



... the pioneer and builder of the most complete line of precision cooling equipment

Back in the late 1960's and early 70's with the advancement of the computer and computer rooms, precision environmental control equipment with high sensible cooling ratios became a necessity. Data Aire, a division of Supreme Aire, worked with leading computer facility engineers to develop one of the first down discharge air conditioning units for raised floor application.

Today, as one of the most experienced manufacturers of precision cooling equipment, Data Aire offers a wide range of precision cooling units with an array of options to meet the specific needs of owners and their projects.

Product innovation, to meet the needs of our customers and the industry, has always been a guiding principle at Data Aire. This is demonstrated by our continuous product improvements. In the mid 1980's we were the first to include the steam generator humidifier as standard equipment, eliminating standing water and high maintenance infrared lights. In 1989 Data Aire developed the first solid-state control panel and monitor used in precision cooling and holds the original patent. The Data Alarm Processor (DAP) is well into its fourth generation, dap4. Then in the early to mid 1990's Data Aire was the first to make scroll compressors standard, introducing them in smaller sizes then gradually across the entire product line. Today these type of compressors are recognized worldwide as the most efficient and reliable compressors available. In 2003 we were awarded an AHR Honorable Mention Innovation Award for our Intelli-DART - a site monitoring device that allows the owner to use the fax, telephone and/or e-mail to monitor their controlled spaces and provides for Internet access to both monitor and modify settings for each individual unit. In 2005 we introduced R-410A refrigerant into our product line to meet the 2010 EPA mandates. We are the only manufacturer of precision cooling equipment to make such an offering. Many of our earlier innovations are today's industry standards among modern manufacturers, and we expect our more recent changes to become industry standards as well.

Data Aire produces solutions. We have offered environmental solutions to meet specific needs in the smallest of places and in areas of thousands of square feet. We are prepared to assist you, your in-house engineering department, consulting engineer, or construction department in defining the proper solutions and bringing them to a predefined outcome. Our moderate size, housed in a single facility, allows us to accommodate your special needs quickly and efficiently.

Data Aire is committed to being the supplier of choice for precision cooling with the flexibility, reliability, and expertise required to meet our customer's needs. One of our actions to this commitment is being an ISO 9001 certified company. To be successful, it is essential to be creative and use our resources to their fullest capabilities. Data Aire's mission is to provide the reliable choice of products and services to our customers

Data Aire is a member of the C/S Group of Companies specializing in unique architectural products. The C/S Group of Companies, a private corporation, has been in business since 1949.

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Data Temp

- Front Access
- 2, 3,4 and 5 ton
- Air, Water/Glycol Cooled
- Chilled Water

R-407C



DATA TEMP SERIES

Data Temp Series units are precision environmental control systems that bring a standard of reliable performance required by today's market demands. Small to midsize data centers, telecommunication sites, or where access and/or floor space is limited, Data Temp units can meet these demands. Data Temp process cooling systems are available in 2, 3, 4, and 5 ton nominal capacities with upflow or downflow air distribution in air cooled, water/glycol cooled, or chilled water models. Each Data Temp unit is factory run tested and put through a vigorous quality control procedure.

<u>COMFORT</u>

Computer rooms and other mission critical spaces require air that is clean and properly distributed, with precisely controlled temperature and humidity. Building or "people comfort" systems are not designed to meet these demands. Data Temp systems are designed to satisfy these goals.

<u>DESIGN</u>

Data Temp systems feature a specially designed compact tubular steel frame which allows for minimum space requirement of air conditioning equipment in the controlled area. Although compact, all parts are easily accessible providing excellent serviceability. Units are finished with a furnituregrade insulated steel cabinet painted in your choice of color.

<u>CONTROL</u>

The heart of the Data Temp system is the *Data Alarm Processor*, a microprocessor based controller designed for precision environmental control. The **dap4** not only controls and monitors temperature, humidity, airflow, and cleanliness, it provides component runtimes, alarm history, and automatic self-tests. All information is provided on a 2 row, 80 character, backlit liquid crystal display.

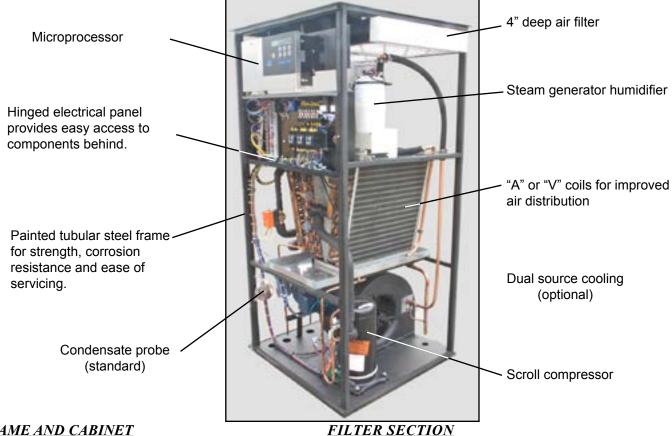
HIGH PERFORMANCE

Engineered for high performance and reliability, each Data Temp unit comes with Data Aire's commitment to excellence. This commitment began with Data Aire's first process cooling unit and has continued for more than 40 years of building the industry's finest precision control equipment.

DATA AIRE DELIVERS

Standard ship cycle is 30 days from date of order. With the optional premium "*quick ship*" program, units can be expedited to ship in as little as one week. All units are built to your specific order. Call your nearest Data Aire representative for more information or visit us on line at **www.dataaire.com**.

DESIGN FEATURES



FRAME AND CABINET

Units are provided with 4 inch deep MERV 8 air filters.

The heliarc welded tubular steel frame provides for maximum strength and ease of access. Side and front panels can be easily opened and removed with quarter-turn fasteners allowing full access to all unit components. All panels include one inch thick, 1-1/2 pound density insulation for protection and sound attenuation.

COIL SECTION

Designed for draw through application, the computer selected coil offers greater efficiency in the cooling and dehumidification process. Air bypass is provided to prevent saturated air from being introduced into the controlled space. The coil section is provided with a stainless steel drain pan.

FAN SECTION

The centrifugal, forward curved, double width, double inlet blower configuration is engineered for quiet reliable operation. The belt driven variable pitch drive section provides adjustable airflow capability to match load requirements of the controlled space. The draw through design ensures even air distribution across the coil and bypass, low internal cabinet losses, and static sealing of the filter section. Motor is mounted on an adjustable slide base and has internal overload protection.

ELECTRIC REHEAT

Low-watt density finned tubular sheathed coils provide ample capacity to maintain room dry bulb conditions during a call for dehumidification. Low-watt density coils eliminate ionization associated with open air electric resistance heating. Three stages of reheat are standard.

HUMIDIFICATION

Data Temp units include an electric steam generator humidifier with a "quick change" disposable cylinder and an auto-flush cycle. The steam generator humidifier with its patented control system optimizes cylinder life and energy efficiency by concentrating incoming water to a predetermined conductivity much higher than that of the entering water. The control system continuously monitors the conductivity in the cylinder through its electronics which allows water to be flushed as often as is necessary to maintain the capacity at this design conductivity. The high design conductivity results in a minimum flushing of heated water, thereby saving energy. The humidifier is designed to allow units at any voltage to produce full rated steam output at an optimum water level based on the design conductivity.

COMPRESSORIZED SYSTEMS

The single stage refrigeration circuit includes a hermetic scroll type compressor. These durable, heavy duty, fully welded compressors have no gaskets or seals, eliminating the possibility of refrigerant or oil leaking into the controlled space or environment. Scroll compressors also bring a combination of reliability, efficiency, and improved system sound performance. The refrigeration circuit includes built-in compressor overload protection, crankcase heater, filter drier, sight-glass, adjustable expansion valve with external equalizer, low pressure override timer (air cooled units), manual reset high pressure control, and compressor short cycle timer.

Water/glycol cooled units include a counterflow plate-fin condenser sized to provide the required capacity for heat rejection with minimum water/glycol flow and low total pressure drop. Head pressure regulating valves control the condensing temperature and maintain required capacity at various water/ glycol flow rates and temperatures.

Air Cooled with Remote Outdoor Condenser -

A wide range of outdoor condensers are available. Condensers are manufactured by Data Aire and sized to meet the heat rejection and ambient conditions as required. The industrial duty design includes aluminum corrosion resistant housing, aluminum finned copper tube coils, coated fan guards, energy efficient thermally protected direct drive motors, and variable fan speed control on lead fan motor for proper control down to -20° F. Additional fan motors are controlled with ambient thermostats.

Air Cooled with Indoor Condenser -

A wide range of floor mounted indoor condensers with horizontal intake and discharge are available for applications where an outdoor condenser cannot be used. Units include a forward curved, double width, double inlet blower engineered for quiet, reliable operation. The belt driven variable pitch drive provides adjustable air flow. Indoor condensers are provided with a factory mounted and piped receiver. The receiver has a head pressure control valve to maintain flooded condenser control.

Air Cooled with Outdoor Condensing Unit -

Data Temp units are also available with remote outdoor condensing units. The condensing unit includes a hermetic scroll compressor with built-in overload protection, crankcase heater, filter drier, sight-glass, and condenser coil. The coil is constructed with copper tubes and aluminum fins. The housing is aluminum with vertical air discharge. The condenser fan is a variable speed type for head pressure control down to -20° F.

Water/Glycol Cooled with Remote Outdoor Dry Cooler - Remote outdoor dry coolers are available in a variety of sizes. Each dry cooler includes aluminum corrosion resistant housing, aluminum finned copper tube coil, coated fan guards, surge tank, pump contactor, and energy efficient thermally protected direct drive motors. Fan cycling is controlled by water sensing thermostats on dry coolers with more than one fan.

CHILLED WATER SYSTEMS

Chilled water systems include all the same features of the Data Temp product line. Designed for draw through application, the computer selected coil offers greater efficiency in the cooling and dehumidification process. Air bypass is provided to prevent saturated air from being introduced into the controlled space. Chilled water flow is controlled by a 3-way modulating valve for accurate and economical temperature control and dehumidification.

SYSTEM CONTROL

Every Data Temp unit come equipped with a dapTM 4 control system, which is the fastest and most advance microprocessor controller available on the market today. The system is comprised of two components – a display module and a control module. The display module includes a backlit liquid crystal display and six buttons for easy programming and communication. All programming, status and alarm conditions are displayed on the module in easy to read verbiage. The control module is mounted inside the unit and connected to the display module via a special "telephone" like cable.

The display module will allow recall and display of the high and low temperature and high and low humidity for the last 24 hours; current percent of capacity and average percent of capacity for the last hour of operation for cool 1, cool 2, reheat, humidification, dehumidification, component runtimes for fan motor(s), cooling stages, reheat, humidification, dehumidification and chilled water valve. Programming will have multilevel password and accomplished entirely from the front of the unit. Programmable functions shall be entered on flash memory to ensure program retention should power fail. The historical database shall be maintained by rechargeable battery backup. Multiple messages shall be displayed by automatically by scrolling from each message to the next. Alarm conditions shall be displayed by automatically scrolling from each message to the next. Alarm conditions, in addition to being displayed, shall enunciate an audible alarm. Four programmable summary contacts shall be available for remote alarm monitoring. Additional test or service terminal shall not be required for any functions. The control shall include temperature anticipation, moisture level humidity control and automatic flush cycles.

An alarm condition shall continue to be displayed until the malfunction is corrected. Multiple alarms shall be displayed sequentially in order of occurrence and only those alarms, which have not been acknowledged, shall continue to sound an audible alarm. The dap4 panel shall perform an automatic self-test on system start-up. A user accessible diagnostic program shall aid in system component trouble shooting by displaying on the unit LCD screen the name of the controlled item, output relay number, terminal plug and pin number for each controlled item.

Automatic Control Functions

Humidity Anticipation	Auxiliary Chilled Water Operation*			
Start Time Delay	Automatic Reheat Element Rotation			
Temperature Anticipation	Energy Saver (Glycol Operation)*			
Dehumidification Lockout	Chilled Water Coil Flush Cycle*			
Selectable Water Under Floor Alarm Action				

Sequential Load Activation Automatic or Manual Restart Hot Water Coil Flush Cycle* Energy Saver Coil Flush Cycle* Compressor Short Cycle

Condition and Data Routinely Displayed

Current Date and TimeUnit StatusHumidity SetpointCurrent TemperatureCurrent HumidityDehumidificationCurrent Fan Speed*Reheat 1, 2, 3CurrentCurrent Chilled Water Valve PositionCurrent Percent of Capacity Utilized

Temperature Setpoint Cooling 1, 2, 3, 4* Humidification Discharge Temperature*

Switching and Control functions

System On/Off/Esc Button	Menu Selection Buttons	Menu Exit Button		
Select Buttons	Alarm Silence Button	Program Set Button		
Manual Override for:				
Cool 1, Cool 2, Heat 1, Humidification, CW Valve and Fan Speed				

High Temperature Warning Low Temperature Warning Low Pressure Compressor 1 High Pressure Compressor 1 Dirty Filter Firestat Tripped Temperature Sensor Error No Water Flow* Fan Motor Overload*

Equipment Runtimes for:

<u>Alarms</u>

High Humidity Warning Low Humidity Warning Low Pressure Compressor 2 High Pressure Compressor 2 Under Floor Water Detection Compressor Short Cycle Humidity Sensor Error Smoke Detector* Standby Pump On* Local Alarm Manual Override Humidifier Problem Custom Message* Power Failure Restart Maintenance Required Discharge Sensor Error* High Condensate Water Level* Person to Contact on Alarm*

<u>Historical Data</u>

High Temperature Last 24 Hours	Low Temperature Last 24 Hours	High Humidity Last 24 Hours
Low Humidity Last 24 Hours	Alarm History (Last 100 Alarms)	Hourly Average of Duty

Blower, Compressor 1, Compressor 2, Reheat 1, 2, 3, Dehumidification, Energy Saver*, Humidifier, Condenser and Chilled Water

Programmable Functions

Temperature Setpoint	Temperature Deadband	Fan Control Mode		
System Start Delay	Low Temperature Alarm Limit	Humidity Deadband		
Humidity Setpoint	High Humidity Alarm Limit	Low Humidity Alarm Limit		
Define Password	Reset Equipment Runtimes	Audio Alarm Mode		
Reverse Acting Water Valve	Compressor Short Cycle Alarm	Humidity Anticipation		
Compressors(s)	Analog Module Sensor Setup*	Calibrate Temperature Sensor		
Temperature Scale	High Temperature Alarm Limit	Fan Speed Settings		
Water Valve Voltage Range	Delay for Optional Alarm 1, 2, 3, 4	Firestat Temperature Alarm Limit		
Manual Diagnosis	Remote Alarm 1, 2, 3, 4 Selection	Calibrate Discharge Air Sensor*		
Person to contact on Alarm	Compressor Lead/Lag Sequence	Dehumidification Mode		
Humidifier Autoflush Timer*	Power Problem or Restart Mode	Scheduled Normal Maintenance		
Reheat Stages	Water Valve Mode	Calibrate Humidity		
Humidifier	Compressor Supplements to Energy Sa	ver*		
Network Protocol	Low Discharge Temperature Alarm Limit*			
Calibrate Chilled Water Temperature S	ensor*			

In addition, the dap4 control panel shall support the following network protocols for integration with a Building Management System (BMS) for Computer Room Air Conditioning (CRAC) system monitoring and control: Modbus RTU, TCP/IP, SNMP V1

or V2, BACnet IP or MS/TP and LonTalk SNVT. Building Management System Interface: Unit(s) shall be furnished with an optional interface card to communicate directly with the Building Automation System (BAS) through a RS-485, Ethernet or LonTalk port. All alarms, set points, and operating param-

* Some of the programmable selections, displays or alarms may require additional components or sensors

eters that are accessible from the unit mounted control panel shall also be made available through the BAS.

