.21	40.36
34	0.46	0.46	0.09	0.04	0.04	0.1	29.831	26.84	25.65	13.24	40.43
35	0.47	0.48	0.1	0.02	0.04	0.16	29.813	26.5	25.67	13.27	40.44
36	0.46	0.47	0.11	0.07	0.01	0.1	29.813	26.58	25.66	13.22	40.44
37	0.45	0.46	0.09	0.05	0.07	0.08	29.808	26.47	25.67	13.3	40.46
38	0.46	0.48	0.1	-0.03	-0.02	0.12	29.811	26.57	25.68	13.28	40.44
39	0.45	0.46	0.1	0.04	0.04	0.11	29.811	26.65	25.69	13.25	40.44
40	0.46	0.47	0.1	0.09	0.05	0.15	29.808	26.67	25.69	13.26	40.43
41	0.45	0.46	0.09	0.01	0.01	0.14	29.805	26.46	25.71	13.33	40.43
42	0.46	0.47	0.1	0.06	0.06	0.14	29.799	26.56	25.7	13.32	40.41
43	0.46	0.47	0.09	0.06	0.04	0.17	29.808	26.6	25.71	13.3	40.48
44	0.46	0.48	0.1	0.05	0.05	0.04	29.788	26.78	25.72	13.33	40.44
45	0.45	0.46	0.1	-0.01	0.06	0.18	29.816	26.78	25.72	13.39	40.46
46	0.46	0.46	0.1	-0.01	0.02	0.1	29.805	26.98	25.71	13.37	40.48
47	0.47	0.48	0.11	0.07	0.05	0.12	29.811	26.88	25.71	13.4	40.52
48	0.48	0.49	0.1	0.03	0.02	0.12	29.81	26.82	25.73	13.38	40.56
49	0.46	0.48	0.1	0.03	0.04	0.14	29.81	26.89	25.74	13.35	40.58
50	0.46	0.47	0.1	0	0.04	0.18	29.803	26.7	25.73	13.35	40.59
51	0.46	0.47	0.1	0.02	0.06	0.05	29.805	26.72	25.74	13.35	40.62
52	0.47	0.48	0.1	-0.03	0.01	0.17	29.811	26.61	25.76	13.33	40.66
53	0.47	0.49	0.11	0.04	0.05	0.17	29.8	26.73	25.74	13.33	40.61
54	0.44	0.45	0.1	0.02	0.01	0.14	29.806	26.88	25.74	13.37	40.51
55	0.45	0.48	0.1	0.05	0.02	0.1	29.805	26.89	25.76	13.35	40.31
56	0.46	0.48	0.1	0.04	0.02	0.11	29.805	26.78	25.76	13.39	40.09
57	0.47	0.48	0.11	0.03	0.02	0.18	29.81	26.79	25.76	13.39	39.92
58	0.46	0.47	0.1	0.02	0.03	0.2	29.813	26.55	25.77	13.4	39.85
59	0.45	0.47	0.1	-0.01	0.04	0.08	29.808	26.8	25.77	13.37	39.75
60	0.46	0.47	0.1	0.01	0.01	0.09	29.814	26.89	25.79	13.37	39.6
61	0.46	0.48	0.1	0.01	0.05	0.05	29.851	26.62	25.8	13.35	39.37
62	0.45	0.46	0.1	0.06	0.03	0.1	29.817	26.88	25.79	13.37	39.06

Count	Evap Coil Temp	Outdoor Temp Ref	Evap Nozzle Temp	Indoor Wetbulb	Outdoor Temp	Cond Exit Wetbulb	Outdoor Wetbulb	Cond Nozzle Temp	Evap Exit Wetbulb	EvapFan OutStatPres	EvapNoz DiffPres
s	C	C	C	C	C	C	C	C	C	in/H2O	in/H2O
1	29.95	29.19	16.09	19.83	29.84	23.92	20.11	35.16	12.17	0.457	0.095
2	29.39	29.06	16.1	19.77	29.99	23.95	20.21	35.21	12.2	0.456	0.094
3	29.58	28.98	16.05	19.77	29.88	23.97	20.15	35.23	12.2	0.455	0.095
4	29.66	28.94	16.06	19.8	29.84	23.99	20.14	35.24	12.22	0.461	0.094
5	29.27	28.88	16.05	19.84	29.73	24.01	20.09	35.26	12.22	0.468	0.096
6	30.88	28.89	16.04	19.8	29.8	24.02	20.12	35.32	12.24	0.469	0.097
7	29.79	28.95	16.08	19.82	29.89	24.04	20.2	35.36	12.26	0.466	0.097
8	29.89	29.04	16.07	19.8	29.94	24.06	20.22	35.36	12.27	0.46	0.096
9	29.75	29.06	16.05	19.84	30.06	24.09	20.32	35.43	12.27	0.464	0.098
10	31.69	29.15	16.04	19.82	30.07	24.11	20.3	35.5	12.26	0.464	0.096
11	30.02	29.22	16.07	19.81	30.02	24.13	20.26	35.51	12.25	0.454	0.094
12	29.78	29.28	16.06	19.83	30.13	24.16	20.34	35.55	12.26	0.462	0.098
13	42.07	29.33	16.07	19.84	30.17	24.19	20.37	35.53	12.27	0.478	0.101
14	30.62	29.44	16.07	19.84	30.06	24.21	20.31	35.58	12.29	0.466	0.097
15	29.54	29.46	16.06	19.85	30.31	24.24	20.47	35.59	12.3	0.463	0.098
16	29.82	29.56	16.08	19.86	30.24	24.26	20.41	35.63	12.31	0.477	0.099
17	30.01	29.65	16.06	19.85	30.4	24.29	20.51	35.66	12.34	0.461	0.095
18	29.98	29.71	16.07	19.84	30.41	24.33	20.52	35.69	12.33	0.461	0.096
19	29.93	29.75	16.07	19.86	30.52	24.35	20.55	35.69	12.34	0.456	0.097
20	29.93	29.78	16.08	19.89	30.69	24.38	20.68	35.71	12.34	0.462	0.096
21	30.03	29.91	16.08	19.87	30.75	24.41	20.7	35.79	12.35	0.466	0.097
22	29.97	29.95	16.08	19.89	30.65	24.44	20.62	35.86	12.38	0.46	0.098
23	29.98	30.01	16.1	19.92	30.67	24.46	20.62	35.85	12.39	0.463	0.097
24	30.26	30.09	16.12	19.96	30.7	24.48	20.65	35.94	12.41	0.457	0.098
25	29.67	30.14	16.1	19.92	30.59	24.52	20.59	35.99	12.42	0.467	0.096
26	30.22	30.13	16.11	19.88	30.57	24.54	20.58	36	12.42	0.451	0.094
27	30.41	30.22	16.12	19.92	30.64	24.56	20.63	36.03	12.42	0.459	0.096
28	30.35	30.21	16.11	19.99	30.76	24.58	20.74	36.08	12.43	0.45	0.095
29	30.23	30.23	16.13	20.01	30.81	24.62	20.75	36.14	12.45	0.459	0.096
30	30.28	30.26	16.12	19.97	30.75	24.64	20.71	36.15	12.47	0.467	0.099
31	32.62	30.31	16.12	19.93	30.8	24.67	20.74	36.19	12.49	0.456	0.097
32	30.15	30.33	16.13	19.97	30.88	24.7	20.8	36.24	12.5	0.472	0.101
33	34.79	30.41	16.13	20.04	30.91	24.72	20.81	36.28	12.51	0.468	0.098
34	30.44	30.33	16.14	20.14	31.01	24.77	20.88	36.42	12.56	0.461	0.098
35	30.21	30.23	16.15	20.12	31.06	24.79	20.92	36.46	12.58	0.457	0.095
36	32.08	30.15	16.13	20.1	31.08	24.8	20.93	36.48	12.59	0.46	0.097
37	30.19	30.07	16.14	20.11	31.14	24.81	20.98	36.48	12.6	0.443	0.092
38	30.94	30.03	16.17	20.13	30.99	24.82	20.88	36.48	12.64	0.452	0.095
39	30.4	29.99	16.16	20.13	30.95	24.83	20.87	36.42	12.64	0.444	0.097
40	36.22	30.02	16.16	20.1	30.97	24.84	20.89	36.47	12.65	0.452	0.097
41	30.07	30.04	16.15	20.1	31.02	24.85	20.93	36.55	12.67	0.452	0.097
42	30.12	30	16.17	20.15	31.11	24.85	21	36.56	12.71	0.455	0.097
43	30.59	30.07	16.17	20.17	30.96	24.87	20.88	36.54	12.68	0.453	0.096
44	30.16	30.12	16.2	20.24	30.85	24.88	20.83	36.57	12.7	0.462	0.099
45	30.28	30.13	16.18	20.29	30.83	24.89	20.85	36.59	12.72	0.448	0.095
46	31.18	30.13	16.18	20.31	30.94	24.91	20.93	36.57	12.74	0.455	0.097
47	30.26	30.19	16.23	20.26	31.04	24.94	21.03	36.59	12.76	0.461	0.098
48	30.27	30.28	16.22	20.22	31.14	24.95	21.07	36.55	12.75	0.468	0.098
49	30.23	30.35	16.21	20.21	31.22	24.98	21.13	36.6	12.75	0.468	0.098
50	30.31	30.32	16.23	20.2	31.22	25	21.07	36.58	12.75	0.461	0.099
51	30.5	30.34	16.23	20.21	31.24	25.02	21.12	36.6	12.75	0.446	0.096
52	30.44	30.17	16.23	20.22	31.35	25.02	21.2	36.68	12.76	0.464	0.098
53	30.49	29.37	16.24	20.22	31.25	25.02	21.12	36.64	12.75	0.464	0.099
54	29.78	28.23	16.25	20.24	31.1	24.97	21.02	36.66	12.77	0.452	0.097
55	29.65	27.39	16.24	20.22	30.92	24.89	20.91	36.65	12.77	0.455	0.097
56	29.48	27.33	16.26	20.24	30.79	24.8	20.89	36.65	12.76	0.463	0.1
57	29.28	27.48	16.26	20.27	30.39	24.73	20.68	36.62	12.74	0.457	0.099
58	29.36	27.81	16.27	20.29	30.36	24.7	20.68	36.53	12.77	0.457	0.099
59	29.34	27.48	16.27	20.27	30.29	24.68	20.66	36.54	12.76	0.463	0.1
60	29.4	26.01	16.26	20.26	30.36	24.62	20.71	36.44	12.74	0.456	0.099
61	28.99	24.75	16.27	20.22	30.21	24.49	20.58	36.34	12.73	0.455	0.097
62	28.6	23.86	16.26	20.22	29.62	24.33	20.26	36.24	12.7	0.453	0.098

Count	EvapNoz StatPres	EvapBarPres	EvapDryInletTemp	EvapWetInletTemp	EvapNozzleTemp	EvapRhoInlet	EvapRho Outlet	EvapRho Nozzle	EvapCFM Nozzle	EvapCFM Outlet	EvapSCFM Nozzle
s	in/H2O	in/Hg	C	C	C	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM
1	0.457	29.81	79.8	67.7	61	0.07275	0.07627	0.07545	424.9	420.3	424.9
2	0.456	29.81	79.7	67.6	60.9	0.07277	0.07628	0.07545	422.1	417.5	422.1
3	0.455	29.81	79.6	67.6	60.9	0.07278	0.07627	0.07546	424.4	419.9	424.4
4	0.461	29.81	79.7	67.6	60.9	0.07277	0.07627	0.07546	423.3	418.7	423.3
5	0.468	29.81	79.8	67.7	60.9	0.07275	0.07627	0.07546	428.1	423.6	428.1
6	0.469	29.81	79.8	67.6	60.9	0.07275	0.07628	0.07546	428.3	423.7	428.3
7	0.466	29.81	79.9	67.7	60.9	0.07273	0.07626	0.07545	428.5	424	428.5
8	0.46	29.81	79.8	67.6	60.9	0.07275	0.07627	0.07546	427.9	423.4	427.9
9	0.464	29.81	79.8	67.7	60.9	0.07275	0.07627	0.07545	430.9	426.3	430.9
10	0.464	29.81	79.8	67.7	60.9	0.07274	0.07627	0.07546	428	423.4	428
11	0.454	29.81	79.7	67.7	60.9	0.07275	0.07627	0.07545	422.3	417.8	422.3
12	0.462	29.81	79.6	67.7	60.9	0.07277	0.07626	0.07545	431	426.4	431
13	0.478	29.81	79.8	67.7	60.9	0.07274	0.07627	0.07545	437.9	433.2	437.9
14	0.466	29.81	79.9	67.7	60.9	0.07273	0.07626	0.07545	430.4	425.8	430.4
15	0.463	29.81	79.9	67.7	60.9	0.07273	0.07625	0.07545	430.8	426.3	430.8
16	0.477	29.81	80	67.7	60.9	0.0727	0.07624	0.07544	434.2	429.6	434.2
17	0.461	29.81	79.9	67.7	60.9	0.07272	0.07625	0.07544	424	419.6	424
18	0.461	29.81	80	67.7	60.9	0.07272	0.07625	0.07545	426.4	421.9	426.4
19	0.456	29.81	80	67.7	60.9	0.07271	0.07624	0.07546	428.3	423.8	428.3
20	0.462	29.81	80	67.8	61	0.07271	0.07624	0.07544	426.7	422.3	426.7
21	0.466	29.81	80.2	67.8	61	0.07269	0.07624	0.07544	429.2	424.7	429.2
22	0.46	29.81	80	67.8	60.9	0.07273	0.07624	0.07545	430.7	426.2	430.7
23	0.463	29.81	80.1	67.9	61	0.0727	0.07623	0.07543	430.2	425.7	430.2
24	0.457	29.81	80.1	67.9	61	0.07269	0.07623	0.07543	430.7	426.2	430.7
25	0.467	29.81	80	67.8	61	0.07271	0.07624	0.07544	428	423.6	428
26	0.451	29.81	80.1	67.8	61	0.07271	0.07623	0.07544	423.2	418.8	423.2
27	0.459	29.81	80.2	67.9	61	0.07269	0.07623	0.07543	427.3	422.8	427.3
28	0.45	29.81	80.2	68	61	0.0727	0.07624	0.07544	424.9	420.4	424.9
29	0.459	29.81	80.2	68	61	0.07268	0.07622	0.07543	427.3	422.8	427.3
30	0.467	29.81	79.8	67.9	61	0.07273	0.07621	0.07543	432.9	428.5	432.9
31	0.456	29.81	79	67.9	61	0.07283	0.07621	0.07541	429.7	425.2	429.7
32	0.472	29.81	79.1	68	61	0.07282	0.07621	0.07542	438	433.4	438
33	0.468	29.81	79.9	68.1	61	0.07272	0.07621	0.07542	432.7	428.3	432.7
34	0.461	29.81	80.3	68.3	61.1	0.07266	0.0762	0.07542	432	427.6	432
35	0.457	29.81	79.7	68.2	61.1	0.07274	0.07618	0.07541	425.7	421.4	425.7
36	0.46	29.81	79.8	68.2	61	0.07272	0.0762	0.07542	430.4	426	430.4
37	0.443	29.81	79.7	68.2	61	0.07274	0.07617	0.07541	417	412.8	417
38	0.452	29.81	79.8	68.2	61.1	0.07272	0.07618	0.0754	425	420.7	425
39	0.444	29.81	80	68.2	61.1	0.07271	0.07619	0.07541	428.9	424.5	428.9
40	0.452	29.81	80	68.2	61.1	0.07269	0.07618	0.0754	428.9	424.5	428.9
41	0.452	29.81	79.6	68.2	61.1	0.07275	0.07617	0.0754	429.4	425.1	429.4
42	0.455	29.81	79.8	68.3	61.1	0.07272	0.07617	0.0754	430	425.7	430
43	0.453	29.81	79.9	68.3	61.1	0.07271	0.07617	0.0754	427.7	423.3	427.7
44	0.462	29.81	80.2	68.4	61.2	0.07266	0.07616	0.07539	434	429.6	434
45	0.448	29.81	80.2	68.5	61.1	0.07266	0.07615	0.07539	424	419.8	424
46	0.455	29.81	80.6	68.5	61.1	0.07261	0.07614	0.07539	429.9	425.6	429.9
47	0.461	29.81	80.4	68.5	61.2	0.07264	0.07615	0.07537	432.8	428.4	432.8
48	0.468	29.81	80.3	68.4	61.2	0.07266	0.07615	0.07539	432.6	428.2	432.6
49	0.468	29.81	80.4	68.4	61.2	0.07264	0.07616	0.07539	431.1	426.7	431.1
50	0.461	29.81	80.1	68.4	61.2	0.07269	0.07616	0.07538	434.7	430.3	434.7
51	0.446	29.81	80.1	68.4	61.2	0.07267	0.07615	0.07538	428	423.6	428
52	0.464	29.81	79.9	68.4	61.2	0.0727	0.07616	0.07537	431.8	427.4	431.8
53	0.464	29.81	80.1	68.4	61.2	0.07267	0.07616	0.07538	433.1	428.6	433.1
54	0.452	29.81	80.4	68.4	61.3	0.07265	0.07616	0.07538	429.5	425.1	429.5
55	0.455	29.81	80.4	68.4	61.2	0.07264	0.07616	0.07538	428.7	424.3	428.7
56	0.463	29.81	80.2	68.4	61.3	0.07266	0.07615	0.07537	436.1	431.6	436.1
57	0.457	29.81	80.2	68.5	61.3	0.07267	0.07615	0.07537	434.5	430.1	434.5
58	0.457	29.81	79.8	68.5	61.3	0.07271	0.07614	0.07536	433.7	429.3	433.7
59	0.463	29.81	80.2	68.5	61.3	0.07266	0.07615	0.07537	436.4	431.9	436.4
60	0.456	29.81	80.4	68.5	61.3	0.07263	0.07615	0.07537	432.9	428.5	432.9
61	0.455	29.81	79.9	68.4	61.3	0.0727	0.07615	0.07536	430.2	425.7	430.2
62	0.453	29.81	80.4	68.4	61.3	0.07264	0.07615	0.07537	430.8	426.4	430.8

Count	CondFan OutStatPres	CondNoz DiffPres	CondNoz StatPres	CondBarPres	CondDryInletTemp	CondWetInletTemp	CondNozzleTemp	CondRhoInlet	CondRho Outlet	CondRho Nozzle
s	in/H2O	in/H2O	in/H2O	in/Hg	C	C	C	lb/ft^3	lb/ft^3	lb/ft^3
1	0.031	0.136	0.038	29.81	85.7	68.2	95.3	0.07201	0.06982	0.07075
2	0.031	0.134	0.038	29.81	86	68.4	95.4	0.07196	0.0698	0.07073
3	0.034	0.13	0.041	29.81	85.8	68.3	95.4	0.07199	0.06979	0.07073
4	0.034	0.133	0.039	29.81	85.7	68.2	95.4	0.072	0.06979	0.07073
5	0.036	0.131	0.043	29.81	85.5	68.2	95.5	0.07203	0.06981	0.07073
6	0.038	0.132	0.043	29.81	85.6	68.2	95.6	0.07201	0.0698	0.0707
7	0.034	0.134	0.039	29.81	85.8	68.4	95.6	0.07198	0.06979	0.07069
8	0.032	0.133	0.038	29.81	85.9	68.4	95.6	0.07197	0.06979	0.07069
9	0.032	0.13	0.038	29.81	86.1	68.6	95.8	0.07194	0.06978	0.07067
10	0.031	0.128	0.036	29.81	86.1	68.5	95.9	0.07194	0.06977	0.07065
11	0.035	0.133	0.04	29.81	86	68.5	95.9	0.07195	0.06977	0.07065
12	0.035	0.129	0.044	29.81	86.2	68.6	96	0.07192	0.06976	0.07064
13	0.037	0.13	0.043	29.81	86.3	68.7	96	0.07191	0.06976	0.07065
14	0.039	0.13	0.045	29.81	86.1	68.5	96	0.07194	0.06975	0.07064
15	0.037	0.126	0.043	29.81	86.6	68.8	96.1	0.07187	0.06974	0.07063
16	0.038	0.126	0.046	29.81	86.4	68.7	96.1	0.07188	0.06972	0.07062
17	0.04	0.131	0.046	29.81	86.7	68.9	96.2	0.07185	0.06972	0.07061
18	0.037	0.131	0.043	29.81	86.7	68.9	96.2	0.07184	0.0697	0.0706
19	0.033	0.13	0.037	29.81	86.9	69	96.2	0.07182	0.06969	0.0706
20	0.032	0.134	0.037	29.81	87.2	69.2	96.3	0.07178	0.06968	0.07059
21	0.033	0.128	0.039	29.81	87.4	69.3	96.4	0.07176	0.06967	0.07058
22	0.037	0.13	0.042	29.81	87.2	69.1	96.5	0.0718	0.06967	0.07057
23	0.034	0.13	0.042	29.81	87.2	69.1	96.5	0.07178	0.06966	0.07056
24	0.032	0.129	0.038	29.81	87.3	69.2	96.7	0.07178	0.06964	0.07055
25	0.041	0.129	0.046	29.81	87.1	69.1	96.8	0.07181	0.06965	0.07054
26	0.034	0.131	0.039	29.81	87	69.1	96.8	0.07182	0.06963	0.07054
27	0.034	0.128	0.041	29.81	87.2	69.1	96.9	0.07179	0.06962	0.07052
28	0.039	0.128	0.043	29.81	87.4	69.3	97	0.07177	0.06961	0.07052
29	0.036	0.127	0.041	29.81	87.5	69.3	97.1	0.07175	0.06961	0.0705
30	0.038	0.125	0.043	29.81	87.3	69.3	97.1	0.07176	0.0696	0.0705
31	0.037	0.123	0.041	29.81	87.4	69.3	97.2	0.07175	0.06958	0.07048
32	0.033	0.13	0.04	29.81	87.6	69.4	97.2	0.07173	0.06957	0.07047
33	0.031	0.132	0.039	29.81	87.6	69.5	97.3	0.07172	0.06956	0.07046
34	0.034	0.127	0.041	29.81	87.8	69.6	97.6	0.0717	0.06955	0.07043
35	0.031	0.13	0.037	29.81	87.9	69.7	97.6	0.07168	0.06954	0.07042
36	0.034	0.127	0.039	29.81	87.9	69.7	97.7	0.07168	0.06955	0.07042
37	0.031	0.127	0.037	29.81	88.1	69.8	97.7	0.07166	0.06954	0.07041
38	0.011	0.127	0.017	29.81	87.8	69.6	97.7	0.0717	0.06954	0.07041
39	0.01	0.128	0.017	29.81	87.7	69.6	97.6	0.07171	0.06954	0.07042
40	0.03	0.127	0.035	29.81	87.7	69.6	97.6	0.07169	0.06954	0.0704
41	0.036	0.132	0.042	29.81	87.8	69.7	97.8	0.07169	0.06954	0.07039
42	0.04	0.124	0.048	29.81	88	69.8	97.8	0.07166	0.06954	0.07039
43	0.032	0.126	0.035	29.81	87.7	69.6	97.8	0.0717	0.06953	0.07039
44	0.03	0.129	0.037	29.81	87.5	69.5	97.8	0.07173	0.06954	0.07039
45	0.035	0.124	0.042	29.81	87.5	69.5	97.9	0.07173	0.06953	0.07039
46	0.033	0.126	0.041	29.81	87.7	69.7	97.8	0.0717	0.06952	0.07038
47	0.038	0.136	0.043	29.81	87.9	69.8	97.9	0.07167	0.06951	0.07037
48	0.031	0.132	0.039	29.81	88	69.9	97.8	0.07166	0.06951	0.07039
49	0.03	0.133	0.039	29.81	88.2	70	97.9	0.07163	0.0695	0.07037
50	0.035	0.133	0.042	29.81	88.2	69.9	97.8	0.07164	0.0695	0.07038
51	0.032	0.134	0.039	29.81	88.2	70	97.9	0.07163	0.0695	0.07037
52	0.032	0.139	0.037	29.81	88.4	70.2	98	0.0716	0.06948	0.07035
53	0.027	0.135	0.033	29.81	88.3	70	98	0.07162	0.0695	0.07036
54	0.027	0.137	0.033	29.81	88	69.8	98	0.07167	0.06952	0.07036
55	0.03	0.134	0.036	29.81	87.7	69.6	98	0.07171	0.06957	0.07036
56	0.03	0.137	0.036	29.81	87.4	69.6	98	0.07174	0.06961	0.07036
57	0.034	0.132	0.041	29.81	86.7	69.2	97.9	0.07184	0.06966	0.07038
58	0.03	0.139	0.037	29.81	86.7	69.2	97.8	0.07184	0.06967	0.07039
59	0.031	0.13	0.039	29.81	86.5	69.2	97.8	0.07186	0.06969	0.0704
60	0.034	0.138	0.037	29.81	86.6	69.3	97.6	0.07184	0.06972	0.07041
61	0.029	0.132	0.032	29.81	86.4	69	97.4	0.07188	0.06978	0.07044
62	0.034	0.129	0.041	29.81	85.3	68.5	97.2	0.07203	0.06986	0.07047

Table 31: Data from D-WM continued.

