

Data Temp Systems

Air Cooled, Water/Glycol Cooled

and Chilled Water Cooled

2, 3, 4 and 5 ton

R-410A





... 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.

Data Aire Delivers!

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Data Temp

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

R-410A



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.

COMFORT

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.

DESIGN

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 furniture-grade insulated steel cabinet painted in your choice of color.

CONTROL

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.

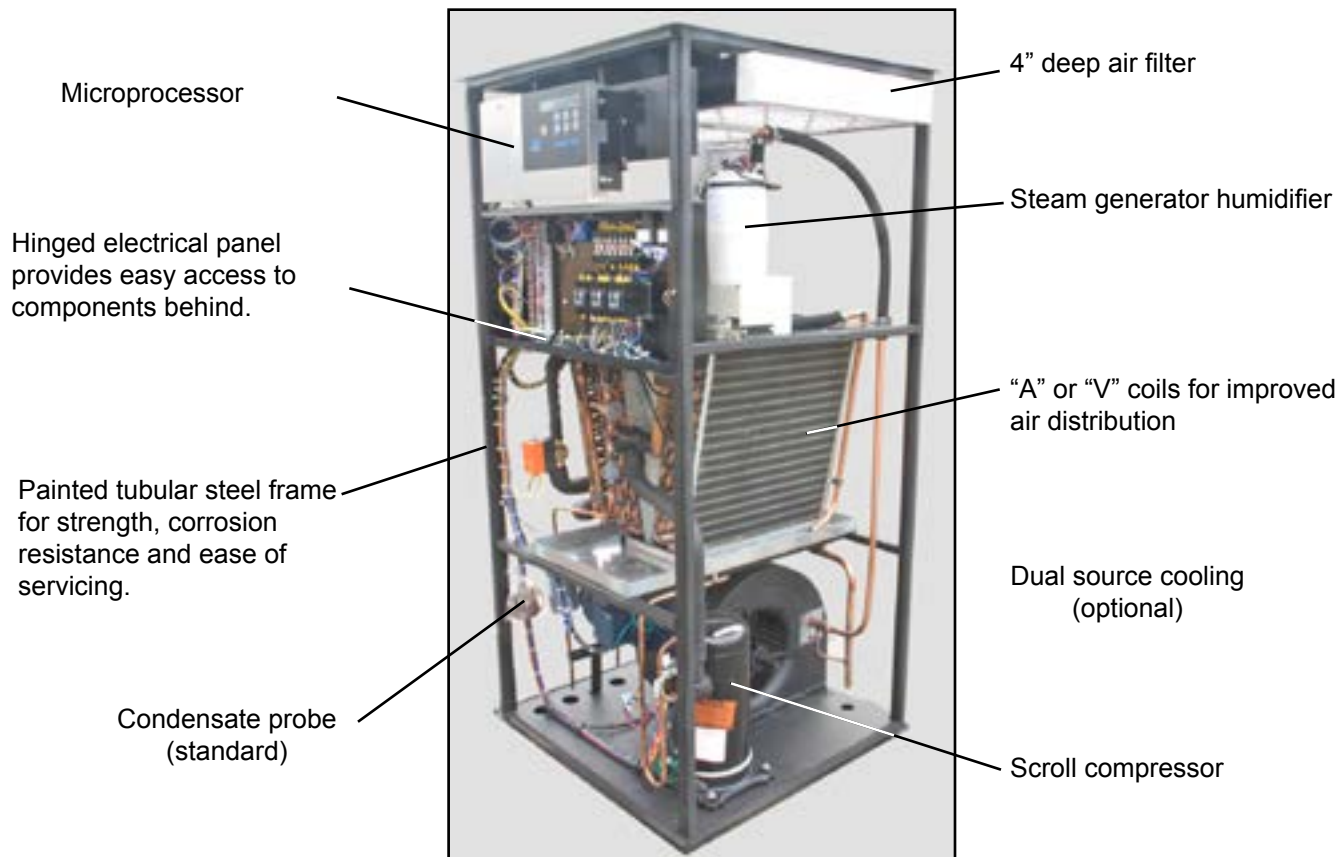
HIGH PERFORMANCE

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

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.

FILTER SECTION

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

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 dap™ 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* | Sequential Load Activation |
| Start Time Delay | Automatic Reheat Element Rotation | Automatic or Manual Restart |
| Temperature Anticipation | Energy Saver (Glycol Operation)* | Hot Water Coil Flush Cycle* |
| Dehumidification Lockout | Chilled Water Coil Flush Cycle* | Energy Saver Coil Flush Cycle* |
| Selectable Water Under Floor Alarm Action | | Compressor Short Cycle |

Condition and Data Routinely Displayed

| | | |
|--------------------------------------|--------------------------------------|------------------------|
| Current Date and Time | Unit Status | Temperature Setpoint |
| Humidity Setpoint | Current Temperature | Cooling 1, 2, 3, 4* |
| Current Humidity | Dehumidification | Humidification |
| Current Fan Speed* | Reheat 1, 2, 3Current | Discharge Temperature* |
| Current Chilled Water Valve Position | Current Percent of Capacity Utilized | |

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

CONTROL SYSTEM, continued

Alarms

| | | |
|----------------------------|-----------------------------|------------------------------|
| High Temperature Warning | High Humidity Warning | Local Alarm |
| Low Temperature Warning | Low Humidity Warning | Manual Override |
| Low Pressure Compressor 1 | Low Pressure Compressor 2 | Humidifier Problem |
| High Pressure Compressor 1 | High Pressure Compressor 2 | Custom Message* |
| Dirty Filter | Under Floor Water Detection | Power Failure Restart |
| Firestat Tripped | Compressor Short Cycle | Maintenance Required |
| Temperature Sensor Error | Humidity Sensor Error | Discharge Sensor Error* |
| No Water Flow* | Smoke Detector* | High Condensate Water Level* |
| Fan Motor Overload* | Standby Pump On* | Person to Contact on Alarm* |

Historical Data

| | | |
|---|---------------------------------|-----------------------------|
| 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 |
| Equipment Runtimes for: 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 Saver* | |
| Network Protocol | Low Discharge Temperature Alarm Limit* | |
| Calibrate Chilled Water Temperature Sensor* | | |

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

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

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. The compressor will come on at 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

| <i>MODEL NUMBER</i> | | <i>DTAD/U-02</i> | <i>DTAD/U-03</i> | <i>DTAD/U-04</i> | <i>DTAD/U-05</i> |
|--|-------------------|------------------|------------------|------------------|------------------|
| CAPACITY in Btu/hr - gross | | | | | |
| 80° DB/67° WB | Total | 26,700 | 39,700 | 53,900 | 62,500 |
| | 50% RH Sensible | 20,100 | 29,700 | 40,900 | 49,600 |
| 75° DB/62.5° WB | Total | 24,600 | 36,900 | 49,700 | 58,200 |
| | 50% RH Sensible | 19,300 | 28,700 | 39,200 | 47,800 |
| 75° DB/61° WB | Total | 24,000 | 35,800 | 48,500 | 56,600 |
| | 45% RH Sensible | 20,700 | 30,600 | 42,100 | 51,200 |
| 72° DB/60° WB | Total | 23,400 | 35,300 | 47,200 | 55,700 |
| | 50% RH Sensible | 18,800 | 28,100 | 38,300 | 46,800 |
| 72° DB/58.6° WB | Total | 22,700 | 34,300 | 46,300 | 54,400 |
| | 45% RH Sensible | 19,900 | 29,700 | 40,800 | 49,800 |
| 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 motors/fans | | 1/1 | 1/1 | 1/1 | 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 | | | | | |
| Type | | Scroll | Scroll | Scroll | Scroll |
| Quantity | | 1 | 1 | 1 | 1 |
| Refrigerant | | R-410A | R-410A | R-410A | R-410A |
| EVAPORATOR COIL | | | | | |
| Face area - sq ft | | 4.2 | 4.2 | 6.25 | 6.25 |
| Rows of coils | | 3 | 3 | 4 | 4 |
| Face velocity - fpm | | 190 | 286 | 256 | 320 |
| REHEAT SECTION | | | | | |
| Electric | | Standard | Standard | Standard | Standard |
| kW | | 6 | 6 | 12 | 12 |
| Capacity - Btu/hr | | 20,490 | 20,490 | 40,980 | 40,980 |
| HUMIDIFIER SECTION | | | | | |
| Steam generator | | Standard | Standard | Standard | Standard |
| kW | | 3.4 | 3.4 | 3.4 | 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 SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| CONNECTION SIZES | | | | | |
|--|--|-----|-----|-----|-----|
| Liquid line - O.D. Copper | | 1/2 | 1/2 | 1/2 | 1/2 |
| Hot gas line - O.D. Copper | | 1/2 | 1/2 | 1/2 | 1/2 |
| Condensate drain | | 3/4 | 3/4 | 3/4 | 3/4 |
| Humidifier supply | | 1/4 | 1/4 | 1/4 | 1/4 |
| (Note: Refer to Operation and Maintenance manual for recommended pipe sizing between indoor/outdoor sections.) | | | | | |