OPTIONS

Energy Saver Coil - The Data Aire *Energy Saver Coil* is built into the system to provide total required capacity. Whenever the incoming water/glycol temperature is below 45° F/7.2° C, *Energy Saver* cooling is available. *Energy Saver* mode operates in the following range: Return air setpoint plus deadband plus two degrees. The *Energy Saver* will operate providing there is a need for cooling. The valve will open at setpoint plus deadband. The valve will modulate as long as the space is between setpoint plus deadband plus 2 degrees. If the temperature falls below the deadband minus setpoint, the valve will close and the space is considered satisfied. While still in *Energy Saver* with the valve modulating, if the temperature goes beyond setpoint plus deadband plus 2 degrees the *Energy Saver* valve will close and DX cooling will begin.

The *Energy Saver Coil* includes the next size motor, 3-way pressure control valve on condenser water circuit, and a 3-way valve on the Energy Saver coil. Common piping for coil and condenser is provided.

Energy Saver/Compressor Supplement - Units with the Energy Saver Coil can be provided with compressor supplement if the Energy Saver is not sufficient as a stand alone system. When the incoming water/glycol temperature is below the setpoint of the water changeover thermostat, the Energy Saver mode is enabled (even if there is no call for cooling). Upon a call for cooling (setpoint plus deadband), the valve will open proportionally - 10% for each 0.1° above setpoint plus deadband plus 1.0° (the valve is 100% open at this point). The compressor will go off at setpoint plus deadband plus 0.7°. The valve will close proportionally - 10% for each 0.1° below setpoint plus deadband. An air discharge sensor is factory installed.

Auxiliary Chilled Water Coil - Where an existing chilled water loop is available, units can be fitted with an auxiliary chilled water coil. Units will operate using the chilled water for cooling. Upon a loss of water flow or an increase in room temperature the system will bring on compressor (DX) cooling. The *Auxiliary Chilled Water Coil* includes the next size motor. Separate piping is provided for the chilled water coil and refrigeration connections.

Auxiliary Chilled Water Coil/Compressor Supplement - The Auxiliary Chilled Water Coil can be provided with compressor supplement for extended savings by allowing the compressor to supplement operation as needed when the chilled water is not sufficient on a stand alone basis. An discharge air sensor is factory installed. (See Energy Saver/Compressor Supplement for details).

Remote Temperature and Humidity Sensors - Temperature and humidity sensors may be ordered for remote wall mounting in lieu of the standard return air sensors. Sensors are provided in a wall mounted plastic case for remote sensing of temperature and humidity. 25 feet of shielded cable is provided for field wiring.

Smoke Detector - A unit mounted smoke detector will shut down the unit if smoke is sensed. The microprocessor will sound an alarm and display a "SMOKE DETECTED" message. The smoke detector is mounted in the return air stream and is provided with auxiliary contacts.

Next Size Larger Motor - Should your installation require additional airflow or increased static pressure you can order a larger motor to meet these requirements.

Hot Water Reheat - Where hot water is available, a unit installed reheat coil can use hot water reheat. The coil is designed for 150 psi maximum water pressure and includes a 2-way valve (a 3-way valve is optional).

Hot Gas Reheat - Unit hot gas discharge is used for reheat and maximum system efficiency.

(*Note:* Units with *Hot Gas Bypass* option are not available with hot gas reheat).

Steam Reheat - When your building already has steam lines this option may be a more beneficial way of providing reheat to your unit. When selected the unit comes with a steam coil and 2-way valve, replacing the standard electric reheat.

Compressor Rotalock Valves - These valves facilitate servicing and permit the changing of compressor without the complete loss of refrigerant.

Unit Mounted Disconnect - A unit mounted nonautomatic disconnect switch is installed in the high voltage electrical section. The operating mechanism allows access to the high voltage electrical components when switched to the "OFF" position. The operating mechanism (handle) protrudes through the decorative door.

Hot Gas Bypass - A hot gas bypass valve is available for applications that create low suction pressure conditions that could lead to coil freeze and/or compressor cycling. In facilities such conditions generally exist in instances where; 1) a unit's dehumidification mode needs to run for extended period of time; or

2) a room is designed for low entering air conditions; or 3) a unit is utilizing an oversized condenser at low outdoor ambient conditions.

When the system suction pressure is high enough it will maintain pressure on the leaving side of the hot gas bypass valve to keep the valve port closed. Should the suction pressure decrease below the desired setting, the pressure from the suction line forces the diaphragm, which off-sets the spring pressure, allowing the spring to push the valve open. The opening of this valve allows some hot gas to mix with the refrigerant in the suction line raising the evaporator pressure. This increases the suction pressure in the system back to the desired setting. The hot gas bypass can be manually adjusted within a certain range to fine tune the unit to a desired suction pressure in the field.

3-Way Water Regulating Valve - 3-way water regulating valve for pressure control may be ordered to replace standard 2-way valve installed in water/glycol unit. 3-way valves provide control of condensing temperature maintaining constant system capacity and condenser water flow.

Condensate Pump - Condensate pumps may be ordered as factory installed or for field installation. Condensate pumps are complete with sump, motor, and automatic control. The pumps are rated for 130 GPH at 20 foot maximum or 40 GPH at 20 feet with check valve. Pumps shipped loose are available in 115, 230, or 460 volt.

Upflow Plenum - Upflow plenums are fully insulated with front discharge air grille. Side grilles for both or one side are available. Standard plenums are 18 inches high and are painted to match the unit color.

Floorstand - Floorstands are adjustable -1/+3 inches and are available with a factory installed turning vane or with seismic construction.

Seismic Bases - When required you can order 12" to 24" seismic bases for your unit.

Vibration Isolation Pads - Ribbed neoprene cork filled pads installed between either the evaporator or condenser unit and the floor. These pads minimize the vibrations created with the operation of the unit resulting in quieter operation

Compressor Sound Jackets - Should you have a concern

about the noise generated by the compressor one way to minimize the noise is by using this option. Jackets are shipped loose and must be installed in the field.

Extended Compressor Warranties - Data Aire offers either a two year or a four year extended compressor warranty in addition to the standard three parts parts warranty. These extended warranties cover parts only - not labor.

Site Monitoring Devices

DARA-4 - Data Aire Relay Auto Changeover controller allows for unit rotation and backup capabilities while interfacing via a summary alarm with BMS systems. This economical controller manages up to four Data Aire units.

AIR COOLED: Performance data at STANDARD AIRFLOW with remote air cooled condenser

MODEL NUMBER	DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
CAPACITY in Btu/hr - gross				
80° DB/67° WB Total 50% RH Sensible	24,900 19,800	37,000 29,200	52,000 40,200	62,500 48,600
75° DB/62.5° WB Total 50% RH Sensible	23,100 19,100	34,300 28,200	48,400 39,000	57,900 47,000
75° DB/61° WBTotal45% RHSensible	22,500 20,500	33,300 30,100	47,000 41,600	56,400 50,300
72° DB/60° WBTotal50% RHSensible	21,900 18,700	32,600 27,600	46,300 38,300	55,200 46,000
72° DB/58.6° WB Total 45% RH Sensible	21,500 20,000	31,900 29,400	44,900 40,600	53,800 49,000
BLOWER SECTION				
Airflow - CFM Standard motor - horsepower External static pressure (E.S.P.) - inches of W.G Number of motors/fans	800 1/2 0.5 1/1	1,200 3/4 0.5 1/1	1,600 1 0.5 1/1	2,000 1 1/2 0.5 1/1
Maximum E.S.P. (Standard Motor)	0.8	0.7	1.0	1.0
Minimum E.S.P. (Next Size Motor)	0.8	1.0	1.2	1.2
Next size motor - horsepower	3/4	1	1 1/2	2
COMPRESSORS				
Туре	Scroll	Scroll	Scroll	Scroll
Quantity Refrigerant	1 R-407C	1 R-407C	1 R-407C	1 R-407C
EVAPORATOR COIL				
Face area - sq ft Rows of coils Face velocity - fpm	4.2 3 190	4.2 3 286	6.25 4 256	6.25 4 320
REHEAT SECTION				
Electric kW	Standard 6	Standard	Standard 12	Standard
Capacity - Btu/hr	20,490	20,490	40,980	40,980
HUMIDIFIER SECTION				
Steam generator kW	Standard 3.4	Standard 3.4	Standard 3.4	Standard 3.4
Capacity - lb/hr	10	10	10	10

AIR COOLED: Performance data at STANDARD airflow with remote air cooled condenser

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
FILTER SECTIO	N				
U Efficiency - MERV	Downflow Ipflow Dased on ASHRAE Std. 52	2 16x25x4 16x20x4 8 .2)	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8
CONNECTION S	IZES				
Liquid line - O.D. Copp Hot gas line - O.D. Cop Condensate drain Humidifier supply (Note: Refer to Operati		1/2 1/2 3/4 1/4 recommended pipe sizing betw	1/2 1/2 3/4 1/4 ween indoor/outdoor sect	1/2 1/2 3/4 1/4	1/2 1/2 3/4 1/4
ELECTRICAL SE	ECTION	Standard Motor			
Electrical data based on	STANDARD unit, electric	e reheat - <u>YES</u> , steam ge	nerator humidifier -	YES, and STANDA	ARD MOTOR.
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	44/54/60 26/32/35 12/15/20 N/A	50/61/70 30/37/40 14/17/20 N/A	83/103/110 52/64/70 24/30/35 19/23/25	95/117/125 55/68/70 26/32/35 21/26/30
Electrical data based on	: electric reheat - NO, ste	am generator humidifier	-YES, and STANE	DARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	31/38/45 26/32/35 12/15/20 N/A	38/46/50 30/36/40 14/17/20 N/A	42/51/60 35/42/50 16/20/25 12/15/20	54/65/90 38/47/60 18/22/25 15/18/20
Electrical data based on	: electric reheat - YES, sto	eam generator humidifie	er - <u>NO</u> , and STAN	DARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	44/54/60 26/32/35 12/15/20 N/A	50/61/70 30/37/40 14/17/20 N/A	83/103/110 52/64/70 24/30/35 19/23/25	95/117/125 55/68/70 26/32/35 21/26/30
Electrical data based on	: electric reheat - NO, stea	am generator humidifier	<u>- NO, and STAND</u>	ARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	15/18/25 10/11/15 4.6/5.5/15 N/A	21/25/40 13/16/25 6.6/7.9/15 N/A	26/30/50 18/22/35 8.9/11/15 6.5/7.88/15	38/45/70 22/26/40 11/13/20 9.1/11/15
STANDARD MOT	FOR	FLA - Full load amps			
Horsepower		1/2	3/4	1	1 1/2
208-230/1/60 208-230/3/60 460/3/60 575/3/60		3.4 2.2 1.1 N/A	5.3 3.0 1.6 N/A	6.8 3.6 1.8 1.4	8.8 4.8 2.4 2.0

AIR COOLED: Performance data at STANDARD airflow with remote air cooled condenser

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05		
ELECTRICAL SI	ECTION	Next Size Motor					
Electrical data based on	Electrical data based on: electric reheat - YES, steam generator humidifier - YES, and NEXT SIZE MOTOR.						
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30		
Electrical data based on	Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and NEXT SIZE MOTOR.						
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	33/39/45 26/32/35 12/15/20 N/A	39/47/50 30/37/40 14/17/20 N/A	44/53/60 36/44/50 17/21/25 13/16/20	56/67/90 40/48/60 19/23/25 16/19/20		
Electrical data based on	n: electric reheat - YE	S, steam generator humidifi	er - <u>NO</u> , and NEXT	SIZE MOTOR.			
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30		
Electrical data based on	: electric reheat -NO,	steam generator humidifier	- <u>NO</u> , and NEXT S	SIZE MOTOR.			
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	16/19/30 10/12/15 5.0/5.9/15 N/A	22/26/40 14/17/25 6.9/8.2/15 N/A	28/33/50 20/23/35 10/11/15 7.1/8.4/15	39/47/70 24/28/45 11/13/20 9.6/11/15		
NEXT SIZE MOT	TOR	FLA - Full load amps					
Horsepower		3/4	1	1 1/2	2		
208-230/1/60 208-230/3/60 460/3/60 575/3/60		5.3 3.0 1.5 N/A	6.8 3.6 1.8 N/A	8.8 4.8 2.4 2.0	9.3 6.0 3.0 2.5		
COMPRESSOR		FLA - Full load amps					
Nominal tons		2	3	4	5		
208-230/1/60 208-230/3/60 460/3/60 575/3/60		10.9 7.1 3.5 N/A	16.0 10.3 5.1 N/A	19.2 14.7 7.1 5.8	28.8 17.3 8.2 7.1		
CONDENSER		Remote air cooled outdo	oor				
Condenser selection at	95° F ambient	DARC-03	DARC-03	DARC-05	DARC-05		
Condenser selection at	100° F ambient	DARC-03	DARC-03	DARC-05	DARC-07		
Condenser selection at	105° F ambient	DARC-03	DARC-05	DARC-07	DARC-07		

(Note: Condensers are not available in 575 volts. Condensers are selected at sea level.)