Counts	CondCFM Nozzle CFM	CondCFM Outlet CFM	CondSCF MNozzle SCFM	Cond ESP in/H2O	Cond Chamber Discharge Pres in/H2O	Cond Diff Pres in/H2O	Cond Nozzle Temp C	Cond Coil Temp C	Evap Coil Temp C	Cond Airflow at Nozzle CFM	Cond Airflow Standard SCFM	Barometric in Hg	IndoorDB C
1	1002.9	1016.3	1002.9	0.036192	0.042953	0.131369	35.15107	0.465875	29.9779	984.9781	929.1168	29.81182	26.57239
2	994.2	1007.5	994.2	0.035273	0.043481	0.127778	35.20425	0.472964	30.16087	971.3277	916.1035	29.81368	26.45737
3	980.7	993.8	980.7	0.029719	0.036203	0.129065	35.22604	0.471631	29.87538	976.3399	920.7031	29.81145	26.45332
4	992.3	1005.5	992.3	0.037195	0.042419	0.126466	35.23677	0.466519	29.63032	966.3422	911.2551	29.81111	26.50774
5	981.9	994.9	981.9	0.030815	0.035476	0.130969	35.25322	0.468432	45.95202	983.6389	927.5113	29.81161	26.55481
6	987.7	1000.5	987.7	0.033353	0.039635	0.127938	35.32194	0.464712	29.66585	972.1632	916.4716	29.81078	26.58191
7	993.5	1006.3	993.5	0.031524	0.037333	0.129637	35.35828	0.474568	29.82421	978.7549	922.5332	29.81091	26.61514
8	990.3	1003.1	990.3	0.032202	0.036921	0.128976	35.35719	0.461493	29.8389	976.2472	920.1306	29.80975	26.53039
9	980.9	993.5	980.9	0.036834	0.040452	0.128034	35.43262	0.474698	29.77612	972.778	916.5875	29.80931	26.56199
10	974	986.2	974	0.035951	0.042751	0.126418	35.50236	0.480377	29.76143	966.6081	910.6498	29.81101	26.54151
11	993.5	1006.1	993.5	0.035834	0.040689	0.13178	35.50735	0.455131	30.20018	987.1522	929.9798	29.81075	26.50907
12	977.9	990.2	977.9	0.035606	0.043773	0.12847	35.55097	0.47019	29.76007	974.6045	918.011	29.8109	26.4165
13	980.6	993.2	980.6	0.035866	0.040619	0.131211	35.52742	0.466692	30.37227	985.0469	927.8893	29.81079	26.57737
14	978.8	991.3	978.8	0.035488	0.041934	0.126999	35.58193	0.468282	37.25548	969.0189	912.6005	29.80878	26.62909
15	965.9	978.3	965.9	0.034379	0.041245	0.129386	35.58591	0.468242	29.5238	978.1923	921.2336	29.81107	26.60434
16	965.1	977.5	965.1	0.030917	0.037737	0.132367	35.62363	0.469336	30.59899	989.5683	931.8558	29.81164	26.66072
17	983.6	996.2	983.6	0.038911	0.043939	0.128691	35.65568	0.459965	29.97827	975.6783	918.5798	29.80852	26.64517
18	984.4	997.1	984.4	0.042207	0.046493	0.125652	35.68603	0.460828	29.96428	963.9968	907.4848	29.80807	26.65771
19	982.3	995.1	982.3	0.036325	0.04254	0.132395	35.69425	0.475213	29.91996	989.8562	931.7951	29.80865	26.70648
20	995	1008.1	995	0.037158	0.040197	0.131191	35.71137	0.468007	29.97113	985.3247	927.4679	29.81039	26.67704
21	974.9	987.5	974.9	0.034423	0.039227	0.131327	35.79152	0.467272	30.04637	985.9663	927.8271	29.81032	26.72331
22	980.9	993.5	980.9	0.03093	0.035517	0.131645	35.85569	0.451105	29.91302	987.2576	928.8768	29.81011	26.67603
23	979.7	992.4	979.7	0.033593	0.038863	0.128054	35.85118	0.450714	29.98204	973.5161	915.9938	29.8106	26.66169
24	977.5	990.2	977.5	0.03638	0.04197	0.130931	35.93585	0.459854	30.15866	984.6501	926.2178	29.8113	26.73487
25	976.8	989.3	976.8	0.035165	0.040364	0.131196	35.99092	0.460053	29.65489	985.7588	927.0662	29.80995	26.70743
26	985.1	997.9	985.1	0.030667	0.034965	0.130402	35.99555	0.453355	30.50528	982.7623	924.2005	29.80903	26.72169
27	974.9	987.5	974.9	0.034005	0.038964	0.130287	36.02858	0.465311	62.53686	982.3457	923.7651	29.81105	26.72041
28	974.6	987.2	974.6	0.034339	0.036176	0.126	36.0804	0.468869	30.32862	965.9634	908.153	29.81109	26.75376
29	971.6	984.1	971.6	0.037301	0.043552	0.125742	36.14057	0.471374	31.01594	965.0583	907.1171	29.81011	26.79157
30	961.7	974.1	961.7	0.037524	0.041341	0.125802	36.15232	0.462505	30.28977	965.3164	907.312	29.80936	26.63876
31	954.4	966.8	954.4	0.029736	0.034508	0.130264	36.19259	0.45934	30.21663	982.5669	923.3517	29.80867	26.12966
32	979.9	992.6	979.9	0.032297	0.038972	0.125567	36.24271	0.467431	30.09705	964.5402	906.3041	29.81033	26.15025
33	989.5	1002.3	989.5	0.033667	0.037403	0.131016	36.27733	0.459473	30.16905	985.5364	925.9663	29.81197	26.556
34	970.7	983	970.7	0.03035	0.037556	0.126815	36.41784	0.456918	47.31056	969.6929	910.5516	29.80906	26.80254
35	983.8	996.1	983.8	0.03851	0.042586	0.129113	36.46054	0.462594	30.21866	978.6119	918.7903	29.80919	26.53006
36	968.9	981	968.9	0.034541	0.041251	0.128543	36.47468	0.464903	30.37741	976.482	916.6786	29.80684	26.54919
37	971.4	983.5	971.4	0.027163	0.036368	0.130969	36.48102	0.450154	30.20556	985.7346	925.4175	29.81028	26.42873
38	971.8	984	971.8	0.003382	0.008017	0.13049	36.48246	0.454661	30.36652	983.9259	923.69	29.81045	26.5936
39	973.8	986.1	973.8	0.007975	0.013751	0.126853	36.42095	0.447971	30.38482	969.8427	910.6804	29.81079	26.68203
40	969	981.1	969	0.033258	0.038634	0.124726	36.46778	0.463282	30.62509	961.6634	902.8403	29.80829	26.6422
41	990.2	1002.3	990.2	0.032	0.038573	0.132269	36.54538	0.450263	30.06019	990.8006	929.9318	29.80857	26.51839
42	957.2	968.8	957.2	0.036691	0.044416	0.123328	36.56002	0.459287	31.0105	956.3498	897.5511	29.80841	26.53408
43	967	979	967	0.032851	0.038124	0.12637	36.54388	0.453923	30.62119	968.1853	908.7132	29.80752	26.58337
44	978	990	978	0.030363	0.036303	0.129963	36.56886	0.454014	30.20341	982.0385	921.6793	29.80863	26.76365
45	958.6	970.3	958.6	0.033276	0.038688	0.129176	36.58757	0.459664	30.24844	979.0769	918.7843	29.80713	26.82037
46	966	977.9	966	0.034634	0.041015	0.125643	36.56759	0.455336	30.57903	965.4331	905.9968	29.80647	26.97106
47	1004.8	1017.2	1004.8	0.033398	0.039589	0.135817	36.58879	0.465678	30.53116	1004.258	942.3706	29.80901	26.89736
48	989.5	1002	989.5	0.027161	0.033993	0.140864	36.55453	0.4612	30.80018	1022.91	959.949	29.80909	26.86434
49	994.7	1007.1	994.7	0.031541	0.039033	0.137194	36.59372	0.452359	30.16509	1009.374	947.2028	29.81191	26.87391
50	992.7	1005.3	992.7	0.034705	0.040722	0.139696	36.57951	0.460039	30.37524	1018.696	955.8383	29.80576	26.72692
51	997.6	1010.1	997.6	0.037013	0.042541	0.13682	36.59447	0.454469	30.51956	1008.08	945.8068	29.80571	26.73451
52	1016.1	1028.8	1016.1	0.034487	0.041115	0.139568	36.67448	0.469061	43.60262	1018.412	955.2305	29.80628	26.60707
53	1002.5	1014.9	1002.5	0.033408	0.038663	0.135583	36.6451	0.464905	30.5393	1003.503	941.4322	29.80798	26.73107
54	1010.2	1022.4	1010.2	0.032317	0.035813	0.13949	36.66037	0.459045	29.84899	1018.054	955.0319	29.80717	26.85106
55	999.2	1010.7	999.2	0.03492	0.039099	0.134761	36.65181	0.455125	29.63823	1000.389	938.5638	29.80767	26.88242
56	1010.3	1021.1	1010.3	0.034215	0.041003	0.1355	36.65117	0.454449	29.45647	1003.166	941.1589	29.80768	26.81345
57	991.6	1001.9	991.6	0.036854	0.041844	0.13817	36.62102	0.454801	32.07555	1013.009	950.5943	29.80884	26.78781
58	1015	1025.5	1015	0.033035	0.038813	0.133079	36.54052	0.460761	29.40934	993.8417	932.8165	29.808	26.53963
59	982.7	992.6	982.7	0.030641	0.03606	0.136042	36.53759	0.470309	29.36302	1004.949	943.2939	29.80971	26.77268
60	1012.2	1022.3	1012.2	0.028647	0.032338	0.137124	36.43782	0.441713	29.56403	1008.886	947.192	29.80754	26.86867
61	989.7	999.1	989.7	0.032372	0.036883	0.136023	36.3441	0.455231	28.93909	1004.563	943.5467	29.80906	26.59311
62	978	986.6	978	0.030543	0.036951	0.141891	36.24776	0.458608	48.00998	1026.037	964.0768	29.80842	26.89251

Counts	IndoorWB C	EvapExit DB C	EvapExit WB C	Outdoor DB C	Outdoor WB C	EvapStat Pres in/H2O	Chamber Discharge Pres in/H2O	EvapDiffPres in/H2O	EvapNozz Temp C	Airflow at Nozzle CFM	Standard Air Flow SCFM	CondVoltage V	CondPower kW	Cond Exit Dry-bulb C
1	19.82468	13.04387	12.16878	29.8312	20.10344	0.47787	0.465875	0.097339	16.06356	430.067	432.6782	222.2678	2.04663	39.35731
2	19.77243	13.03857	12.19888	29.9833	20.21222	0.48513	0.472964	0.09641	16.06604	427.9668	430.6029	222.336	2.045763	39.41522
3	19.76925	13.03515	12.20027	29.8821	20.14595	0.483955	0.471631	0.095594	16.07556	426.1537	428.7323	222.3376	2.045953	39.43683
4	19.80585	13.04284	12.21404	29.8535	20.13353	0.478794	0.466519	0.097777	16.04814	431.0391	433.6686	222.3918	2.045365	39.42438
5	19.8372	13.0596	12.22527	29.737	20.09037	0.480519	0.468432	0.095958	16.04078	426.9557	429.5767	222.5485	2.045228	39.43537
6	19.80258	13.04819	12.23771	29.7915	20.11427	0.477198	0.464712	0.094038	16.03779	422.6071	425.2069	222.3353	2.045336	39.44095
7	19.8216	13.06515	12.2589	29.8904	20.19618	0.486564	0.474568	0.098069	16.04865	431.6863	434.3307	222.4259	2.045532	39.44086
8	19.79423	13.04877	12.26964	29.934	20.21859	0.473906	0.461493	0.097956	16.06195	431.4583	434.0507	222.4401	2.046173	39.4435
9	19.83642	13.05471	12.26527	30.0669	20.32036	0.487068	0.474698	0.096337	16.04134	427.8223	430.4215	222.1752	2.047782	39.47018
10	19.81929	13.02645	12.25637	30.0627	20.29165	0.492583	0.480377	0.098904	16.06342	433.5519	436.185	222.3836	2.051925	39.49023
11	19.80971	13.0161	12.24596	30.0053	20.25403	0.467322	0.455131	0.094998	16.07704	424.8255	427.359	223.0879	2.052831	39.49776
12	19.82446	13.0647	12.26159	30.1239	20.33995	0.482237	0.47019	0.097573	16.07128	430.6094	433.1862	223.1375	2.051804	39.55164
13	19.83828	13.05479	12.26986	30.1686	20.36875	0.478742	0.466692	0.096862	16.07655	429.016	431.5836	223.2432	2.056684	39.5711
14	19.8447	13.04117	12.28973	30.0653	20.31036	0.480407	0.468282	0.096621	16.08124	428.4938	431.0274	223.3701	2.056591	39.58755
15	19.85	13.07164	12.30347	30.3077	20.46267	0.480084	0.468242	0.096283	16.07849	427.7171	430.2792	223.2105	2.05561	39.64691
16	19.85885	13.09501	12.31635	30.2448	20.41799	0.481034	0.469336	0.096976	16.05356	429.2493	431.8696	223.2634	2.058963	39.67311
17	19.8513	13.08666	12.33932	30.4015	20.50056	0.471863	0.459965	0.094521	16.0597	423.745	426.2714	223.1999	2.06077	39.70952
18	19.84168	13.08413	12.33557	30.4025	20.50952	0.472622	0.460828	0.095753	16.06438	426.5355	429.0694	223.3651	2.065752	39.76569
19	19.86016	13.10306	12.33652	30.5055	20.5441	0.486842	0.475213	0.097431	16.06108	430.2878	432.8699	223.2303	2.065284	39.80247
20	19.88495	13.10984	12.34379	30.688	20.68087	0.479325	0.468007	0.098643	16.06926	432.9914	435.582	223.1878	2.065726	39.86469
21	19.87419	13.11971	12.35439	30.7548	20.70001	0.478866	0.467272	0.097298	16.07932	429.9983	432.5643	223.2261	2.070045	39.89467
22	19.88528	13.13297	12.38153	30.6567	20.6138	0.463228	0.451105	0.095824	16.08171	426.7052	429.2205	222.9392	2.068612	39.91537
23	19.92639	13.15736	12.38759	30.6645	20.61399	0.462446	0.450714	0.095967	16.0839	427.0327	429.5373	223.1857	2.070592	39.97803
24	19.96191	13.17635	12.40549	30.6957	20.65078	0.471502	0.459854	0.094743	16.09205	424.265	426.758	223.1155	2.073265	40.0364
25	19.91731	13.14945	12.42015	30.596	20.59779	0.472162	0.460053	0.096377	16.10431	427.9669	430.4547	222.9054	2.075515	40.05577
26	19.88002	13.15879	12.42003	30.5637	20.58042	0.464963	0.453355	0.096652	16.13601	428.6076	431.0457	222.7598	2.074186	40.10606
27	19.92089	13.12599	12.42023	30.6346	20.62528	0.477633	0.465311	0.097153	16.09801	429.69	432.2184	223.2301	2.076413	40.14572
28	19.99117	13.16826	12.42666	30.7629	20.74292	0.480759	0.468869	0.096819	16.1257	428.9698	431.4363	222.9133	2.080743	40.19029
29	20.0058	13.20325	12.44727	30.8003	20.74812	0.483611	0.471374	0.098969	16.11281	433.762	436.2604	223.0492	2.080426	40.2188
30	19.96743	13.21299	12.47116	30.7404	20.70997	0.474764	0.462505	0.096948	16.12098	429.2738	431.7126	222.6973	2.082215	40.24295
31	19.93013	13.20028	12.49081	30.7941	20.73519	0.471284	0.45934	0.095569	16.11888	426.1977	428.5679	222.4846	2.08521	40.26798
32	19.97324	13.19749	12.49795	30.8728	20.8013	0.479487	0.467431	0.09837	16.11623	432.463	434.8891	222.6135	2.085269	40.32282
33	20.04041	13.20195	12.5141	30.9112	20.81082	0.471297	0.459473	0.098382	16.11009	432.4684	434.9405	222.5795	2.088392	40.3779
34	20.13842	13.2141	12.55915	31.0106	20.88777	0.468647	0.456918	0.098223	16.13745	432.1614	434.5378	222.7761	2.09069	40.42949
35	20.11739	13.27156	12.5829	31.0603	20.92865	0.474681	0.462594	0.097118	16.14592	429.7064	432.0433	222.7344	2.09136	40.44555
36	20.10308	13.20559	12.58864	31.0736	20.9266	0.476736	0.464903	0.099657	16.14188	435.3634	437.7093	221.9776	2.090603	40.45271
37	20.117	13.24422	12.60271	31.1443	20.97291	0.462082	0.450154	0.097762	16.13991	431.1386	433.4832	222.1987	2.090084	40.45492
38	20.13	13.28189	12.63593	30.9956	20.88501	0.466049	0.454661	0.097085	16.14463	429.6242	431.9751	221.914	2.090677	40.45553
39	20.12284	13.27462	12.6436	30.957	20.87433	0.460169	0.447971	0.096938	16.16017	429.3027	431.6388	222.09	2.091005	40.44908
40	20.10287	13.23067	12.64704	30.9652	20.88612	0.475611	0.463282	0.098462	16.15709	432.71	435.05	222.2877	2.091251	40.43565
41	20.10609	13.30987	12.67081	31.0178	20.93039	0.46277	0.450263	0.097155	16.18647	429.8278	432.0852	221.7305	2.090139	40.44152
42	20.1476	13.2744	12.69153	31.1194	21.00319	0.471564	0.459287	0.097086	16.18387	429.6752	431.9301	222.0179	2.089365	40.41892
43	20.17358	13.31665	12.68107	30.9542	20.88059	0.465952	0.453923	0.096942	16.16277	429.3483	431.6107	222.1963	2.091291	40.45621
44	20.23558	13.32888	12.7033	30.837	20.82439	0.466188	0.454014	0.096362	16.17967	428.0493	430.2943	222.3239	2.090124	40.43728
45	20.28483	13.37328	12.72044	30.833	20.84949	0.472012	0.459664	0.097217	16.17959	429.9804	432.2078	222.1853	2.092326	40.47699
46	20.30475	13.38027	12.73819	30.9401	20.92876	0.467291	0.455336	0.097557	16.19472	430.7555	432.959	222.1789	2.091622	40.47952
47	20.25692	13.36985	12.75688	31.0453	21.02437	0.477492	0.465678	0.097059	16.18601	429.607	431.8752	221.8625	2.09219	40.51276
48	20.2199	13.3616	12.7506	31.139	21.06189	0.473413	0.4612	0.097514	16.22215	430.6491	432.874	222.299	2.094161	40.54539
49	20.21354	13.34066	12.75179	31.2288	21.13216	0.464255	0.452359	0.098803	16.2198	433.502	435.7792	221.836	2.092595	40.57646
50	20.20405	13.35838	12.75328	31.2129	21.07251	0.471944	0.460039	0.097804	16.22885	431.3303	433.489	221.647	2.093371	40.61599
51	20.21036	13.34774	12.75332	31.243	21.12449	0.466797	0.454469	0.097233	16.23999	430.0648	432.1929	221.7851	2.096141	40.61318
52	20.22214	13.35287	12.76013	31.3551	21.19717	0.481016	0.469061	0.099536	16.23423	435.184	437.3495	222.1026	2.096022	40.64871
53	20.22177	13.29842	12.7506	31.246	21.11607	0.47694	0.464905	0.099894	16.23992	435.9617	438.1567	221.8967	2.097502	40.58558
54	20.24182	13.33844	12.77072	31.1	21.02449	0.471248	0.459045	0.096524	16.25061	428.4691	430.6019	222.3055	2.092619	40.50975
55	20.2208	13.34253	12.77143	30.9227	20.91654	0.466991	0.455125	0.098848	16.25752	433.6574	435.8174	221.8604	2.081336	40.32258
56	20.23382	13.36156	12.76019	30.8	20.89763	0.46731	0.454449	0.098103	16.26484	432.0124	434.1412	221.5352	2.073704	40.09878
57	20.26726	13.36909	12.74116	30.4049	20.68209	0.466626	0.454801	0.099104	16.26586	434.2383	436.3782	221.4881	2.06427	39.91856
58	20.2932	13.39001	12.77059	30.3622	20.6853	0.473222	0.460761	0.097507	16.27054	430.7048	432.7795	221.8456	2.061461	39.8326
59	20.27415	13.3792	12.75996	30.2945	20.66231	0.482652	0.470309	0.099891	16.23824	435.9461	438.1609	222.6756	2.058123	39.76976
60	20.25673	13.35628	12.73744	30.3617	20.71085	0.453326	0.441713	0.094854	16.26057	424.7148	426.7999	222.6513	2.052538	39.64186
61	20.21605	13.3532	12.72896	30.2046	20.57782	0.467506	0.455231	0.097041	16.26573	429.6383	431.7584	222.6491	2.0405	39.36536
62	20.22555	13.37593	12.69604	29.6448	20.28573	0.4704	0.458608	0.09897	16.29523	433.9483	436.067	222.7818	2.027868	39.068