| ELECTRICAL SECTION | | Standard Motor | | | |
|--|-------------|-----------------------|----------|------------|------------|
| Electrical data based on STANDARD unit, electric reheat - YES , steam generator humidifier - YES , and STANDARD MOTOR. | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 47/58/60 | 54/66/70 | 91/113/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 29/36/40 | 33/40/45 | 55/67/70 | 59/72/80 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 27/33/35 | 28/34/35 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/24/25 | 22/27/30 |

| | | | | | |
|---|-------------|----------|----------|----------|----------|
| Electrical data based on: electric reheat - NO , steam generator humidifier - YES , and STANDARD MOTOR. | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 34/42/50 | 42/51/60 | 50/61/80 | 55/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 29/36/40 | 32/40/45 | 38/46/60 | 42/51/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/18/20 | 19/23/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 13/16/20 | 16/19/25 |

| | | | | | |
|---|-------------|----------|----------|------------|------------|
| Electrical data based on: electric reheat - YES , steam generator humidifier - NO , and STANDARD MOTOR. | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 47/58/60 | 54/66/70 | 91/113/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 29/36/40 | 33/40/45 | 55/67/70 | 59/72/80 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 27/33/35 | 28/34/35 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/24/25 | 22/27/30 |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| Electrical data based on: electric reheat - NO , steam generator humidifier - NO , and STANDARD MOTOR. | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 18/22/35 | 25/30/50 | 34/40/60 | 39/46/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/15/25 | 16/19/30 | 21/26/40 | 25/30/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 11/14/20 | 12/15/20 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/9/15 | 10/12/15 |

| STANDARD MOTOR | | <i>FLA - Full load amps</i> | | | |
|-----------------------|--|-----------------------------|-----|-----|-------|
| Horsepower | | 1/2 | 3/4 | 1 | 1 1/2 |
| 208-230/1/60 | | 3.4 | 5.3 | 6.8 | 8.8 |
| 208-230/3/60 | | 2.2 | 3.0 | 3.6 | 4.8 |
| 460/3/60 | | 1.1 | 1.5 | 1.8 | 2.4 |
| 575/3/60 | | N/A | N/A | 1.4 | 2.0 |

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

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

| <i>MODEL NUMBER</i> | | <i>DTAD/U-02</i> | <i>DTAD/U-03</i> | <i>DTAD/U-04</i> | <i>DTAD/U-05</i> |
|--|----------|------------------|------------------|------------------|------------------|
| CAPACITY in Btu/hr - gross | | | | | |
| 80° DB/67° WB | Total | 27,900 | 41,300 | 55,800 | 64,800 |
| | Sensible | 22,800 | 33,500 | 46,300 | 56,800 |
| 75° DB/62.5° WB | Total | 25,700 | 38,300 | 51,700 | 60,400 |
| | Sensible | 21,800 | 32,200 | 44,500 | 54,400 |
| 75° DB/61° WB | Total | 24,900 | 37,200 | 50,400 | 58,200 |
| | Sensible | 23,400 | 34,600 | 47,900 | 58,200 |
| 72° DB/60° WB | Total | 24,400 | 36,600 | 49,300 | 57,700 |
| | Sensible | 21,200 | 31,500 | 43,400 | 53,000 |
| 72° DB/58.6° WB | Total | 23,700 | 35,600 | 48,100 | 56,000 |
| | Sensible | 22,600 | 33,500 | 46,200 | 55,700 |
| BLOWER SECTION | | | | | |
| Airflow - CFM | | 1,000 | 1,500 | 2,000 | 2,500 |
| Standard motor - horsepower | | 3/4 | 1 | 1 1/2 | 2 |
| External static pressure (E.S.P.) - inches of W.G. | | 0.5 | 0.5 | 0.5 | 0.5 |
| Number of motors/fans | | 1/1 | 1/1 | 1/1 | 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 | | 1 | 1 | 1 | 1 |
| Refrigerant | | R-410A | R-410A | R-410A | R-410A |
| EVAPORATOR COIL | | | | | |
| Face area - sq ft | | 4.2 | 4.2 | 6.25 | 6.25 |
| Rows of coils | | 3 | 3 | 4 | 4 |
| Face velocity - fpm | | 238 | 357 | 320 | 400 |
| REHEAT SECTION | | | | | |
| Electric | | Standard | Standard | Standard | Standard |
| kW | | 6 | 6 | 12 | 12 |
| Capacity - Btu/hr | | 20,490 | 20,490 | 40,980 | 40,980 |
| HUMIDIFIER SECTION | | | | | |
| Stream generator | | Standard | Standard | Standard | Standard |
| kW | | 3.4 | 3.4 | 3.4 | 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 SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| | | | | | |
|--|--|-----|-----|-----|-----|
| CONNECTION SIZES | | | | | |
| Liquid line - O.D. Copper | | 1/2 | 1/2 | 1/2 | 1/2 |
| Hot gas line - O.D. Copper | | 1/2 | 1/2 | 1/2 | 1/2 |
| Condensate drain | | 3/4 | 3/4 | 3/4 | 3/4 |
| Humidifier supply | | 1/4 | 1/4 | 1/4 | 1/4 |
| (Note: Refer to Operation and Maintenance Manual for recommended pipe sizing between indoor/outdoor sections.) | | | | | |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|------------|------------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/42/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |

| | | | | | |
|---|-------------|----------|----------|------------|------------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier -NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

| STANDARD MOTOR | | <i>FLA - full load amps</i> | | | |
|-----------------------|--|-----------------------------|-----|-------|-----|
| 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 | 4.8 | 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

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 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/MOP | 50/61/70 | 58/70/80 | 95/116/125 | N/A |
| 208-230/3/60 | FLA/MCA/MOP | 31/37/40 | 35/41/50 | 57/70/80 | N/A |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 16/19/20 | 28/34/40 | N/A |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 21/25/30 | N/A |

Electrical data based on: electric reheat - **NO**, steam generator humidifier **YES**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|-----|
| 208-230/1/60 | FLA/MCA/MOP | 37/45/50 | 45/54/70 | 54/65/80 | N/A |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 34/42/50 | 40/49/60 | N/A |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 16/19/20 | 20/24/30 | N/A |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | N/A |

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|------------|-----|
| 208-230/1/60 | FLA/MCA/MOP | 50/61/70 | 58/70/80 | 95/116/125 | N/A |
| 208-230/3/60 | FLA/MCA/MOP | 31/37/40 | 35/42/50 | 57/70/80 | N/A |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 16/20/25 | 28/34/40 | N/A |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 21/25/30 | N/A |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO** and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|-----|
| 208-230/1/60 | FLA/MCA/MOP | 21/25/35 | 29/34/50 | 34/44/70 | N/A |
| 208-230/3/60 | FLA/MCA/MOP | 14/17/25 | 18/21/30 | 24/28/45 | N/A |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 9/10/15 | 13/15/20 | N/A |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | N/A |

| |
|------------------------|
| NEXT SIZE MOTOR |
|------------------------|

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 | 2.5 | N/A |

| |
|-------------------|
| COMPRESSOR |
|-------------------|

FLA - full load amps

| | | | | | |
|--------------|--|------|------|------|-----|
| Nominal tons | | 2 | 3 | 4 | 5 |
| 208-230/1/60 | | 14.7 | 19.9 | 26.9 | N/A |
| 208-230/3/60 | | 10.4 | 13.1 | 17.6 | N/A |
| 460/3/60 | | 4.5 | 6.1 | 9.6 | N/A |
| 575/3/60 | | N/A | N/A | 6.1 | N/A |

| |
|------------------|
| CONDENSER |
|------------------|

FLA - full load amps

| | | | | |
|---------------------------------------|---------|---------|---------|---------|
| Condenser selection at 95° F ambient | DARC-03 | DARC-03 | DARC-05 | DARC-05 |
| Condenser selection at 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.)

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

AIR COOLED: Performance data at STANDARD airflow with remote outdoor condensing unit

| 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 | 26,700 | 39,700 | 53,900 | 62,500 |
| | Sensible | 20,100 | 29,700 | 40,900 | 49,600 |
| 75° DB/62.5° WB 50% RH | Total | 24,600 | 39,600 | 49,700 | 58,200 |
| | Sensible | 19,300 | 28,700 | 39,200 | 47,800 |
| 75° DB/61° WB 45% RH | Total | 24,000 | 35,800 | 48,500 | 56,600 |
| | Sensible | 20,700 | 30,600 | 42,100 | 51,200 |
| 72° DB/60° WB 50% RH | Total | 23,400 | 35,300 | 47,200 | 55,700 |
| | Sensible | 18,800 | 28,100 | 38,300 | 46,800 |
| 72° DB/58.6° WB 45% RH | Total | 22,700 | 34,300 | 46,300 | 54,400 |
| | Sensible | 19,900 | 29,700 | 40,800 | 49,800 |

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 motors/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 | | 3/4 | 1 | 1 1/2 | 2 |

COMPRESSOR

in Condensing Unit

| | | | | |
|-------------|--------|--------|--------|--------|
| Type | Scroll | Scroll | Scroll | Scroll |
| Quantity | 1 | 1 | 1 | 1 |
| Refrigerant | R-410A | R-410A | R-410A | R-410A |

EVAPORATOR COIL

| | | | | |
|---------------------|-----|-----|-----|-----|
| Face area - sq ft | 4.2 | 4.2 | 4.2 | 4.2 |
| Rows of coils | 3 | 3 | 4 | 4 |
| Face velocity - fpm | 190 | 286 | 256 | 320 |