AIR COOLED: Performance data at OPTIONAL airflow with remote air cooled condenser

MODEL NUMBER	2	DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
CAPACITY in	Btu/hr - gross				
80° DB/67° WB 50% RH	Total Sensible	25,800 22,600	38,100 33,100	54,000 45,900	64,700 55,300
75° DB/62.5° WB 50% RH	Total Sensible	23,900 21,700	35,300 31,900	50,100 44,200	60,100 53,300
75° DB/61° WB 45% RH	Total Sensible	23,100 22,800	34,400 33,800	48,600 47,200	58,200 56,800
72° DB/60° WB 50% RH	Total Sensible	22,700 21,200	33,700 31,200	47,800 43,200	57,300 52,100
72° DB/58.6° WB 45% RH	Total Sensible	22,100 21,900	32,800 32,500	46,500 45,800	55,700 54,900
BLOWER SEC	CTION				
Airflow - CFM Standard motor - ho External static press Number of motors/f	ure (E.S.P.) - inches of W.G.	1,000 3/4 0.5 1/1	1,500 1 0.5 1/1	2,000 1 1/2 0.5 1/1	2,500 2 0.5 1/1
Maximum E.S.P.	(Standard Motor)	0.8	0.7	1.0	1.2
Maximum E.S.P.	(Next Size Motor)	1.0	1.0	1.2	N/A
Next size motor - ho	orsepower	1	1 1/2	2	N/A
COMPRESSO	RS				
Туре		Scroll	Scroll	Scroll	Scroll
Quantity Refrigerant		1 R-407C	1 R-407C	1 R-407C	1 R-407C
EVAPORATO	R COIL				
Face area - sq ft Rows of coils Face velocity - fpm		4.2 3 238	4.2 3 357	6.25 4 320	6.25 4 400
REHEAT SEC	TION				
Electric kW		Standard 6	Standard 6	Standard 12	Standard 12
Capacity - Btu/	hr	20,490	20,490	40,980	40,980
HUMIDIFIER	SECTION				
Stream generator kW		Standard 3.4	Standard 3.4	Standard 3.4	Standard 3.4
Capacity - lb/hr		10	10	10	10

AIR COOLED: Performance Data at OPTIONAL airflow with remote air cooled condenser

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
FILTER SECTIO	N				
Quantity Size - inches Efficiency - MERV (Note: Efficiency	Downflow Upflow based on ASHRAE Std. 5	2 16x25x4 16x20x4 8 2.2)	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8
CONNECTION S	SIZES				
	pper		1/2 1/2 3/4 1/4 etween indoor/outdoor sec	1/2 1/2 3/4 1/4	1/2 1/2 3/4 1/4
ELECTRICAL S	ECTION	Standard Motor			
Electrical data based on	STANDARD unit: electr	ic reheat - YES, steam g	enerator humidifier -	YES, and STANDA	ARD MOTOR.
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30
Electrical data based on	n: electric reheat - <u>NO</u> , st	eam generator humidifie	er YES, and STANI	DARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	32/39/45 26/32/35 12/15/20 N/A	39/47/50 30/37/40 14/17/20 N/A	44/53/60 36/44/50 17/21/25 13/16/20	56/67/90 40/48/60 19/23/25 16/19/20
Electrical data based on	n: electric reheat - YES, s	steam generator humidif	ier - NO , and STANI	DARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30
Electrical data based on	n: electric reheat - <u>NO</u> , st	eam generator humidifie	er - <u>NO</u> and STAND	ARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	16/19/30 10/12/15 5.0/5.9/15 N/A	22/26/40 14/17/25 6.9/8.2/15 N/A	28/33/50 20/23/35 9.5/11/15 7.1/8.4/15	39/47/70 24/28/45 11/13/20 10/11/15
STANDARD MO	TOR	FLA - full load amps			
Horsepower		3/4	1	1 1/2	2
208-230/1/60 208-230/3/60 460/3/60 575/3/60		5.3 3.0 1.5 N/A	6.4 3.6 1.8 N/A	8.8 4.8 2.4 2.0	10.5 6.2 3.1 2.5

AIR COOLED: Performance data at OPTIONAL airflow with remote air cooled condenser

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05			
ELECTRICAL SI	ECTION	Next Size Motor						
Electrical data based on	Electrical data based on: electric reheat -YES, steam generator humidifier - YES, and NEXT SIZE MOTOR.							
208-230/1/60	FLA/MCA/MOP	46/56/60	54/65/70	87/107/110	N/A			
208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP	27/33/35 13/16/20	32/39/45 15/18/20	54/66/70 25/31/35	N/A N/A			
575/3/60	FLA/MCA/MOP	N/A	N/A	20/24/25	N/A			
Electrical data based on	a: electric reheat - NO, s	steam generator humidifie	r - <u>YES,</u> and NEXT	SIZE MOTOR.				
208-230/1/60	FLA/MCA/MOP	34/41/45	41/49/60	46/55/70	N/A			
208-230/3/60	FLA/MCA/MOP	27/33/35	31/38/40	37/45/50	N/A			
460/3/60	FLA/MCA/MOP	13/15/20	15/18/20	18/21/25	N/A			
575/3/60	FLA/MCA/MOP	N/A	N/A	14/16/20	N/A			
Electrical data based on	n: electric reheat - YES,	steam generator humidifi	er - <u>NO</u> , and NEXT	SIZE MOTOR.				
208-230/1/60	FLA/MCA/MOP	46/56/60	54/65/70	87/107/110	N/A			
208-230/3/60	FLA/MCA/MOP	27/33/35	32/39/45	54/66/70	N/A			
460/3/60	FLA/MCA/MOP	13/16/20	15/18/20	25/31/35	N/A			
575/3/60	FLA/MCA/MOP	N/A	N/A	20/24/25	N/A			
Electrical data based on	n: electric reheat - NO, s	steam generator humidifie	r - <u>NO</u> , and NEXT (SIZE MOTOR.				
208-230/1/60	FLA/MCA/MOP	17/20/30	25/29/45	30/35/50	N/A			
208-230/3/60	FLA/MCA/MOP	11/13/20	15/18/25	21/25/35	N/A			
460/3/60	FLA/MCA/MOP	5.3/6.2/15	7.5/8.8/15	10/12/15	N/A			
575/3/60	FLA/MCA/MOP	N/A	N/A	7.6/8.9/15	N/A			
NEXT SIZE MOT	TOR	FLA - full load amps						
Hannan		· ·	1 1/2	2	NT/A			
Horsepower		1	1 1/2	2	N/A			
208-230/1/60		6.4	8.8	11.0	N/A			
208-230/3/60		3.6	4.8	6.2	N/A			
460/3/60		1.8 N/A	2.4 N/A	3.1 2.5	N/A N/A			
575/3/60		N/A	IN/A	2.5	IN/A			
COMPRESSOR		FLA - full load amps						
Nominal tons		2	3	4	N/A			
208-230/1/60		11.0	16.0	19.0	N/A			
208-230/3/60		7.1	10.3	15.0	N/A			
460/3/60		3.5	5.1	7.1	N/A			
575/3/60		N/A	N/A	5.1	N/A			
CONDENSER		FLA - full load amps						
Condenser selection at	95° F ambient	DARC-03	DARC-03	DARC-05	DARC-05			
Condenser selection at		DARC-03	DARC-03	DARC-05	DARC-07			
Condenser selection at		DARC-03	DARC-05	DARC-07	DARC-07			
		DARC-03 ndensers are selected at sea leve		DARC-0/	DARC-0/			

MODEL NUMBER	DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
CAPACITY in Btu/hr - gross				
80° DB/67° WBTotal50% RHSensible	24,900 19,800	37,000 29,200	52,000 40,200	62,500 48,600
75° DB/62.5° WB Total 50% RH Sensible	23,100 19,100	34,300 28,200	48,400 39,000	57,900 47,000
75° DB/61° WB Total 45% RH Sensible	22,500 20,500	33,300 30,100	47,000 41,600	56,400 50,300
72° DB/60° WBTotal50% RHSensible	21,900 18,700	32,600 27,600	46,300 38,300	55,200 46,000
72° DB/58.6° WB Total 45% RH Sensible	21,500 20,000	31,900 29,400	44,900 40,600	53,800 49,000
BLOWER SECTION				
Airflow - CFM Standard motor - horsepower External static pressure (E.S.P.) - inches of W.G. Number of motors/fans	800 1/2 0.5 1/1	1,200 3/4 0.5 1/1	1,600 1 0.5 1/1	2,000 1 1/2 0.5 1/1
Maximum E.S.P. (Standard Motor)	0.8	0.7	1.0	1.0
Maximum E.S.P. (Next Size Motor)	0.8	1.0	1.2	1.2
Next size motor	3/4	1	1 1/2	2
COMPRESSOR	in Condensing Unit			
Туре	Scroll	Scroll	Scroll	Scroll
Quantity Refrigerant	1 R-407C	1 R-407C	1 R-407C	1 R-407C
EVAPORATOR COIL				
Face area - sq ft Rows of coils Face velocity - fpm	4.2 3 190	4.2 3 286	4.2 4 256	4.2 4 320
REHEAT SECTION				
Electric kW	Standard 6	Standard	Standard	Standard
capacity - Btu/hr	20,490	20,490	40,980	40,980
HUMIDIFIER SECTION				
Steam generator kW	Standard 3.4	Standard 3.4	Standard 3.4	Standard 3.4
Capacity - lb/hr	5.4 10	5.4 10	5.4 10	5.4 10

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
FILTER SECTION					
U_{I}	ownflow pflow	2 16x25x4 16x20x4	2 16x25x4 16x20x4	2 16x25x4 16x20x4	2 16x25x4 16x20x4
Efficiency - MERV (Note: Efficiency based	on ASHRAE Std. 52.	2) 8	8	8	8
CONNECTION SIZES	8				
Liquid line - O.D. Copper Suction line - O.D. Copper Condensate drain Humidifier supply (Note: Refer to Operation and	l Maintenance manual for r	1/2 3/4 3/4 1/4 vecommended pipe sizing bet	1/2 3/4 3/4 1/4 ween indoor section and	1/2 3/4 3/4 1/4 condensing unit.)	1/2 3/4 3/4 1/4
ELECTRICAL SECTI	ON	Standard Motor			
Electrical data based on STAN	NDARD unit: electric	e reheat - <u>YES</u> , steam g	enerator humidifier -	• YES, and STAND	ARD MOTOR.
208-230/3/60 FI 460/3/60 FI	LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP	33/41/45 19/24/25 8.6/11/15 N/A	34/43/45 20/25/30 9/11/15 N/A	64/80/90 37/46/50 17/21/25 N/A	67/83/90 38/48/50 18/22/25 N/A
Electrical data based on: ele	ctric reheat - <u>NO</u> , stea	m generator humidifie	r - <u>YES</u> , and STANI	DARD MOTOR.	
208-230/3/60 FI 460/3/60 FI	LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP	20/25/30 19/23/25 8.5/11/15 N/A	22/27/30 19/24/25 8.9/11/15 N/A	23/28/30 20/25/30 9.2/12/25 N/A	25/31/35 21/26/30 10/12/15 N/A
Electrical data based on: ele	ctric reheat - YES, ste	am generator humidifi	er - <u>NO</u> , and STANI	DARD MOTOR.	
208-230/3/60 FI 460/3/60 FI	LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP	33/41/45 19/24/25 8.6/11/15 N/A	34/43/45 20/25/30 9/11/15 N/A	64/80/90 37/46/50 17/21/25 N/A	67/83/90 38/48/50 18/22/25 N/A
Electrical data based on: ele	ctric reheat - <u>NO</u> , stea	m generator humidifie	r - <u>NO</u> , and STAND	ARD MOTOR.	
208-230/3/60 FI 460/3/60 FI	LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP	4/5/15 2.2/2.8/15 1.1/1.4/15 N/A	5.3/6.6/15 3.0/3.8/15 1.5/1.9/15 N/A	6.4/8.0/15 3.6/4.5/15 1.8/2.3/15 N/A	8.8/11/20 4.8/6.0/15 2.4/3.0/15 N/A
STANDARD MOTOR	F	LA - Full load amps			
Horsepower		1/2	3/4	1	1 1/2
208-230/1/60 208-230/3/60 460/3/60 575/3/60		4.0 2.2 1.1 N/A	5.3 3.0 1.5 N/A	6.4 3.6 1.8 N/A	8.8 4.8 2.4 N/A

FLA - Full load amps

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
ELECTRICAL S	SECTION	Next Size Motor			
Electrical data based o	n: electric reheat- YES,	steam generator humidifie	er YES , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	34/43/45	35/44/45	67/83/90	68/85/90
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	38/48/50	40/49/50
460/3/60	FLA/MCA/MOP	9.3/11/15	9/12/15	18/22/25	18/23/25
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based o	n: electric reheat - NO,	steam generator humidifier	r - <u>YES,</u> and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	22/27/30	23/28/30	25/31/35	27/34/40
208-230/3/60	FLA/MCA/MOP	19/24/25	20/25/30	21/26/30	23/28/30
460/3/60	FLA/MCA/MOP	8.9/11/15	9.2/12/15	9.8/12/15	11/13/15
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based o	n: electric reheat - YES	, steam generator humidifie	er - <u>NO</u> , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	34/43/45	35/44/45	67/83/90	68/85/90
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	38/48/50	40/49/50
460/3/60	FLA/MCA/MOP	9/11/15	9.3/12/15	18/22/25	18/23/25
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based o	n: electric reheat - NO,	steam generator humidifier	r - <u>NO,</u> and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	5.3/6.6/15	6.4/8.0/15	8.8/11/20	11/13/20
208-230/1/60	FLA/MCA/MOP FLA/MCA/MOP	3.0/3.8/15	3.6/4.5/15	4.8/6.0/15	6.2/7.8/15
460/3/60	FLA/MCA/MOP	1.5/1.9/15	1.8/2.3/15	2.4/3.0/15	3.1/3.9/15
575/3/60	FLA/MCA/MOP	N/A	N/A	2.4/5.0/15 N/A	N/A
NEXT SIZE MO	TOR	FLA - Full load amps			
Horsepower		3/4	1	1 1/2	2
208-230/1/60		5.3	6.4	8.8	10.5
208-230/3/60		3.0	3.6	4.8	6.2
460/3/60		1.5	1.8	2.4	3.1
575/3/60		N/A	N/A	N/A	N/A
COMPRESSOR					
COMPRESSOR		FLA - Full load amps			
Nominal tons		2	3	4	5
208-230/1/60		10.9	16.0	19.2	28.8
208-230/3/60		7.1	10.3	14.7	17.3
460/3/60		3.5	5.1	7.1	8.2
575/3/60		N/A	N/A	N/A	N/A

FLA - Full load amps

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
CONDENSING U	NIT				
Condensing unit at 95° I	F ambient	DRCU-03	DRCU-03	DRCU-05	DRCU-05
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	18/21/30 13/15/20 6.6/7.7/15	20/24/40 15/17/25 7.2/8.5/15	28/34/50 18/21/30 10/11/15	33/40/60 22/26/40 11/13/20
Condensing unit at 100°	F ambient	DRCU-03	DRCU-03	DRCU-05	DRCU-06
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	18/21/30 13/15/20 6.6/7.7/15	20/24/40 15/17/25 7.2/8.5/15	28/34/50 18/21/30 10/11/15	33/40/60 22/26/40 11/13/20
Condensing unit at 105°	F ambient	DRCU-03	DRCU05	DRCU-06	DRCU-07
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	18/21/30 13/15/20 6.6/7.7/15	20/24/40 15/17/25 7.2/8.5/15	28/34/50 18/21/30 10/11/15	33/40/60 22/26/40 11/13/20

Notes: Condensing units are not available in 575 volts.