Counts	Cond Exit Wet-bulb C	RH %	Evap Disch Temp C	Cooling Capacity Btu/hr	Total Cooling Capacity Btu/hr	Sensible Cooling Capacity Btu/hr	Latent Cooling Capacity Btu/hr	Duct Loss Correction Btu/hr	Total Cooling Capacity Cond Side Btu/hr	Corrected Total Cooling Capacity Btu/hr	Corrected Sensible Cooling Capacity Btu/hr	Sensible Cooling Capacity Cond Side Btu/hr
1	23.91465	70.43513	24.45141	18314.19	18235.97	11620.3	6615.671	78.2	18028.5	18314.19	11698.52	10761.24
2	23.95307	70.20595	24.49162	18106.27	18025.95	11487.52	6538.425	80.3	17685.2	18106.27	11567.84	10645.42
3	23.97033	70.14983	24.55794	18174.85	18095.36	11551.05	6544.305	79.5	17692.7	18174.85	11630.54	10474.98
4	23.98523	70.11654	24.5753	18433.37	18354.43	11708.04	6646.396	78.9	18223.7	18433.37	11786.98	10711.65
5	24.00632	70.20458	24.60624	18260.11	18182.48	11586.04	6596.446	77.6	18668.1	18260.11	11663.66	11010.83
6	24.02446	70.05761	24.62396	18036.77	17958.92	11542.18	6416.736	77.8	18614.7	18036.77	11620.03	10846.91
7	24.04338	70.26026	24.62355	17901.86	17823.36	11471.8	6351.56	78.5	17740.7	17901.86	11550.3	10313.08
8	24.06442	70.24634	24.64018	18114.41	18035.33	11627.36	6407.967	79.1	18254.6	18114.41	11706.44	10615.12
9	24.08545	70.40711	24.65304	18102.41	18022.17	11604.92	6417.247	80.2	17268	18102.41	11685.16	10021.26
10	24.10878	70.31651	24.67955	18053.82	17973.22	11522.24	6450.982	80.6	17495.2	18053.82	11602.84	9979.262
11	24.13405	70.27883	24.67864	18060.49	17980.35	11523.13	6457.221	80.1	18153.3	18060.49	11603.27	10360.51
12	24.16328	70.42833	24.70969	18127.6	18046.06	11443.5	6602.562	81.5	17918.5	18127.6	11525.04	10265.38
13	24.18988	70.3637	24.73662	18263.4	18182.23	11672.59	6509.641	81.2	18048.1	18263.4	11753.76	10316.25
14	24.21139	70.25528	24.7702	18266.68	18186.63	11706.87	6479.771	80	18785.6	18266.68	11786.91	10664.81
15	24.23904	70.32828	24.79165	18259.58	18177.45	11694.02	6483.431	82.1	17935.5	18259.58	11776.15	10198.3
16	24.26262	70.30088	24.82024	18387.21	18306.02	11811.46	6494.557	81.2	17871.6	18387.21	11892.65	10063.02
17	24.2898	70.32204	24.85582	18098.78	18016.25	11665.81	6350.439	82.5	18165.7	18098.78	11748.34	10239.28
18	24.32563	70.33499	24.89258	18216.97	18134.32	11755.26	6379.055	82.7	18439	18216.97	11837.92	10370.63
19	24.35089	70.31052	24.93051	18232.92	18149.86	11767.7	6382.156	83.1	17943	18232.92	11850.77	9936.829
20	24.37963	70.25097	24.94215	18177.34	18092.6	11673.96	6418.636	84.7	16570.6	18177.34	11758.71	9236.649
21	24.41061	70.22996	24.97955	18046.29	17960.98	11641.32	6319.657	85.3	17361.9	18046.29	11726.63	9636.74
22	24.44351	70.18848	25.03216	18274.3	18189.75	11728.56	6461.187	84.6	18157.6	18274.3	11813.11	9931.234
23	24.45308	70.16873	25.03945	18306.08	18221.56	11709.2	6512.364	84.5	18393.4	18306.08	11793.72	10105.05
24	24.48481	70.09744	25.09534	18162.19	18077.77	11567.09	6510.681	84.4	18462.3	18162.19	11651.5	10186.6
25	24.51601	70.10904	25.12322	18163.26	18079.37	11690.38	6388.994	83.9	19035.6	18163.26	11774.26	10411.99
26	24.54146	70.00267	25.15285	18019.88	17936.58	11636.99	6299.585	83.3	19115.5	18019.88	11720.29	10427.61
27	24.55618	70.07214	25.19062	18249.41	18165.36	11772.65	6392.709	84.1	19260.7	18249.41	11856.7	10544.64
28	24.58334	69.9584	25.22902	18588.91	18503.84	11842.9	6660.94	85.1	18129.6	18588.91	11927.97	9996.626
29	24.61726	70.07738	25.25583	18523.36	18438.38	11826.73	6611.647	85	18630.5	18523.36	11911.71	10181.57
30	24.63973	70.04661	25.27784	18192.19	18107.22	11591.42	6515.798	85	19655	18192.19	11676.39	10774.86
31	24.66619	70.00372	25.29788	17950.08	17861.69	11043.43	6818.259	88.4	18656.8	17950.08	11131.82	10035
32	24.69577	69.99067	25.32718	18346.19	18257.59	11300.83	6956.76	88.6	18841.6	18346.19	11389.43	10243.82
33	24.72142	70.02	25.35224	18272.19	18185.12	11487.81	6697.305	87.1	18538.6	18272.19	11574.88	9966.445
34	24.77237	69.85918	25.39513	18667.61	18580.88	11816.42	6764.456	86.7	18462.8	18667.61	11903.16	9883.963
35	24.79046	69.81427	25.43572	18511.14	18423.18	11584.45	6838.725	88	18372.6	18511.14	11672.42	9854.529
36	24.80494	69.8575	25.4382	18440.02	18351.61	11545.3	6806.315	88.4	18742.7	18440.02	11633.71	9995.72
37	24.81307	69.83854	25.44241	18604.34	18514.7	11491.55	7023.148	89.6	18672.8	18604.34	11581.19	9944.401
38	24.82219	69.99258	25.44227	18102	18014.59	11351.58	6663.009	87.4	19016.4	18102	11438.99	10044.64
39	24.82988	69.99975	25.44568	18286.29	18199.66	11596.05	6603.606	86.6	18921.5	18286.29	11682.69	9997.271
40	24.84203	70.04533	25.45052	18179.62	18092.59	11588	6504.597	87	19161.9	18179.62	11675.02	10079.26
41	24.85687	70.09047	25.44852	18182.3	18094.92	11483.54	6611.376	87.4	18818	18182.3	11570.93	9898.249
42	24.85636	70.10545	25.4464	18342.68	18253.95	11454.89	6799.063	88.7	18684.2	18342.68	11543.62	9869.437
43	24.86704	70.27242	25.44748	18340.79	18253.86	11448.11	6805.75	86.9	19496.1	18340.79	11535.04	10196.76
44	24.87904	70.20947	25.454	18546.78	18462.03	11638.81	6823.215	84.8	19464.7	18546.78	11723.57	10090.76
45	24.89229	70.29323	25.46589	18444.58	18360.18	11530.94	6829.245	84.4	19721.8	18444.58	11615.34	10425.39
46	24.91078	70.33291	25.46084	18530.29	18445.62	11710.73	6734.883	84.7	19513.1	18530.29	11795.41	10351.3
47	24.93358	70.50214	25.47003	18615.43	18529.54	11799.86	6729.68	85.9	20219.2	18615.43	11885.75	10890.38
48	24.95271	70.45161	25.51697	18589.87	18502.97	11826.08	6676.9	86.9	19836.7	18589.87	11912.97	10550.6
49	24.98389	70.42479	25.5231	18424.9	18337.2	11727.83	6609.371	87.7	19642.4	18424.9	11815.53	10474.91
50	25.00277	70.29794	25.54476	18312.51	18224.29	11547.53	6676.76	88.2	20035.7	18312.51	11635.75	10532.54
51	25.01619	70.34355	25.56961	18460.47	18372.17	11686.66	6685.515	88.3	19822	18460.47	11774.96	10517.33
52	25.02302	70.28506	25.57191	18469.79	18379.54	11541.11	6838.432	90.3	19195	18469.79	11631.36	10178.29
53	25.01983	70.16034	25.59007	18460.13	18371.34	11647.33	6724.019	88.8	19733.2	18460.13	11736.12	10320.21
54	24.97444	69.53049	25.54841	18408.97	18322.49	11735.23	6587.257	86.5	19906	18408.97	11821.71	10393.67
55	24.88923	69.69477	25.46848	18329.72	18244.64	11719.28	6525.363	85.1	20147.4	18329.72	11804.36	10511.72
56	24.79798	69.98515	25.34011	18545.2	18460.85	11739.9	6720.942	84.4	18905.5	18545.2	11824.26	9881.622
57	24.73279	70.47378	25.21072	18536.43	18455.32	11628.91	6826.411	81.1	20556.8	18536.43	11710.02	10831.84
58	24.70043	70.97882	25.10496	18536.2	18454.42	11375.49	7078.93	81.8	20234.3	18536.2	11457.26	10683.52
59	24.67825	71.15595	25.02097	18645.88	18565.98	11687.9	6878.078	79.9	20510.4	18645.88	11767.8	10843.89
60	24.62173	70.70862	24.93401	18505.61	18425.23	11680.24	6744.989	80.4	20113.4	18505.61	11760.62	10725.69
61	24.49692	70.36065	24.79965	18660.33	18580.21	11617.42	6962.793	80.1	19766.8	18660.33	11697.54	10401.61
62	24.33422	70.53443	24.60959	18241.64	18167.62	11553.01	6614.61	74	20004.7	18241.64	11627.03	10669.75

Table 32: Data from B-DM testing condition.

Count	Chamber Discharge Pres	External Static Pressure	Evap Diff Pres	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Barometric Pres	Indoor Temp	Indoor Temp Ref	Evap Exit Drybulb	Cond Exit Drybulb	Evap Coil Temp	Outdoor Temp Ref	Evap Nozzle Temp
	IWC	IWC	IWC	IWC	IWC	IWC	in. Hg	C	C	C	C	C	C	C
1	0.46	0.5	0.1	0.01	0.01	0.15	29.636	26.17	25.51	13.35	40.78	30.32	26.84	16.76
2	0.46	0.48	0.08	0.01	0.01	0.21	29.625	26.21	25.51	13.37	40.8	31.15	26.86	16.73
3	0.49	0.49	0.1	0.01	0	0.14	29.627	26.19	25.53	13.4	40.76	31.24	26.86	16.73
4	0.46	0.49	0.09	0	0	0.21	29.617	26.21	25.56	13.4	40.77	28.09	26.83	16.71
5	0.48	0.49	0.1	0.03	0.02	0.18	29.603	26.35	25.59	13.46	40.77	30.64	26.73	16.73
6	0.45	0.48	0.08	0.02	0.02	0.14	29.608	26.41	25.56	13.5	40.76	30.51	26.79	16.69
7	0.46	0.51	0.08	-0.04	0	0.23	29.623	26.42	25.56	13.53	40.78	29.87	26.78	16.68
8	0.47	0.48	0.1	0	0.02	0.2	29.613	26.4	25.57	13.5	40.79	34.35	26.82	16.67
9	0.47	0.48	0.09	0.01	0	0.12	29.614	26.44	25.56	13.52	40.79	28.26	26.77	16.66
10	0.46	0.49	0.1	0	0.03	0.19	29.619	26.49	25.58	13.55	40.78	28.55	26.81	16.65
11	0.5	0.51	0.1	-0.03	-0.01	0.25	29.613	26.51	25.61	13.54	40.77	39.5	26.77	16.68
12	0.47	0.48	0.1	0	0.05	0.25	29.608	26.47	25.61	13.52	40.82	43.97	26.87	16.65
13	0.48	0.5	0.1	0.02	0.02	0.18	29.634	26.48	25.59	13.55	40.83	85.32	26.88	16.64
14	0.44	0.48	0.08	0	0.01	0.22	29.617	26.46	25.62	13.54	40.85	33.4	26.88	16.63
15	0.47	0.48	0.09	-0.01	-0.02	0.16	29.628	26.49	25.6	13.53	40.83	30.25	26.88	16.63
16	0.45	0.47	0.09	0.01	-0.01	0.08	29.577	26.51	25.6	13.56	40.84	28.6	26.87	16.61
17	0.46	0.48	0.09	0	-0.01	0.11	29.617	26.52	25.64	13.54	40.81	29.68	26.83	16.59
18	0.48	0.5	0.1	0.02	0.05	0.1	29.606	26.48	25.62	13.52	40.87	29.32	26.8	16.59
19	0.47	0.5	0.08	0	0.02	0.1	29.617	26.5	25.64	13.53	40.86	59.35	26.76	16.6
20	0.47	0.48	0.11	0.01	0.02	0.12	29.575	26.48	25.62	13.53	40.9	64.63	26.74	16.58
21	0.45	0.48	0.07	0.01	0.07	0.11	29.606	26.48	25.64	13.52	40.88	36.18	26.71	16.57
22	0.46	0.46	0.1	-0.02	0	0.29	29.616	26.51	25.64	13.5	40.85	31.87	26.67	16.56
23	0.48	0.49	0.08	0.03	0.05	0.14	29.61	26.5	25.65	13.53	40.87	35.32	26.66	16.56
24	0.48	0.49	0.1	0	0	0.13	29.617	26.51	25.66	13.53	40.87	35.46	26.65	16.55
25	0.47	0.49	0.09	0	0	0.15	29.61	26.52	25.63	13.49	40.85	32.89	26.59	16.53
26	0.46	0.48	0.09	-0.01	0	0.15	29.634	26.47	25.63	13.49	40.82	28.25	26.43	16.5
27	0.47	0.49	0.09	-0.01	-0.01	0.18	29.625	26.49	25.66	13.53	40.8	57.27	26.46	16.54
28	0.48	0.49	0.09	0.03	0.01	0.2	29.606	26.49	25.63	13.49	40.76	47.03	26.64	16.49
29	0.47	0.49	0.09	0	0	0.23	29.614	26.46	25.64	13.48	40.77	92.3	26.86	16.51
30	0.46	0.47	0.1	0.01	0.06	0.07	29.616	26.52	25.65	13.49	40.82	41.03	27.11	16.47
31	0.48	0.49	0.1	0.02	0.03	0.14	29.605	26.51	25.64	13.51	40.86	35.84	27.24	16.51
32	0.46	0.47	0.1	-0.01	0.01	0.15	29.61	26.5	25.64	13.48	41	43.47	27.53	16.49
33	0.47	0.5	0.09	0.01	-0.03	0.13	29.622	26.48	25.62	13.49	41.1	65.84	27.62	16.49
34	0.48	0.49	0.09	-0.03	0.01	0.07	29.654	26.47	25.64	13.5	41.16	35.6	27.68	16.48
35	0.49	0.51	0.1	0	0.01	0.17	29.61	26.49	25.68	13.5	41.22	28.87	27.62	16.51
36	0.47	0.48	0.1	0.02	0	0.15	29.608	26.5	25.67	13.51	41.32	28.88	27.62	16.49
37	0.47	0.49	0.11	0.03	-0.01	0.17	29.606	26.47	25.66	13.47	41.34	36.72	27.62	16.5
38	0.48	0.49	0.1	0	0	0.18	29.613	26.5	25.64	13.5	41.4	31.35	27.6	16.49
39	0.48	0.51	0.11	-0.02	0.02	0.15	29.617	26.48	25.65	13.48	41.42	32.59	27.43	16.5
40	0.48	0.51	0.1	0.03	0.02	0.1	29.616	26.42	25.65	13.41	41.41	29.92	27.3	16.49
41	0.48	0.51	0.09	0	0.03	0.11	29.62	26.43	25.65	13.39	41.38	28.63	27.16	16.49
42	0.47	0.49	0.09	0.04	0.03	0.13	29.606	26.44	25.63	13.32	41.35	34.62	27.08	16.48
43	0.47	0.49	0.1	0	0.01	0.26	29.616	26.43	25.66	13.32	41.33	34.5	27.06	16.5
44	0.47	0.5	0.1	0.04	-0.01	0.22	29.608	26.43	25.67	13.31	41.31	73.19	26.94	16.48
45	0.47	0.49	0.08	-0.01	0.01	0.14	29.61	26.39	25.66	13.24	41.25	38.35	26.94	16.48
46	0.48	0.5	0.09	0.02	0.02	0.2	29.619	26.43	25.66	13.3	41.25	28.71	26.97	16.5
47	0.47	0.49	0.09	-0.02	0.03	0.09	29.617	26.44	25.66	13.34	41.26	58.91	26.91	16.47
48	0.48	0.49	0.1	-0.01	0.03	0.15	29.627	26.4	25.68	13.35	41.24	34.93	26.89	16.49
49	0.47	0.5	0.08	-0.01	0	0.21	29.61	26.41	25.64	13.34	41.23	67.41	26.94	16.49
50	0.49	0.5	0.09	0.02	0.01	0.2	29.613	26.41	25.67	13.38	41.2	40.1	26.95	16.51
51	0.47	0.49	0.09	0.02	0.04	0.27	29.608	26.42	25.68	13.38	41.2	35.33	26.89	16.51
52	0.47	0.48	0.09	0.02	0.03	0.23	29.611	26.43	25.68	13.38	41.14	28.37	26.89	16.5
53	0.47	0.49	0.09	-0.02	0	0.21	29.611	26.44	25.68	13.41	41.13	31.31	26.9	16.51
54	0.46	0.49	0.08	-0.02	0.04	0.23	29.603	26.38	25.68	13.43	41.11	27.84	26.9	16.49
55	0.47	0.49	0.09	0.01	0.02	0.15	29.613	26.43	25.65	13.42	41.1	34.98	26.83	16.5
56	0.47	0.49	0.07	0	0.02	0.22	29.613	26.36	25.66	13.41	41.08	30.17	26.84	16.46
57	0.46	0.49	0.09	-0.01	0.03	0.14	29.608	26.4	25.67	13.41	41.09	66.23	26.89	16.47
58	0.47	0.48	0.08	0.03	0.01	0.2	29.641	26.39	25.64	13.4	41.08	66.84	26.87	16.45
59	0.47	0.5	0.09	0	0.04	0.21	29.627	26.4	25.65	13.42	41.08	29.81	27	16.48
60	0.48	0.49	0.08	0.03	0.03	0.19	29.606	26.37	25.65	13.42	41.1	35.15	26.96	16.48
61	0.47	0.49	0.1	0	0.03	0.2	29.605	26.36	25.64	13.44	41.08	28.75	27	16.43
62	0.46	0.49	0.08	0	0.04	0.19	29.608	26.38	25.64	13.4	41.07	29.3	26.98	16.45
63	0.49	0.51	0.1	0	0.01	0.2	29.565	26.38	25.64	13.4	41.08	28.6	27.02	16.48
64	0.47	0.5	0.07	-0.01	0.02	0.1	29.6	26.37	25.65	13.41	41.11	46.78	27.06	16.46
65	0.46	0.48	0.1	0.02	0.01	0.08	29.654	26.36	25.68	13.41	41.11	38.67	27.08	16.44