REHEAT SECTION

| | | | | |
|-------------------|----------|----------|----------|----------|
| Electric | Standard | Standard | Standard | Standard |
| kW | 6 | 6 | 12 | 12 |
| Capacity - Btu/hr | 20,490 | 20,490 | 40,980 | 40,980 |

HUMIDIFIER SECTION

| | | | | |
|------------------|----------|----------|----------|----------|
| Steam generator | Standard | Standard | Standard | Standard |
| kW | 3.4 | 3.4 | 3.4 | 3.4 |
| Capacity - lb/hr | 10 | 10 | 10 | 10 |

AIR COOLED: Performance data at STANDARD airflow with remote outdoor condensing unit

| MODEL NUMBER | | DTAD/U-02 | DTAD/U-03 | DTAD/U-04 | DTAD/U-05 |
|--|-----------------|-----------|-----------|-----------|-----------|
| FILTER SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| CONNECTION SIZES | | | | | |
|---|--|-----|-----|-----|-----|
| Liquid line - O.D. Copper | | 1/2 | 1/2 | 1/2 | 1/2 |
| Suction line - O.D. Copper | | 3/4 | 3/4 | 3/4 | 3/4 |
| Condensate drain | | 3/4 | 3/4 | 3/4 | 3/4 |
| Humidifier supply | | 1/4 | 1/4 | 1/4 | 1/4 |
| (Note: Refer to Operation and Maintenance manual for recommended pipe sizing between indoor section and condensing unit.) | | | | | |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|----------|----------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 32/40/45 | 34/43/45 | 65/81/90 | 67/83/90 |
| 208-230/3/60 | FLA/MCA/MOP | 19/24/25 | 20/25/30 | 37/46/50 | 38/48/50 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 9/11/15 | 17/21/25 | 18/22/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 20/25/30 | 22/27/30 | 23/29/30 | 25/31/35 |
| 208-230/3/60 | FLA/MCA/MOP | 19/23/25 | 19/24/25 | 20/25/30 | 21/26/30 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 9/11/15 | 9/12/15 | 10/13/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 32/40/45 | 34/43/45 | 65/81/90 | 67/83/90 |
| 208-230/3/60 | FLA/MCA/MOP | 19/24/25 | 20/25/30 | 37/46/50 | 38/48/50 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 9/11/15 | 17/21/25 | 18/22/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

| | | | | | |
|---|-------------|------------|------------|------------|------------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 3.4/4.3/15 | 5.3/6.6/15 | 6.8/8.5/15 | 9/11/20 |
| 208-230/3/60 | FLA/MCA/MOP | 2.2/2.8/15 | 3.0/3.8/15 | 3.6/4.5/15 | 4.8/6.0/15 |
| 460/3/60 | FLA/MCA/MOP | 1.1/1.4/15 | 1.5/1.9/15 | 1.8/2.3/15 | 2.8/3.5/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

| STANDARD MOTOR | | <i>FLA - Full load amps</i> | | | |
|-----------------------|--|-----------------------------|-----|-----|-------|
| Horsepower | | 1/2 | 3/4 | 1 | 1 1/2 |
| 208-230/1/60 | | 3.4 | 5.3 | 6.8 | 8.8 |
| 208-230/3/60 | | 2.2 | 3.0 | 3.6 | 4.8 |
| 460/3/60 | | 1.1 | 1.5 | 1.8 | 2.4 |
| 575/3/60 | | N/A | N/A | N/A | N/A |

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

AIR COOLED: Performance data at STANDARD airflow with remote outdoor condensing unit

MODEL NUMBER **DTAD/U-02** **DTAD/U-03** **DTAD/U-04** **DTAD/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/MOP | 34/43/45 | 36/45/50 | 67/83/90 | 67/84/90 |
| 208-230/3/60 | FLA/MCA/MOP | 20/25/30 | 20/25/30 | 38/48/50 | 39/49/50 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 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 on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 22/27/30 | 23/29/30 | 25/31/35 | 26/32/35 |
| 208-230/3/60 | FLA/MCA/MOP | 19/24/25 | 20/25/30 | 21/26/30 | 22/28/30 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 9/12/15 | 10/13/15 | 10/13/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 34/43/45 | 64/81/90 | 66/83/90 | 67/84/90 |
| 208-230/3/60 | FLA/MCA/MOP | 20/25/30 | 37/46/50 | 38/48/50 | 39/49/50 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 17/21/25 | 18/22/25 | 18/23/25 |
| 575/3/60 | FLA/MCA/MOP | 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 | FLA/MCA/MOP | 5.3/6.6/15 | 6.8/8.5/15 | 9/11/20 | 9/12/20 |
| 208-230/3/60 | FLA/MCA/MOP | 3.0/3.8/15 | 3.6/4.5/15 | 4.8/6.0/15 | 6.0/7.5/15 |
| 460/3/60 | FLA/MCA/MOP | 1.5/1.9/15 | 1.8/2.3/15 | 2.8/3.5/15 | 3.0/3.8/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

NEXT SIZE MOTOR

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 | 4.8 | 6.0 |
| 460/3/60 | | 1.5 | 1.8 | 2.4 | 3.0 |
| 575/3/60 | | N/A | N/A | N/A | N/A |

COMPRESSOR

FLA - Full load amps

| | | | | | |
|--------------|--|------|------|------|------|
| Nominal tons | | 2 | 3 | 4 | 5 |
| 208-230/1/60 | | 14.7 | 19.9 | 26.9 | 30.1 |
| 208-230/3/60 | | 10.4 | 13.1 | 17.6 | 20.5 |
| 460/3/60 | | 4.5 | 6.1 | 9.6 | 9.6 |
| 575/3/60 | | N/A | N/A | N/A | N/A |

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

AIR COOLED: Performance data at STANDARD airflow with remote outdoor condensing unit

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

Notes: Condensing units are not available in 575 volts.

Condensing units are selected at sea level.

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

AIR COOLED: Performance data at OPTIONAL airflow with remote outdoor condensing unit

| MODEL NUMBER | | DTAD/U-02 | DTAD/U-03 | DTAD/U-04 | DTAD/U-05 |
|-----------------------------------|----------|------------------|------------------|------------------|------------------|
| CAPACITY in Btu/hr - gross | | | | | |
| 80° DB/67° WB | Total | 27,900 | 41,300 | 55,800 | 64,800 |
| | Sensible | 22,800 | 33,500 | 46,300 | 56,800 |
| 75° DB/62.5° WB | Total | 25,700 | 38,300 | 51,700 | 60,400 |
| | Sensible | 21,800 | 32,200 | 44,400 | 54,400 |
| 75° DB/61° WB | Total | 23,800 | 36,000 | 50,100 | 62,700 |
| | Sensible | 23,500 | 35,400 | 48,600 | 61,100 |
| 72° DB/60° WB | Total | 23,400 | 35,200 | 49,200 | 61,700 |
| | Sensible | 21,800 | 32,600 | 44,500 | 56,100 |
| 72° DB/58.6° WB | Total | 22,700 | 34,300 | 48,000 | 59,900 |
| | Sensible | 22,500 | 34,000 | 47,100 | 59,100 |

BLOWER SECTION

| | | | | | |
|---|--|-------|-------|-------|-------|
| Airflow - CFM | | 1,000 | 1,500 | 2,000 | 2,500 |
| Standard motor - horsepower | | 3/4 | 1 | 1 1/2 | 2 |
| External static pressure (E.S.P.) - inches of W.G . | | 0.5 | 0.5 | 0.5 | 0.5 |
| Number of motors/fans | | 1/1 | 1/1 | 1/1 | 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 |

COMPRESSOR

in Condensing Unit

| | | | | |
|-------------|--------|--------|--------|--------|
| Type | Scroll | Scroll | Scroll | Scroll |
| Quantity | 1 | 1 | 1 | 1 |
| Refrigerant | R-410A | R-410A | R-410A | R-410A |

EVAPORATOR COIL

| | | | | |
|---------------------|-----|-----|------|------|
| Face area - sq ft | 4.2 | 4.2 | 6.25 | 6.25 |
| Rows of coils | 3 | 3 | 4 | 4 |
| Face velocity - fpm | 238 | 357 | 320 | 400 |

REHEAT SECTION

| | | | | |
|-------------------|----------|----------|----------|----------|
| Electric | Standard | Standard | Standard | Standard |
| kW | 6 | 6 | 12 | 12 |
| Capacity - Btu/hr | 20,490 | 20,490 | 40,980 | 40,980 |

HUMIDIFIER SECTION

| | | | | |
|------------------|----------|----------|----------|----------|
| Steam generator | Standard | Standard | Standard | Standard |
| kW | 3.4 | 3.4 | 3.4 | 3.4 |
| Capacity - lb/hr | 10 | 10 | 10 | 10 |