Condensing units are selected at sea level.

FLA - Full load amps

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
CAPACITY in	Btu/hr - gross				
80° DB/67° WB 50% RH	Total Sensible	25,800 22,600	38,100 33,100	54,000 45,900	64,700 55,300
75° DB/62.5° WB 50% RH	Total Sensible	23,900 21,700	35,300 31,900	50,100 44,200	60,100 53,300
75° DB/61° WB 45% RH	Total Sensible	23,100 22,800	34,400 33,800	48,600 47,200	58,200 56,800
72° DB/60° WB 50% RH	Total Sensible	22,700 21,200	33,700 31,200	47,800 43,200	57,300 52,100
72° DB/58.6° WB 45% RH	Total Sensible	22,100 21,900	32,800 32,500	46,500 45,800	55,700 54,900
BLOWER SEC	TION				
Airflow - CFM Standard motor - hor External static pressu Number of motors/fa	re (E.S.P.) - inches of W.G.	1,000 3/4 0.5 1/1	1,500 1 0.5 1/1	2,000 1 1/2 0.5 1/1	2,500 2 0.5 1/1
Maximum E.S.P.	(Standard Motor)	0.8	0.7	1.0	1.2
Maximum E.S.P.	(Next Size Motor)	1.0	1.0	1.2	N/A
Next size motor		1	1 1/2	2	N/A
COMPRESSO	R	in Condensing Unit			
Type		Scroll	Scroll	Scroll	Scroll
Quantity Refrigerant		1 R-407C	1 R-407C	1 R-407C	1 R-407C
EVAPORATOR	R COIL				
Face area - sq ft		4.2	4.2	6.25	6.25
Rows of coils Face velocity - fpm		3 238	3 357	4 320	$4 \\ 400$
REHEAT SECT	ΓΙΟΝ				
Electric		Standard	Standard	Standard	Standard
kW Capacity - Btu/h	r	6 20,490	6 20,490	12 40,980	12 40,980
HUMIDIFIER	SECTION				
Steam generator		Standard	Standard	Standard	Standard
kW Capacity - lb/hr		3.4 10	3.4 10	3.4 10	3.4 10

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
FILTER SECTION	ON				
Quantity		2	2	2	2
Size - inches	Downflow	16x25x4	16x25x4	16x25x4	16x25x4
Efficiency - MERV (Note: Efficiency	<i>Upflow</i> v based on ASHRAE Std. 52.	16x20x4 8 2)	16x20x4 8	16x20x4 8	16x20x4 8
CONNECTION		,			
Liquid line - O.D. Co	nner	1/2	1/2	1/2	1/2
Suction line - O.D. Co		3/4	3/4	3/4	3/4
Condensate drain	· F F • • •	3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4
(Note: Refer to Opera	ation and Maintenance manual for r	recommended pipe sizing be	tween indoor section and	condensing unit.)	
ELECTRICAL		Standard Motor			
Electrical data based o	n STANDARD unit: electric	reheat - YES, steam g	enerator humidifier -	YES, and STANDA	ARD MOTOR.
209 220/1/60		24/42/45	25/44/45	(7/92/00	69/95/00
208-230/1/60 208-230/3/60	FLA/MCA/MOP FLA/MCA/MOP	34/43/45 20/25/30	35/44/45 20/25/30	67/83/90 38/48/50	68/85/90 40/49/50
460/3/60	FLA/MCA/MOP	9/11/15	9.3/12/15	18/22/25	18/23/25
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based of	on: electric reheat - NO, stea	am generator humidifie	er - <u>YES</u> , and STAN	DARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	22/27/30	23/28/30	25/31/35	27/34/40
208-230/3/60	FLA/MCA/MOP	19/24/25	20/25/30	21/26/30	23/28/30
460/3/60	FLA/MCA/MOP	8.9/11/15	9.2/12/15	10/12/15	11/13/15
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based of	on: electric reheat - YES, ste	eam generator humidifi	ier - <u>NO</u> , and STAN	DARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	34/43/45	35/44/45	67/83/90	68/85/90
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	38/48/50	40/49/50
460/3/60	FLA/MCA/MOP	9/11/15	9.3/12/15	18/22/25	18/23/25
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based of	on: electric reheat - NO, stea	m generator humidifie	er - <u>NO</u> , and STANE	ARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	5.3/6.6/15	6.4/8.0/15	8.8/11/20	11/13/20
208-230/3/60	FLA/MCA/MOP	3.0/3.8/15	3.6/4.5/15	4.8/6.0/15	6.2/7.8/15
460/3/60	FLA/MCA/MOP	1.5/1.9/15	1.8/2.3/15	2.4/3.0/15	3.1/3.9/15
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
STANDARD MO	DTOR				
Horsepower		3/4	1	1 1/2	2
208-230/1/60		5.3	6.4	8.8	10.5
208-230/3/60		3.0	3.6	4.8	6.2
460/3/60		1.5	1.8	2.4	3.1
575/3/60		N/A	N/A	N/A	N/A

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
ELECTRICAL		Next Size Motor			
Electrical data based or	n: electric reheat - YES	steam generator humidifie	er - <u>YES</u> , and NEX	T SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	35/44/45	38/47/50	68/85/90	N/A
208-230/3/60	FLA/MCA/MOP	20/25/30	22/27/30	40/49/50	N/A
460/3/60	FLA/MCA/MOP	9.3/12/15	10/12/15	18/23/25	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based of	n: electric reheat - NO,	steam generator humidifie	r - <u>YES,</u> and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	23/28/30	25/31/35	27/34/40	N/A
208-230/3/60	FLA/MCA/MOP	20/25/30	21/26/30	23/28/30	N/A
460/3/60	FLA/MCA/MOP	9.2/12/15	10/12/15	11/13/15	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based on	n: electric reheat - YES	, steam generator humidifi	er - <u>NO</u> , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	35/44/45	38/47/50	68/85/90	N/A
208-230/3/60	FLA/MCA/MOP	20/25/30	22/27/30	40/49/50	N/A
460/3/60	FLA/MCA/MOP	9.3/12/15	10/12/15	18/23/25	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
Electrical data based on	n: electric reheat - NO,	steam generator humidifie	r - <u>NO</u> , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	6.4/8.0/15	8.8/11/20	11/13/20	N/A
208-230/1/00	FLA/MCA/MOP	3.6/4.5/15	4.8/6.0/15	6.2/7.8/15	N/A N/A
460/3/60	FLA/MCA/MOP	1.8/2.3/15	2.4/3.0/15	3.1/3.9/15	N/A N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A
NEXT SIZE MO	TOR	FLA- Full load amps			
Horsepower		1	1 1/2	2	N/A
208-230/1/60		6.4	8.8	10.5	N/A
208-230/3/60		3.6	4.8	6.2	N/A
460/3/60		1.8	2.4	3.1	N/A
575/3/60		N/A	N/A	N/A	N/A
COMPRESSOR		FLA - Full load amps			
Nominal tons		2	3	4	N/A
208-230/1/60		11.0	16.0	19.2	N/A
208-230/3/60		7.1	10.3	14.7	N/A
460/3/60		3.5	5.1	7.1	N/A
575/3/60		N/A	N/A	N/A	N/A

MODEL NUMBER		DTAD/U-02	DTAD/U-03	DTAD/U-04	DTAD/U-05
CONDENSING U	JNIT				
Condensing unit at 95°	F ambient	DRCU-03	DRCU-03	DRCU-05	DRCU-05
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	18/21/30 13/15/20 6.6/7.7/15	20/24/40 15/17/25 7.2/8.5/15	28/34/50 18/21/30 10/11/15	33/40/60 22/26/40 11/13/20
Condensing unit at 100	9° F ambient	DRCU-03	DRCU-03	DRCU-05	DRCU-06
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	18/21/30 13/15/20 6.6/7.7/15	20/24/40 15/17/25 7.2/8.5/15	28/34/50 18/21/30 10/11/15	33/40/60 22/26/40 11/13/20
Condensing unit at 105	^{5°} F ambient	DRCU-03	DRCU-05	DRCU-06	DRCU-07
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	18/21/30 13/15/20 6.6/7.7/15	20/24/40 15/17/25 7.2/8.5/15	28/34/50 18/21/30 10/11/15	33/40/60 22/26/40 11/13/20

Notes: Condensing units are not available in 575 volts.

Condensing units are selected at sea level.

FLA - Full load amps

MODEL NUMBER:	DTWD/U-02	DTWD/U-03	DTWD/U-04	DTWD/U-05
CAPACITY in Btu/hr - gross				
80° DB/67° WBTotal50% RHSensible	26,000 20,200	40,700 30,600	54,300 41,100	65,200 49,700
75° DB/62.5° WBTotal50% RHSensible	24,100 19,500	37,800 29,600	50,400 39,800	60,500 48,100
75° DB/61° WBTotal45% RHSensible	23,400 20,900	36,600 31,600	49,100 42,500	58,900 51,300
72° DB/60° WBTotal50% RHSensible	22,900 19,100	36,000 29,000	48,100 39,100	57,700 47,100
72° DB/58.6° WBTotal45% RHSensible	22,400 20,400	35,000 30,800	46,900 41,500	56,200 50,100
BLOWER SECTION				
Airflow - CFM Standard motor - horsepower External static pressure (E.S.P.) - inches of W.G. Number of motors/fans	800 1/2 0.5 1/1	1,200 3/4 0.5 1/1	1,600 1 0.5 1/1	2,000 1 1/2 0.5 1/1
Maximum E.S.P. (Standard motor)	0.8	0.7	1.0	1.0
Maximum E.S.P. (Next size motor)	0.8	1.0	1.2	1.2
Next size motor - horsepower	3/4	1	1 1/2	2
COMPRESSORS				
Type Quantity	Scroll	Scroll	Scroll	Scroll
Refrigerant type	R-407C	R-407C	R-407C	l R-407C
EVAPORATOR COIL				
Face area - sq ft Rows of coils Face velocity - fpm	4.2 3 190	4.2 3 286	6.25 4 256	6.25 4 320
REHEAT SECTION				
Electric kW	Standard 6	Standard 6	Standard	Standard 12
Capacity - Btu/hr	20,490	20,490	40,980	40,980
HUMIDIFIER SECTION				
Steam generator kW	Standard 3.4	Standard 3.4	Standard 3.4	Standard 3.4
Capacity - lb/hr	10	10	10	10

MODEL NUMBER:		DTWD/U-02	DTWD/U-03	DTWD/U-04	DTWD/U-05
FILTER SECTION	DN				
Quantity Size - inches	Downflow Upflow	2 16x25x4 16x20x4	2 16x25x4 16x20x4	2 16x25x4 16x20x4	2 16x25x4 16x20x4
Efficiency - MERV (Note: Efficiency	based on ASHRAE Std. 52	8	8	8	8
CONNECTION	SIZES				
Condenser water supp Condenser water return Condensate drain Humidifier supply (Note: Refer to Opera		3/4 3/4 3/4 1/4 piping information between i	3/4 $3/4$ $3/4$ $1/4$ indoor unit and water sou	1 1/8 1 1/8 3/4 1/4	1 1/8 1 1/8 3/4 1/4
ELECTRICAL S	SECTION	Standard Motor			
Electrical data based on	n STANDARD unit: electric	c reheat - <u>YES</u> , steam g	enerator humidifier -	YES, and STAND	ARD MOTOR.
208-230/1/60 208-230/1/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	44/54/60 26/32/35 12/15/20 N/A	50/61/70 30/37/40 14/17/20 N/A	83/103/110 52/64/70 24/30/35 19/23/25	95/117/125 55/68/70 26/32/35 21/26/30
Electrical data based o	n: electric reheat - NO, sto	eam generator humidifi	er - YES, and STAN	NDARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	31/38/45 26/32/35 12/15/20 N/A	38/46/50 30/36/40 14/17/20 N/A	42/51/60 35/42/50 16/20/25 12/15/20	54/65/90 38/47/60 18/22/25 15/18/20
Electrical data based o	n: electric reheat - YES, s	team generator humidit	fier - <u>NO</u> , and STAN	DARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	44/54/60 26/32/35 12/15/20 N/A	50/61/70 30/37/40 14/17/20 N/A	83/103/110 52/64/70 24/30/35 19/23/25	95/117/125 55/68/70 26/32/35 21/26/30
Electric data based on:	electric reheat - NO, stear	n generator humidifier	- NO, and STANDA	ARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	15/18/25 9.3/11/15 4.6/5.5/15 N/A	21/25/40 13/16/25 6.6/7.9/15 N/A	26/30/50 18/22/35 8.9/11/15 6.5/7.8/15	38/45/70 22/26/40 11/13/20 9.1/11/15
STANDARD MC	DTOR	FLA - Full load amps			
Horsepower		1/2	3/4	1	1 1/2
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA FLA FLA FLA	4.0 2.2 1.1 N/A	5.3 3.0 1.5 N/A	6.4 3.6 1.8 1.4	8.8 4.8 2.4 2.0