Count	Indoor Wetbulb	Outdoor Temp	Cond Exit Wetbulb	Outdoor Wetbulb	Cond Nozzle Temp	Evap Exit Wetbulb	EvapFan OutStatPres	EvapNoz DiffPres	EvapNoz StatPres	EvapBarPres	EvapDryInletTemp	EvapWetInletTemp	EvapNozzleTemp
	C	C	C	C	C	C	in/H2O	in/H2O	in/H2O	in/Hg	C	C	C
1	19.03	27.49	22.34	19.05	35.66	11.64	0.463	0.092	0.463	29.62	79.1	66.3	62.1
2	19.05	27.47	22.32	19.02	35.67	11.66	0.462	0.088	0.462	29.62	79.1	66.3	62.1
3	19.04	27.44	22.3	18.99	35.64	11.69	0.474	0.091	0.474	29.62	79.2	66.3	62.1
4	19.04	27.44	22.28	18.96	35.6	11.67	0.474	0.092	0.474	29.62	79.2	66.3	62.1
5	19.15	27.43	22.25	18.91	35.6	11.73	0.472	0.092	0.472	29.62	79.4	66.5	62.1
6	19.2	27.43	22.23	18.88	35.57	11.73	0.46	0.088	0.46	29.62	79.5	66.6	62
7	19.23	27.42	22.21	18.86	35.54	11.75	0.469	0.09	0.469	29.62	79.5	66.6	62
8	19.24	27.43	22.2	18.84	35.56	11.77	0.468	0.09	0.468	29.62	79.5	66.6	62
9	19.27	27.42	22.19	18.83	35.65	11.79	0.47	0.093	0.47	29.62	79.6	66.7	62
10	19.29	27.41	22.18	18.8	35.68	11.81	0.461	0.088	0.461	29.62	79.7	66.7	62
11	19.3	27.41	22.17	18.79	35.62	11.85	0.477	0.092	0.477	29.62	79.7	66.7	61.9
12	19.29	27.44	22.16	18.78	35.63	11.84	0.47	0.091	0.47	29.62	79.6	66.7	62
13	19.31	27.44	22.16	18.77	35.66	11.85	0.476	0.091	0.476	29.62	79.7	66.8	62
14	19.32	27.47	22.15	18.78	35.59	11.85	0.465	0.09	0.465	29.62	79.6	66.8	61.9
15	19.33	27.47	22.14	18.76	35.71	11.86	0.459	0.086	0.459	29.62	79.7	66.8	61.9
16	19.36	27.47	22.13	18.75	35.74	11.88	0.448	0.089	0.448	29.61	79.7	66.9	61.9
17	19.37	27.44	22.12	18.72	35.74	12	0.468	0.09	0.468	29.62	79.7	66.9	61.9
18	19.36	27.45	22.12	18.71	35.81	11.98	0.47	0.087	0.47	29.61	79.7	66.8	61.9
19	19.39	27.46	22.11	18.71	35.79	11.94	0.468	0.088	0.468	29.61	79.7	66.9	61.9
20	19.4	27.46	22.11	18.69	35.74	11.91	0.472	0.09	0.472	29.61	79.7	66.9	61.8
21	19.4	27.44	22.1	18.67	35.73	11.93	0.454	0.086	0.454	29.61	79.7	66.9	61.8
22	19.41	27.42	22.09	18.64	35.8	11.94	0.464	0.091	0.464	29.61	79.7	66.9	61.8
23	19.4	27.42	22.08	18.63	35.76	11.96	0.474	0.092	0.474	29.61	79.7	66.9	61.8
24	19.42	27.4	22.08	18.61	35.75	11.95	0.475	0.09	0.475	29.61	79.7	67	61.8
25	19.41	27.37	22.07	18.59	35.75	11.95	0.473	0.092	0.473	29.61	79.7	66.9	61.8
26	19.41	27.37	22.06	18.58	35.68	11.96	0.466	0.088	0.466	29.61	79.7	66.9	61.8
27	19.42	27.32	22.05	18.55	35.68	12.04	0.461	0.088	0.461	29.61	79.7	67	61.7
28	19.42	27.3	22.04	18.53	35.69	11.94	0.467	0.089	0.467	29.61	79.7	67	61.8
29	19.44	27.34	22.03	18.55	35.66	12.03	0.468	0.088	0.468	29.61	79.6	67	61.7
30	19.44	27.43	22.03	18.58	35.64	11.96	0.466	0.09	0.466	29.61	79.7	67	61.7
31	19.44	27.52	22.04	18.63	35.67	11.94	0.467	0.09	0.467	29.61	79.7	67	61.7
32	19.44	27.71	22.07	18.72	35.76	11.99	0.458	0.088	0.458	29.61	79.7	67	61.7
33	19.44	27.82	22.09	18.76	35.74	11.98	0.471	0.091	0.471	29.61	79.7	67	61.7
34	19.42	27.9	22.1	18.8	35.75	11.95	0.469	0.09	0.469	29.61	79.6	67	61.7
35	19.46	27.98	22.12	18.82	35.83	12	0.476	0.091	0.476	29.61	79.7	67	61.7
36	19.48	28	22.14	18.82	35.9	12.03	0.472	0.09	0.472	29.62	79.7	67.1	61.7
37	19.45	28.05	22.16	18.84	35.9	12.04	0.472	0.093	0.472	29.61	79.6	67	61.7
38	19.47	28.08	22.17	18.84	35.88	12.02	0.48	0.091	0.48	29.62	79.7	67	61.7
39	19.47	28.05	22.18	18.83	35.95	12.29	0.474	0.093	0.474	29.62	79.6	67	61.7
40	19.46	28.01	22.19	18.8	36.06	12.08	0.472	0.091	0.472	29.62	79.6	67	61.7
41	19.46	27.95	22.19	18.76	36.11	12.02	0.478	0.092	0.478	29.62	79.6	67	61.7
42	19.46	27.89	22.19	18.72	36.14	12	0.464	0.09	0.464	29.62	79.6	67	61.7
43	19.47	27.85	22.19	18.7	36.15	11.99	0.467	0.089	0.467	29.61	79.6	67	61.7
44	19.47	27.79	22.18	18.67	36.1	11.98	0.477	0.096	0.477	29.62	79.6	67	61.7
45	19.44	27.76	22.18	18.65	36.06	11.96	0.468	0.091	0.468	29.61	79.5	67	61.7
46	19.49	27.75	22.16	18.65	36.07	11.95	0.467	0.09	0.467	29.62	79.6	67.1	61.7
47	19.49	27.74	22.16	18.64	36.08	11.99	0.467	0.09	0.467	29.62	79.6	67.1	61.8
48	19.47	27.75	22.15	18.64	36.07	11.99	0.469	0.09	0.469	29.62	79.5	67	61.7
49	19.5	27.72	22.15	18.63	36.05	12	0.478	0.091	0.478	29.62	79.6	67.1	61.7
50	19.51	27.68	22.14	18.6	36.09	11.99	0.485	0.092	0.485	29.62	79.5	67.1	61.7
51	19.51	27.65	22.13	18.59	36.11	11.99	0.47	0.091	0.47	29.61	79.5	67.1	61.7
52	19.48	27.63	22.13	18.58	36.11	12.03	0.473	0.091	0.473	29.61	79.6	67.1	61.7
53	19.5	27.61	22.12	18.57	36.03	12.01	0.475	0.091	0.475	29.61	79.5	67.1	61.7
54	19.49	27.6	22.11	18.56	36	12.01	0.468	0.091	0.468	29.61	79.5	67.1	61.7
55	19.5	27.6	22.1	18.56	35.99	11.99	0.471	0.093	0.471	29.61	79.6	67.1	61.7
56	19.5	27.59	22.09	18.55	35.95	11.99	0.478	0.09	0.478	29.61	79.5	67.1	61.6
57	19.5	27.61	22.09	18.55	35.98	11.98	0.466	0.091	0.466	29.61	79.5	67.1	61.6
58	19.49	27.6	22.09	18.55	35.94	11.97	0.47	0.089	0.47	29.61	79.5	67.1	61.6
59	19.51	27.61	22.09	18.55	35.93	11.98	0.475	0.09	0.475	29.61	79.5	67.1	61.7
60	19.51	27.61	22.08	18.55	35.92	12	0.481	0.09	0.481	29.61	79.5	67.1	61.7
61	19.48	27.61	22.09	18.55	35.96	12.01	0.469	0.09	0.469	29.61	79.5	67.1	61.6
62	19.46	27.64	22.09	18.56	35.97	12	0.466	0.089	0.466	29.61	79.5	67	61.6
63	19.49	27.65	22.08	18.56	36.03	11.99	0.488	0.094	0.488	29.61	79.5	67.1	61.6
64	19.49	27.64	22.08	18.56	36.02	12.04	0.476	0.092	0.476	29.61	79.5	67.1	61.6
65	19.49	27.66	22.08	18.55	36.02	12.01	0.466	0.089	0.466	29.61	79.4	67.1	61.6

Count	EvapRhoInlet	EvapRho Outlet	EvapRho Nozzle	EvapCFM Nozzle	EvapCFM Outlet	EvapSCFMNozzle	CondFan OutStatPres	CondNoz DiffPres	CondNoz StatPres	CondBar Pres	CondDryInletTemp	CondWetInletTemp	CondNozzleTemp	CondRhoInlet	CondRho Outlet	CondRho Nozzle
	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	in/Hg	C	C	C	lb/ft^3	lb/ft^3	lb/ft^3
1	0.0724	0.07573	0.07483	418.7	413.7	418.7	0.003	0.159	0.011	29.62	81.5	66.3	96.2	0.07211	0.06906	0.07018
2	0.07241	0.07573	0.07483	411.1	406.2	411.1	0.008	0.155	0.016	29.62	81.4	66.2	96.2	0.07212	0.06906	0.07018
3	0.0724	0.07573	0.07484	416.8	412	416.8	0.009	0.157	0.018	29.62	81.4	66.2	96.2	0.07213	0.06907	0.07019
4	0.0724	0.07573	0.07485	418.5	413.6	418.5	0.008	0.154	0.016	29.62	81.4	66.1	96.1	0.07213	0.06908	0.0702
5	0.07236	0.0757	0.07484	419.4	414.6	419.4	0.012	0.15	0.02	29.62	81.4	66	96.1	0.07213	0.06907	0.0702
6	0.07234	0.07568	0.07484	410.5	405.9	410.5	0.007	0.152	0.014	29.62	81.4	66	96	0.07213	0.06907	0.07021
7	0.07234	0.07568	0.07483	414.6	410	414.6	0.01	0.154	0.019	29.62	81.4	66	96	0.07213	0.06906	0.07021
8	0.07234	0.07569	0.07484	415.7	411.1	415.7	0.009	0.149	0.015	29.62	81.4	65.9	96	0.07214	0.06907	0.07021
9	0.07233	0.07568	0.07484	420.8	416.2	420.8	0.01	0.145	0.016	29.62	81.4	65.9	96.2	0.07214	0.06906	0.07019
10	0.07232	0.07567	0.07484	410.7	406.2	410.7	0.009	0.154	0.017	29.62	81.3	65.8	96.2	0.07214	0.06907	0.07018
11	0.07231	0.07567	0.07485	419	414.4	419	0.003	0.156	0.01	29.62	81.3	65.8	96.1	0.07214	0.06907	0.07019
12	0.07232	0.07567	0.07484	416.7	412.1	416.7	0.012	0.153	0.022	29.62	81.4	65.8	96.1	0.07213	0.06906	0.0702
13	0.07232	0.07567	0.07484	417.8	413.2	417.8	0.007	0.155	0.016	29.62	81.4	65.8	96.2	0.07213	0.06906	0.07019
14	0.07232	0.07567	0.07484	414.1	409.6	414.1	0.003	0.156	0.013	29.62	81.4	65.8	96.1	0.07213	0.06905	0.07021
15	0.07231	0.07567	0.07485	406.3	401.9	406.3	0.007	0.157	0.017	29.62	81.4	65.8	96.3	0.07213	0.06906	0.07018
16	0.0723	0.07565	0.07483	412.7	408.2	412.7	0.008	0.153	0.017	29.61	81.4	65.7	96.3	0.07212	0.06905	0.07016
17	0.0723	0.07566	0.07485	414.6	410.2	414.6	0.004	0.153	0.013	29.62	81.4	65.7	96.3	0.07213	0.06906	0.07017
18	0.07231	0.07566	0.07485	407.8	403.3	407.8	0.005	0.158	0.039	29.61	81.4	65.7	96.5	0.07213	0.06905	0.07015
19	0.0723	0.07566	0.07484	409.4	405	409.4	0.011	0.15	0.019	29.61	81.4	65.7	96.4	0.07213	0.06905	0.07016
20	0.0723	0.07565	0.07484	416	411.5	416	0.005	0.153	0.014	29.61	81.4	65.6	96.3	0.07212	0.06904	0.07016
21	0.0723	0.07566	0.07484	405	400.6	405	0.008	0.152	0.02	29.61	81.4	65.6	96.3	0.07213	0.06905	0.07017
22	0.07229	0.07566	0.07485	416.4	411.9	416.4	0.004	0.155	0.017	29.61	81.4	65.6	96.4	0.07213	0.06905	0.07015
23	0.07229	0.07565	0.07485	419.2	414.7	419.2	0.006	0.151	0.015	29.61	81.4	65.5	96.4	0.07213	0.06905	0.07016
24	0.0723	0.07566	0.07486	416.1	411.7	416.1	0.007	0.157	0.015	29.61	81.3	65.5	96.3	0.07215	0.06905	0.07017
25	0.07228	0.07566	0.07485	418.7	414.3	418.7	0.012	0.154	0.022	29.61	81.3	65.5	96.4	0.07214	0.06905	0.07016
26	0.0723	0.07567	0.07485	410.3	405.9	410.3	0.005	0.155	0.014	29.61	81.3	65.4	96.2	0.07215	0.06906	0.07018
27	0.07229	0.07565	0.07485	411.4	407	411.4	0.002	0.158	0.011	29.61	81.2	65.4	96.2	0.07216	0.06906	0.07018
28	0.07229	0.07566	0.07485	413.4	408.9	413.4	0.004	0.153	0.013	29.61	81.1	65.4	96.2	0.07216	0.06907	0.07018
29	0.0723	0.07566	0.07486	410.5	406.1	410.5	0.009	0.152	0.02	29.61	81.2	65.4	96.2	0.07215	0.06907	0.07019
30	0.07229	0.07566	0.07487	414.8	410.4	414.8	0.014	0.151	0.022	29.61	81.4	65.5	96.2	0.07214	0.06906	0.0702
31	0.07229	0.07566	0.07486	413.9	409.5	413.9	0.012	0.149	0.021	29.61	81.5	65.5	96.2	0.07211	0.06905	0.07018
32	0.0723	0.07566	0.07486	410.3	406	410.3	0.001	0.152	0.011	29.61	81.9	65.7	96.4	0.07207	0.06902	0.07016
33	0.07229	0.07566	0.07486	417.1	412.7	417.1	0.002	0.16	0.013	29.61	82.1	65.8	96.3	0.07204	0.06899	0.07016
34	0.0723	0.07566	0.07486	415	410.6	415	0.005	0.16	0.014	29.61	82.2	65.8	96.4	0.07202	0.06898	0.07016
35	0.0723	0.07566	0.07486	417.1	412.6	417.1	0.007	0.156	0.016	29.61	82.4	65.9	96.5	0.072	0.06897	0.07015
36	0.0723	0.07566	0.07487	415.8	411.5	415.8	0.011	0.153	0.022	29.62	82.4	65.9	96.6	0.072	0.06896	0.07014
37	0.0723	0.07566	0.07486	422.4	417.9	422.4	0.008	0.155	0.017	29.61	82.5	65.9	96.6	0.07198	0.06894	0.07013
38	0.0723	0.07567	0.07487	416.9	412.5	416.9	0.014	0.15	0.024	29.62	82.5	65.9	96.6	0.07199	0.06894	0.07015
39	0.07231	0.07567	0.07487	421.2	416.7	421.2	0.008	0.155	0.018	29.62	82.5	65.9	96.7	0.07199	0.06893	0.07013
40	0.07232	0.07569	0.07487	416.3	411.8	416.3	0.006	0.158	0.016	29.62	82.4	65.8	96.9	0.072	0.06894	0.0701
41	0.07231	0.0757	0.07487	419.7	415.1	419.7	0.005	0.155	0.013	29.62	82.3	65.8	97	0.07202	0.06894	0.07009
42	0.07231	0.07571	0.07486	414.2	409.6	414.2	0.011	0.152	0.019	29.62	82.2	65.7	97.1	0.07203	0.06895	0.07009
43	0.07231	0.07571	0.07486	411.6	407	411.6	0.01	0.157	0.018	29.61	82.1	65.7	97.1	0.07204	0.06895	0.07008
44	0.07231	0.07571	0.07487	428.3	423.5	428.3	0.009	0.156	0.024	29.62	82	65.6	97	0.07206	0.06896	0.0701
45	0.07232	0.07573	0.07486	416.2	411.4	416.2	0.007	0.157	0.017	29.61	82	65.6	96.9	0.07206	0.06897	0.0701
46	0.07231	0.07571	0.07486	416	411.3	416	0.008	0.152	0.017	29.62	82	65.6	96.9	0.07207	0.06897	0.0701
47	0.07232	0.07571	0.07485	414.4	409.7	414.4	0.008	0.15	0.018	29.62	81.9	65.6	96.9	0.07207	0.06898	0.0701
48	0.07232	0.0757	0.07487	416	411.4	416	0.005	0.15	0.013	29.62	81.9	65.6	96.9	0.07207	0.06898	0.07011
49	0.07231	0.07571	0.07486	418.1	413.4	418.1	0.005	0.155	0.013	29.62	81.9	65.5	96.9	0.07208	0.06898	0.07011
50	0.07232	0.0757	0.07486	420.4	415.8	420.4	0.001	0.159	0.01	29.62	81.8	65.5	97	0.07208	0.06898	0.0701
51	0.07231	0.07569	0.07485	418.4	413.8	418.4	0.003	0.156	0.011	29.61	81.8	65.5	97	0.07209	0.06898	0.07009
52	0.07231	0.07569	0.07485	417.3	412.7	417.3	0.008	0.153	0.016	29.61	81.7	65.4	97	0.07209	0.069	0.07009
53	0.07231	0.07568	0.07485	416.1	411.6	416.1	0.007	0.154	0.017	29.61	81.7	65.4	96.9	0.0721	0.069	0.07011
54	0.07232	0.07567	0.07486	418.1	413.6	418.1	0.007	0.159	0.016	29.61	81.7	65.4	96.8	0.0721	0.069	0.07012
55	0.0723	0.07568	0.07486	422	417.4	422	0.011	0.154	0.019	29.61	81.7	65.4	96.8	0.0721	0.069	0.07012
56	0.07232	0.07568	0.07487	415.7	411.3	415.7	0.009	0.156	0.019	29.61	81.7	65.4	96.7	0.07211	0.06901	0.07013
57	0.07231	0.07568	0.07486	418	413.5	418	0.012	0.154	0.022	29.61	81.7	65.4	96.8	0.07209	0.069	0.07012
58	0.07232	0.07567	0.07486	413.5	409.1	413.5	0.01	0.153	0.018	29.61	81.7	65.4	96.7	0.0721	0.06901	0.07013
59	0.07231	0.07567	0.07486	415.9	411.4	415.9	0.006	0.155	0.015	29.61	81.7	65.4	96.7	0.07209	0.069	0.07013
60	0.07232	0.07568	0.07486	414.5	410	414.5	0.007	0.152	0.016	29.61	81.7	65.4	96.7	0.0721	0.06901	0.07013
61	0.07232	0.07567	0.07487	414.8	410.4	414.8	0.009	0.155	0.019	29.61	81.7	65.4	96.7	0.07209	0.069	0.07012
62	0.07232	0.07568	0.07487	412.3	407.9	412.3	0.01	0.153	0.02	29.61	81.7	65.4	96.8	0.07209	0.06901	0.07012
63	0.07231	0.07567	0.07486	424.5	419.9	424.5	0.015	0.154	0.026	29.61	81.8	65.4	96.9	0.07208	0.069	0.0701
64	0.07231	0.07567	0.07486	420.1	415.6	420.1	0.008	0.153	0.017	29.61	81.8	65.4	96.8	0.07208	0.06899	0.0701
65	0.07232	0.07567	0.07487	412.4	408	412.4	0.008	0.155	0.017	29.61	81.8	65.4	96.8	0.07208	0.069	0.07011

Table 32: Data from B-DM continued.