AIR COOLED: Performance data at OPTIONAL airflow with remote outdoor condensing unit

| MODEL NUMBER | | DTAD/U-02 | DTAD/U-03 | DTAD/U-04 | DTAD/U-05 |
|--|-----------------|------------------|------------------|------------------|------------------|
| FILTER SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| | | | | | |
|---|--|-----|-----|-----|-----|
| CONNECTION SIZES | | | | | |
| Liquid line - O.D. Copper | | 1/2 | 1/2 | 1/2 | 1/2 |
| Suction line - O.D. Copper | | 3/4 | 3/4 | 3/4 | 3/4 |
| Condensate drain | | 3/4 | 3/4 | 3/4 | 3/4 |
| Humidifier supply | | 1/4 | 1/4 | 1/4 | 1/4 |
| (Note: Refer to Operation and Maintenance manual for recommended pipe sizing between indoor section and condensing unit.) | | | | | |

| ELECTRICAL | | Standard Motor | | | |
|---|-------------|-----------------------|----------|----------|----------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 34/43/45 | 64/81/90 | 66/83/90 | 67/84/90 |
| 208-230/3/60 | FLA/MCA/MOP | 20/25/30 | 37/46/50 | 38/48/50 | 39/49/50 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 17/21/25 | 18/22/25 | 18/23/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 22/27/30 | 23/29/30 | 25/31/35 | 26/32/35 |
| 208-230/3/60 | FLA/MCA/MOP | 19/24/25 | 20/25/30 | 21/26/30 | 22/28/30 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 9/11/15 | 10/13/15 | 10/13/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 34/43/45 | 64/81/90 | 66/83/90 | 67/84/90 |
| 208-230/3/60 | FLA/MCA/MOP | 20/25/30 | 37/46/50 | 38/48/50 | 39/49/50 |
| 460/3/60 | FLA/MCA/MOP | 9/11/15 | 17/21/25 | 18/22/25 | 18/23/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

| | | | | | |
|---|-------------|------------|------------|------------|------------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 5.3/6.6/15 | 6.8/8.5/15 | 8.8/11/15 | 9/12/15 |
| 208-230/3/60 | FLA/MCA/MOP | 3.0/3.8/15 | 3.6/4.5/15 | 5.7/7.1/15 | 6.0/7.5/15 |
| 460/3/60 | FLA/MCA/MOP | 1.5/1.9/15 | 1.8/2.3/15 | 2.8/3.5/15 | 3.0/3.8/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | N/A | N/A |

| | | | | | |
|-----------------------|--|-----|-----|-------|-----|
| STANDARD MOTOR | | | | | |
| 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 | 4.8 | 6.0 |
| 460/3/60 | | 1.5 | 1.8 | 2.4 | 3.0 |
| 575/3/60 | | N/A | N/A | N/A | N/A |

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

AIR COOLED: Performance Data at OPTIONAL airflow with remote outdoor condensing unit

MODEL NUMBER **DTAD/U-02** **DTAD/U-03** **DTAD/U-04** **DTAD/U-05**

ELECTRICAL

Next Size Motor

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **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 | N/A | N/A |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|-----|
| 208-230/1/60 | FLA/MCA/MOP | 28/29/30 | 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 | N/A | N/A |

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, 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 | N/A | N/A |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|------------|------------|------------|-----|
| 208-230/1/60 | FLA/MCA/MOP | 6.8/8.5/15 | 8.8/11/15 | 9/12/20 | 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 | N/A | N/A |

NEXT SIZE MOTOR

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 | 2.5 | N/A |

COMPRESSOR

FLA - Full load amps

| | | | | | |
|--------------|--|------|------|------|-----|
| Nominal tons | | 2 | 3 | 4 | N/A |
| 208-230/1/60 | | 14.7 | 19.9 | 26.9 | N/A |
| 208-230/3/60 | | 10.4 | 13.1 | 17.6 | N/A |
| 460/3/60 | | 4.5 | 6.1 | 9.6 | N/A |
| 575/3/60 | | N/A | N/A | 6.1 | N/A |

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

AIR COOLED: Performance data at OPTIONAL airflow with remote outdoor condensing unit

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

Notes: Condensing units are not available in 575 volts.

Condensing units are selected at sea level.

FLA - Full load amps

MCA - Minimum circuit amps (wire sizing amps)

MOP - Maximum overcurrent protection device amps

WATER COOLED: Performance data at STANDARD airflow

| MODEL NUMBER: | DTWD/U-02 | DTWD/U-03 | DTWD/U-04 | DTWD/U-05 | |
|---|-------------------|------------------|------------------|------------------|----------|
| CAPACITY in Btu/hr - gross | | | | | |
| 80° DB/67° WB | Total | 30,000 | 44,700 | 60,300 | 70,200 |
| 50% RH | Sensible | 21,400 | 31,700 | 43,400 | 52,600 |
| 75° DB/62.5° WB | Total | 27,700 | 41,300 | 55,700 | 65,100 |
| 50% RH | Sensible | 20,700 | 30,600 | 41,900 | 50,800 |
| 75° DB/61° WB | Total | 26,800 | 40,000 | 53,800 | 63,300 |
| 45% RH | Sensible | 21,900 | 32,500 | 44,400 | 54,200 |
| 72° DB/60° WB | Total | 26,400 | 39,300 | 53,000 | 62,300 |
| 50% RH | Sensible | 20,200 | 29,900 | 41,000 | 49,700 |
| 72° DB/58.6° WB | Total | 26,100 | 38,300 | 51,500 | 60,900 |
| 45% RH | Sensible | 21,500 | 31,600 | 43,200 | 52,800 |
| 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 motors/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 |
| COMPRESSORS | | | | | |
| Type | | Scroll | Scroll | Scroll | Scroll |
| Quantity | | 1 | 1 | 1 | 1 |
| Refrigerant type | | R-410A | R-410A | R-410A | R-410A |
| EVAPORATOR COIL | | | | | |
| Face area - sq ft | | 4.2 | 4.2 | 6.25 | 6.25 |
| Rows of coils | | 3 | 3 | 4 | 4 |
| Face velocity - fpm | | 190 | 286 | 256 | 320 |
| REHEAT SECTION | | | | | |
| Electric | | Standard | Standard | Standard | Standard |
| kW | | 6 | 6 | 12 | 12 |
| Capacity - Btu/hr | | 20,490 | 20,490 | 40,980 | 40,980 |
| HUMIDIFIER SECTION | | | | | |
| Steam generator | | Standard | Standard | Standard | Standard |
| kW | | 3.4 | 3.4 | 3.4 | 3.4 |
| Capacity - lb/hr | | 10 | 10 | 10 | 10 |

WATER COOLED: Performance data at STANDARD airflow

| MODEL NUMBER: | | DTWD/U-02 | DTWD/U-03 | DTWD/U-04 | DTWD/U-05 |
|--|-----------------|------------------|------------------|------------------|------------------|
| FILTER SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| CONNECTION SIZES | | | | | |
|--|--|-----|-----|-------|-------|
| Condenser water supply - O.D. Copper | | 3/4 | 3/4 | 1 1/8 | 1 1/8 |
| Condenser water return - 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 | | 1/4 | 1/4 | 1/4 | 1/4 |
| (Note: Refer to Operation and Maintenance Manual for piping information between indoor unit and water source.) | | | | | |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|------------|------------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 47/58/60 | 54/66/70 | 91/113/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 29/36/40 | 33/40/45 | 55/67/70 | 59/72/80 |
| 460/3/60 | FLA/MCA/MOP | 12/15/20 | 15/19/20 | 27/33/35 | 28/34/35 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/24/25 | 22/27/30 |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 34/42/50 | 42/51/60 | 50/61/80 | 55/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 29/36/40 | 32/40/45 | 38/46/60 | 42/51/60 |
| 460/3/60 | FLA/MCA/MOP | 12/15/20 | 15/18/20 | 19/23/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 13/16/20 | 16/19/25 |

| | | | | | |
|--|-------------|----------|----------|------------|------------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 47/58/60 | 54/66/70 | 91/113/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 29/36/40 | 33/40/45 | 55/67/70 | 59/72/80 |
| 460/3/60 | FLA/MCA/MOP | 12/15/20 | 15/19/20 | 27/33/35 | 28/34/35 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/24/25 | 22/27/30 |

| | | | | | |
|---|-------------|------------|----------|----------|----------|
| <u>Electric data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 18/22/35 | 25/30/50 | 34/40/60 | 39/46/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/15/25 | 16/19/30 | 21/26/40 | 25/30/50 |
| 460/3/60 | FLA/MCA/MOP | 4.6/5.5/15 | 8/9/15 | 11/14/20 | 12/15/20 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/9/15 | 10/12/15 |

| STANDARD MOTOR | | <i>FLA - Full load amps</i> | | | |
|-----------------------|-----|-----------------------------|-----|-----|-------|
| Horsepower | | 1/2 | 3/4 | 1 | 1 1/2 |
| 208-230/1/60 | FLA | 3.4 | 5.3 | 6.8 | 8.8 |
| 208-230/3/60 | FLA | 2.2 | 3.0 | 3.6 | 4.8 |
| 460/3/60 | FLA | 1.1 | 1.5 | 1.8 | 2.4 |
| 575/3/60 | FLA | N/A | N/A | 1.4 | 2.0 |

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

WATER COOLED: Performance data at STANDARD airflow

MODEL NUMBER: *DTWD/U-02* *DTWD/U-03* *DTWD/U-04* *DTWD/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/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|------------|------------|
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