MODEL NUMBER:		DTWD/U-02	DTWD/U-03	DTWD/U-04	DTWD/U-05
ELECTRICAL SECTION	Nex	xt Size Motor			
Electrical data based on: electric rehe	eat - <u>YES, steam g</u>	generator humidif	fier - YES , and NEX	XT SIZE MOTOR.	
	LA/MCA/MOP	45/55/60	51/63/70	86/105/110	97/119/125
	LA/MCA/MOP	27/33/35	31/37/40	53/65/70	57/70/80
	LA/MCA/MOP	13/15/20	14/18/20	25/30/35	26/32/35
575/3/60 FI	LA/MCA/MOP	N/A	N/A	19/24/25	22/27/30
Electrical data based on: electric rehe	eat - <u>NO</u> , steam g	enerator humidifi	ier - <u>YES</u> , and NEX	<u>KT SIZE MOTOR.</u>	
208-230/1/60 FI	LA/MCA/MOP	33/39/45	39/47/50	44/53/60	56/67/90
	LA/MCA/MOP	26/32/35	30/37/40	36/44/50	40/48/60
460/3/60 FI	LA/MCA/MOP	12/15/20	14/17/20	17/21/25	19/23/25
575/3/60 FI	LA/MCA/MOP	N/A	N/A	13/16/20	16/19/20
Electrical data based on: electric rehe	eat - <u>YES,</u> steam g	generator humidif	fier - <u>NO, and NEX</u>	T SIZE MOTOR.	
208-230/1/60 FI	LA/MCA/MOP	45/55/60	51/63/70	86/105/110	97/119/125
	LA/MCA/MOP	27/33/35	31/37/40	53/65/70	57/70/80
	LA/MCA/MOP	13/15/20	14/18/20	25/30/35	26/32/35
	LA/MCA/MOP	N/A	N/A	19/24/25	22/27/30
Electrical data based on: electric rehe	eat <u>- NO</u> , steam ge	enerator humidifie	er - <u>NO, and NEX</u> T	SIZE MOTOR.	
208-230/1/60 FI	LA/MCA/MOP	16/19/30	22/26/40	28/33/50	39/47/70
	LA/MCA/MOP	10/12/15	14/17/25	20/23/35	24/28/45
	LA/MCA/MOP	5.0/5.9/15	6.9/8.2/15	9.5/11/15	11/13/20
	LA/MCA/MOP	N/A	N/A	7.1/8.4/15	9.6/11/15
NEXT SIZE MOTOR	FLA -	Full load amps			
Horsepower		3/4	1	1 1/2	2
208-230/1/60 FI	LA	5.3	6.4	8.8	10.5
	LA	3.0	3.6	4.8	6.2
	LA	1.5	1.8	2.4	3.1
575/3/60 FI	LA	N/A	N/A	2.0	2.5
COMPRESSOR	FLA -	Full load amps			
Nominal tons		2	3	4	5
208-230/1/60 FI	LA	10.9	16	19.2	28.8
	LA	7.1	10.3	19.2	17.3
	LA	3.5	5.1	7.1	8.2
	LA	N/A	N/A	5.1	7.1
					,

MODEL NUMBER:		DTWD/U-02	DTWD/U-03	DTWD/U-04	DTWD/U-05
CONDENSER WATER					
Requirements	at maximum des	ign water pressure	of 150 psi (high pr	essure optional).	
65° F entering fluid temperature	GPM PD in PSI	2.6 0.9	3.9 1.9	5.2 0.9	6.5 1.2
75° F entering fluid temperature	GPM PD in PSI	4.2 1.6	6.2 5.8	8.3 1.5	10.4 2.5
85° F entering fluid temperature	GPM PD in PSI	6.0 3.2	9.0 7.5	12.0 3.5	15.0 5.0
With fluid cooler	GPM PD in PSI	7.0 4.0	10.5 8.2	14 4.4	17.5 6.5
PUMP SELECTION			At design flow		
Horsepower		3/4	3/4	1	1
Pump electrical data					
208-230/1/60 208-230/3/60 460/3/60	FLA FLA FLA	4.8 2.6 1.3	4.8 2.6 1.3	5.8 3.2 1.6	.8 3.2 1.6

FLA - Full Load Amps

MODEL NUMBER:	DTWD/U-02	DTWD/U-03	DTWD/U-04	DTWD/U-05
CAPACITY in Btu/hr - gross				
80° DB/67° WBTotal50% RHSensible	26,800 22,900	42,200 34,700	56,400 46,700	67,900 56,500
75° DB/62.5° WB Total 50% RH Sensible	24,800 22,100	39,100 33,400	52,400 45,100	62,800 54,400
75° DB/61° WBTotal45% RHSensible	24,200 23,600	38,100 35,900	50,700 48,300	60,700 58,200
72° DB/60° WBTotal50% RHSensible	23,600 21,600	37,200 32,700	49,900 44,100	59,700 53,200
72° DB/58.6° WB Total 45% RH Sensible	23,100 22,800	36,300 35,000	48,600 47,100	58,000 56,700
BLOWER SECTION				
Airflow - CFM Standard motor - horsepower External static pressure (E.S.P.) - inches of W.G. Number motors/fans	1,000 3/4 0.5 1/1	1,500 1 0.5 1/1	2,000 1 1/2 0.5 1/1	2,500 2 0.5 1/1
Maximum E.S.P. (Standard motor)	0.8	0.7	1.0	1.2
Maximum E.S.P. (Next size motor)	1.0	1.0	1.2	N/A
Next size motor - horsepower	1	1 1/2	2	N/A
COMPRESSORS				
Туре	Scroll	Scroll	Scroll	Scroll
Quantity Refrigerant type	1 R-407C	1 R-407C	1 R-407C	l R-407C
EVAPORATOR COIL				
Face area - sq ft . Rows of coils Face velocity FPM	4.2 3 238	4.2 3 357	6.25 4 320	6.25 4 400
REHEAT SECTION				
Electric kW	Standard 6	Standard 6	Standard	Standard
Capacity - Btu/hr	20,490	20,490	40,980	40,980
HUMIDIFIER SECTION				
Steam generator kW	Standard 3.4	Standard 3.4	Standard 3.4	Standard 3.4
Capacity - lb/hr	3.4 10	5.4 10	5.4 10	5.4 10

MODEL NUMBER:		DTWD/U-02	DTWD/U-03	DTWD/U-04	DTWD/U-05
FILTER SECTION	N				
Quantity Size - Inches Efficiency - MERV (Note: Efficiency h	Downflow Upflow ased on ASHRAE Std. 52.	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8
CONNECTION S		_,			
Condenser water supply Condenser water return Condensate drain Humidifier supply	- O.D. Copper	3/4 3/4 3/4 1/4 piping information between	3/4 3/4 3/4 1/4 indoor unit and water sou	1 1/8 1 1/8 3/4 1/4 urce.)	1 1/8 1 1/8 3/4 1/4
ELECTRICAL SE	CTION	Standard Motor			
Electrical data based on	STANDARD unit: electric	reheat - YES, steam ge	enerator humidifier -	YES, and STANI	DARD MOTOR.
208-230/1/60 208-230/1/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30
Electric data based on:	electric reheat - NO, steam	generator humidifier	-YES, and STANDA	ARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	33/39/45 26/32/35 12/15/20 N/A	39/47/50 30/37/40 14/17/20 N/A	44/53/60 36/44/50 17/21/25 13/16/20	56/67/90 40/48/60 19/23/25 16/19/20
Electrical data based on	electric reheat - YES, ster	am generator humidifie	er - <u>NO</u> , and STANI	DARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30
Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.					
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	16/19/30 10/12/15 5.0/5.9/15 N/A	22/26/40 14/17/25 6.9/8.2/15 N/A	28/33/50 20/23/35 10/11/15 7.1/8.4/15	39/47/70 24/28/45 11/13/20 10/11/15
STANDARD MOTOR FLA - Full load amps					
Horsepower		3/4	1	1 1/2	2
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA FLA FLA FLA	5.3 3.0 1.5 N/A	6.4 3.6 1.8 N/A	8.8 4.8 2.4 2.0	10.5 6.2 3.1 2.5

MODEL NUMBER:		DTWD/U-02	DTWD/U-03	DTWD/U-04	DTWD/U-05	
ELECTRICAL SI	ECTION	Next Size Motor				
Electrical data based on: electric reheat - YES, steam generator humidifier - YES, and NEXT SIZE MOTOR.						
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/M FLA/MCA/M FLA/MCA/M FLA/MCA/M	OP 27/33/35 OP 13/16/20	54/65/70 32/39/45 15/18/20 N/A	87/107/110 54/66/70 25/31/35 20/24/25	N/A N/A N/A N/A	
Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and NEXT SIZE MOTOR.						
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/M FLA/MCA/M FLA/MCA/M FLA/MCA/M	OP 27/33/35 OP 13/15/20 OP N/A	41/49/60 31/38/40 15/18/20 N/A	46/55/70 37/45/50 18/21/25 14/16/20	N/A N/A N/A N/A	
		- YES, steam generator humic			NT/A	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/M FLA/MCA/M FLA/MCA/M FLA/MCA/M	OP 27/33/35 OP 13/16/20	54/65/70 32/39/45 15/18/20 N/A	87/107/110 54/66/70 25/31/35 20/24/25	N/A N/A N/A N/A	
Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and NEXT SIZE MOTOR.						
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/M FLA/MCA/M FLA/MCA/M FLA/MCA/M	OP 11/13/20 OP 5.3/6.2/15	25/29/45 15/18/25 7.5/8.8/15 N/A	30/35/50 21/25/35 10/12/15 7.6/8.9/15	N/A N/A N/A N/A	
NEXT SIZE MOT	ΓOR	FLA - Full load amp	S			
Horsepower		1	1 1/2	2	N/A	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA FLA FLA FLA	6.4 3.6 1.8 N/A	8.8 4.8 2.4 N/A	10.5 6.2 3.1 2.5	N/A N/A N/A	
COMPRESSOR		FLA - Full load amps	5			
Nominal tons		2	3	4	N/A	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA FLA FLA FLA	10.9 7.1 3.5 N/A	16.0 10.3 5.1 N/A	219.2 14.7 7.1 5.1	N/A N/A N/A	

MODEL NUMBER:		DTWD/U-02	DTWD/U-03	DTWD/U-04	DTWD/U-05			
CONDENSER WATER								
Requirements a	Requirements at maximum design water pressure of 150 psi (high pressure optional).							
65° F entering fluid temperature	GPM PD in PSI	2.6 0.9	3.9 1.9	5.2 0.9	6.5 1.2			
75° F entering fluid temperature	GPM PD in PSI	4.2 1.6	6.2 5.8	8.3 1.5	10.4 2.5			
85° F entering fluid temperature	GPM PD in PSI	6.0 3.2	9.0 7.5	12.0 3.5	15.0 5.0			
With fluid cooler	GPM PD in PSI	7.0 4.0	10.5 8.2	14.0 4.4	17.5 6.5			
PUMP SELECTION		At design flow						
Horsepower		3/4	3/4	1	1			
PUMP ELECTRICAL DATA								
208-230/1/60 208-230/3/60 460/3/60	FLA FLA FLA	4.8 2.6 1.3	4.8 2.6 1.3	5.8 3.2 1.6	5.8 3.2 1.6			

(Note: Pump selection is based on total available head pressure of 80 feet of water.)

FLA - Full Load Amps

GLYCOL COOLED: Performance data at STANDARD airflow

MODEL NUMBER:	DTGD/U-02	DTGD/U-03	DTGD/U-04	DTGD/U-05
CAPACITY in Btu/hr - gross				
80° DB/67° WBTotal50% RHSensible	24,300 19,600	36,400 28,900	50,700 39,700	61,200 48,100
75° DB/62.5° WB Total 50% RH Sensible	22,500 18,900	33,700 27,900	47,000 38,400	56,800 46,600
75° DB/61° WB Total 45% RH Sensible	21,900 20,200	32,600 29,900	46,100 41,300	55,200 49,800
72° DB/60° WB Total 50% RH Sensible	21,400 18,500	32,000 27,300	44,700 37,600	54,200 45,600
72° DB/58.6° WBTotal45% RHSensible	20,900 19,700	31,100 29,100	44,000 40,200	52,800 48,500
BLOWER SECTION				
Airflow - CFM Standard motor - horsepower External static pressure (E.S.P.) - inches of W.G. Number of motors/fans	800 1/2 0.5 1/1	1,200 3/4 0.5 1/1	1,600 1 0.5 1/1	2,000 1 1/2 0.5 1/1
Maximum E.S.P. (Standard Motor)	0.8	0.7	1.0	1.0
Maximum E.S.P. (Next Size Motor)	0.8	1.0	1.2	1.2
Next size motor - horsepower	3/4	1	1 1/2	2
COMPRESSORS				
Туре	Scroll	Scroll	Scroll	Scroll
Quantity Refrigerant type	1 R-407C	1 R-407C	1 R-407C	1 R-407C
EVAPORATOR COIL				
Face area - sq ft Rows of coils Face velocity - fpm	4.2 3 190	4.2 3 286	6.25 4 256	6.25 4 320
REHEAT SECTION				
Electric kW	Standard 6	Standard 6	Standard 12	Standard 12
Capacity - Btu/hr	20,490	20,490	40,980	40,980
HUMIDIFIER SECTION				
Steam generator kW	Standard 3.4	Standard 3.4	Standard 3.4	Standard 3.4
Capacity - lb/hr	5.4 10	10	5.4 10	3.4 10

GLYCOL COOLED: Performance data at STANDARD airflow

MODEL NUMBER:		DTGD/U-02	DTGD/U-03	DTGD/U-04	DTGD/U-05
FILTER SECTION					
Quantity Size - inches	Downflow Upflow	2 16x25x4 16x20x4	2 16x25x4 16x20x4	2 16x25x4 16x20x4	2 16x25x4 16x20x4
Efficiency - MERV (Note: Efficiency bas	sed on ASHRAE S	8 td. 52.2)	8	8	8
CONNECTION SIZ	ZES				
Condenser water supply - Condenser water return - Condensate drain Humidifier supply (Note: Refer to Operation	O.D. Copper	3/4 3/4 3/4 1/4 ual for piping information betwee	3/4 3/4 3/4 1/4 en indoor unit and dry co	1 1/8 1 1/8 3/4 1/4	1 1/8 1 1/8 3/4 1/4
ELECTRICAL SEC	CTION	Standard Motor			
Electrical data based on S	TANDARD unit: e	lectric reheat - YES, steam	generator humidifie	er - <u>YES</u> , and STANE	ARD MOTOR.
208-230/1/60 208-230/1/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	44/54/60 26/32/35 12/15/20 N/A	50/61/70 30/37/40 14/17/20 N/A	83/103/110 52/64/70 24/30/35 19/23/25	95/117/125 55/68/70 26/32/35 21/26/30
Electrical data based on:	electric reheat - N	O, steam generator humidi	fier - YES, and STA	NDARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	31/38/45 26/32/35 12/15/20 N/A	38/46/50 30/36/40 14/17/20 N/A	42/51/60 35/42/50 16/20/25 12/15/20	54/65/90 38/47/60 18/22/25 15/18/20
Electrical data based on:	electric reheat - YI	ES, steam generator humid	ifier - <u>NO</u> , and STA	ANDARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	44/54/60 26/32/35 12/15/20 N/A	50/61/70 30/37/40 14/17/20 N/A	83/103/110 52/64/70 24/30/35 19/23/25	95/117/125 55/68/70 26/32/35 21/26/30
Electrical data based on: electric reheat -NO, steam generator humidifier - NO, and STANDARD MOTOR.					
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	15/18/25 9.3/11/15 4.6/5.5/15 N/A	21/25/40 13/16/25 6.6/7.9/15 N/A	26/30/50 18/22/35 8.9/11/15 6.5/7.8/15	38/45/70 22/26/40 11/13/20 9.1/11/15
STANDARD MOTO	DR	FLA - Full load amps			
Horsepower		1/2	3/4	1	1 1/2
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA FLA FLA FLA	4.0 2.2 1.1 N/A	5.3 3.0 1.5 N/A	6.4 3.6 1.8 1.4	8.8 4.8 2.4 2.0