Count	CondCFMNozzle	CondCFMOutlet	CondSCFMNozzle	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Cond Nozzle Temp	Cond Coil Temp	Evap Coil Temp	Cond Airflow at Nozzle	Cond Airflow Standard	Barometric	IndoorDB	IndoorWB	EvapExit DB	EvapExit WB	OutdoorDB	Outdoor WB
	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	C	C	C	CFM	SCFM	in Hg	C	C	C	C	C	C
1	1087.7	1105.3	1087.7	0.010987	0.01954	0.155951	35.66056	0.465776	28.78685	1078.519	1009.195	29.61947	26.18093	19.03522	13.354	11.64004	27.49178	19.05491
2	1076	1093.4	1076	0.009542	0.017044	0.151119	35.66316	0.468555	29.25654	1061.491	993.2575	29.61878	26.18452	19.05301	13.38532	11.66152	27.46555	19.01942
3	1083.2	1100.7	1083.2	0.010152	0.017104	0.153082	35.64211	0.478331	28.4553	1068.4	999.802	29.61875	26.18983	19.04072	13.39873	11.6729	27.44359	18.98971
4	1070.9	1088.4	1070.9	0.006702	0.014542	0.157124	35.60681	0.468075	44.80267	1082.458	1013.177	29.62154	26.21871	19.04483	13.39627	11.67172	27.44195	18.95998
5	1057.6	1074.9	1057.6	0.004753	0.01082	0.155169	35.59705	0.466341	55.43184	1075.61	1006.793	29.62038	26.33981	19.15329	13.46153	11.72444	27.43104	18.90713
6	1064	1081.5	1064	0.001756	0.011459	0.160374	35.57135	0.470375	47.43411	1093.689	1023.735	29.61832	26.41091	19.20312	13.52164	11.73476	27.42447	18.88424
7	1069.8	1087.6	1069.8	0.010502	0.018651	0.15106	35.54103	0.465253	36.24386	1061.035	993.3042	29.61777	26.40714	19.22515	13.51619	11.75315	27.41871	18.86259
8	1053.2	1070.6	1053.2	0.007802	0.016939	0.153995	35.55762	0.46551	41.3739	1071.466	1002.96	29.61602	26.40064	19.23792	13.49122	11.76781	27.42371	18.84429
9	1038.1	1055.1	1038.1	0.009766	0.01671	0.152027	35.64599	0.465489	37.80387	1064.648	996.3138	29.61617	26.45037	19.26355	13.52211	11.78485	27.42013	18.82805
10	1070	1087.3	1070	0.004821	0.013057	0.153571	35.68098	0.46697	42.32378	1070.101	1001.444	29.62023	26.49197	19.28722	13.53893	11.81024	27.41083	18.80559
11	1077.8	1095.3	1077.8	0.008629	0.017774	0.151105	35.62305	0.467636	29.28867	1061.254	993.3897	29.62046	26.50407	19.30217	13.53994	11.85441	27.41011	18.78914
12	1067.2	1084.8	1067.2	0.006197	0.014527	0.155476	35.62474	0.467518	29.01483	1076.748	1007.746	29.61659	26.46882	19.29086	13.53038	11.8411	27.43403	18.78273
13	1075.2	1092.8	1075.2	0.005033	0.014686	0.148285	35.65218	0.473083	66.55163	1051.273	983.8759	29.61755	26.47807	19.30464	13.55357	11.85351	27.43995	18.77298
14	1077.2	1095.1	1077.2	0.010329	0.019861	0.150958	35.58979	0.465224	46.25988	1060.746	992.8885	29.61561	26.46646	19.32187	13.5402	11.85125	27.472	18.77597
15	1083.8	1101.4	1083.8	0.004521	0.013433	0.153823	35.70517	0.460206	30.07045	1071.081	1002.176	29.61554	26.47298	19.33246	13.5278	11.86071	27.46956	18.75757
16	1067.2	1084.4	1067.2	0.011686	0.020903	0.152751	35.74016	0.461207	31.32192	1067.341	998.6028	29.61582	26.52103	19.36205	13.55369	11.88238	27.47066	18.74684
17	1068.9	1086.1	1068.9	0.00984	0.017148	0.15126	35.74252	0.461017	42.89368	1062.045	993.6747	29.61653	26.51359	19.36589	13.5431	11.99142	27.43814	18.71575
18	1085.1	1102.5	1085.1	0.007534	0.041885	0.155845	35.80992	0.470873	28.06094	1078.324	1008.674	29.61452	26.47605	19.35862	13.53234	11.95919	27.45175	18.71127
19	1057.8	1074.8	1057.8	0.01452	0.022135	0.152491	35.78918	0.474356	35.21421	1066.554	997.6114	29.61207	26.49105	19.38821	13.51797	11.93225	27.46464	18.71056
20	1068.8	1086.2	1068.8	0.008265	0.01635	0.150895	35.73457	0.463761	39.24396	1060.769	992.4402	29.61386	26.48849	19.39864	13.54564	11.90605	27.45878	18.69087
21	1064.7	1082.1	1064.7	0.011713	0.024514	0.147826	35.7212	0.456722	28.81658	1049.747	982.2282	29.61433	26.51364	19.39827	13.50607	11.93925	27.44455	18.66716
22	1076	1093.2	1076	0.009534	0.021718	0.154306	35.8011	0.469237	34.1043	1072.968	1003.585	29.6113	26.50055	19.40965	13.50524	11.92633	27.41849	18.63832
23	1059.7	1076.9	1059.7	0.011755	0.020299	0.152132	35.75807	0.466739	31.68199	1065.191	996.5166	29.61305	26.5043	19.3961	13.54128	11.94053	27.42436	18.63318
24	1080.8	1098.3	1080.8	0.00758	0.01622	0.15107	35.75206	0.46601	34.60188	1061.421	992.9799	29.61212	26.50298	19.41979	13.51551	11.98225	27.39632	18.61114
25	1072	1089.3	1072	0.009254	0.017113	0.155139	35.75139	0.476775	29.03897	1075.785	1006.431	29.6123	26.50169	19.41202	13.48961	11.97704	27.36614	18.58574
26	1074.5	1092	1074.5	0.0156	0.023475	0.148198	35.68157	0.468836	30.97898	1051.022	983.5271	29.61242	26.47279	19.41192	13.49442	11.95103	27.37167	18.5825
27	1084.9	1102.5	1084.9	0.004047	0.014999	0.157634	35.67773	0.464467	57.48075	1084.351	1014.728	29.61327	26.50395	19.42098	13.47585	12.02921	27.32262	18.54723
28	1068.4	1085.5	1068.4	0.009692	0.020624	0.152125	35.68493	0.460457	29.79846	1065.052	996.6026	29.61099	26.51719	19.42077	13.49004	11.94051	27.30283	18.53136
29	1063.2	1080.4	1063.2	0.001315	0.0115	0.154832	35.65624	0.469274	38.95081	1074.51	1005.612	29.61386	26.46615	19.4354	13.48548	12.00579	27.34315	18.54715
30	1060.7	1078.1	1060.7	0.007349	0.018064	0.157559	35.6437	0.478321	54.13637	1084.039	1014.521	29.61233	26.50356	19.43609	13.50306	11.95917	27.4239	18.58209
31	1054.2	1071.6	1054.2	0.006947	0.016386	0.156372	35.67042	0.465424	50.16501	1079.889	1010.656	29.61587	26.53372	19.43794	13.49395	11.94362	27.51745	18.63095
32	1065	1082.8	1065	0.007366	0.016961	0.158224	35.76021	0.469296	36.95979	1086.551	1016.486	29.61339	26.51064	19.44396	13.50335	11.99273	27.70897	18.71774
33	1092.7	1111.2	1092.7	0.013351	0.022916	0.153426	35.74572	0.471595	31.67689	1069.728	1000.812	29.61333	26.49872	19.43994	13.5072	11.97882	27.81404	18.76252
34	1091.5	1110.2	1091.5	0.010485	0.019524	0.155386	35.75312	0.470606	39.48036	1076.647	1007.238	29.61318	26.46803	19.41961	13.48528	11.94726	27.89967	18.79552
35	1077.7	1096.1	1077.7	0.006739	0.017642	0.154686	35.83155	0.4707	32.13774	1074.278	1004.857	29.61588	26.49814	19.45715	13.5057	11.99315	27.97213	18.81741
36	1069.1	1087.4	1069.1	0.005901	0.018338	0.150275	35.90561	0.468883	77.51764	1058.793	990.1403	29.61562	26.47392	19.48435	13.50181	12.04263	27.9948	18.8233
37	1074.2	1092.7	1074.2	0.009406	0.020021	0.148993	35.9057	0.472245	45.22057	1054.216	985.8516	29.61511	26.46926	19.45083	13.51322	12.04253	28.05053	18.83832
38	1059.2	1077.8	1059.2	0.004034	0.013308	0.156549	35.87977	0.4729	33.8894	1080.931	1010.816	29.61314	26.48003	19.47142	13.48599	12.02797	28.07752	18.84617
39	1075.1	1093.8	1075.1	0.010612	0.018236	0.156268	35.94638	0.477864	28.77207	1080.039	1009.824	29.6143	26.46633	19.47154	13.48281	12.12897	28.04728	18.82732
40	1086.2	1104.6	1086.2	0.007945	0.020127	0.152993	36.05223	0.467796	28.99243	1068.711	998.8819	29.61327	26.40972	19.45572	13.4215	12.07132	28.01212	18.79922
41	1077.2	1095.2	1077.2	0.004636	0.014384	0.161717	36.10542	0.469888	37.21396	1099.16	1027.226	29.61568	26.44836	19.45746	13.39691	12.01957	27.95158	18.76342
42	1065.2	1082.7	1065.2	0.004654	0.013106	0.155666	36.1409	0.46423	74.499	1078.251	1007.533	29.61378	26.42314	19.46138	13.31744	11.99964	27.89154	18.72263
43	1083.9	1101.7	1083.9	0.003191	0.01357	0.152606	36.15537	0.468867	28.69653	1067.474	997.4731	29.61498	26.42488	19.47173	13.30656	11.99121	27.85261	18.70025
44	1078.1	1095.9	1078.1	0.015067	0.030773	0.152282	36.09702	0.470757	37.76605	1066.21	996.5162	29.61453	26.43031	19.47131	13.32898	11.98614	27.79625	18.67214
45	1082.5	1100.3	1082.5	0.008168	0.017074	0.158535	36.0674	0.466654	57.66709	1088.076	1017.058	29.61601	26.39065	19.4419	13.25561	11.96049	27.76606	18.65411
46	1065.2	1082.7	1065.2	0.001842	0.011412	0.158033	36.06765	0.468177	28.33325	1086.337	1015.412	29.61574	26.42595	19.48494	13.29074	11.95138	27.75128	18.64543
47	1057.4	1074.7	1057.4	0.007907	0.016127	0.15698	36.083	0.470073	30.19638	1082.674	1011.977	29.61648	26.42749	19.49227	13.33183	11.98303	27.73898	18.64273
48	1056.5	1073.8	1056.5	0.009982	0.020382	0.153043	36.06639	0.474459	31.8589	1068.836	999.0992	29.61589	26.40406	19.47165	13.35774	12.00923	27.74619	18.64173
49	1074.2	1091.7	1074.2	0.007883	0.016286	0.156042	36.04454	0.468788	59.49572	1079.382	1008.949	29.61404	26.43005	19.49377	13.36284	11.99696	27.71821	18.63007
50	1089.8	1107.5	1089.8	0.007007	0.015475	0.15475	36.08645	0.469288	33.85727	1074.909	1004.654	29.61437	26.4181	19.50766	13.35821	11.99533	27.67746	18.60354
51	1078.2	1095.5	1078.2	0.009637	0.019795	0.155557	36.10897	0.456187	44.54879	1077.802	1007.246	29.61278	26.41206	19.50989	13.39492	11.9913	27.65052	18.58684
52	1070.3	1087.2	1070.3	0.011873	0.019896	0.154281	36.11164	0.47473	31.53825	1073.267	1003.116	29.61605	26.43557	19.48475	13.388	12.0332	27.62587	18.57604
53	1072.2	1089.5	1072.2	0.005689	0.015449	0.150871	36.03438	0.470861	31.9172	1061.151	991.8906	29.61166	26.4311	19.49693	13.41622	12.01098	27.61239	18.5698
54	1088.2	1105.8	1088.2	0.005891	0.016866	0.159081	36.00044	0.467024	28.24377	1089.908	1018.896	29.61238	26.37345	19.49315	13.39576	12.00112	27.5985	18.55695
55	1072.3	1089.6	1072.3	0.008025	0.016262	0.154479	35.98986	0.465362	31.2691	1073.807	1003.925	29.6134	26.39817	19.49514	13.40608	11.99403	27.60184	18.55623
56	1078.9	1096.5	1078.9	0.007372	0.016429	0.154339	35.9553	0.467919	29.06397	1073.257	1003.52	29.6132	26.3757	19.50545	13.385	11.98828	27.59174	18.55006
57	1072.2	1089.6	1072.2	0.009146	0.017355	0.153186	35.98316	0.464568	32.11998	1069.249	999.6695	29.61262	26.37529	19.49372	13.37895	11.97711	27.60738	18.55238
58	1067.7	1085.1	1067.7	0.008255	0.017367	0.15352	35.93769	0.46561	36.89023	1070.388	1000.812	29.61061	26.39895	19.49403	13.40858	11.97111	27.60327	18.55169
59	1075.5	1093	1075.5	0.013461	0.022901	0.154296	35.92914	0.469048	29.45998	1073.044	1003.44	29.61356	26.39407	19.50757	13.40066	11.96929	27.6043	18.54646
60	1066.3	1083.8	1066.3	0.008259	0.017415	0.153305	35.92306	0.469176	40.07443	1069.566	1000.165	29.61268	26.36335	19.50781	13.42399	11.99962	27.60824	18.55029
61	1074.5	1091.9	1074.5	0.007741	0.015909	0.157291	35.96069	0.458527	37.12237	1083.63	1013.141	29.6115	26.40027	19.48108	13.40938	12.01834	27.6099	18.54732
62	1068.3	1085.5	1068.3	0.005652	0.014167	0.152387	35.9736	0.463305	29.20874	1066.437	997.014	29.61093	26.36182	19.46048	13.37777	11.99628	27.63715	18.55423
63	1073	1090.1	1073	0.007569	0.018191	0.159116	36.03365	0.472776	41.9579	1090.112	1018.919	29.61027	26.38418	19.48512	13.39612	11.99323	27.64832	18.5599
64	1067.1	1084.2	1067.1	0.010873	0.019547	0.153484	36.02595	0.47598	29.02403	1070.418	1000.536	29.6097	26.36033	19.496	13.40491	12.05236	27.64191	18.55573
65	1075.1	1092.5	1075.1	0.002252	0.011082	0.153389	36.01936	0.459804	28.65561	1070.029	1000.276	29.61261	26.36468	19.48774	13.40203	12.01819	27.65515	18.55489

Count	EvapStat Pres	Chamber DischargePres	EvapDiffPres	EvapNozzTemp	Airflow at Nozzle	Standard Air Flow	CondVoltage	CondPower	Cond Exit Dry-bulb	Cond Exit Wet-bulb	EvapOut DrybulbRef	Cooling Capacity	Total Cooling Capacity	Sensible Cooling Capacity	Latent Cooling Capacity	Duct Loss Correction	Total Cooling Capacity Cond Side	Corrected Total Cooling Capacity	Corrected Sensible Cooling Capacity	Sensible Cooling Capacity Cond Side
	in/H2O	in/H2O	in/H2O	C	CFM	SCFM	V	kW	C	C	C	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr
1	0.484745	0.465776	0.090559	16.721	416.3208	415.4099	220.377	2.09222	40.75548	22.34161	-67703.5	16624.28	16565.09	10555.03	6010.068	59.2	14382.2	16624.28	10614.21	19003.59
2	0.488164	0.468555	0.090244	16.76234	415.6221	414.6415	220.2137	2.091332	40.79362	22.32372	-67698.4	16769.2	16710.5	10647.12	6063.375	58.7	14714.9	16769.2	10705.82	19430.03
3	0.49767	0.478331	0.089861	16.73863	414.7049	413.7749	219.9619	2.092868	40.75852	22.30223	-67693.1	16765.04	16706.55	10649.32	6057.229	58.5	14207.1	16765.04	10707.81	18810.44
4	0.487179	0.468075	0.090425	16.71807	415.9914	415.1179	220.3709	2.088515	40.77324	22.27966	-67687.9	16835.15	16776.72	10689.07	6087.658	58.4	14641.7	16835.15	10747.49	19272.25
5	0.485517	0.466341	0.090478	16.70021	416.1214	415.232	220.6109	2.09011	40.77984	22.24598	-67677.9	16787.54	16730.26	10594.01	6136.251	57.3	14445.1	16787.54	10651.29	18932.51
6	0.48917	0.470375	0.091389	16.66436	418.227	417.3498	220.5458	2.091951	40.76343	22.23042	-67673	17113.92	17057.1	10760.73	6296.374	56.8	14405.3	17113.92	10817.54	18876.36
7	0.485592	0.465253	0.090147	16.67882	415.363	414.4517	220.5107	2.090995	40.76065	22.21579	-67668.5	16944.93	16888.12	10645.63	6242.489	56.8	14519.4	16944.93	10702.44	18960.27
8	0.485704	0.46551	0.089872	16.69144	414.7439	413.7868	220.3296	2.091675	40.77927	22.20424	-67663.6	17125.61	17068.75	10759.91	6308.846	56.9	14858.2	17125.61	10816.77	19391.13
9	0.48508	0.465489	0.090689	16.67751	416.6388	415.6953	220.2537	2.092877	40.80608	22.19445	-67659.1	17095.13	17038.64	10742.68	6295.957	56.5	14581.7	17095.13	10799.18	19088.4
10	0.486543	0.46697	0.089511	16.65485	413.8473	412.9988	220.3921	2.088506	40.79112	22.18075	-67654.8	17046.14	16989.87	10721.23	6268.641	56.3	14816.8	17046.14	10777.5	19284.28
11	0.487671	0.467636	0.089173	16.64854	413.0501	412.2127	220.3988	2.093803	40.79817	22.17028	-67650.1	17049.53	16993.46	10739.53	6253.923	56.1	14796.1	17049.53	10795.61	19215.73
12	0.487933	0.467518	0.091172	16.6404	417.7349	416.8428	220.3677	2.088472	40.81097	22.16214	-67645.5	16949.8	16893.3	10668.8	6224.502	56.5	14835.7	16949.8	10725.3	19321.24
13	0.491265	0.473083	0.090904	16.64553	417.1081	416.2259	220.6296	2.09444	40.81643	22.15633	-67640.5	16910.81	16854.17	10651.18	6202.988	56.6	14993.2	16910.81	10707.82	19458.99
14	0.484031	0.465224	0.088226	16.63971	410.859	409.959	220.5745	2.097189	40.83898	22.14589	-67635.8	16941.91	16885.03	10646.7	6238.329	56.9	14844.6	16941.91	10703.58	19353.84
15	0.479772	0.460206	0.089591	16.62282	414.0546	413.1615	220.4692	2.095188	40.83585	22.14162	-67630.8	17010.59	16953.88	10688.36	6265.512	56.7	15187.2	17010.59	10745.08	19704.13
16	0.479644	0.461207	0.090806	16.60995	416.8817	415.9999	220.5617	2.094263	40.83986	22.1321	-67626	17065.78	17009.28	10733.46	6275.814	56.5	14809.5	17065.78	10789.96	19232.85
17	0.480902	0.461017	0.088251	16.57565	410.8735	410.0631	220.5195	2.09736	40.82516	22.12293	-67621.6	16897.07	16840.68	10722.82	6117.864	56.4	14920.1	16897.07	10779.2	19286.04
18	0.492839	0.470873	0.086548	16.59064	406.8614	406.0203	220.6872	2.095739	40.83184	22.11764	-67617.4	16845.19	16788.42	10704.05	6084.369	56.8	14604.5	16845.19	10760.82	18898.12
19	0.494369	0.474356	0.092842	16.57896	421.5848	420.6839	220.5303	2.099381	40.84934	22.11026	-67613.2	17377.35	17320.72	10925.09	6395.636	56.6	15092.5	17377.35	10981.71	19526.04
20	0.483992	0.463761	0.089712	16.58489	414.3338	413.4537	220.2731	2.099147	40.88526	22.1106	-67609	17223.18	17166.54	10781.2	6385.342	56.6	15288.8	17223.18	10837.84	19667.13
21	0.476377	0.456722	0.089715	16.56737	414.3248	413.4718	220.2997	2.099255	40.87646	22.10365	-67600.5	17279.33	17222.92	10895.35	6327.572	56.4	14978.8	17279.33	10951.76	19178.21
22	0.489734	0.469237	0.092379	16.57395	420.5319	419.6183	220.1491	2.098902	40.86657	22.09366	-67596.1	17088.31	17032.09	10751.52	6280.567	56.2	15335.9	17088.31	10807.75	19511.94
23	0.486049	0.466739	0.091257	16.54984	417.9092	417.0645	220.2531	2.099305	40.86614	22.08371	-67591.9	17223.15	17166.81	10831.07	6335.742	56.3	15213	17223.15	10887.41	19405.37
24	0.485911	0.46601	0.087728	16.54748	409.6568	408.8141	220.4865	2.097691	40.87922	22.08029	-67587.8	17354.03	17298.05	10883.15	6414.908	56	15505.6	17354.03	10939.12	19663.71
25	0.495218	0.476775	0.092274	16.51639	420.2399	419.4319	220.4518	2.096373	40.85024	22.07175	-67584	16989.09	16933.15	10700.4	6232.75	55.9	15438.6	16989.09	10756.34	19516.13
26	0.48907	0.468836	0.090705	16.52262	416.6147	415.7968	220.2788	2.097902	40.82928	22.06371	-67580.1	17097.43	17041.23	10738.69	6302.541	56.2	15652	17097.43	10794.89	19797.48
27	0.483645	0.464467	0.089126	16.52156	412.9241	412.1244	220.1845	2.094879	40.79191	22.05086	-67576.5	16912.59	16857.03	10759.91	6097.117	55.6	15736.9	16912.59	10815.47	19735.24
28	0.480015	0.460457	0.088109	16.52373	410.5497	409.7182	220.1515	2.09389	40.77282	22.03683	-67572.6	17297.75	17242.49	10885.08	6357.412	55.3	15604.3	17297.75	10940.34	19600.13
29	0.488772	0.469274	0.090867	16.50271	416.9726	416.1948	220.3102	2.095817	40.77123	22.03197	-67568.7	16901.19	16845.36	10675.31	6170.05	55.8	15288.1	16901.19	10731.13	19275.11
30	0.498477	0.478321	0.090543	16.48815	416.2143	415.4505	220.5167	2.099846	40.81188	22.03361	-67565	17262.41	17205.94	10845.48	6360.463	56.5	15104.2	17262.41	10901.94	19193.82
31	0.485256	0.465424	0.090229	16.4959	415.4699	414.7359	220.4629	2.103108	40.84544	22.04147	-67560.8	17059.38	17002.18	10727.69	6274.485	57.2	14877.8	17059.38	10784.89	19150.13
32	0.48919	0.469296	0.090513	16.48091	416.1361	415.3866	220.5611	2.108904	40.99929	22.06865	-67553	16981.2	16922.44	10746.71	6175.728	58.8	14883	16981.2	10805.47	19452.98
33	0.491374	0.471595	0.088336	16.5029	411.0522	410.2846	220.5341	2.112815	41.09005	22.08552	-67549	17244.47	17184.79	10826.01	6358.774	59.7	14347	17244.47	10885.7	19071.39
34	0.489895	0.470606	0.090176	16.48664	415.3547	414.6009	220.3712	2.116006	41.17935	22.10145	-67545.3	16647.89	16587.29	10447.54	6139.753	60.6	14265.7	16647.89	10508.13	19067.94
35	0.4904	0.4707	0.090723	16.49038	416.6177	415.8845	220.6484	2.118815	41.23809	22.12253	-67541.5	16950.37	16889.17	10652.29	6236.881	61.2	14255.2	16950.37	10713.49	18991.33
36	0.488444	0.468883	0.090962	16.47999	417.174	416.4373	220.7627	2.123295	41.32295	22.13794	-67537.8	16973.1	16911.78	10641.05	6270.733	61.3	14318.2	16973.1	10702.36	19067.87
37	0.492509	0.472245	0.090201	16.48193	415.4	414.6714	222.0018	2.128147	41.35066	22.1536	-67534.1	17046.29	16984.3	10746.18	6238.124	62	14578.7	17046.29	10808.16	19314.87
38	0.491609	0.4729	0.091954	16.49276	419.4932	418.7068	221.9862	2.12953	41.40084	22.17064	-67531	17107.43	17045.17	10753.71	6291.464	62.3	14272.2	17107.43	10815.96	18871.45
39	0.497139	0.477864	0.089018	16.47256	412.6306	411.9087	222.0495	2.129967	41.41951	22.18276	-67527.9	16815.5	16753.36	10819.82	5933.537	62.1	14807	16815.5	10881.97	19387.03
40	0.48738	0.467796	0.089938	16.52367	414.8359	414.0106	222.0677	2.130785	41.42774	22.18994	-67525	16949.06	16887.03	10743.36	6143.667	62	14532.4	16949.06	10805.39	18864.31
41	0.489666	0.469888	0.091656	16.49164	418.7869	418.0381	222.0705	2.12789	41.382	22.19173	-67522.6	17394.66	17333.06	11020.23	6312.833	61.6	14998.6	17394.66	11081.82	19248.6
42	0.484441	0.46423	0.087913	16.49486	410.0586	409.2886	222.2753	2.127295	41.37721	22.18716	-67519.9	17019.52	16958.16	10784.71	6173.449	61.4	15890.4	17019.52	10846.08	20138.64
43	0.488526	0.468867	0.08929	16.48755	413.2843	412.5355	222.1076	2.123661	41.34145	22.18575	-67517.4	17241.15	17179.96	10905.51	6274.457	61.2	15361.6	17241.15	10966.69	19332.88
44	0.489853	0.470757	0.094829	16.4738	426.0621	425.3007	221.9648	2.121463	41.30573	22.18166	-67515	17635.77	17575.11	11144.64	6430.47	60.7	15469.5	17635.77	11205.3	19369.28
45	0.485727	0.466654	0.089371	16.48681	413.4639	412.7343	221.5571	2.119408	41.26268	22.17686	-67512.4	17077.03	17016.3	10833.79	6182.506	60.7	15329.3	17077.03	10894.53	19052.8
46	0.487947	0.468177	0.089681	16.49259	414.1996	413.4473	221.6854	2.11869	41.23783	22.16604	-67510	17308.44	17248	10883.96	6364.034	60.4	15634.8	17308.44	10944.4	19411.71
47	0.48885	0.470073	0.091798	16.50626	419.1256	418.3526	221.8765	2.120063	41.24927	22.15852	-67507.3	17244.44	17184.44	10841.61	6342.828	60	15797.3	17244.44	10901.61	19724.39
48	0.494299	0.474459	0.088593	16.49837	411.6454	410.9013	221.6434	2.119675	41.22058	22.15386	-67504.6	17110.03	17049.87	10796.78	6253.088	60.2	15501.1	17110.03	10856.94	19288.22
49	0.487745	0.468788	0.091033	16.51141	417.3752	416.5626	222.1594	2.116721	41.23337	22.14612	-67502	17308.71	17248.98	10872.45	6376.532	59.7	15338	17308.71	10932.18	19186.3
50	0.488041	0.469288	0.093023	16.51502	421.9714	421.1419	222.0485	2.117147	41.18842	22.14309	-67499.5	17306.33	17246.82	10817.34	6429.479	59.5	16089.2	17306.33	10876.85	19948.66
51	0.474787	0.456187	0.087163	16.51253	408.3107	407.4807	222.1196	2.113516	41.20835	22.13342	-67497	17331.53	17272.3	10868.01	6404.285	59.2	15878.5	17331.53	10927.25	19709.05
52	0.494705	0.47473	0.090902	16.49438	417.0408	416.2917	221.9181	2.114278	41.15801	22.12647	-67494.3	17192.3	17133.35	10850.53	6282.82	59	15388.7	17192.3	10909.48	19042.47
53	0.489034	0.470861	0.092915	16.49833	421.7263	420.8894	221.8696	2.112841	41.12327	22.11512	-67491.6	17308.6	17249.98	10900	6349.984	58.6	16018.7	17308.6	10958.62	19783.78
54	0.485174	0.467024	0.091567	16.46888	418.5984	417.813	222.0311	2.112558	41.09415	22.10795	-67488.9	17149.6	17090.7	10717.04	6373.657	58.9	15982.5	17149.6	10775.95	19686.67
55	0.485891	0.465362	0.089329	16.49181	413.393	412.6016	222.1343	2.111543	41.08431	22.09911	-67486.5	17307.11	17248.31	10824.84	6423.473	58.8	16025.5	17307.11	10883.64	19746.66
56	0.487095	0.467919	0.089531	16.48169	413.8646	413.0805	221.5734	2.112776	41.08478	22.09364	-67484.1	17342.35	17283.49	10809.42	6474.069	58.9	15348.7	17342.35	10868.28	19017.75
57	0.48401	0.464568	0.089547	16.46972	413.8975	413.1227	221.7605	2.114322	41.08795	22.08914	-67482.1	17340.4	17281.4	10796.15	6485.252	59	16003	17340.4	10855.15	19805.54
58	0.484465	0.46561	0.089267	16.46826	413.2534	412.4574	221.574	2.110855	41.08251	22.08764	-67480	17294.44	17235.57	10731.68	6503.891	58.9	15868.4	17294.44	10790.55	19664.95
59	0.488779	0.469048	0.089895	16.44628	414.6871	413.9593	221.8222	2.112113	41.07479	22.08372	-67478	17443.67	17384.74	10832.02	6552.727	58.9	15761	17443.67	10890.95	19496.78
60	0.488869	0.469176	0.089077	16.46824	412.7966	412.026	221.6053	2.111366	41.08008	22.08307	-67476	17366.42	17307.44	10782.63	6524.81	59	15606.8	17366.42	10841.61	19350.67
61	0.478437	0.458527	0.08887	16.45889	412.3107	411.5399	221.7647	2.114871	41.06514	22.08582	-67474	17184.01	17124.98	10738.93	6386.042	59	15512.8	17184.01	10797.96	19207.96
62	0.483408	0.463305	0.089759	16.45112	414.3897	413.6248	221.5921	2.111736	41.08506	22.08547	-67471.7	17691.94	17632.72	11073.19	6559.527	59.2	15816.4	17691.94	11132.41	19564
63	0.49202	0.472776	0.090541	16.44222	416.2066	415.4449	221.7784	2.114194	41.10219	22.08253	-67469.2	17216.6	17157.22	10780.49	6376.733	59.4	15654.2	17216.6	10839.87	19411.15
64	0.496004	0.47598	0.090422	16.42431	415.9239	415.1777	221.8335	2.113871	41.11924	22.08192	-67466.6	17210.58	17151.24	10754.62	6396.625	59.3	15696.9	17210.58	10813.96	19512.57
65	0.479404	0.459804	0.089993	16.44826	414.9271	414.1764	221.8701	2.109934	41.11233	22.08318	-67464	17128.94	17069.64	10721.84	6347.807	59.3	15912.5	17128.94	10781.13	19691.31