NEXT SIZE MOTOR

FLA - Full load amps

| | | | | | |
|--------------|-----|-----|-----|-------|-----|
| Horsepower | | 3/4 | 1 | 1 1/2 | 2 |
| 208-230/1/60 | FLA | 5.3 | 6.8 | 8.8 | 9.3 |
| 208-230/3/60 | FLA | 3.6 | 3.6 | 4.8 | 6.0 |
| 460/3/60 | FLA | 1.8 | 1.8 | 2.4 | 3.0 |
| 575/3/60 | FLA | N/A | N/A | 2.0 | 2.5 |

COMPRESSOR

FLA - Full load amps

| | | | | | |
|--------------|-----|------|------|------|------|
| Nominal tons | | 2 | 3 | 4 | 5 |
| 208-230/1/60 | FLA | 14.7 | 19.9 | 26.9 | 30.1 |
| 208-230/3/60 | FLA | 10.4 | 13.1 | 17.6 | 20.5 |
| 460/3/60 | FLA | 4.5 | 6.1 | 9.6 | 9.6 |
| 575/3/60 | FLA | N/A | N/A | 6.1 | 7.6 |

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

WATER COOLED: Performance data at STANDARD airflow

MODEL NUMBER: *DTWD/U-02* *DTWD/U-03* *DTWD/U-04* *DTWD/U-05*

| |
|------------------------|
| CONDENSER WATER |
|------------------------|

Requirements at maximum design water pressure of 150 psi (high pressure optional).

| | | | | | |
|----------------------------------|-----------|-----|------|------|------|
| 65° F entering fluid temperature | GPM | 2.6 | 3.9 | 5.2 | 6.5 |
| | PD in PSI | 0.9 | 1.9 | 0.9 | 1.2 |
| 75° F entering fluid temperature | GPM | 4.2 | 6.2 | 8.3 | 10.4 |
| | PD in PSI | 1.6 | 5.8 | 1.5 | 2.5 |
| 85° F entering fluid temperature | GPM | 6.0 | 9.0 | 12.0 | 15.0 |
| | PD in PSI | 3.2 | 7.5 | 3.5 | 5.0 |
| With fluid cooler | GPM | 7.0 | 10.5 | 14 | 17.5 |
| | PD in PSI | 4.0 | 8.2 | 4.4 | 6.5 |

| |
|-----------------------|
| PUMP SELECTION |
|-----------------------|

At design flow

| | | | | | |
|----------------------|-----|-----|-----|-----|-----|
| Horsepower | | 3/4 | 3/4 | 1 | 1 |
| Pump electrical data | | | | | |
| 208-230/1/60 | FLA | 4.8 | 4.8 | 5.8 | 5.8 |
| 208-230/3/60 | FLA | 2.6 | 2.6 | 3.2 | 3.2 |
| 460/3/60 | FLA | 1.3 | 1.3 | 1.6 | 1.6 |

FLA - Full Load Amps

WATER COOLED: Performance data at OPTIONAL airflow

| <i>MODEL NUMBER:</i> | <i>DTWD/U-02</i> | <i>DTWD/U-03</i> | <i>DTWD/U-04</i> | <i>DTWD/U-05</i> | |
|--|-------------------|------------------|------------------|------------------|------------------|
| CAPACITY in Btu/hr - gross | | | | | |
| 80° DB/67° WB 50% RH | Total Sensible | 31,400 24,200 | 46,300 35,500 | 62,800 49,100 | 73,100 59,700 |
| 75° DB/62.5° WB 50% RH | Total Sensible | 29,000 23,200 | 43,200 34,300 | 58,400 47,300 | 67,800 57,400 |
| 75° DB/61° WB 45% RH | Total Sensible | 28,200 24,900 | 41,700 36,500 | 56,500 50,500 | 65,700 61,500 |
| 72° DB/60° WB 50% RH | Total Sensible | 27,600 22,600 | 41,300 33,500 | 55,800 46,200 | 64,600 56,000 |
| 72° DB/58.6° WB 45% RH | Total Sensible | 27,000 24,100 | 39,800 35,400 | 54,000 48,900 | 63,300 59,800 |
| BLOWER SECTION | | | | | |
| Airflow - CFM | 1,000 | 1,500 | 2,000 | 2,500 | |
| Standard motor - horsepower | 3/4 | 1 | 1 1/2 | 2 | |
| External static pressure (E.S.P.) - inches of W.G. | 0.5 | 0.5 | 0.5 | 0.5 | |
| Number motors/fans | 1/1 | 1/1 | 1/1 | 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 | 1 | 1 | 1 | 1 | |
| Refrigerant type | R-410A | R-410A | R-410A | R-410A | |
| EVAPORATOR COIL | | | | | |
| Face area - sq ft | 4.2 | 4.2 | 6.25 | 6.25 | |
| Rows of coils | 3 | 3 | 4 | 4 | |
| Face velocity FPM | 238 | 357 | 320 | 400 | |
| REHEAT SECTION | | | | | |
| Electric | Standard | Standard | Standard | Standard | |
| kW | 6 | 6 | 12 | 12 | |
| Capacity - Btu/hr | 20,490 | 20,490 | 40,980 | 40,980 | |
| HUMIDIFIER SECTION | | | | | |
| Steam generator | Standard | Standard | Standard | Standard | |
| kW | 3.4 | 3.4 | 3.4 | 3.4 | |
| Capacity - lb/hr | 10 | 10 | 10 | 10 | |

WATER COOLED: Performance data at OPTIONAL airflow

| MODEL NUMBER: | | DTWD/U-02 | DTWD/U-03 | DTWD/U-04 | DTWD/U-05 |
|--|-----------------|------------------|------------------|------------------|------------------|
| FILTER SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - Inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| CONNECTION SIZES | | | | | |
|--|--|-----|-----|-------|-------|
| Condenser water supply - O.D. Copper | | 3/4 | 3/4 | 1 1/8 | 1 1/8 |
| Condenser water return - 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 | | 1/4 | 1/4 | 1/4 | 1/4 |
| (Note: Refer to Operation and Maintenance Manual for piping information between indoor unit and water source.) | | | | | |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|------------|------------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/1/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electric data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/60/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |

| | | | | | |
|--|-------------|----------|----------|------------|------------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

| | | | | | |
|---|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

| STANDARD MOTOR | | <i>FLA - Full load amps</i> | | | |
|-----------------------|-----|-----------------------------|-----|-------|-----|
| Horsepower | | 3/4 | 1 | 1 1/2 | 2 |
| 208-230/1/60 | FLA | 5.3 | 6.8 | 8.8 | 9.3 |
| 208-230/3/60 | FLA | 3.0 | 3.6 | 4.8 | 6.0 |
| 460/3/60 | FLA | 1.5 | 1.8 | 2.8 | 3.0 |
| 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 amp

WATER COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER: *DTWD/U-02* *DTWD/U-03* *DTWD/U-04* *DTWD/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/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/1/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

Electric data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/60/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|------------|------------|
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

NEXT SIZE MOTOR

FLA - Full load amps

| | | | | | |
|--------------|-----|-----|-------|------|-----|
| 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

FLA - Full load amps

| | | | | | |
|--------------|-----|------|------|------|-----|
| Nominal tons | | 2 | 3 | 4 | N/A |
| 208-230/1/60 | FLA | 14.7 | 19.9 | 26.9 | N/A |
| 208-230/3/60 | FLA | 10.4 | 13.1 | 17.6 | N/A |
| 460/3/60 | FLA | 4.5 | 6.1 | 9.6 | N/A |
| 575/3/60 | FLA | N/A | N/A | 6.1 | N/A |

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

WATER COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER: *DTWD/U-02* *DTWD/U-03* *DTWD/U-04* *DTWD/U-05*

CONDENSER WATER

Requirements at maximum design water pressure of 150 psi (high pressure optional).

| | | | | | |
|----------------------------------|-----------|-----|------|------|------|
| 65° F entering fluid temperature | GPM | 2.6 | 3.9 | 5.2 | 6.5 |
| | PD in PSI | 0.9 | 1.9 | 0.9 | 1.2 |
| 75° F entering fluid temperature | GPM | 4.2 | 6.2 | 8.3 | 10.4 |
| | PD in PSI | 1.6 | 5.8 | 1.5 | 2.5 |
| 85° F entering fluid temperature | GPM | 6.0 | 9.0 | 12.0 | 15.0 |
| | PD in PSI | 3.2 | 7.5 | 3.5 | 5.0 |
| With fluid cooler | GPM | 7.0 | 10.5 | 14.0 | 17.5 |
| | PD in PSI | 4.0 | 8.2 | 4.4 | 6.5 |

PUMP SELECTION

At design flow

| | | | | | |
|------------|--|-----|-----|---|---|
| Horsepower | | 3/4 | 3/4 | 1 | 1 |
|------------|--|-----|-----|---|---|