GLYCOL COOLED: Performance data at STANDARD airflow

MODEL NUMBER:	DTGD/U-02	DTGD/U-03	DTGD/U-04	DTGD/U-05	
ELECTRICAL SECTION	Next Size Motor				
Electrical data based on: electric reheat - YES, steam generator humidifier - YES, and NEXT SIZE MOTOR.					
208-230/1/60 FLA/MCA/ 208-230/3/60 FLA/MCA/ 460/3/60 FLA/MCA/ 575/3/60 FLA/MCA/	MOP 27/33/35 MOP 13/15/20	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30	
Electrical data based on: electric rehea	nt - <u>NO</u> , steam generator humidi	fier - YES, and STA	NDARD MOTOR.		
208-230/1/60 FLA/MCA/ 208-230/3/60 FLA/MCA/ 460/3/60 FLA/MCA/ 575/3/60 FLA/MCA/ Electrical data based on: electric reheat	MOP 26/32/35 MOP 12/15/20 MOP N/A	39/47/50 30/37/40 14/17/20 N/A	44/53/60 36/44/50 17/21/25 13/16/20	56/67/90 40/48/60 19/23/25 16/19/20	
				07/110/105	
208-230/1/60 FLA/MCA/ 208-230/3/60 FLA/MCA/ 460/3/60 FLA/MCA/ 575/3/60 FLA/MCA/	MOP 27/33/35 MOP 13/15/20	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30	
Electrical data based on: electric rehea	at - <u>NO</u> , steam generator humidi	fier - NO, and STAN	NDARD MOTOR.		
208-230/1/60FLA/MCA/208-230/3/60FLA/MCA/460/3/60FLA/MCA/575/3/60FLA/MCA/	MOP10/12/15MOP5.0/5.9/15	22/26/40 14/17/25 6.9/8.2/15 N/A	28/33/50 20/23/35 10/11/15 7.1/8.4/15	39/47/70 24/28/45 11/13/20 10/11/15	
NEXT SIZE MOTOR	FLA - Full load amps	3			
Horsepower	3/4	1	1 1/2	2	
208-230/1/60FLA208-230/3/60FLA460/3/60FLA575/3/60FLA	5.3 3.0 1.5 N/A	6.4 3.6 1.8 N/A	8.8 4.8 2.4 2.0	10.5 6.2 3.1 2.5	
COMPRESSOR	FLA - Full load amps	7			
Nominal tons	2	3	4	5	
208-230/1/60 FLA 208-230/3/60 FLA 460/3/60 FLA 575/3/60 FLA	10.9 7.1 3.5 N/A	16.0 10.3 5.1 N/A	19.2 14.7 7.1 5.1	28.8 17.3 8.2 7.1	

MODEL NUMBER	:		DTGD/U-02	DTGD/U-03	DTGD/U-04	DTGD/U-05
FLUID COOL	ER SELECTI	ONS				
Fluid cooler at 95° F	ambient		DAFC-06	DAFC-06	DAFC-06	DAFC-07
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/M FLA/MCA/M FLA/MCA/M	IOP	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15
Fluid cooler at 100°	F ambient		DAFC-06	DAFC-06	DAFC-09	DAFC-15
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/M FLA/MCA/M FLA/MCA/M	IOP	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	8.4/9.5/15 8.4/9.5/15 4.2/4.7/15
CONDENSER	WATER					
]	Requirements	at maximum des	ign water pressure	of 150 psi (high pr	essure optional).	
65° F entering fluid	temperature	GPM PD in PSI	2.6 0.9	3.9 1.9	5.2 0.9	6.5 1.2
75° F entering fluid	temperature	GPM PD in PSI	4.2 1.6	6.2 5.8	8.3 1.5	10.4 2.5
85° F entering fluid	temperature	GPM PD in PSI	6.0 3.2	9.0 7.5	12.0 3.5	15.0 5.0
With fluid cooler		GPM PD in PSI	7.0 4.0	10.5 8.2	14.0 4.4	17.5 6.5
PUMP SELEC	TION			At design flow		
Horsepower			3/4	3/4	1	1
PUMP ELECT	RICAL DATA					
208-230/1/60 208-230/3/60 460/3/60		FLA FLA FLA	4.8 2.6 1.3	4.8 2.6 1.3	5.8 3.2 1.6	5.8 3.2 1.6

Notes: Fluid coolers are not available in 575 volts.

Fluid coolers are selected at sea level.

Pump selection is based on total available head pressure of 80 feet of water.

FLA - Full load amps

MODEL NUMBER:	DTGD/U-02	DTGD/U-03	DTGD/U-04	DTGD/U-05
CAPACITY in Btu/hr - gross				
80° DB/67° WBTotal50% RHSensible	25,400 22,500	37,500 32,900	53,000 45,500	63,400 54,800
75° DB/62.5° WB Total 50% RH Sensible	24,100 21,600	34,700 31,700	49,200 43,800	58,900 52,800
75° DB/61° WBTotal45% RHSensible	22,600 22,400	33,800 33,300	47,700 46,600	56,800 55,900
72° DB/60° WBTotal50% RHSensible	22,200 21,000	33,000 30,900	46,800 42,800	56,200 51,600
72° DB/58.6° WB Total 45% RH Sensible	21,400 21,300	32,300 32,000	45,400 44,900	54,400 53,900
BLOWER SECTION				
Airflow - CFM Standard motor - horsepower External static pressure (E.S.P.) - inches of W.G.0.5 Number of motors/fans	1,000 3/4 0.5 1/1	1,500 1 0.5 1/1	2,000 1 1/2 0.5 1/1	2,500 2 1/1
Maximum E.S.P. (Standard Motor)	0.8	0.7	1.0	1.2
Maximum E.S.P. (Next Size Motor)	1.0	1.0	1.2	N/A
Next size motor - horsepower	1	1 1/2	2	N/A
COMPRESSORS				
Type	Scroll	Scroll	Scroll	Scroll
Quantity Refrigerant type	1 R-407C	1 R-407C	1 R-407C	1 R-407C
EVAPORATOR COIL				
Face area - sq ft Rows of coils Face velocity - fpm	4.2 3 238	4.2 3 357	6.25 4 320	6.25 4 400
REHEAT SECTION				
Electric kW	Standard 6	Standard 6	Standard 12	Standard 12
Capacity - Btu/hr	20,490	20,490	40,980	40,980
HUMIDIFIER SECTION				
Steam generator kW	Standard 3.4	Standard 3.4	Standard 3.4	Standard 3.4
Capacity - lb/hr	10	10	10	10

MODEL NUMBER:		DTGD/U-02	DTGD/U-03	DTGD/U-04	DTGD/U-05
FILTER SECTIO	DN				
Quantity		2	2	2	2
Size - inches	Downflow Unflow	16x25x4 16x20x4	16x25x4 16x20x4	16x25x4 16x20x4	16x25x4 16x20x4
Efficiency - MERV (Note: Efficiency	Upflow based on ASHRAE Std. 52	8	10x20x4 8	10x20x4 8	10x20x4
CONNECTION	SIZES				
Condenser water suppl		3/4	3/4	1 1/8	1 1/8
Condenser water return	n - O.D. Copper	3/4	3/4	1 1/8	1 1/8
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply	tion and Maintenance Manual for	1/4	1/4 indoor unit and dry cool	1/4 er)	1/4
(note: nejer to opera	ion una mainenance manaai jor	piping information between			
ELECTRICAL S	ECTION	Standard Motor			
Electrical data based or	n STANDARD unit: electric	e reheat - YES, steam ge	enerator humidifier -	YES, and STANDA	ARD MOTOR.
208-230/1/60	FLA/MCA/MOP	45/55/60	51/63/70	86/105/110	97/119/125
208-230/3/60	FLA/MCA/MOP	27/33/35	31/37/40	53/65/70	57/70/80
460/3/60	FLA/MCA/MOP	13/15/20	14/18/20	25/30/35	26/32/35
575/3/60	FLA/MCA/MOP	N/A	N/A	19/24/25	22/27/30
Electrical data based o	n: electric reheat - NO, ste	am generator humidifie	er - YES , and STAN	DARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	33/39/45	39/47/50	44/53/60	56/67/90
208-230/3/60	FLA/MCA/MOP	26/32/35	30/37/40	36/44/50	40/48/60
460/3/60	FLA/MCA/MOP	12/15/20	14/17/20	17/21/25	19/23/25
575/3/60	FLA/MCA/MOP	N/A	N/A	13/16/20	16/19/20
Electrical data based o	n: electric reheat - YES, st	eam generator humidifi	er - <u>NO</u> , and STAN	DARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	45/55/60	51/63/70	86/105/110	97/119/125
208-230/3/60	FLA/MCA/MOP	27/33/35	31/37/40	53/65/70	57/70/80
460/3/60	FLA/MCA/MOP	13/15/20	14/18/20	25/30/35	26/32/35
575/3/60	FLA/MCA/MOP	N/A	N/A	19/24/25	22/27/30
Electrical data based o	n: electric reheat - NO, ste	am generator humidifie	er - <u>NO</u> , and STANE	DARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	16/19/30	22/26/40	28/33/50	39/47/70
208-230/3/60	FLA/MCA/MOP	10/12/15	14/17/25	20/23/35	24/28/45
460/3/60	FLA/MCA/MOP	5.0/5.9/15	6.9/8.2/15	10/11/15	11/13/20
575/3/60	FLA/MCA/MOP	N/A	N/A	7.1/8.4/15	10/11/15
STANDARD MO		ELA Eull load among			
		FLA - Full load amps	_	/-	-
Horsepower		3/4	1	1 1/2	2
208-230/1/60	FLA	5.3	6.4	8.8	10.5
208-230/3/60	FLA	3.0	3.6	4.8	6.2
460/3/60	FLA	1.5	1.8	2.4	3.1
575/3/60	FLA	N/A	N/A	2.0	2.5

FLA - Full load amps MCA - Minimum circuit amps (wire sizing amps) MOP - Maximum overcurrent protection device amps

MODEL NUMBER:		DTGD/U-02	DTGD/U-03	DTGD/U-04	DTGD/U-05
ELECTRICAL S	ECTION	Next Size Motor			
Electrical data based or	n: electric reheat - YES,	steam generator humidif	ier - YES, and NEX	T SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	46/56/60	54/65/70	87/107/110	N/A
208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP	27/33/35 13/16/20	32/39/45 15/18/20	54/66/70 25/31/35	N/A N/A
575/3/60	FLA/MCA/MOP FLA/MCA/MOP	N/A	N/A	20/24/25	N/A N/A
Electrical data based or	n: electric reheat - NO, s	steam generator humidific	er - <u>YES</u> , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	34/41/45	41/49/60	46/55/70	N/A
208-230/3/60	FLA/MCA/MOP	27/33/35	31/38/40	37/45/50	N/A
460/3/60	FLA/MCA/MOP	13/15/20	15/18/20	18/21/25	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	14/16/20	N/A
Electrical data based or	n: electrical reheat - YE	S, steam generator humic	lifier - <u>NO</u> , and NEX	<u>KT SIZE MOTOR.</u>	
208-230/1/60	FLA/MCA/MOP	46/56/60	54/65/70	87/107/110	N/A
208-230/3/60	FLA/MCA/MOP	27/33/35	32/39/45	54/66/70	N/A
460/3/60	FLA/MCA/MOP	13/16/20	15/18/20	25/31/35	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	20/24/25	N/A
Electrical data based or	n: electric reheat - NO,	steam generator humidifi	ier - <u>NO</u> , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	17/20/30	25/29/45	30/35/50	N/A
208-230/3/60	FLA/MCA/MOP	11/13/20	15/18/25	21/25/35	N/A
460/3/60	FLA/MCA/MOP	5.3/6.2/15	7.5/8.8/15	10/12/15	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	7.6/8.9/15	N/A
NEXT SIZE MOT	FOR				
Horsepower		1	1 1/2	2	N/A
208-230/1/60	FLA	6.4	8.8	10.5	N/A
208-230/3/60	FLA	3.6	4.8	6.2	N/A
460/3/60	FLA	1.8	2.4	3.1	N/A
575/3/60	FLA	N/A	N/A	2.5	N/A
COMPRESSOR					
Nominal tons		2	3	4	N/A
208-230/1/60	FLA	10.9	16.0	19.2	N/A
208-230/3/60	FLA	7.1	10.3	14.7	N/A
460/3/60	FLA	3.5	5.1	7.1	N/A
575/3/60	FLA	N/A	N/A	5.1	N/A

FLA - Full load amps MCA - Minimum circuit amps (wire sizing amps) MOP - Maximum overcurrent protection service amps

MODEL NUMBER:			DTGD/U-02	DTGD/U-03	DTGD/U-04	DTGD/U-05
FLUID COOLER	SELECTI	ON	Electrical Data			
Fluid cooler at 95° F ar	nbient		DAFC-06	DAFC-06	DAFC-06	DAFC-07
208-230/1/60 208-230/3/60 460/3/60	FLA/MC FLA/MC FLA/MC	CA/MOP	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15
Fluid cooler at 100° F a	ambient		DAFC-06	DAFC-06	DAFC-09	DAFC-15
208-230/1/60 208-230/3/60 460/3/60	FLA/MC FLA/MC FLA/MC	CA/MOP	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	4.2/5.3/15 4.2/5.3/15 2.1/2.6/15	8.4/9.5/15 8.4/9.5/15 4.2/4.7/15
CONDENSER W	ATER					
Req	uirements a	it maximum de	sign water pressure	of 150 psi (high pre	essure optional).	
65° F entering fluid ten	nperature	GPM PD in PSI	2.6 0.9	3.9 1.9	5.2 0.9	6.5 1.2
75° F entering fluid ten	perature	GPM PD in PSI	4.2 1.6	6.2 5.8	8.3 1.5	10.4 2.5
85° F entering fluid ten	perature	GPM PD in PSI	6.0 3.2	9.0 7.5	12.0 3.5	15.0 5.0
With fluid cooler		GPM PD in PSI	7.0 4.0	10.5 8.2	14.0 4.4	17.5 6.5
PUMP SELECTION	ON		At design flow			
Horsepower			3/4	3/4	1	1
PUMP ELECTRI	CAL DATA					
208-230/1/60 208-230/3/60 460/3/60		FLA FLA FLA	4.8 2.6 1.3	4.8 2.6 1.3	5.8 3.2 1.6	5.8 3.2 1.6

Notes: Fluid Coolers are not available in 575 volts.