Table 33: Data from B-WM testing condition.

Count	Chamber Discharge Pres	External Static Pressure	Evap Diff Pres	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Barometric Pres	Indoor Temp	Indoor Temp Ref	Evap Exit Drybulb	Cond Exit Drybulb	Evap Coil Temp	Outdoor Temp Ref	Evap Nozzle Temp	Indoor Wetbulb	Outdoor Temp	Cond Exit Wetbulb	Outdoor Wetbulb	Cond Nozzle Temp	Evap Exit Wetbulb	EvapFanOutStatPres	EvapNozDiffPres
	IWC	IWC	IWC	IWC	IWC	IWC	in. Hg	C	C	C	C	C	C	C	C	C	C	C	C	C	in/H2O	in/H2O
1	0.45	0.46	0.11	-0.06	-0.04	0.07	29.602	26.54	25.94	13.29	38.85	30.5	27.82	16.27	19.9	27.75	25.22	19.87	35.53	13.25	0.46	0.114
2	0.44	0.47	0.11	-0.06	-0.07	0.09	29.617	26.54	25.95	13.25	38.86	29.32	27.84	16.25	19.89	27.61	25.23	19.85	35.52	13.01	0.455	0.114
3	0.47	0.48	0.11	-0.08	-0.03	0.1	29.641	26.56	25.96	13.26	38.88	48.26	27.87	16.25	19.91	27.53	25.24	19.76	35.49	13.7	0.456	0.113
4	0.48	0.48	0.12	-0.05	-0.06	0.13	29.597	26.56	25.96	13.26	38.9	32.29	27.89	16.28	19.89	27.42	25.24	19.63	35.48	13.46	0.454	0.114
5	0.46	0.46	0.12	-0.06	-0.07	0.14	29.61	26.59	25.98	13.26	38.91	57.92	27.88	16.26	19.91	27.34	25.24	19.59	35.51	13.51	0.447	0.111
6	0.47	0.48	0.12	-0.06	-0.08	0.09	29.588	26.58	25.99	13.26	38.9	34.09	27.87	16.26	19.9	27.52	25.25	19.76	35.52	13.25	0.46	0.114
7	0.45	0.46	0.11	-0.07	-0.05	0.07	29.623	26.59	25.97	13.3	38.89	34.04	27.86	16.28	19.91	27.38	25.26	19.66	35.54	13.19	0.454	0.113
8	0.44	0.45	0.1	-0.04	-0.08	0.11	29.611	26.58	25.98	13.27	38.89	68.19	27.81	16.29	19.91	27.77	25.26	19.86	35.55	13	0.441	0.111
9	0.46	0.47	0.11	-0.1	-0.08	0.17	29.611	26.64	25.99	13.28	38.89	30.57	27.86	16.26	19.92	27.73	25.27	19.83	35.49	13.01	0.467	0.117
10	0.46	0.47	0.11	-0.07	-0.04	0.14	29.623	26.6	26.01	13.26	38.88	38.48	27.85	16.29	19.91	27.89	25.28	19.89	35.51	13.02	0.453	0.115
11	0.46	0.48	0.11	-0.03	-0.07	0.1	29.613	26.66	26.01	13.31	38.88	33.21	27.9	16.3	19.92	27.93	25.29	19.93	35.49	12.95	0.457	0.114
12	0.46	0.48	0.11	-0.1	-0.08	0.12	29.605	26.58	26.02	13.27	38.88	32.53	27.88	16.29	19.9	27.99	25.29	19.99	35.51	12.91	0.46	0.114
13	0.45	0.47	0.11	-0.05	-0.05	0.21	29.61	26.63	26.02	13.27	38.93	47.43	27.95	16.3	19.92	27.77	25.3	19.81	35.56	13.93	0.454	0.112
14	0.44	0.45	0.11	-0.05	-0.01	0.21	29.6	26.6	26.01	13.27	38.93	39.02	27.92	16.31	19.91	27.67	25.31	19.76	35.52	13.36	0.454	0.114
15	0.46	0.47	0.11	-0.08	-0.09	0.09	29.608	26.63	26.04	13.29	38.94	30.19	27.92	16.32	19.92	27.71	25.31	19.79	35.56	13.45	0.459	0.116
16	0.46	0.47	0.11	-0.07	-0.07	0.21	29.565	26.67	26.04	13.3	38.93	34.87	27.97	16.32	19.94	27.67	25.32	19.8	35.51	13.7	0.465	0.115
17	0.46	0.48	0.11	-0.04	-0.03	0.12	29.608	26.65	26.03	13.29	38.92	30.12	27.97	16.31	19.95	27.71	25.33	19.79	35.57	13.45	0.456	0.114
18	0.46	0.48	0.1	-0.1	-0.11	0.16	29.602	26.71	26.04	13.32	38.92	39.66	28	16.32	19.97	27.9	25.34	19.91	35.54	13.43	0.452	0.112
19	0.45	0.47	0.12	-0.07	-0.06	0.12	29.571	26.69	26.04	13.32	38.95	37.22	27.94	16.34	19.97	28.28	25.35	20.13	35.57	13.51	0.458	0.112
20	0.46	0.47	0.12	-0.05	-0.01	0.09	29.616	26.67	26.07	13.33	38.93	30.02	27.93	16.34	19.97	28.07	25.36	20.03	35.57	13.4	0.453	0.112
21	0.45	0.44	0.12	-0.07	-0.06	0.12	29.602	26.6	26.07	13.3	38.92	34.04	27.97	16.37	19.95	27.96	25.37	19.99	35.54	13.2	0.444	0.111
22	0.45	0.47	0.09	-0.11	-0.06	0.14	29.606	26.66	26.06	13.33	38.93	31.64	27.99	16.37	19.96	27.88	25.37	19.92	35.49	13.85	0.448	0.113
23	0.45	0.46	0.11	-0.04	-0.08	0.14	29.603	26.7	26.08	13.32	38.91	30.55	28.01	16.38	19.98	28	25.37	20.04	35.46	13.46	0.458	0.113
24	0.46	0.48	0.11	-0.05	-0.07	0.13	29.602	26.65	26.05	13.34	38.93	31.75	28.03	16.36	19.97	27.87	25.38	19.89	35.53	14.3	0.462	0.115
25	0.43	0.44	0.1	-0.06	-0.08	0.09	29.61	26.66	26.08	13.35	38.95	31.19	27.99	16.42	19.97	27.77	25.39	19.86	35.51	13.45	0.439	0.11
26	0.46	0.46	0.11	-0.04	-0.03	0.12	29.606	26.7	26.1	13.32	38.98	30.26	27.99	16.42	19.98	28.07	25.4	20.07	35.53	13.18	0.451	0.111
27	0.47	0.48	0.11	-0.03	-0.08	0.06	29.614	26.69	26.1	13.35	38.99	31.66	28.01	16.4	20	27.89	25.4	19.93	35.51	13.09	0.455	0.113
28	0.46	0.47	0.11	-0.09	-0.03	0.18	29.608	26.71	26.11	13.35	38.96	30.21	28.02	16.42	19.99	27.76	25.41	19.87	35.55	13.07	0.445	0.111
29	0.47	0.48	0.12	-0.08	-0.09	0.12	29.61	26.68	26.1	13.38	38.97	30.42	28.05	16.42	20	27.8	25.42	19.89	35.58	13.25	0.458	0.113
30	0.45	0.46	0.12	-0.09	-0.06	0.2	29.617	26.69	26.11	13.38	39	34.72	28.05	16.4	20.02	27.68	25.43	19.86	35.58	13.07	0.453	0.112
31	0.45	0.45	0.12	-0.04	-0.07	0.17	29.602	26.59	26.11	13.35	39.01	40.33	28.08	16.39	20	27.86	25.44	19.91	35.66	13.11	0.451	0.11
32	0.46	0.47	0.12	-0.06	-0.04	0.11	29.558	26.65	26.12	13.32	39	32.7	28.05	16.39	19.98	27.76	25.45	19.89	35.63	13.12	0.465	0.116
33	0.46	0.47	0.11	-0.07	-0.07	0.14	29.606	26.63	26.14	13.36	39	31.15	28.05	16.4	20	27.93	25.46	20.04	35.62	13.34	0.454	0.113
34	0.45	0.48	0.1	-0.07	-0.08	0.12	29.603	26.62	26.16	13.34	39.05	36.76	28.1	16.39	19.99	27.92	25.47	20.01	35.55	13.15	0.449	0.113
35	0.44	0.47	0.11	-0.09	-0.05	0.12	29.616	26.66	26.14	13.37	39.06	33.09	28.1	16.41	20.01	28.1	25.48	20.09	35.57	13.11	0.459	0.116
36	0.45	0.46	0.11	-0.07	-0.08	0.16	29.617	26.66	26.15	13.36	39.05	30.47	28.06	16.4	20	28.16	25.49	20.1	35.6	14.07	0.447	0.112
37	0.45	0.46	0.12	-0.08	-0.06	0.15	29.606	26.68	26.14	13.34	39.06	29.3	28.07	16.39	19.99	28.03	25.5	20.05	35.62	13.35	0.443	0.11
38	0.44	0.46	0.11	-0.08	-0.05	0.16	29.614	26.6	26.15	13.36	39.04	33.48	28.16	16.4	19.98	28.19	25.51	20.13	35.67	13.59	0.45	0.112
39	0.44	0.44	0.11	-0.06	-0.07	0.12	29.613	26.68	26.17	13.38	39.09	30.71	28.17	16.4	20.01	27.99	25.52	20.08	35.67	13.43	0.446	0.11
40	0.45	0.45	0.11	-0.05	-0.05	0	29.605	26.67	26.16	13.38	39.07	30.77	28.17	16.41	19.99	27.98	25.53	20.01	35.64	13.71	0.442	0.111
41	0.44	0.45	0.11	-0.06	-0.04	0.11	29.614	26.63	26.18	13.36	39.06	30.11	28.17	16.4	20	28.02	25.53	20.09	35.63	13.57	0.452	0.113
42	0.46	0.47	0.11	-0.07	-0.04	0.13	29.61	26.7	26.17	13.4	39.08	30.14	28.21	16.38	20.03	28.02	25.54	20.1	35.59	13.85	0.451	0.115
43	0.44	0.46	0.11	-0.07	-0.07	0.13	29.602	26.67	26.18	13.39	39.09	36.26	28.23	16.42	19.98	27.8	25.55	19.9	35.62	13.9	0.451	0.115
44	0.45	0.46	0.12	-0.03	-0.05	0.13	29.6	26.67	26.16	13.37	39.09	29.74	28.21	16.41	19.99	28.2	25.57	20.22	35.64	13.54	0.449	0.114
45	0.46	0.47	0.12	-0.06	-0.07	0.11	29.614	26.65	26.18	13.4	39.11	29.81	28.18	16.4	20.02	28.26	25.58	20.3	35.66	13.56	0.449	0.114
46	0.46	0.48	0.11	-0.06	-0.08	0.11	29.605	26.8	26.19	13.39	39.11	30.98	28.17	16.41	20.03	28.09	25.58	20.17	35.61	13.42	0.452	0.111
47	0.46	0.48	0.11	-0.07	-0.06	0.12	29.61	26.71	26.19	13.38	39.12	30.07	28.25	16.41	20.01	27.99	25.59	20.07	35.68	13.27	0.462	0.116
48	0.44	0.46	0.12	-0.08	-0.03	0.1	29.592	26.74	26.2	13.39	39.12	30	28.23	16.42	20.01	27.83	25.6	19.98	35.71	13.3	0.446	0.114
49	0.44	0.48	0.11	-0.09	-0.09	0.14	29.603	26.67	26.21	13.4	39.14	29.85	28.29	16.43	20.01	27.8	25.61	20	35.65	13.16	0.458	0.114
50	0.45	0.48	0.11	-0.07	-0.09	0.09	29.613	26.76	26.21	13.41	39.15	29.6	28.29	16.45	20.03	27.74	25.62	20.03	35.64	12.95	0.458	0.115
51	0.45	0.48	0.11	-0.08	-0.05	0.07	29.613	26.76	26.2	13.42	39.17	30.16	28.29	16.46	20.04	27.8	25.63	20.05	35.66	12.95	0.456	0.115
52	0.45	0.48	0.12	-0.04	-0.06	0.11	29.599	26.69	26.21	13.41	39.15	30.28	28.32	16.43	20.02	27.73	25.64	20	35.69	13.01	0.452	0.116
53	0.46	0.48	0.11	-0.05	-0.09	0.12	29.603	26.69	26.24	13.42	39.16	30.58	28.36	16.45	20.02	27.74	25.65	20.01	35.73	13.2	0.455	0.115
54	0.45	0.45	0.11	-0.04	-0.04	0.09	29.572	26.67	26.24	13.39	39.16	30.4	28.39	16.42	20.03	27.85	25.66	20.04	35.71	13.05	0.451	0.116
55	0.46	0.46	0.12	-0.06	-0.07	0.13	29.596	26.76	26.24	13.44	39.16	30.08	28.42	16.44	20.06	27.98	25.67	20.15	35.7	13.05	0.455	0.115
56	0.45	0.47	0.12	-0.05	-0.07	-0.02	29.613	26.74	26.25	13.45	39.2	30.14	28.42	16.44	20.06	27.97	25.68	20.17	35.73	12.99	0.46	0.113
57	0.47	0.49	0.12	-0.1	-0.08	0.12	29.613	26.73	26.25	13.41	39.19	29.44	28.4	16.42	20.05	27.93	25.69	20.12	35.75	13.06	0.452	0.115
58	0.45	0.47	0.12	-0.08	-0.05	0.17	29.596	26.71	26.25	13.4	39.22	30.22	28.36	16.42	20	27.97	25.7	20.16	35.72	13.04	0.456	0.114
59	0.45	0.46	0.12	-0.07	-0.08	0.13	29.605	26.68	26.23	13.38	39.2	30	28.43	16.43	20.02	27.96	25.71	20.17	35.77	13.02	0.454	0.113
60	0.46	0.47	0.11	-0.02	-0.07	0.08	29.608	26.66	26.21	13.39	39.18	30.17	28.42	16.46	20	27.79	25.71	20.06	35.81	13.06	0.458	0.115
61	0.46	0.47	0.11	-0.06	-0.08	0.17	29.61	26.61	26.2	13.34	39.23	30.21	28.44	16.44	19.97	28.02	25.72	20.16	35.77	13.8	0.446	0.112
62	0.46	0.48	0.11	-0.06	-0.06	0.23	29.614	26.57	26.17	13.34	39.23	30.08	28.46	16.44	19.95	28.18	25.74	20.27	35.73	13.16	0.455	0.114