PUMP ELECTRICAL DATA

| | | | | | |
|--------------|-----|-----|-----|-----|-----|
| 208-230/1/60 | FLA | 4.8 | 4.8 | 5.8 | 5.8 |
| 208-230/3/60 | FLA | 2.6 | 2.6 | 3.2 | 3.2 |
| 460/3/60 | FLA | 1.3 | 1.3 | 1.6 | 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° WB 50% RH | Total Sensible | 25,800 19,700 | 38,100 29,200 | 52,100 40,200 | 61,200 49,100 |
| 75° DB/62.5° WB 50% RH | Total Sensible | 23,800 19,000 | 35,700 28,200 | 48,100 38,600 | 56,400 47,100 |
| 75° DB/61° WB 45% RH | Total Sensible | 23,100 20,300 | 34,600 30,100 | 46,600 41,200 | 54,800 50,400 |
| 72° DB/60° WB 50% RH | Total Sensible | 22,700 18,500 | 34,000 27,500 | 45,700 37,600 | 53,500 45,900 |
| 72° DB/58.6° WB 45% RH | Total Sensible | 22,100 19,600 | 33,100 29,200 | 44,500 39,900 | 52,100 48,800 |
| 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 motors/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 | |
| COMPRESSORS | | | | | |
| Type | Scroll | Scroll | Scroll | Scroll | |
| Quantity | 1 | 1 | 1 | 1 | |
| Refrigerant type | R-410A | R-410A | R-410A | R-410A | |
| EVAPORATOR COIL | | | | | |
| Face area - sq ft | 4.2 | 4.2 | 6.25 | 6.25 | |
| Rows of coils | 3 | 3 | 4 | 4 | |
| Face velocity - fpm | 190 | 286 | 256 | 320 | |
| REHEAT SECTION | | | | | |
| Electric | Standard | Standard | Standard | Standard | |
| kW | 6 | 6 | 12 | 12 | |
| Capacity - Btu/hr | 20,490 | 20,490 | 40,980 | 40,980 | |
| HUMIDIFIER SECTION | | | | | |
| Steam generator | Standard | Standard | Standard | Standard | |
| kW | 3.4 | 3.4 | 3.4 | 3.4 | |
| Capacity - lb/hr | 10 | 10 | 10 | 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 | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| CONNECTION SIZES | | | | | |
|--|--|-----|-----|-------|-------|
| Condenser water supply - O.D. Copper | | 3/4 | 3/4 | 1 1/8 | 1 1/8 |
| Condenser water return - 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 | | 1/4 | 1/4 | 1/4 | 1/4 |
| (Note: Refer to Operation and Maintenance Manual for piping information between indoor unit and dry cooler.) | | | | | |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|------------|------------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 47/58/60 | 54/66/70 | 91/113/125 | 97/119/125 |
| 208-230/1/60 | FLA/MCA/MOP | 29/36/40 | 33/40/45 | 55/67/70 | 59/72/80 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 27/33/35 | 28/34/35 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/24/25 | 22/27/30 |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 34/42/50 | 42/51/60 | 50/61/80 | 55/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 29/36/40 | 32/40/45 | 38/46/60 | 42/51/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/18/20 | 19/23/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 13/16/20 | 16/19/25 |

| | | | | | |
|--|-------------|----------|----------|------------|------------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 47/58/60 | 54/66/70 | 91/113/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 29/36/40 | 33/40/45 | 55/67/70 | 59/72/80 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 27/33/35 | 28/34/35 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/24/25 | 22/27/30 |

| | | | | | |
|---|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 18/22/35 | 25/30/50 | 34/40/60 | 39/46/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/15/25 | 16/17/30 | 21/26/40 | 25/30/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 11/14/20 | 12/15/20 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/9/15 | 10/12/15 |

| STANDARD MOTOR | | <i>FLA - Full load amps</i> | | | |
|-----------------------|-----|-----------------------------|-----|-----|-------|
| Horsepower | | 1/2 | 3/4 | 1 | 1 1/2 |
| 208-230/1/60 | FLA | 3.4 | 5.3 | 6.8 | 8.8 |
| 208-230/3/60 | FLA | 2.2 | 3.0 | 3.6 | 4.8 |
| 460/3/60 | FLA | 1.1 | 1.5 | 1.8 | 2.8 |
| 575/3/60 | FLA | N/A | N/A | 1.4 | 2.0 |

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

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/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|------------|------------|
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

NEXT SIZE MOTOR

FLA - Full load amps

| | | | | | |
|--------------|-----|-----|-----|-------|-----|
| Horsepower | | 3/4 | 1 | 1 1/2 | 2 |
| 208-230/1/60 | FLA | 5.3 | 6.8 | 8.8 | 9.3 |
| 208-230/3/60 | FLA | 3.0 | 3.6 | 4.8 | 6.0 |
| 460/3/60 | FLA | 1.5 | 1.8 | 2.4 | 3.0 |
| 575/3/60 | FLA | N/A | N/A | 2.0 | 2.5 |

COMPRESSOR

FLA - Full load amps

| | | | | | |
|--------------|-----|------|------|------|------|
| Nominal tons | | 2 | 3 | 4 | 5 |
| 208-230/1/60 | FLA | 14.7 | 19.9 | 26.9 | 30.1 |
| 208-230/3/60 | FLA | 10.4 | 13.1 | 17.6 | 20.5 |
| 460/3/60 | FLA | 4.5 | 6.1 | 9.6 | 9.6 |
| 575/3/60 | FLA | N/A | N/A | 6.1 | 7.6 |

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

GLYCOL COOLED: Performance data at STANDARD airflow

| <i>MODEL NUMBER:</i> | | <i>DTGD/U-02</i> | <i>DTGD/U-03</i> | <i>DTGD/U-04</i> | <i>DTGD/U-05</i> |
|--------------------------------|-------------|------------------|------------------|------------------|------------------|
| FLUID COOLER SELECTIONS | | | | | |
| Fluid cooler at 95° F ambient | | DAFC-06 | DAFC-06 | DAFC-06 | DAFC-07 |
| 208-230/1/60 | FLA/MCA/MOP | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 |
| 208-230/3/60 | FLA/MCA/MOP | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 |
| 460/3/60 | FLA/MCA/MOP | 2.1/2.6/15 | 2.1/2.6/15 | 2.1/2.6/15 | 2.1/2.6/15 |
| Fluid cooler at 100° F ambient | | DAFC-06 | DAFC-06 | DAFC-09 | DAFC-15 |
| 208-230/1/60 | FLA/MCA/MOP | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 | 8.4/9.5/15 |
| 208-230/3/60 | FLA/MCA/MOP | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 | 8.4/9.5/15 |
| 460/3/60 | FLA/MCA/MOP | 2.1/2.6/15 | 2.1/2.6/15 | 2.1/2.6/15 | 4.2/4.7/15 |

CONDENSER WATER

Requirements at maximum design water pressure of 150 psi (high pressure optional).

| | | | | | |
|----------------------------------|-----------|-----|------|------|------|
| 65° F entering fluid temperature | GPM | 2.6 | 3.9 | 5.2 | 6.5 |
| | PD in PSI | 0.9 | 1.9 | 0.9 | 1.2 |
| 75° F entering fluid temperature | GPM | 4.2 | 6.2 | 8.3 | 10.4 |
| | PD in PSI | 1.6 | 5.8 | 1.5 | 2.5 |
| 85° F entering fluid temperature | GPM | 6.0 | 9.0 | 12.0 | 15.0 |
| | PD in PSI | 3.2 | 7.5 | 3.5 | 5.0 |
| With fluid cooler | GPM | 7.0 | 10.5 | 14.0 | 17.5 |
| | PD in PSI | 4.0 | 8.2 | 4.4 | 6.5 |

PUMP SELECTION

At design flow

| | | | | | |
|------------|--|-----|-----|---|---|
| Horsepower | | 3/4 | 3/4 | 1 | 1 |
|------------|--|-----|-----|---|---|

PUMP ELECTRICAL DATA

| | | | | | |
|--------------|-----|-----|-----|-----|-----|
| 208-230/1/60 | FLA | 4.8 | 4.8 | 5.8 | 5.8 |
| 208-230/3/60 | FLA | 2.6 | 2.6 | 3.2 | 3.2 |
| 460/3/60 | FLA | 1.3 | 1.3 | 1.6 | 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

GLYCOL COOLED: Performance data at OPTIONAL airflow

| <i>MODEL NUMBER:</i> | <i>DTGD/U-02</i> | <i>DTGD/U-03</i> | <i>DTGD/U-04</i> | <i>DTGD/U-05</i> | |
|---|-------------------|------------------|------------------|------------------|------------------|
| CAPACITY in Btu/hr - gross | | | | | |
| 80° DB/67° WB 50% RH | Total Sensible | 27,000 22,500 | 40,100 33,100 | 54,000 45,600 | 62,800 55,800 |
| 75° DB/62.5° WB 50% RH | Total Sensible | 24,900 21,500 | 37,000 31,700 | 50,100 43,800 | 58,300 53,500 |
| 75° DB/61° WB 45% RH | Total Sensible | 24,000 23,100 | 36,000 34,100 | 48,500 47,000 | 56,500 56,500 |
| 72° DB/60° WB 50% RH | Total Sensible | 23,600 20,900 | 35,200 30,900 | 47,700 42,700 | 55,600 52,100 |
| 72° DB/58.6° WB 45% RH | Total Sensible | 22,900 22,300 | 34,500 33,000 | 46,300 45,500 | 54,600 54,300 |
| BLOWER SECTION | | | | | |
| Airflow - CFM | 1,000 | 1,500 | 2,000 | 2,500 | |
| Standard motor - horsepower | 3/4 | 1 | 1 1/2 | 2 | |
| External static pressure (E.S.P.) - inches of W.G.0.5 | 0.5 | 0.5 | 0.5 | | |
| Number of motors/fans | 1/1 | 1/1 | 1/1 | 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 | 1 | 1 | 1 | 1 | |
| Refrigerant type | R-410A | R-410A | R-410A | R-410A | |
| EVAPORATOR COIL | | | | | |
| Face area - sq ft | 4.2 | 4.2 | 6.25 | 6.25 | |
| Rows of coils | 3 | 3 | 4 | 4 | |
| Face velocity - fpm | 238 | 357 | 320 | 400 | |
| REHEAT SECTION | | | | | |
| Electric | Standard | Standard | Standard | Standard | |
| kW | 6 | 6 | 12 | 12 | |
| Capacity - Btu/hr | 20,490 | 20,490 | 40,980 | 40,980 | |
| HUMIDIFIER SECTION | | | | | |
| Steam generator | Standard | Standard | Standard | Standard | |
| kW | 3.4 | 3.4 | 3.4 | 3.4 | |
| Capacity - lb/hr | 10 | 10 | 10 | 10 | |