Fluid Coolers are selected at sea level.

Pump selection is based on total available head pressure of 80 feet of water.

AUXILIARY CHILLED WATER: Performance data at STANDARD airflow

MODEL NUMBER		DT*D/U-02	DT*D/U-03	DT*D/U-04	DT*D/U-05
CAPACITY in Btu/hr	r - gross				
	Total Sensible	23,100 19,100	34,300 28,200	48,400 39,000	57,900 47,000
	Total Sensible	23,800 19,900	33,600 28,700	46,200 38,900	55,500 47,400
Rows of coils GPM Pressure drop in PSI		4 7.0 1.8	4 10.5 3.6	4 14.0 6.5	4 17.5 9.7
BLOWER SECTION					
Airflow - CFM Standard motor - horsepowe External static pressure (E.S. Number of motors/fans Maximum E.S.P.) 3/4 0.5 1/1 0.8	1,200 1 0.5 1/1 1.0	1,600 1 1/2 0.5 1/1 1.0	2,000 2 0.5 1/1 1.2
		andard Motor - <u>YES</u> , steam gener 45/55/60 27/33/35	<u>ator humidifier - YE</u> 51/63/70 31/37/40	2 <u>S. and STANDAR</u> 86/105/110 53/65/70	<u>D MOTOR.</u> 97/119/125 57/70/70
	FLA/MCA/MOP FLA/MCA/MOP	13/15/20 N/A	14/18/20 N/A	25/31/35 19/24/25	26/32/35 22/27/30
Electrical data based on: el	lectric reheat - NO, steam g	generator humidifier	- YES, and STANE	DARD MOTOR.	
208-230/3/60 H 460/3/60 H	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	32/39/40 26/32/35 12/15/20 N/A	39/47/50 30/37/40 14/17/20 N/A	44/53/60 36/44/50 17/21/25 13/16/20	57/67/90 40/48/60 19/23/25 16/19/20
Electrical data based on: el	lectric reheat - YES, steam	generator humidifie	er - <u>NO</u> , and STANI	DARD MOTOR.	
208-230/3/60 H 460/3/60 H	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	85/105/110 53/65/70 25/31/35 19/24/25	97/119/125 57/69/80 26/32/35 22/27/30
Electrical data based on: el	lectric reheat - <u>NO</u> , steam g	generator humidifier	- <u>NO</u> , and STAND	ARD MOTOR.	
208-230/3/60 H 460/3/60 H	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	16/19/30 10/12/15 5.0/5.9/15 N/A	22/26/40 14/17/25 6.9/8.2/15 N/A	28/33/50 19/23/35 9.5/11/15 7.1/8.4/15	39/47/70 24/28/45 11/13/20 9.6/11/15

Based on 45° F entering fluid temperature - 0% glycol.

FLA - Full load amps MCA - Minimum circuit amps (wire sizing amps) MOP - Maximum overcurrent protection device amps

AUXILIARY CHILLED WATER: Performance data at OPTIONAL airflow

		0, 1	01		
MODEL NUMBER		DT*D/U-02	DT*D/U-03	DT*D/U-04	DT*D/U-05
CAPACITY in Btu/hr	- gross				
	otal ensible	23,900 21,700	35,300 31,900	50,100 44,200	60,100 53,300
	otal ensible	27,300 23,700	38,300 28,700	52,800 46,100	63,400 56,000
Rows of coils GPM Pressure drop in PSI		4 7.0 1.8	4 10.5 3.6	4 14.0 6.5	4 17.5 9.7
BLOWER SECTION					
Airflow - CFM Standard motor - horsepower External static pressure (E.S. Number of motors/fans Maximum E.S.P.		1,000 1 0.5 1/1 0.7	1,500 1 1/2 0.5 1/1 0.9	2,000 2 0.5 1/1 1.0	2,500 2 0.5 1/1 1.0
Maximum E.S.L.		0.7	0.9	1.0	1.0
ELECTRICAL SECTI Electrical data based on STA		ndard Motor t - <u>YES,</u> steam gen	nerator humidifier - Y	'ES , and STANDA	RD MOTOR.
208-230/3/60 F1 460/3/60 F1	LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30
Electrical data based on: ele	ectric reheat - <u>NO</u> , steam ger	nerator humidifier	- YES, and STAND	ARD MOTOR.	
208-230/3/60 F1 460/3/60 F1	LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP	33/39/45 26/32/35 12/15/20 N/A	39/47/50 30/37/40 14/17/20 N/A	44/53/60 36/44/50 17/21/25 13/16/20	56/67/90 40/48/60 19/23/25 16/19/20
Electrical data based on: elec	ctric reheat - YES, steam ge	nerator humidifier	- NO , and STAND	ARD MOTOR.	
208-230/3/60 F1 460/3/60 F1	LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30
Electrical data based on: ele	ectric reheat - <u>NO</u> , steam ger	nerator humidifier	- NO, and STANDA	ARD MOTOR.	
208-230/3/60 F1 460/3/60 F1	LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP LA/MCA/MOP	16/19/30 10/12/15 5.0/5.9/15 N/A	22/26/40 14/17/25 6.9/8.2/15 N/A	28/33/50 20/23/35 9.5/11/15 7.1/8.4/15	39/47/70 24/28/45 11/13/20 9.6/11/15

Based on 45° F entering fluid temperature - 0% glycol.

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum overcurrent protection device amps

ENERGY SAVER: Performance data at STANDARD airflow

	on 45 1 Chiering futu tempe				
MODEL NUMBER		DT*D/U-02	DT*D/U-03	DT*D/U-04	DT*D/U-05
CAPACITY in Btu	/hr- gross				
75° F DB/62.5° F WB 50% RH	Total Sensible	22,500 18,900	33,700 27,900	47,000 38,400	56,800 46,600
72° F DB/62.5° F WB 50% RH	Total Sensible	20,200 18,200	27,500 25,700	40,400 36,100	48,600 44,000
Rows of coils GPM Pressure drop - PSI		4 7.0 4.6	4 10.5 10.1	4 14.0 9.2	4 17.5 14.6
BLOWER SECTIO	DN				
Airflow - CFM Standard motor - horsepo External static pressure (Number of motors/fans	ower (with Energy Saver coil) E.S.P.) - inches of W.G.	800 3/4 0.5 1/1	1,200 1 0.5 1/1	1,600 1 1/2 0.5 1/1	2,000 2 0.5 1/1
Maximum E.S.P.		0.8	1.0	1.0	1.2
ELECTRICAL SEC Electrical data based on S 208-230/1/60 208-230/3/60 460/3/60 575/3/60	CTION Star STANDARD unit: electric rehea FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	ndard Motor at - <u>YES</u> , steam g 45/55/60 27/33/35 13/15/20 N/A	enerator humidifier - 51/63/70 31/37/40 14/18/20 N/A	<u>YES</u> , and STANDA 86/105/110 53/65/70 25/30/35 19/24/25	ARD MOTOR. 97/117/125 57/70/80 26/32/35 22/27/30
	electric reheat - NO, steam ge				
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	33/39/45 26/32/35 12/15/20 N/A	39/47/50 30/37/40 14/17/20 N/A	44/53/60 36/44/50 17/21/25 13/16/20	54/65/90 40/48/60 19/23/25 16/19/20
Electrical data based on:	electric reheat - YES, steam g	enerator humidifi	ier - <u>NO</u> , and STAN	DARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	95/117/125 57/70/80 26/32/35 22/27/30
Electrical data based on:	electric reheat - NO, steam ge	nerator humidifie	er - <u>NO</u> , and STAND	DARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	16/19/30 10/12/15 5.0/5.9/15 N/A	22/26/40 14/17/25 6.9/8.2/15 N/A	28/33/50 20/23/35 9.5/11/15 7.1/8.4/15	38/47/70 24/28/45 11/13/20 9.6/11/15

Based on 45° F entering fluid temperature with 40% glycol solution - capacity in Btu/hr.

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum overcurrent protection device amps

ENERGY SAVER: Performance data at OPTIONAL airflow

MODEL NUMBER	6 7 1	DT*D/U-02	DT*D/U-03	DT*D/U-04	DT*D/U-05
CAPACITY in Btu/hr -	gross				
75° F DB/62.5° F WB To 50% RH Ser	tal nsible	23,400 21,600	34,700 31,700	49,200 43,800	58,900 52,800
72° F DB/62.5° F WB To 50% RH Ser	tal nsible	22,700 21,300	30,900 29,800	45,500 42,400	54,700 51,500
Rows of coils GPM Pressure drop - PSI		4 7.0 4.6	4 10.5 10.1	4 14.0 9.2	4 17.5 14.6
BLOWER SECTION					
Airflow - CFM Standard motor - horsepower External static pressure (E.S.H Number of motors/fans Maximum E.S.P.		1,000 1 0.5 1/1 0.7	1,500 1 1/2 0.5 1/1 0.9	2,000 2 0.5 1/1 1.0	2,500 2 0.5 1/1 1.0
ELECTRICAL SECTION	ON Sta	ndard Motor			
Electrical data based on STAN	NDARD unit: electric rehe	at - <u>YES</u> , steam g	generator humidifier	- YES, and STAND	ARD MOTOR.
208-230/3/60 FL 460/3/60 FL	.A/MCA/MOP .A/MCA/MOP .A/MCA/MOP .A/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30
Electrical data based on: elec	etric reheat - <u>NO</u> , steam g	generator humidifi	ier - YES, and STA	NDARD MOTOR.	
208-230/3/60 FL 460/3/60 FL	.A/MCA/MOP .A/MCA/MOP .A/MCA/MOP .A/MCA/MOP	33/39/45 26/32/35 12/15/20 N/A	39/47/50 30/37/40 14/17/20 N/A	44/53/60 36/44/50 17/21/25 13/16/20	56/67/90 40/48/60 19/23/25 16/19/20
Electrical data based on: elec	ctric reheat - YES, steam g	generator humidifi	ier - <u>NO</u> , and STAN	NDARD MOTOR.	
208-230/3/60 FL 460/3/60 FL	.A/MCA/MOP .A/MCA/MOP .A/MCA/MOP .A/MCA/MOP	45/55/60 27/33/35 13/15/20 N/A	51/63/70 31/37/40 14/18/20 N/A	86/105/110 53/65/70 25/30/35 19/24/25	97/119/125 57/70/80 26/32/35 22/27/30
Electrical data based on: elec	etric reheat - NO, steam ge	enerator humidifie	er - <u>NO</u> , and STAN	DARD MOTOR.	
208-230/3/60 FL 460/3/60 FL	.A/MCA/MOP .A/MCA/MOP .A/MCA/MOP .A/MCA/MOP	16/19/30 10/12/15 5.0/5.9/15 N/A	22/26/40 14/17/25 6.9/8.2/15 N/A	28/33/50 20/23/35 9.5/11/15 7.1/8.4/15	39/47/70 24/28/45 11/13/20 9.6/11/15

Based on 45° F entering fluid temperature with 40% glycol solution - capacity in Btu/hr.

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps) MOP - Maximum overcurrent protection device amps

CHILLED WATER: Performance data at STANDARD airflow

MODEL NUMBER:	DTCD/U-02	DTCD/U-03	DTCD/U-04	DTCD/U-05	
CAPACITY in Btu/hr - gross	Based on 45° F entering chilled water				
80° DB/67° WB	37,500	51,500	71,500	84,900	
50% RH	25,000	35,300	48,200	58,200	
Flow rate - GPM	8.0	11.0	15.0	18.0	
Pressure drop - PSI	2.1	3.6	7.3	10.3	
75° DB/62.5° WB Total	26,900	36,700	51,200	60,600	
50% RH Sensible	21,200	29,900	40,900	49,400	
Flow rate - GPM	6.0	8.0	11.0	13.0	
Pressure drop - PSI	1.3	2.3	4.2	5.6	
75° DB/61° WB Total	25,000	34,400	47,700	56,700	
45% RH Sensible	21,900	31,300	42,400	51,300	
Flow rate - GPM	6.0	8.0	11.0	13.0	
Pressure drop - PSI	1.3	2.3	4.2	5.6	
72° DB/60° WB	21,900	29,100	41,600	49,800	
50% RH	19,000	26,400	36,700	44,500	
Flow rate - GPM	8.0	6.0	9.0	11.0	
Pressure drop - PSI	2.1	2.3	2.8	3.9	
72° DB/58.6° WB Total	20,700	28,000	39,500	48,500	
45% RH Sensible	19,800	27,500	38,100	46,200	
Flow rate - GPM	5.0	6.0	9.0	11.0	
Pressure drop - PSI	0.9	1.3	2.8	3.9	
BLOWER SECTION					
Airflow - CFM	800	1,200	1,600	2,000	
Standard motor - horsepower	1/2	3/4	1	1 1/2	
External static pressure (E.S.P.) - inches of W.G.	0.5	0.5	0.5	0.5	
Number of motor/fans	1/1	1/1	1/1	1/1	
Maximum E.S.P. (Standard motor)	0.8	0.7	1.0	1.0	
Maximum E.S.P. (Next size motor)	0.8	1.0	1.2	1.2	
Next size motor - horsepower	3/4	1	1 1/2	2	
CHILLED WATER COIL					
Face area - sq ft	4.2	4.2	4.2	4.2	
Rows of coils	4	4	4	4	
Face velocity - fpm	190	286	256	320	
CHILLED WATER CONTROL Des	ign pressure 250 psi	į			
Control method	Modulating	Modulating	Modulating	Modulating	
Valve body	3-way	3-way	3-way	3-way	
Valve CV	14	14	14	14	
Valve size - inches	1	1	1	1	
REHEAT SECTION					
Electric	Standard	Standard	Standard	Standard	
kW	6	6	12	12	
Capacity - Btu/hr	20,490	20,490	40,980	40,980	