Count	EvapNozStatPres	EvapBarPres	EvapDryInletTemp	EvapWetInletTemp	EvapNozzleTemp	EvapRhoInlet	EvapRhoOutlet	EvapRhoNozzle	EvapCFMNozzle	EvapCFMOutlet	EvapSCFMNozzle	CondFanOutStatPres	CondNozDiffPres	CondNozStatPres	CondBarPres	CondDryInletTemp	CondWetInletTemp	CondNozzleTemp	CondRhoInlet	CondRhoOutlet	CondRhoNozzle
	in/H2O	in/Hg	C	C	C	lb/ft^3	lb/ft^3	lb/ft^3	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	in/Hg	C	C	C	lb/ft^3	lb/ft^3	lb/ft^3
1	0.46	29.61	79.8	67.8	61.3	0.07225	0.07568	0.07488	466.8	461.9	466.8	-0.051	0.123	-0.054	29.61	81.9	67.8	95.9	0.07198	0.06941	0.07014
2	0.455	29.61	79.8	67.8	61.3	0.07225	0.07569	0.07488	467.6	462.6	467.6	-0.059	0.123	-0.06	29.61	81.7	67.7	95.9	0.07201	0.0694	0.07013
3	0.456	29.61	79.8	67.8	61.3	0.07224	0.07568	0.07487	466.3	461.3	466.3	-0.063	0.132	-0.057	29.61	81.6	67.6	95.9	0.07203	0.0694	0.07014
4	0.454	29.61	79.8	67.8	61.3	0.07225	0.07568	0.07487	468	463	468	-0.068	0.121	-0.071	29.61	81.4	67.3	95.9	0.07207	0.06941	0.07015
5	0.447	29.61	79.9	67.8	61.3	0.07223	0.07568	0.07487	460.9	456	460.9	-0.065	0.126	-0.064	29.61	81.2	67.2	95.9	0.07209	0.0694	0.07014
6	0.46	29.61	79.9	67.8	61.3	0.07223	0.07568	0.07487	468.3	463.3	468.3	-0.058	0.126	-0.051	29.61	81.5	67.6	95.9	0.07203	0.06939	0.07014
7	0.454	29.61	79.9	67.8	61.3	0.07223	0.07567	0.07487	465.4	460.4	465.4	-0.06	0.134	-0.042	29.61	81.3	67.4	96	0.07207	0.0694	0.07014
8	0.441	29.61	79.9	67.8	61.3	0.07224	0.07568	0.07487	461.4	456.5	461.4	-0.066	0.129	-0.068	29.61	82	67.8	96	0.07198	0.0694	0.07013
9	0.467	29.61	79.9	67.9	61.3	0.07222	0.07568	0.07488	474.3	469.3	474.3	-0.06	0.128	-0.063	29.61	81.9	67.7	95.9	0.07199	0.0694	0.07014
10	0.453	29.61	79.9	67.8	61.3	0.07223	0.07568	0.07487	470.5	465.5	470.5	-0.056	0.125	-0.058	29.61	82.2	67.8	95.9	0.07195	0.06941	0.07014
11	0.457	29.61	80	67.9	61.3	0.07222	0.07567	0.07487	467	462.1	467	-0.062	0.127	-0.061	29.61	82.3	67.9	95.9	0.07193	0.0694	0.07014
12	0.46	29.61	79.9	67.8	61.3	0.07223	0.07568	0.07486	468	462.9	468	-0.061	0.124	-0.063	29.61	82.4	68	95.9	0.07192	0.06939	0.07013
13	0.454	29.61	79.9	67.9	61.3	0.07222	0.07568	0.07486	464	459	464	-0.06	0.123	-0.061	29.61	82	67.7	96	0.07198	0.06939	0.07013
14	0.454	29.61	79.9	67.8	61.4	0.07223	0.07568	0.07486	466.7	461.7	466.7	-0.064	0.124	-0.063	29.61	81.8	67.6	95.9	0.072	0.0694	0.07014
15	0.459	29.61	79.9	67.9	61.4	0.07222	0.07567	0.07486	470.9	465.8	470.9	-0.072	0.127	-0.071	29.61	81.9	67.6	96	0.07199	0.06939	0.07013
16	0.465	29.61	80	67.9	61.4	0.07221	0.07567	0.07486	470.2	465.1	470.2	-0.055	0.133	-0.057	29.61	81.8	67.6	95.9	0.072	0.06939	0.07014
17	0.456	29.61	80	67.9	61.4	0.07222	0.07567	0.07486	466.9	461.9	466.9	-0.06	0.128	-0.046	29.61	81.9	67.6	96	0.07199	0.06939	0.07013
18	0.452	29.61	80.1	67.9	61.4	0.0722	0.07567	0.07486	463.5	458.6	463.5	-0.069	0.132	-0.069	29.61	82.2	67.8	96	0.07194	0.06939	0.07013
19	0.458	29.61	80	67.9	61.4	0.0722	0.07566	0.07485	463.4	458.4	463.4	-0.062	0.124	-0.065	29.61	82.9	68.2	96	0.07184	0.06938	0.07011
20	0.453	29.61	80	67.9	61.4	0.07221	0.07566	0.07485	462.6	457.7	462.6	-0.066	0.128	-0.061	29.61	82.5	68	96	0.0719	0.06938	0.07012
21	0.444	29.61	79.8	67.9	61.5	0.07223	0.07566	0.07484	460.7	455.7	460.7	-0.067	0.125	-0.051	29.61	82.3	68	96	0.07192	0.06938	0.07013
22	0.448	29.61	80	67.9	61.5	0.07221	0.07565	0.07484	464.7	459.7	464.7	-0.06	0.126	-0.061	29.61	82.2	67.9	95.9	0.07194	0.06938	0.07014
23	0.458	29.61	80.1	68	61.5	0.0722	0.07566	0.07484	466.4	461.4	466.4	-0.065	0.13	-0.067	29.61	82.4	68.1	95.8	0.07191	0.06938	0.07014
24	0.462	29.61	80	68	61.5	0.07221	0.07565	0.07484	470	464.9	470	-0.063	0.13	-0.065	29.61	82.2	67.8	95.9	0.07194	0.06938	0.07013
25	0.439	29.61	80	67.9	61.5	0.07221	0.07564	0.07483	459	454.1	459	-0.057	0.123	-0.061	29.61	82	67.7	95.9	0.07197	0.06938	0.07013
26	0.451	29.61	80	68	61.5	0.0722	0.07566	0.07483	461.3	456.3	461.3	-0.064	0.124	-0.064	29.61	82.5	68.1	95.9	0.07189	0.06937	0.07012
27	0.455	29.61	80.1	68	61.5	0.0722	0.07566	0.07483	466.3	461.2	466.3	-0.063	0.127	-0.066	29.61	82.2	67.9	95.9	0.07194	0.06937	0.07013
28	0.445	29.61	80.1	68	61.5	0.0722	0.07565	0.07483	461.8	456.8	461.8	-0.065	0.125	-0.067	29.61	82	67.8	96	0.07198	0.06938	0.07013
29	0.458	29.61	80	68	61.5	0.0722	0.07564	0.07483	466	461	466	-0.064	0.129	-0.068	29.61	82	67.8	96	0.07196	0.06937	0.07011
30	0.453	29.61	80	68	61.5	0.07221	0.07565	0.07484	464.5	459.5	464.5	-0.068	0.132	-0.07	29.61	81.8	67.7	96.1	0.072	0.06937	0.07012
31	0.451	29.61	79.9	68	61.5	0.07223	0.07565	0.07483	459.6	454.7	459.6	-0.063	0.128	-0.065	29.61	82.1	67.8	96.2	0.07195	0.06937	0.0701
32	0.465	29.61	80	68	61.5	0.07222	0.07566	0.07484	471.2	466.1	471.2	-0.066	0.127	-0.065	29.61	82	67.8	96.1	0.07197	0.06937	0.07011
33	0.454	29.61	79.9	68	61.5	0.07222	0.07565	0.07483	465.6	460.6	465.6	-0.066	0.124	-0.068	29.61	82.3	68.1	96.1	0.07193	0.06937	0.0701
34	0.449	29.61	79.9	68	61.5	0.07221	0.07564	0.07483	465.3	460.2	465.3	-0.057	0.126	-0.06	29.61	82.3	68	96	0.07192	0.06935	0.07012
35	0.459	29.61	80	68	61.5	0.07221	0.07565	0.07483	471.2	466.1	471.2	-0.061	0.128	-0.065	29.61	82.6	68.2	96	0.07189	0.06935	0.07011
36	0.447	29.61	80	68	61.5	0.07222	0.07565	0.07483	464.3	459.3	464.3	-0.066	0.129	-0.069	29.61	82.7	68.2	96.1	0.07187	0.06936	0.07011
37	0.443	29.61	80	68	61.5	0.07221	0.07565	0.07484	458.7	453.7	458.7	-0.072	0.127	-0.074	29.61	82.5	68.1	96.1	0.07191	0.06935	0.0701
38	0.45	29.61	79.9	68	61.5	0.07223	0.07565	0.07483	463.7	458.7	463.7	-0.066	0.123	-0.07	29.61	82.7	68.2	96.2	0.07187	0.06936	0.07009
39	0.446	29.61	80	68	61.5	0.0722	0.07564	0.07483	458.8	453.9	458.8	-0.07	0.132	-0.074	29.61	82.4	68.2	96.2	0.07191	0.06934	0.07008
40	0.442	29.61	80	68	61.5	0.07221	0.07565	0.07483	460.9	455.9	460.9	-0.06	0.127	-0.061	29.61	82.4	68	96.1	0.07192	0.06935	0.0701
41	0.452	29.61	79.9	68	61.5	0.07221	0.07564	0.07483	465.6	460.6	465.6	-0.055	0.12	-0.056	29.61	82.4	68.2	96.1	0.0719	0.06935	0.0701
42	0.451	29.61	80.1	68.1	61.5	0.0722	0.07563	0.07483	469.2	464.3	469.2	-0.061	0.121	-0.064	29.61	82.4	68.2	96.1	0.0719	0.06935	0.07011
43	0.451	29.61	80	68	61.5	0.07221	0.07564	0.07483	469.2	464.2	469.2	-0.059	0.123	-0.062	29.61	82	67.8	96.1	0.07196	0.06935	0.07011
44	0.449	29.61	80	68	61.5	0.07221	0.07564	0.07483	468	463	468	-0.059	0.124	-0.062	29.61	82.8	68.4	96.2	0.07185	0.06934	0.07009
45	0.449	29.61	80	68	61.5	0.07221	0.07563	0.07483	467.6	462.7	467.6	-0.07	0.123	-0.072	29.61	82.9	68.5	96.2	0.07184	0.06933	0.07008
46	0.452	29.61	80.2	68	61.5	0.07218	0.07564	0.07483	461.3	456.4	461.3	-0.066	0.127	-0.069	29.61	82.6	68.3	96.1	0.07188	0.06933	0.0701
47	0.462	29.61	80.1	68	61.5	0.0722	0.07564	0.07483	472	467	472	-0.058	0.13	-0.062	29.61	82.4	68.1	96.2	0.07191	0.06934	0.07009
48	0.446	29.61	80.1	68	61.6	0.07219	0.07564	0.07482	467.1	462.1	467.1	-0.069	0.12	-0.072	29.61	82.1	68	96.3	0.07195	0.06934	0.07008
49	0.458	29.61	80	68	61.6	0.07222	0.07565	0.07483	468.6	463.6	468.6	-0.062	0.127	-0.064	29.61	82	68	96.2	0.07196	0.06934	0.0701
50	0.458	29.61	80.2	68.1	61.6	0.07218	0.07563	0.07482	470.8	465.7	470.8	-0.063	0.124	-0.066	29.61	81.9	68	96.1	0.07196	0.06933	0.07009
51	0.456	29.61	80.2	68.1	61.6	0.07219	0.07563	0.07482	469.3	464.2	469.3	-0.069	0.126	-0.071	29.61	82	68.1	96.2	0.07196	0.06932	0.07009
52	0.452	29.61	80	68	61.6	0.0722	0.07563	0.07482	472.6	467.5	472.6	-0.061	0.121	-0.064	29.61	81.9	68	96.2	0.07197	0.06933	0.07008
53	0.455	29.61	80	68	61.6	0.0722	0.07563	0.07481	470.2	465.2	470.2	-0.069	0.127	-0.069	29.61	81.9	68	96.3	0.07196	0.06932	0.07007
54	0.451	29.61	80	68	61.6	0.07221	0.07564	0.07482	471.6	466.6	471.6	-0.066	0.12	-0.068	29.61	82.1	68.1	96.3	0.07194	0.06933	0.07008
55	0.455	29.6	80.2	68.1	61.6	0.07218	0.07562	0.07482	469.9	464.9	469.9	-0.069	0.13	-0.073	29.6	82.4	68.3	96.3	0.0719	0.06932	0.07007
56	0.46	29.61	80.1	68.1	61.6	0.0722	0.07563	0.07482	465.8	460.8	465.8	-0.066	0.12	-0.071	29.61	82.3	68.3	96.3	0.07191	0.06932	0.07007
57	0.452	29.61	80.1	68.1	61.6	0.07219	0.07563	0.07482	469.1	464.1	469.1	-0.063	0.116	-0.067	29.61	82.3	68.2	96.4	0.07192	0.06932	0.07007
58	0.456	29.61	80.1	68	61.6	0.0722	0.07564	0.07483	467.4	462.4	467.4	-0.067	0.125	-0.069	29.61	82.3	68.3	96.3	0.07191	0.06932	0.07007
59	0.454	29.61	80	68	61.6	0.0722	0.07564	0.07482	464.7	459.7	464.7	-0.059	0.126	-0.062	29.61	82.3	68.3	96.4	0.07191	0.06931	0.07006
60	0.458	29.61	80	68	61.6	0.07221	0.07564	0.07482	469.5	464.4	469.5	-0.065	0.128	-0.069	29.61	82	68.1	96.5	0.07196	0.06932	0.07005
61	0.446	29.61	79.9	67.9	61.6	0.07223	0.07566	0.07483	463.3	458.3	463.3	-0.065	0.131	-0.067	29.61	82.4	68.3	96.4	0.0719	0.06931	0.07007
62	0.455	29.61	79.8	67.9	61.6	0.07223	0.07565	0.07482	467.2	462.1	467.2	-0.062	0.128	-0.066	29.61	82.7	68.5	96.3	0.07186	0.06931	0.07007

Table 33: Data from B-WM continued.

Count	CondCFM Nozzle	CondCFM Outlet	CondSCFM Nozzle	Cond ESP	Cond Chamber Discharge Pres	Cond Diff Pres	Cond Nozzle Temp	Cond Coil Temp	Evap Coil Temp	Cond Airflow at Nozzle	Cond Airflow Standard	Barometric	IndoorDB	IndoorWB
	CFM	CFM	SCFM	in/H2O	in/H2O	in/H2O	C	C	C	CFM	SCFM	in Hg	C	C
1	957.9	967.9	957.9	-0.063722	-0.06485	0.129545	35.52882	0.458179	32.36805	982.2438	918.4824	29.60837	26.50901	19.89746
2	956.4	966.5	956.4	-0.060504	-0.061124	0.124113	35.52238	0.458504	39.28157	961.2055	898.7874	29.60728	26.53474	19.89345
3	990.3	1000.9	990.3	-0.062175	-0.060395	0.130455	35.49484	0.453661	34.97028	985.6689	921.8217	29.60848	26.58209	19.90702
4	949.4	959.6	949.4	-0.057961	-0.058786	0.12093	35.48355	0.447913	29.73914	948.532	887.1601	29.60688	26.55473	19.88781
5	967.6	978	967.6	-0.062546	-0.063538	0.133428	35.50907	0.460679	34.74357	996.9751	932.3558	29.60628	26.57119	19.90582
6	968.8	979.2	968.8	-0.063516	-0.041175	0.127422	35.51528	0.456735	36.59267	974.0155	910.9029	29.60801	26.57814	19.90249
7	1000.8	1011.4	1000.8	-0.062992	-0.059702	0.130875	35.54019	0.453254	35.72987	987.272	923.3092	29.61103	26.58717	19.906
8	981.2	991.4	981.2	-0.052252	-0.05513	0.127916	35.55159	0.452686	30.84946	976.0162	912.5949	29.60743	26.6048	19.91054
9	975.2	985.6	975.2	-0.064445	-0.067865	0.129506	35.49533	0.451214	31.19929	982.0513	918.4037	29.60807	26.6589	19.92539
10	965.2	975.4	965.2	-0.058755	-0.062578	0.124022	35.51183	0.457158	30.31794	960.7909	898.5045	29.60836	26.60744	19.90945
11	971.9	982.2	971.9	-0.057542	-0.042814	0.12216	35.49483	0.454867	29.79741	953.435	891.6747	29.60746	26.65965	19.92146
12	959.8	970	959.8	-0.054191	-0.056466	0.123545	35.50522	0.452961	34.2681	958.9111	896.7684	29.6099	26.59814	19.89802
13	956.6	966.7	956.6	-0.064851	-0.064063	0.126433	35.55826	0.450123	33.78485	970.2428	907.2517	29.60926	26.63352	19.91711
14	961	971.3	961	-0.057893	-0.057964	0.124183	35.52687	0.443904	30.47349	961.4282	899.093	29.6079	26.63115	19.90971
15	973.1	983.4	973.1	-0.063771	-0.063404	0.122498	35.56299	0.457904	37.48491	954.8594	892.8349	29.60802	26.65925	19.92153
16	994.6	1005.3	994.6	-0.05854	-0.058793	0.126559	35.50969	0.461353	35.24999	970.6941	907.7384	29.60691	26.6985	19.94028
17	976.7	987.1	976.7	-0.064718	-0.066684	0.123253	35.56387	0.447612	39.50763	957.8184	895.6219	29.60919	26.66258	19.94637
18	991.7	1002.3	991.7	-0.056615	-0.057362	0.122941	35.54457	0.456007	30.92496	956.585	894.4518	29.60772	26.71884	19.96357
19	962.7	972.9	962.7	-0.067393	-0.069163	0.131128	35.56759	0.44499	31.44493	988.4057	924.0338	29.60783	26.66611	19.96657
20	975.2	985.5	975.2	-0.063108	-0.044689	0.122346	35.57246	0.452858	32.83741	954.3038	892.2264	29.60789	26.68431	19.97244
21	965.3	975.7	965.3	-0.063908	-0.064267	0.1252	35.53665	0.455957	34.07478	965.4872	902.7319	29.60747	26.62143	19.95161
22	970.4	981	970.4	-0.06397	-0.057374	0.130171	35.48977	0.458771	34.89558	984.5819	920.8001	29.60885	26.64036	19.95993
23	983.1	993.7	983.1	-0.063845	-0.058946	0.127396	35.46547	0.445357	33.6105	973.9231	910.7988	29.60714	26.67427	19.98161
24	984.2	994.8	984.2	-0.070068	-0.073179	0.128476	35.52469	0.445531	30.35754	978.1688	914.6246	29.60692	26.65251	19.97421
25	958.2	968.6	958.2	-0.061742	-0.064996	0.124195	35.50956	0.456622	29.75551	961.5146	899.0962	29.60584	26.65995	19.96611
26	962.4	972.9	962.4	-0.062439	-0.062832	0.12755	35.52956	0.465879	31.07192	974.5918	911.2818	29.6093	26.66221	19.9771
27	972.1	982.8	972.1	-0.056287	-0.059603	0.127204	35.50913	0.452652	31.69593	973.2092	910.0785	29.60804	26.70372	19.99353
28	965.3	975.7	965.3	-0.064546	-0.063133	0.127107	35.54158	0.447354	33.36995	972.9202	909.6379	29.60526	26.71049	19.98547
29	979.1	989.5	979.1	-0.057779	-0.060342	0.123806	35.57778	0.442249	38.00138	960.0506	897.5956	29.60811	26.6857	19.99567
30	991.1	1001.7	991.1	-0.070858	-0.073503	0.127299	35.58159	0.440492	33.96211	973.6627	910.3262	29.60976	26.68892	20.0179
31	977.9	988.2	977.9	-0.064417	-0.065319	0.126586	35.66284	0.462907	30.70524	971.0279	907.6233	29.60919	26.59478	20.0022
32	973.7	984	973.7	-0.063765	-0.059096	0.126741	35.63284	0.457948	31.25405	971.5943	908.2191	29.60846	26.63763	19.98577
33	962	972.2	962	-0.064826	-0.067022	0.124425	35.6206	0.45284	32.66204	962.6014	899.7573	29.60826	26.64109	19.99694
34	967.3	977.9	967.3	-0.06254	-0.066226	0.129209	35.54771	0.447668	30.8654	981.0494	917.1974	29.60738	26.62528	19.98972
35	977.5	988.2	977.5	-0.065421	-0.068722	0.125945	35.57049	0.460299	32.50897	968.4472	905.3828	29.60881	26.65831	20.01001
36	981.3	991.9	981.3	-0.065394	-0.068421	0.124399	35.59099	0.453114	30.52351	962.4765	899.6761	29.60627	26.63736	20.00668
37	973	983.5	973	-0.061756	-0.063278	0.119691	35.62273	0.452675	29.6078	943.872	882.2546	29.60728	26.66958	19.9897
38	955.7	965.9	955.7	-0.066696	-0.071086	0.129509	35.67514	0.463671	29.70366	982.4294	918.0307	29.6059	26.60711	19.97529
39	990.5	1001.1	990.5	-0.057066	-0.059708	0.12637	35.66735	0.458489	31.40188	970.2977	906.721	29.60541	26.64352	20.00947
40	974.2	984.7	974.2	-0.060095	-0.063287	0.125628	35.64019	0.450951	35.45312	967.3368	904.1092	29.60661	26.6453	19.99313
41	946.2	956.4	946.2	-0.060682	-0.062483	0.123279	35.6299	0.457376	30.01286	958.1096	895.5415	29.60858	26.65182	20.00181
42	948.2	958.6	948.2	-0.060007	-0.063707	0.129773	35.58487	0.448419	30.21921	983.2867	919.1121	29.60609	26.71884	20.03362
43	955.2	965.6	955.2	-0.061838	-0.064875	0.128082	35.61643	0.45894	29.63478	976.793	913.0446	29.6064	26.66793	19.97956
44	960.6	971	960.6	-0.062179	-0.064891	0.123912	35.64264	0.44046	30.36671	960.6999	897.7696	29.60539	26.66366	19.98701
45	959.1	969.5	959.1	-0.075454	-0.076097	0.129751	35.65928	0.450311	29.81424	983.3667	918.8919	29.60785	26.65764	20.02308
46	974.3	985.1	974.3	-0.064379	-0.065697	0.123258	35.60623	0.452041	34.84818	958.0501	895.4395	29.60636	26.79126	20.02531
47	984.3	995	984.3	-0.063429	-0.065943	0.121153	35.67943	0.445773	29.85202	949.7816	887.586	29.60755	26.71807	20.00903
48	946.7	956.8	946.7	-0.057674	-0.061977	0.126202	35.7078	0.464297	29.74935	969.6776	906.0724	29.60607	26.72784	20.01239
49	972.4	983	972.4	-0.06395	-0.066427	0.122685	35.65338	0.444786	31.39466	955.8229	893.3001	29.60719	26.67124	20.00541
50	961.6	972.2	961.6	-0.065959	-0.0699	0.124617	35.63527	0.459748	29.74349	963.4366	900.3779	29.60557	26.74646	20.03244
51	967.5	978.2	967.5	-0.067227	-0.067816	0.129249	35.65515	0.44589	31.15349	981.3797	917.1622	29.60828	26.75876	20.04283
52	949.2	959.5	949.2	-0.062505	-0.065161	0.130886	35.69427	0.460878	30.00121	987.6804	922.9524	29.60799	26.68652	20.01737
53	971.1	981.5	971.1	-0.064723	-0.066929	0.12278	35.73311	0.451779	30.98724	956.3339	893.5174	29.60692	26.68896	20.02499
54	943.7	953.9	943.7	-0.069059	-0.072122	0.131144	35.70728	0.450951	30.36158	988.717	923.8009	29.60613	26.6708	20.02622
55	985.5	996.2	985.5	-0.05869	-0.063249	0.124485	35.70126	0.469965	32.09626	963.0096	899.7893	29.60645	26.77969	20.06337
56	945.8	956.1	945.8	-0.06765	-0.070249	0.125559	35.73355	0.453523	30.22993	967.2183	903.6917	29.6095	26.72112	20.06454
57	930	940	930	-0.064128	-0.068632	0.128659	35.74711	0.464639	29.4456	979.274	914.8075	29.60543	26.74682	20.05047
58	966.9	977.5	966.9	-0.068835	-0.071611	0.127346	35.72559	0.446523	30.1976	974.1947	910.1621	29.60714	26.69901	20.00821
59	970.6	981	970.6	-0.06518	-0.066995	0.126673	35.76575	0.45988	30.06014	971.6427	907.6659	29.60742	26.67142	20.01624
60	975.4	985.8	975.4	-0.05875	-0.06317	0.125964	35.81136	0.45614	32.23401	968.9268	905.0543	29.60762	26.65706	20.00213
61	988.9	999.6	988.9	-0.064052	-0.066071	0.126512	35.76726	0.447687	30.24358	971.0007	907.0912	29.60734	26.60944	19.96567
62	975	985.6	975	-0.062972	-0.067946	0.126559	35.72794	0.442432	29.93245	971.1489	907.307	29.6079	26.57029	19.95322