GLYCOL COOLED: Performance data at OPTIONAL airflow

| MODEL NUMBER: | | DTGD/U-02 | DTGD/U-03 | DTGD/U-04 | DTGD/U-05 |
|--|-----------------|------------------|------------------|------------------|------------------|
| FILTER SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| | | | | | |
|--|--|-----|-----|-------|-------|
| CONNECTION SIZES | | | | | |
| Condenser water supply - O.D. Copper | | 3/4 | 3/4 | 1 1/8 | 1 1/8 |
| Condenser water return - 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 | | 1/4 | 1/4 | 1/4 | 1/4 |
| (Note: Refer to Operation and Maintenance Manual for piping information between indoor unit and dry cooler.) | | | | | |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|------------|------------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

| | | | | | |
|--|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |

| | | | | | |
|--|-------------|----------|----------|------------|------------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

| | | | | | |
|---|-------------|----------|----------|----------|----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

| STANDARD MOTOR | | <i>FLA - Full load amps</i> | | | |
|-----------------------|-----|-----------------------------|-----|-------|-----|
| Horsepower | | 3/4 | 1 | 1 1/2 | 2 |
| 208-230/1/60 | FLA | 5.3 | 6.8 | 8.8 | 9.3 |
| 208-230/3/60 | FLA | 3.0 | 3.6 | 4.8 | 6.0 |
| 460/3/60 | FLA | 1.5 | 1.8 | 2.8 | 3.0 |
| 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

GLYCOL COOLED: Performance data at OPTIONAL 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/MOP | 49/60/70 | 56/68/80 | 93/115/125 | N/A |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | N/A |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | N/A |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | N/A |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|-----|
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | N/A |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | N/A |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | N/A |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | N/A |

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|------------|-----|
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | N/A |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | N/A |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | N/A |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | N/A |

Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|-----|
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | N/A |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | N/A |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | N/A |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | N/A |

NEXT SIZE MOTOR

| | | | | | |
|--------------|-----|-----|-------|------|-----|
| 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 | 14.7 | 19.9 | 26.9 | N/A |
| 208-230/3/60 | FLA | 10.4 | 13.1 | 17.6 | N/A |
| 460/3/60 | FLA | 4.5 | 6.1 | 9.6 | N/A |
| 575/3/60 | FLA | N/A | N/A | 6.1 | N/A |

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

GLYCOL COOLED: Performance data at OPTIONAL airflow

| MODEL NUMBER: | | DTGD/U-02 | DTGD/U-03 | DTGD/U-04 | DTGD/U-05 |
|--------------------------------|-------------|------------------|------------------|------------------|------------------|
| FLUID COOLER SELECTION | | Electrical Data | | | |
| Fluid cooler at 95° F ambient | | DAFC-06 | DAFC-06 | DAFC-06 | DAFC-07 |
| 208-230/1/60 | FLA/MCA/MOP | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 |
| 208-230/3/60 | FLA/MCA/MOP | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 |
| 460/3/60 | FLA/MCA/MOP | 2.1/2.6/15 | 2.1/2.6/15 | 2.1/2.6/15 | 2.1/2.6/15 |
| Fluid cooler at 100° F ambient | | DAFC-06 | DAFC-06 | DAFC-09 | DAFC-15 |
| 208-230/1/60 | FLA/MCA/MOP | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 | 8.4/9.5/15 |
| 208-230/3/60 | FLA/MCA/MOP | 4.2/5.3/15 | 4.2/5.3/15 | 4.2/5.3/15 | 8.4/9.5/15 |
| 460/3/60 | FLA/MCA/MOP | 2.1/2.6/15 | 2.1/2.6/15 | 2.1/2.6/15 | 4.2/4.7/15 |

CONDENSER WATER

Requirements at maximum design water pressure of 150 psi (high pressure optional).

| | | | | | |
|----------------------------------|-----------|-----|------|------|------|
| 65° F entering fluid temperature | GPM | 2.6 | 3.9 | 5.2 | 6.5 |
| | PD in PSI | 0.9 | 1.9 | 0.9 | 1.2 |
| 75° F entering fluid temperature | GPM | 4.2 | 6.2 | 8.3 | 10.4 |
| | PD in PSI | 1.6 | 5.8 | 1.5 | 2.5 |
| 85° F entering fluid temperature | GPM | 6.0 | 9.0 | 12.0 | 15.0 |
| | PD in PSI | 3.2 | 7.5 | 3.5 | 5.0 |
| With fluid cooler | GPM | 7.0 | 10.5 | 14.0 | 17.5 |
| | PD in PSI | 4.0 | 8.2 | 4.4 | 6.5 |

PUMP SELECTION

At design flow

| | | | | | |
|------------|--|-----|-----|---|---|
| Horsepower | | 3/4 | 3/4 | 1 | 1 |
|------------|--|-----|-----|---|---|

PUMP ELECTRICAL DATA

| | | | | | |
|--------------|-----|-----|-----|-----|-----|
| 208-230/1/60 | FLA | 4.8 | 4.8 | 5.8 | 5.8 |
| 208-230/3/60 | FLA | 2.6 | 2.6 | 3.2 | 3.2 |
| 460/3/60 | FLA | 1.3 | 1.3 | 1.6 | 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

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

| MODEL NUMBER | | DT*D/U-02 | DT*D/U-03 | DT*D/U-04 | DT*D/U-05 |
|-----------------------------------|----------|------------------|------------------|------------------|------------------|
| CAPACITY in Btu/hr - gross | | | | | |
| 75° DB/62.5° WB | Total | 24,600 | 36,900 | 49,700 | 58,200 |
| 50% RH | Sensible | 19,300 | 28,700 | 39,200 | 47,800 |
| 72° DB/60° WB | Total | 23,400 | 35,300 | 47,200 | 55,700 |
| 50% RH | Sensible | 18,800 | 28,100 | 38,300 | 46,800 |
| Rows of coils | | 4 | 4 | 4 | 4 |
| GPM | | 7.0 | 10.5 | 14.0 | 17.5 |
| Pressure drop in PSI | | 1.8 | 3.6 | 6.5 | 9.7 |

| BLOWER SECTION | | | | | |
|--|--|-----|-------|-------|-------|
| Airflow - CFM | | 800 | 1,200 | 1,600 | 2,000 |
| Standard motor - horsepower (with Auxiliary CW coil) | | 3/4 | 1 | 1 1/2 | 2 |
| External static pressure (E.S.P.) - inches of W.G. | | 0.5 | 0.5 | 0.5 | 0.5 |
| Number of motors/fans | | 1/1 | 1/1 | 1/1 | 1/1 |
| Maximum E.S.P. | | 0.8 | 1.0 | 1.0 | 1.2 |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|------------|------------|
| <u>Electrical data based on standard unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 10/12/15 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

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

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

| MODEL NUMBER | | DT*D/U-02 | DT*D/U-03 | DT*D/U-04 | DT*D/U-05 |
|-----------------------------------|----------|------------------|------------------|------------------|------------------|
| CAPACITY in Btu/hr - gross | | | | | |
| 75° DB/62.5° WB | Total | 25,700 | 38,300 | 51,700 | 60,400 |
| 50% RH | Sensible | 21,800 | 32,200 | 44,500 | 54,400 |
| 72° DB/60° WB | Total | 24,400 | 36,600 | 49,300 | 57,700 |
| 50% RH | Sensible | 21,200 | 31,500 | 43,400 | 53,000 |
| Rows of coils | | 4 | 4 | 4 | 4 |
| GPM | | 7.0 | 10.5 | 14.0 | 17.5 |
| Pressure drop in PSI | | 1.8 | 3.6 | 6.5 | 9.7 |

| BLOWER SECTION | | | | | |
|--|--|-------|-------|-------|-------|
| Airflow - CFM | | 1,000 | 1,500 | 2,000 | 2,500 |
| Standard motor - horsepower (with Auxiliary CW coil) | | 1 | 1 1/2 | 2 | 2 |
| External static pressure (E.S.P.) - inches of W.G. | | 0.5 | 0.5 | 0.5 | 0.5 |
| Number of motors/fans | | 1/1 | 1/1 | 1/1 | 1/1 |
| Maximum E.S.P. | | 0.7 | 0.9 | 1.0 | 1.0 |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|------------|------------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 26/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