CHILLED WATER: Performance data at STANDARD airflow

MODEL NUMBER:		DTCD/U-02	DTCD/U-03	DTCD/U-04	DTCD/U-05
FILTER SECTI	ON				
Quantity Size - inches Efficiency - MERV (Note: Efficience	Downflow Upflow based on ASHRAE Std.	2 16x25x4 16x20x4 8 . 52.2)	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8	2 16x25x4 16x20x4 8
HUMIDIFIER S	SECTION				
Steam generator kW Capacity - lb/hr		Standard 3.2 10	Standard 3.2 10	Standard 3.2 10	Standard 3.2 10
ELECTRICAL	SECTION	Standard Motor			
Electrical data based	on STANDARD unit: elec	ctric reheat - YES, steam	generator humidifie	er - YES , and STANI	DARD MOTOR.
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	33/41/45 19/24/25 8.6/11/15 N/A	34/43/45 20/25/30 9.0/11/15 N/A	64/80/90 37/46/50 17/21/25 14/17/20	67/83/90 38/48/50 18/22/25 14/18/20
Electrical data based	on: electric reheat - NO,	steam generator humidi	fier - <u>YES</u> , and STA	ANDARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	20/25/30 19/23/25 8.5/11/15 N/A	22/27/30 19/24/25 839/11/15 N/A	23/28/30 20/25/30 9.2/12/15 7.3/9.1/15	25/31/35 21/26/30 10/12/15 7.9/10/15
Electrical data based	on: electric reheat - YES	steam generator humid	lifier - <u>NO</u> , and STA	ANDARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	32/41/45 19/24/25 9/11/15 N/A	34/43/45 19/25/30 9.0/11/15 N/A	64/80/90 37/46/50 17/21/25 14/17/20	67/83/90 38/48/50 18/22/25 14/18/20
Electrical data based	on: electric reheat - NO,	steam generator humidi	fier - NO, and STA	NDARD MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	4.0/5.0/15 2.2/2.8/15 1.1/1.4/15 N/A	5.3/6.6/15 3.0/3.8/15 1.5/1.9/15 N/A	6.4/8.0/15 3.6/4.5/15 1.8/2.3/15 1.4/1.8/15	8.8/11/15 4.8/6.0/15 2.4/3.0/15 2.0/2.5/15
STANDARD M	OTOR	F	LA - Full load amps	5	
Horsepower		1/2	3/4	1	1 1/2
208-230/1/60 208-230/3/60 460/3/60 575/3/60		4.0 2.2 1.1 N/A	5.3 3.0 1.5 N/A	6.4 3.6 1.8 1.4	8.8 4.8 2.4 2.0

FLA -Full load amps MCA - Minimum circuit amps (wire sizing amps) MOP - Maximum overcurrent protection device amps

CHILLED WATER: Performance data at STANDARD airflow

MODEL NUMBER:		DTCD/U-02	DTCD/U-03	DTCD/U-04	DTCD/U-05
ELECTRICAL S	ECTION	Next Size Motor			
Electrical data based o	n: electric reheat - YES	, steam generator humidif	ier - <u>YES</u> , and NEX	T SIZE MOTOR.	
208-230/1/60 208-230/3/60 460/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	34/43/45 20/25/30 9/11/15	64/81/90 37/46/50 17/21/25	66/83/90 38/48/50 18/22/25	67/84/90 39/49/50 18/23/25
575/3/60	FLA/MCA/MOP	N/A	N/A	14/18/20	15/18/20
Electrical data based o	n: electric reheat - NO,	steam generator humidifie	er - YES, and NEXT	SIZE MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	22/27/30 19/24/25 8.9/11/15 N/A	23/29/30 20/25/30 9/11/15 N/A	25/31/35 21/26/30 10/13/15 7.9/9.9/15	26/32/35 22/28/30 10/13/15 8.4/10.5/15
Electrical data based o	n: electric reheat - YES	, steam generator humidif	ier - <u>NO</u> , and NEXT	SIZE MOTOR.	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	34/43/45 20/25/30 9/11/15 N/A	64/81/90 37/46/50 17/21/25 N/A	66/83/90 38/48/50 18/22/25 14/18/20	67/84/90 39/49/50 18/23/25 15/18/20
Electrical data based o	n: electric reheat - NO,	steam generator humidifie	er - <u>NO</u> , and NEXT	<u>SIZE MOTOR.</u>	
208-230/1/60 208-230/3/60 460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP FLA/MCA/MOP	5.3/6.6/15 3.0/3.8/15 1.5/1.9/15 N/A	6.8/8.5/15 3.6/4.5/15 1.8/2.3/15 N/A	9/11/15 4.8/6.0/15 2.8/3.5/15 2.0/2.5/15	9/12/20 6.0/7.5/15 3.0/3.8/15 2.5/3.1/15
NEXT SIZE MO	TOR	FLA - Full load amps			
Horsepower		3/4	1	1 1/2	2
208-230/1/60 208-230/3/60 460/3/60 575/3/60		5.3 3.0 1.5 N/A	6.8 3.6 1.8 N/A	8.8 5.7 2.4 2.0	9.3 6.0 3.0 2.5
CONNECTION	SIZES				
CW supply - O.D. Cop CW return - O.D. Cop Condensate drain Humidifier supply		1 1/8 1 1/8 3/4 1/4	1 1/8 1 1/8 3/4 1/4	1 1/8 1 1/8 3/4 1/4	1 1/8 1 1/8 3/4 1/4

FLA - Full load amps MCA - Minimum circuit amps MOP - Maximum overcurrent protection device amps

CHILLED WATER: Performance data at OPTIONAL airflow

MODEL NUMBER:		DTCD/U-02	DTCD/U-03	DTCD/U-04	DTCD/U-05
CAPACITY in B	tu/hr - gross	Bas	Based on 45°F entering chilled water		
80° DB/67° WB 50% RH	Total Sensible Flow rate - GPM Pressure drop - PSI	42,500 29,300 8.0 2.2	57,800 41,200 11.0 3.9	80,700 56,500 15.0 7.3	95,200 67,900 18.0 10.3
75° DB/62.5° WB 50% RH	Total Sensible Flow rate - GPM Pressure drop - PSI	30,500 25,000 6.0 1.3	41,100 35,100 8.0 2.3	57,700 48,100 11.0 4.2	67,900 57,800 13.0 5.6
75° DB/61° WB 45% RH	Total Sensible Flow rate - GPM Pressure drop - PSI	28,700 26,000 6.0 1.3	39,100 36,600 8.0 2.3	54,500 50,100 11.0 4.2	64,500 60,300 13.0 5.6
72° DB/60° WB 50% RH	Total Sensible Flow rate - GPM Pressure drop - PSI	24,900 22,400 5.0 0.9	32,600 30,800 6.0 2.3	47,000 43,000 9.0 2.8	56,100 52,000 11.0 3.9
72° DB/58.6° WB 45% RH	Total Sensible Flow rate - GPM Pressure drop - PSI	23,900 23,400 5.0 0.9	31,900 31,900 6.0 1.3	45,400 44,700 9.0 2.8	54,400 53,900 11.0 3.9
BLOWER SECT	TON				
Airflow - CFM Standard motor - horse External static pressure Number of motors/fan:	e (E.S.P.) - inches of W.G.	1,000 3/4 0.5 1/1	1,500 1 0.5 1/1	2,000 1 1/2 0.5 1/1	2,500 2 0.5 1/1
Maximum E.S.P. (Standard Motor) Maximum E.S.P. (Next Size Motor) Next size motor - horsepower		.08 1.0 1	$\begin{array}{c} 0.7 \\ 1.0 \\ 1 \ 1/2 \end{array}$	1.0 1.2 2	1.2 N/A N/A
CHILLED WAT	ER COIL				
Face area - sq ft Rows of coils Face velocity - fpm		4.2 4 238	4.2 4 357	6.25 4 320	6.25 4 400
CHILLED WAT	ER CONTROL	Des	sign pressure 250 ps	i	
Control method Valve body Valve CV Valve size - inches		Modulating 3-way 14 1	Modulating 3-way 14 1	Modulating 3-way 14 1	Modulating 3-way 14 1
REHEAT SECTI	ION				
Electric kW Capacity - Btu/hr		Standard 6 20,490	Standard 6 20,490	Standard 12 40,980	Standard 12 40,980

CHILLED WATER: Performance data at OPTIONAL airflow

MODEL NUMBER:		DTCD/U-02	DTCD/U-03	DTCD/U-04	DTCD/U-05
FILTER SECTIO	N				
Quantity		2	2	2	2
Size - inches	Downflow	16x25x4	16x25x4 16x20x4	16x25x4 16x20x4	16x25x4
Efficiency - MERV	Upflow	16x20x4 8	16x20x4 8	16x20x4 8	16x20x4 8
(Note: Efficiency	based on ASHRAE Std. 5	2.2)			
HUMIDIFIER SI	ECTION				
Steam generator		Standard	Standard	Standard	Standard
kW Capacity - lb/hr		3.2 10	3.2 10	3.2 10	3.2 10
Cupacity 10/11		10	10	10	10
ELECTRICAL S	ECTION	S	Standard Motor		
Electrical data based on	STANDARD unit: electr	ic reheat - <u>YES</u> , steam g	enerator humidifier	- YES, and STAND	ARD MOTOR.
208-230/1/60	FLA/MCA/MOP	34/43/45	35/44/45	67/83/90	68/85/90
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	38/48/50	40/49/50
460/3/60	FLA/MCA/MOP	9.0/11/15	9.3/12/15	18/22/25	18/23/25
575/3/60	FLA/MCA/MOP	N/A	N/A	14/18/20	15/18/20
Electrical data based or	n: electric reheat - <u>NO</u> , st	eam generator humidifie	er - <u>YES</u> , and STAN	NDARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	22/27/30	23/28/30	25/31/35	27/34/40
208-230/3/60	FLA/MCA/MOP	19/24/25	20/25/30	21/26/30	23/28/30
460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP	8.9/11/15 N/A	9.2/12/15 N/A	10/12/15 7.9/10/15	11/13/15 8.4/11/15
					0. 1/ 11/ 15
Electrical data based of	n: electric reheat - YES, s	steam generator humidif	her - <u>NO</u> , and SIAN	NDARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	34/43/45	35/44/45	67/83/90	68/85/90
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	38/48/50	40/49/50
460/3/60 575/3/60	FLA/MCA/MOP FLA/MCA/MOP	9.0/11/15 N/A	9.0/12/15 N/A	18/22/25 14/18/15	18/23/25 15/18/20
575/5/00	TLA/MCA/MOI	IN/A	1N/A	14/10/13	13/18/20
Electrical data based on	n: electric reheat - <u>NO</u> , st	eam generator humidifie	er - <u>NO</u> , and STANI	DARD MOTOR.	
208-230/1/60	FLA/MCA/MOP	5.3/6.6/15	6.4/8.0/15	8.8/11/15	11/13/20
208-230/3/60	FLA/MCA/MOP	3.0/3.8/15	3.6/4.5/15	4.8/6.0/15	6.2/7.8/15
460/3/60	FLA/MCA/MOP	1.5/1.9/15	1.8/2.3/15	2.4/3.0/15	3.1/3.9/15
575/3/60	FLA/MCA/MOP	N/A	N/A	2.0/2.5/15	2.5/3.1/15
STANDARD MO	TOR	FLA - Full load amps			
Horsepower		3/4	1	1 1/2	2
208-230/1/60		5.3	6.8	8.8	9.3
208-230/3/60		3.0	3.6	5.7	6.0
460/3/60		1.5	1.8	2.4	3.0
575/3/60		N/A	N/A	2.0	2.5

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps) MOP - Maximum overcurrent protection device amps

CHILLED WATER: Performance data at OPTIONAL airflow

MODEL NUMBER:		DTCD/U-02	DTCD/U-03	DTCD/U-04	DTCD/U-05
ELECTRICAL S	ECTION	Next Size Motor			
Electrical data based o	n: electric reheat - YES,	steam generator humidifie	er- YES, and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	36/45/50	66/83/90	67/84/90	N/A
208-230/3/60	FLA/MCA/MOP	20/25/30	38/48/50	39/49/50	N/A
460/3/60	FLA/MCA/MOP	9/12/15	18/22/25	18/23/25	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	15/18/20	N/A
Electrical data based o	n: electric reheat - NO, s	steam generator humidifier	r - <u>YES</u> , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	23/29/30	25/31/35	26/32/35	N/A
208-230/3/60	FLA/MCA/MOP	20/25/30	21/26/30	22/28/30	N/A
460/3/60	FLA/MCA/MOP	9/11/15	10/13/15	10/13/15	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	8.4/10.5/15	N/A
Electrical data based o	n: electric reheat - YES,	steam generator humidifie	er - <u>NO</u> , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	36/45/50	66/83/90	67/84/90	N/A
208-230/3/60	FLA/MCA/MOP	20/25/30	38/48/50	39/49/50	N/A
460/3/60	FLA/MCA/MOP	9/12/15	18/22/25	18/23/25	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	15/18/20	N/A
Electrical data based o	n: electric reheat - NO, s	steam generator humidifier	r - <u>NO</u> , and NEXT	SIZE MOTOR.	
208-230/1/60	FLA/MCA/MOP	6.8/8.5/15	8.8/11/15	9/12/15	N/A
208-230/3/60	FLA/MCA/MOP	3.6/4.5/15	5.7/7.1/15	6.0/7.5/15	N/A
460/3/60	FLA/MCA/MOP	1.8/2.3/15	2.8/3.5/15	3.0/3.8/15	N/A
575/3/60	FLA/MCA/MOP	N/A	N/A	2.5/3.1/15	N/A
NEXT SIZE MO	TOR	FLA - Full load amps			
Horsepower		1	1 1/2	2	N/A
208-230/1/60		6.8	8.8	9.3	N/A
208-230/3/60		3.6	5.7	6.0	N/A
460/3/60		1.8	2.4	3.0	N/A
575/3/60		N/A	N/A	2.5	N/A
CONNECTION					
CONNECTION	SIZES				
CW supply - O.D. Cop	oper	1 1/8	1 1/8	1 1/8	1 1/8
CW return - O.D. Cop		1 1/8	1 1/8	1 1/8	1 1/8
Condensate drain		3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	1/4

FLA - Full load amps MCA - Minimum circuit amps MOP - Maximum overcurrent protection device amps

Notes

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