Count	EvapExitDB	EvapExitWB	OutdoorDB	OutdoorWB	EvapStatPres	ChamberDischargePres	EvapDiffPres	EvapNozzTemp	Airflow at Nozzle	Standard Air Flow	CondVoltage	CondPower
	C	C	C	C	in/H2O	in/H2O	in/H2O	C	CFM	SCFM	V	kW
1	13.27382	13.14646	27.74266	19.86247	0.469737	0.458179	0.114015	16.26924	467.6681	466.8757	229.1412	2.073099
2	13.25711	13.02253	27.62701	19.86492	0.469799	0.458504	0.113628	16.25728	466.8613	466.0777	228.9593	2.073799
3	13.26274	13.25416	27.53748	19.76718	0.465701	0.453661	0.112336	16.24137	464.1485	463.4102	229.1598	2.075026
4	13.25909	13.56854	27.40811	19.64166	0.459853	0.447913	0.11182	16.26139	463.0965	462.3008	228.9846	2.075277
5	13.30447	13.55849	27.34528	19.59112	0.471908	0.460679	0.111954	16.26653	463.3826	462.5783	229.1737	2.075441
6	13.27072	13.39591	27.53406	19.76037	0.468902	0.456735	0.114728	16.24813	469.1303	468.3678	228.9779	2.077374
7	13.29012	13.15319	27.38193	19.66083	0.463988	0.453254	0.112595	16.2906	464.7078	463.9302	229.256	2.076301
8	13.28389	13.03174	27.76191	19.85983	0.463201	0.452686	0.112129	16.27664	463.7509	462.9408	228.9306	2.076666
9	13.29688	13.0677	27.71686	19.83056	0.461763	0.451214	0.114302	16.25861	468.2565	467.4743	229.0102	2.077386
10	13.26386	13.04886	27.88652	19.8859	0.46818	0.457158	0.11266	16.27011	464.8453	464.0637	229.0906	2.076521
11	13.30167	13.06324	27.92533	19.92579	0.465783	0.454867	0.11149	16.2781	462.4111	461.607	228.9514	2.07789
12	13.27309	12.96312	28.01707	20.00736	0.464444	0.452961	0.113958	16.30366	467.5636	466.7447	228.9426	2.077953
13	13.25936	13.53326	27.77296	19.81594	0.460611	0.450123	0.112827	16.29985	465.2138	464.39	228.728	2.078104
14	13.26526	13.31344	27.67982	19.76594	0.455019	0.443904	0.110171	16.30322	459.6549	458.8128	228.9846	2.077405
15	13.29335	13.65618	27.70508	19.7821	0.469699	0.457904	0.11582	16.30357	471.4254	470.5716	228.8522	2.076785
16	13.29964	13.49391	27.66922	19.80669	0.473681	0.461353	0.115473	16.32396	470.7334	469.832	229.0397	2.078522
17	13.31813	13.56216	27.69649	19.78473	0.45916	0.447612	0.111786	16.32146	463.0609	462.1959	228.7904	2.076157
18	13.31688	13.55937	27.90367	19.91727	0.467326	0.456007	0.115479	16.32819	470.7478	469.8397	228.8213	2.076526
19	13.31925	13.44886	28.2694	20.111	0.456301	0.44499	0.111955	16.3287	463.4365	462.5274	228.9239	2.076662
20	13.32842	13.51509	28.06165	20.02991	0.470725	0.452858	0.11344	16.35009	466.5464	465.6051	228.8251	2.080222
21	13.33292	13.36004	27.96979	19.99032	0.467757	0.455957	0.113032	16.34829	465.6969	464.7581	228.9023	2.078051
22	13.31777	13.91174	27.86486	19.9219	0.472859	0.458771	0.113108	16.36766	465.8595	464.9133	228.8405	2.074808
23	13.33773	13.42656	28.0065	20.03886	0.459155	0.445357	0.11062	16.36576	460.6661	459.6901	228.7963	2.078699
24	13.34099	13.75878	27.85983	19.89626	0.457475	0.445531	0.11171	16.4003	462.9849	461.9446	229.0582	2.078595
25	13.32349	13.51487	27.75874	19.8575	0.467795	0.456622	0.111605	16.38941	462.7572	461.7345	229.1489	2.080698
26	13.32712	13.15086	28.07109	20.07379	0.478054	0.465879	0.114982	16.39634	469.7632	468.772	229.2186	2.081257
27	13.34506	13.12176	27.90266	19.94032	0.464139	0.452652	0.114749	16.38407	469.2922	468.2852	229.1992	2.078934
28	13.3601	13.08008	27.75893	19.86967	0.462142	0.447354	0.113971	16.41619	467.7273	466.6264	229.2126	2.081472
29	13.38124	13.02548	27.79683	19.88835	0.452731	0.442249	0.110918	16.41069	461.3254	460.2838	229.1597	2.083117
30	13.37562	13.11934	27.68674	19.85248	0.45237	0.440492	0.109432	16.39731	458.1693	457.1736	229.4217	2.078653
31	13.36106	13.05031	27.84584	19.90589	0.473648	0.462907	0.111998	16.4105	463.5798	462.5599	229.3775	2.080857
32	13.32493	13.12683	27.7666	19.89843	0.472542	0.457948	0.112426	16.41312	464.4788	463.4462	229.4977	2.083746
33	13.36603	13.23323	27.93308	20.04924	0.466007	0.45284	0.114159	16.39798	468.0837	467.0526	229.4503	2.083882
34	13.34543	13.16036	27.92253	20.02381	0.45979	0.447668	0.111749	16.40279	463.0693	462.0255	229.5135	2.083247
35	13.38041	13.10236	28.09773	20.09358	0.47077	0.460299	0.115529	16.38384	470.8979	469.8964	229.4319	2.085896
36	13.34838	13.70516	28.13291	20.09293	0.465901	0.453114	0.111494	16.40869	462.5472	461.4792	229.4587	2.084777
37	13.35756	13.31892	28.04339	20.05427	0.464999	0.452675	0.114855	16.39707	469.5241	468.4809	229.5646	2.088185
38	13.3534	13.58014	28.18234	20.13042	0.475606	0.463671	0.114557	16.41042	468.9264	467.8521	229.6075	2.088232
39	13.37314	13.39539	27.99632	20.0913	0.470206	0.458489	0.114335	16.40698	468.4729	467.3829	229.7315	2.086775
40	13.36241	13.72332	27.96416	20.0205	0.465818	0.450951	0.112724	16.39399	465.1064	464.0636	229.572	2.087526
41	13.3668	13.47693	28.02869	20.09589	0.474648	0.457376	0.111517	16.38781	462.5578	461.5677	229.6623	2.089768
42	13.38821	14.10927	28.03407	20.09857	0.460061	0.448419	0.113908	16.38617	467.5741	466.5191	229.8183	2.087993
43	13.39554	13.86692	27.77582	19.90463	0.471199	0.45894	0.112952	16.4074	465.5862	464.5342	229.8362	2.089661
44	13.35936	13.45501	28.20852	20.22135	0.452217	0.44046	0.110099	16.39202	459.6032	458.5523	229.8238	2.089346
45	13.39249	13.34283	28.27234	20.30501	0.462208	0.450311	0.111743	16.38227	463.0413	462.0318	229.8444	2.08975
46	13.37725	13.23595	28.1046	20.17423	0.463995	0.452041	0.113719	16.41633	467.1937	466.1114	229.8292	2.090127
47	13.39377	13.2305	27.98731	20.07613	0.457432	0.445773	0.113716	16.42303	467.1889	466.1051	229.8694	2.090021
48	13.40066	13.31594	27.84154	19.9975	0.476847	0.464297	0.116055	16.42917	472.032	470.9218	229.8177	2.090106
49	13.38555	13.1309	27.80682	20.00861	0.456653	0.444786	0.110877	16.43075	461.2607	460.1707	229.8113	2.091045
50	13.43191	12.9385	27.75973	20.03298	0.471686	0.459748	0.112396	16.4458	464.465	463.3317	229.7997	2.09022
51	13.43159	12.94141	27.81196	20.05495	0.457687	0.44589	0.110812	16.4342	461.1203	460.0397	229.6277	2.090526
52	13.41409	12.97421	27.73133	19.99633	0.472915	0.460878	0.114966	16.45518	469.7967	468.6709	229.8955	2.090378
53	13.41926	13.22413	27.74814	20.01768	0.463646	0.451779	0.113637	16.42812	467.0349	465.9307	229.8264	2.090409
54	13.40307	13.21054	27.83714	20.03675	0.461789	0.450951	0.113606	16.42022	466.9725	465.865	229.7043	2.089727
55	13.43532	13.08406	27.97691	20.15345	0.482258	0.469965	0.115455	16.42934	470.7986	469.691	229.7187	2.091054
56	13.44448	12.99199	27.9742	20.16821	0.464495	0.453523	0.114765	16.43509	469.3654	468.2749	229.6538	2.090308
57	13.44435	13.07358	27.92124	20.12169	0.476967	0.464639	0.113753	16.40194	467.2618	466.1874	229.7327	2.092229
58	13.39286	13.0133	27.96504	20.15298	0.458496	0.446523	0.113502	16.43922	466.7614	465.645	229.7896	2.092372
59	13.39195	13.01769	27.952	20.16869	0.471889	0.45988	0.114212	16.43992	468.2302	467.1221	229.809	2.09215
60	13.37794	13.06731	27.79446	20.06224	0.468224	0.45614	0.114327	16.44661	468.4736	467.3565	229.6971	2.092873
61	13.33495	13.53812	28.00693	20.14613	0.45821	0.447687	0.113242	16.43864	466.214	465.1104	229.9093	2.093975
62	13.32778	13.16785	28.17685	20.26686	0.453514	0.442432	0.112164	16.44492	463.9681	462.8639	229.8353	2.094226

Count	Cond Exit Dry-bulb	Cond Exit Wet-bulb	RH	Evap Disch Temp	Cooling Capacity	Total Cooling Capacity	Sensible Cooling Capacity	Latent Cooling Capacity	Duct Loss Correction	Total Cooling Capacity Cond Side	Corrected Total Cooling Capacity	Corrected Sensible Cooling Capacity	Sensible Cooling Capacity Cond Side
	C	C	%	C	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr	Btu/hr
1	38.85469	25.21893	73.76453	23.65743	17967.13	17907.46	12253.59	5653.873	59.7	28443.4	17967.13	12313.26	13149.39
2	38.8772	25.22635	73.77743	23.66783	18116.62	18057.55	12268.94	5788.604	59.1	28382.9	18116.62	12328.01	13357.87
3	38.85647	25.23498	73.78263	23.65514	17587.02	17529.02	12399.57	5129.449	58	29273.7	17587.02	12457.57	13644.8
4	38.87836	25.2392	73.77062	23.67539	17316.7	17260.02	12381.2	4878.827	56.7	29468.2	17316.7	12437.87	13651.18
5	38.87429	25.24513	73.7117	23.67165	17048.9	16992.59	12315.12	4677.465	56.3	29815.6	17048.9	12371.44	13700.13
6	38.90159	25.24947	73.81113	23.6811	17665.29	17607.46	12322.07	5285.391	57.8	29506	17665.29	12379.9	13755.18
7	38.89391	25.25827	73.76157	23.67489	17897.74	17841.08	12411.9	5429.179	56.7	29887.7	17897.74	12468.56	13892.32
8	38.86618	25.26118	73.88276	23.67331	18221.03	18161.51	12352.53	5808.981	59.5	28468.4	18221.03	12412.04	13030.84
9	38.87682	25.26783	73.81877	23.68102	18040.81	17981.93	12328.84	5653.09	58.9	28558.7	18040.81	12387.72	13042.69
10	38.90263	25.27876	73.64084	23.67832	17912.95	17852.28	12273.67	5578.605	60.7	28558.3	17912.95	12334.35	12856.52
11	38.87799	25.28457	73.78406	23.6797	18094.77	18034.04	12396.1	5637.942	60.7	28449.7	18094.77	12456.83	12863.28
12	38.88338	25.29259	73.77827	23.69953	18509.98	18447.95	12504.48	5943.467	62	28470.7	18509.98	12566.51	12963.25
13	38.91377	25.30029	73.86856	23.69131	16714.58	16654.86	12392.38	4262.479	59.7	28787.8	16714.58	12452.1	12937.84
14	38.91616	25.30734	73.77342	23.71056	17587.67	17528.6	12470.76	5057.837	59.1	29679.8	17587.67	12529.83	13439.65
15	38.92864	25.31057	73.73638	23.70826	16666.28	16607.48	12191.69	4415.798	58.8	29228.4	16666.28	12250.48	13160.64
16	38.9337	25.32364	73.91114	23.71827	16743.5	16685.05	12362.83	4322.218	58.5	28604.4	16743.5	12421.28	12919.07
17	38.93071	25.32561	73.92252	23.71394	17324.89	17266.39	12421.15	4845.242	58.5	28817	17324.89	12479.65	12949.62
18	38.92472	25.33646	73.86299	23.71997	17457.93	17397.64	12387.72	5009.922	60.3	29426.2	17457.93	12448.01	13282.25
19	38.94611	25.34692	73.91328	23.72521	17182.82	17119.56	12341.2	4778.36	63.3	28055.9	17182.82	12404.46	12415.43
20	38.95439	25.35741	73.90334	23.71998	17731.43	17669.89	12415.81	5254.086	61.5	29059.8	17731.43	12477.35	13123.59
21	38.93812	25.36866	73.77825	23.7213	17490.4	17429.08	12180.2	5248.881	61.3	27469	17490.4	12241.52	12176.77
22	38.95844	25.36791	73.87275	23.7231	16305.04	16245.12	12305.1	3940.023	59.9	29144.8	16305.04	12365.02	13169.82
23	38.93476	25.37608	73.84796	23.73445	17761.11	17699.76	12356.86	5342.898	61.3	28967	17761.11	12418.21	13072.6
24	38.96304	25.38117	73.80844	23.73441	17548.42	17488.47	12407.98	5080.488	59.9	28550.6	17548.42	12467.93	12647.38
25	38.95061	25.38766	73.83918	23.74205	17185.47	17126.46	12337.69	4788.775	59	28580.4	17185.47	12396.7	12733.8
26	38.97587	25.39836	73.86772	23.73391	18363.24	18301.49	12469.55	5831.941	61.8	27749.4	18363.24	12531.3	12365.2
27	38.96982	25.40498	73.90271	23.75096	18160.59	18100.33	12351.46	5748.871	60.3	28571.4	18160.59	12411.72	12664.7
28	38.98314	25.41184	73.80952	23.74508	18399.71	18340.88	12445.76	5895.122	58.8	30529.1	18399.71	12504.58	13741.11
29	38.95413	25.42155	73.94841	23.75424	18419.31	18360.17	12402.48	5957.691	59.1	28722.5	18419.31	12461.62	12723.58
30	38.98164	25.42794	73.83064	23.7579	18215.98	18157.81	12349.65	5808.158	58.2	30307	18215.98	12407.83	13641.89
31	39.00493	25.44353	73.92814	23.74594	18120.93	18060.95	12229.71	5831.237	60	29449.5	18120.93	12289.69	13023.49
32	38.98058	25.45367	73.861	23.75037	18264.25	18204.88	12307.08	5897.796	59.4	29415.7	18264.25	12366.46	13067.68
33	38.99722	25.46017	73.85372	23.78495	17891.88	17831.23	12125.78	5705.455	60.7	28774.9	17891.88	12186.43	12910
34	39.04527	25.46775	73.85878	23.77139	18341.65	18280.93	12408.39	5872.54	60.7	29731.1	18341.65	12469.12	13420.57
35	39.0531	25.47976	73.89315	23.78343	18505.65	18443.72	12414.09	6029.632	61.9	29159.9	18505.65	12476.01	12991.31
36	39.0541	25.49405	73.78581	23.78597	14390.24	14328.08	12249.42	2078.666	62.2	29280.7	14390.24	12311.57	12943.64
37	39.04594	25.50439	73.918	23.79704	17570.79	17509.36	12264.39	5244.965	61.4	28388.3	17570.79	12325.83	12428.1
38	39.05351	25.51297	73.97969	23.81606	16985.29	16922.39	12318.09	4604.302	62.9	28199.2	16985.29	12380.98	12279.44
39	39.07895	25.51998	73.93995	23.81842	17641.75	17580.54	12442.25	5138.294	61.2	28491.5	17641.75	12503.46	12710.62
40	39.06865	25.52939	74.02957	23.82314	16926.68	16866.03	12315.83	4550.202	60.6	29624.1	16926.68	12376.48	13079.86
41	39.03339	25.53374	73.87294	23.82635	17303.04	17241.65	12321.98	4919.67	61.4	28681.1	17303.04	12383.37	12625.85
42	39.07419	25.54411	73.97845	23.83793	14710.66	14649.46	12296.17	2353.291	61.2	29213.9	14710.66	12357.37	12878.26
43	39.08222	25.55287	73.79791	23.84682	16410.79	16351.91	12200.76	4151.15	58.9	29260.1	16410.79	12259.64	12769.64
44	39.1155	25.56512	74.02674	23.85219	16879.37	16816.44	12137.7	4678.74	62.9	27957.5	16879.37	12200.63	12276.56
45	39.114	25.57611	73.98688	23.85534	18037.85	17974.33	12317.75	5656.578	63.5	27585.1	18037.85	12381.27	12227.08
46	39.11615	25.58501	73.90758	23.86014	17295.62	17234.3	12396.64	4837.662	61.3	29078.4	17295.62	12457.96	12897.76
47	39.13324	25.58898	74.08908	23.87483	17498.63	17438.05	12369.62	5068.43	60.6	28694.7	17498.63	12430.2	12551.04
48	39.10695	25.59543	74.06359	23.87565	17417.48	17357.91	12330.85	5027.053	59.6	29938.8	17417.48	12390.42	13183.22
49	39.12844	25.60531	73.92007	23.88821	18387.02	18327.6	12369.24	5958.357	59.4	30455.4	18387.02	12428.66	13557.07
50	39.13046	25.62018	73.9068	23.8848	18854.47	18795.83	12449	6346.832	58.6	29415.4	18854.47	12507.64	13070.21
51	39.15815	25.62915	73.95162	23.89398	18849.54	18790.79	12413.53	6377.256	58.8	29672.3	18849.54	12472.28	13197.1
52	39.14974	25.63668	74.14832	23.89947	18559.54	18501.02	12306.63	6194.396	58.5	30407.1	18559.54	12365.14	13494.12
53	39.14851	25.64473	73.98194	23.89574	18328.06	18269.47	12409.55	5859.914	58.6	30427.7	18328.06	12468.15	13570.36
54	39.15362	25.65451	74.00966	23.90128	18471.19	18411.9	12281.06	6130.841	59.3	30032	18471.19	12340.35	13216.15
55	39.16702	25.67391	74.03603	23.95235	18339.52	18279.43	12470.64	5808.792	60.1	29447.2	18339.52	12530.73	12951.53
56	39.18282	25.68055	74.00722	23.9594	18867.91	18807.51	12441.35	6366.158	60.4	30458.2	18867.91	12501.76	13569.52
57	39.20876	25.68946	74.07226	23.96323	18491.45	18431.72	12439.83	5991.894	59.7	31006	18491.45	12499.55	13794.25
58	39.23117	25.70328	74.15581	23.97025	18626.05	18565.67	12424.93	6140.74	60.4	29675.2	18626.05	12485.31	13044.42
59	39.20721	25.70682	74.0054	23.96026	18768.15	18707.71	12413	6294.71	60.4	29717.9	18768.15	12473.44	13163.5
60	39.18603	25.71357	74.07519	23.96827	18409.72	18350.44	12395.2	5955.239	59.3	30228.8	18409.72	12454.48	13285.74
61	39.21062	25.72425	74.04747	23.97738	17403.57	17342.21	12235.6	5106.617	61.4	30626.3	17403.57	12296.95	13395.16
62	39.2343	25.73974	74.03974	23.97642	18076.42	18013.32	12348.13	5665.196	63.1	29568.7	18076.42	12411.23	12885.65