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

ENERGY SAVER: Performance data at STANDARD airflow

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

| 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 | 23,800 | 35,700 | 48,100 | 56,400 |
| | Sensible | 19,000 | 28,200 | 38,600 | 47,100 |
| 72° F DB/60° F WB 50% RH | Total | 22,700 | 34,000 | 45,700 | 53,500 |
| | Sensible | 18,500 | 27,500 | 37,600 | 45,900 |
| Rows of coils | | 4 | 4 | 4 | 4 |
| GPM | | 7.0 | 10.5 | 14.0 | 17.5 |
| Pressure drop - PSI | | 4.6 | 10.1 | 9.2 | 14.6 |

| BLOWER SECTION | | | | | |
|--|--|-----|-------|-------|-------|
| Airflow - CFM | | 800 | 1,200 | 1,600 | 2,000 |
| Standard motor - horsepower (with Energy Saver coil) | | 3/4 | 1 | 1 1/2 | 2 |
| External static pressure (E.S.P.) - inches of W.G. | | 0.5 | 0.5 | 0.5 | 0.5 |
| Number of motors/fans | | 1/1 | 1/1 | 1/1 | 1/1 |
| Maximum E.S.P. | | 0.8 | 1.0 | 1.0 | 1.2 |

| ELECTRICAL SECTION | | Standard Motor | | | |
|---|-------------|-----------------------|----------|------------|------------|
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

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

ENERGY SAVER: Performance data at OPTIONAL airflow

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

| 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 | 24,900 | 37,000 | 50,100 | 58,300 |
| | Sensible | 21,500 | 31,700 | 43,800 | 53,500 |
| 72° F DB/60° F WB 50% RH | Total | 23,600 | 35,200 | 47,700 | 55,600 |
| | Sensible | 20,900 | 30,900 | 42,700 | 52,100 |
| Rows of coils | | 4 | 4 | 4 | 4 |
| GPM | | 7.0 | 10.5 | 14.0 | 17.5 |
| Pressure drop - PSI | | 4.6 | 10.1 | 9.2 | 14.6 |

BLOWER SECTION

| | | | | |
|--|-------|-------|-------|-------|
| Airflow - CFM | 1,000 | 1,500 | 2,000 | 2,500 |
| Standard motor - horsepower (with Energy Saver coil) | 1 | 1 1/2 | 2 | 2 |
| External static pressure (E.S.P.) - inches of W.G. | 0.5 | 0.5 | 0.5 | 0.5 |
| Number of motors/fans | 1/1 | 1/1 | 1/1 | 1/1 |
| Maximum E.S.P. | 0.7 | 0.9 | 1.0 | 1.0 |

ELECTRICAL SECTION

Standard Motor

Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|------------|------------|
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 36/44/50 | 43/52/60 | 52/63/80 | 56/67/90 |
| 208-230/3/60 | FLA/MCA/MOP | 30/36/40 | 33/40/45 | 39/47/60 | 43/52/60 |
| 460/3/60 | FLA/MCA/MOP | 13/16/20 | 15/19/20 | 20/24/30 | 20/24/30 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 16/19/25 |

Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|------------|------------|
| 208-230/1/60 | FLA/MCA/MOP | 49/60/70 | 56/68/80 | 93/115/125 | 97/119/125 |
| 208-230/3/60 | FLA/MCA/MOP | 30/37/40 | 33/41/50 | 56/69/70 | 60/73/80 |
| 460/3/60 | FLA/MCA/MOP | 14/17/20 | 15/19/20 | 28/34/35 | 28/34/40 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 20/25/30 | 22/27/30 |

Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.

| | | | | | |
|--------------|-------------|----------|----------|----------|----------|
| 208-230/1/60 | FLA/MCA/MOP | 20/24/35 | 27/32/50 | 36/42/60 | 39/47/70 |
| 208-230/3/60 | FLA/MCA/MOP | 13/16/25 | 17/20/30 | 22/27/40 | 27/32/50 |
| 460/3/60 | FLA/MCA/MOP | 6/7/15 | 8/9/15 | 12/15/20 | 13/15/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 8/10/15 | 10/12/20 |

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 50% RH | Total | 37,500 | 51,500 | 71,500 | 84,900 |
| | Sensible | 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 50% RH | Total | 26,900 | 36,700 | 51,200 | 60,600 |
| | 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 45% RH | Total | 25,000 | 34,400 | 47,700 | 56,700 |
| | 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 50% RH | Total | 21,900 | 29,100 | 41,600 | 49,800 |
| | Sensible | 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 45% RH | Total | 20,700 | 28,000 | 39,500 | 48,500 |
| | 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

Design pressure 250 psi

| | | | | |
|---------------------|------------|------------|------------|------------|
| 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 SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| | | | | | |
|---------------------------|--|----------|----------|----------|----------|
| HUMIDIFIER SECTION | | | | | |
| Steam generator | | Standard | Standard | Standard | Standard |
| kW | | 3.2 | 3.2 | 3.2 | 3.2 |
| Capacity - lb/hr | | 10 | 10 | 10 | 10 |

| | | | | | |
|---|-------------|-----------------------|-----------|----------|----------|
| ELECTRICAL SECTION | | Standard Motor | | | |
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 33/41/45 | 34/43/45 | 64/80/90 | 67/83/90 |
| 208-230/3/60 | FLA/MCA/MOP | 19/24/25 | 20/25/30 | 37/46/50 | 38/49/50 |
| 460/3/60 | FLA/MCA/MOP | 8.6/11/15 | 9.0/11/55 | 17/21/25 | 18/22/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 14/18/20 |

| | | | | | |
|--|-------------|-----------|-----------|------------|------------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 20/25/30 | 22/27/30 | 23/28/30 | 25/31/35 |
| 208-230/3/60 | FLA/MCA/MOP | 19/23/25 | 19/24/25 | 20/25/30 | 21/26/30 |
| 460/3/60 | FLA/MCA/MOP | 8.5/11/15 | 8.9/11/15 | 9.2/12/15 | 10/12/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 7.3/9.1/15 | 7.9/9.9/15 |

| | | | | | |
|--|-------------|-----------|-----------|----------|----------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 33/41/45 | 34/43/45 | 64/80/90 | 67/83/90 |
| 208-230/3/60 | FLA/MCA/MOP | 19/24/25 | 20/25/50 | 37/46/50 | 38/48/50 |
| 460/3/60 | FLA/MCA/MOP | 9.0/11/15 | 9.0/11/15 | 17/21/25 | 18/22/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/17/20 | 14/18/20 |

| | | | | | |
|---|-------------|------------|------------|------------|------------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and STANDARD MOTOR.</u> | | | | | |
| 208-230/1/60 | FLA/MCA/MOP | 4.0/5.0/15 | 5.3/6.6/15 | 6.4/8.0/15 | 8.8/11/20 |
| 208-230/3/60 | FLA/MCA/MOP | 2.2/2.8/15 | 3.0/3.8/15 | 3.6/4.5/15 | 4.8/6.0/15 |
| 460/3/60 | FLA/MCA/MOP | 1.1/1.4/15 | 1.5/1.9/15 | 1.8/2.3/15 | 2.4/3.0/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 1.4/1.8/15 | 2.0/2.5/15 |

| | | | | | |
|-----------------------|--|-----------------------------|-----|-----|-------|
| STANDARD MOTOR | | <i>FLA - Full load amps</i> | | | |
| Horsepower | | 1/2 | 3/4 | 1 | 1 1/2 |
| 208-230/1/60 | | 4.0 | 5.3 | 6.4 | 8.8 |
| 208-230/3/60 | | 2.2 | 3.0 | 3.6 | 4.8 |
| 460/3/60 | | 1.1 | 1.5 | 1.8 | 2.4 |
| 575/3/60 | | N/A | N/A | 1.4 | 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 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/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 on: electric reheat - **NO**, steam generator humidifier - **YES**, 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 | 10/12/15 | 11/13/15 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 7.9/9.9/15 | 8.4/11/15 |

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, 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 | 9.0/11/15 | 9.0/12/15 | 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 on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE 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 |

NEXT SIZE MOTOR

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 | 2.0 | 2.0 |

CONNECTION SIZES

| | | | | |
|-------------------------|-------|-------|-------|-------|
| CW supply - O.D. Copper | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 |
| CW return - O.D. Copper | 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

CHILLED WATER: Performance data at OPTIONAL airflow

| MODEL NUMBER: | | DTCD/U-02 | DTCD/U-03 | DTCD/U-04 | DTCD/U-05 |
|-----------------------------------|---------------------|---|------------------|------------------|------------------|
| CAPACITY in Btu/hr - gross | | <i>Based on 45°F entering chilled water</i> | | | |
| 80° DB/67° WB 50% RH | Total | 42,500 | 57,800 | 80,700 | 95,200 |
| | Sensible | 29,300 | 41,200 | 56,500 | 67,900 |
| | Flow rate - GPM | 8.0 | 11.0 | 15.0 | 18.0 |
| | Pressure drop - PSI | 2.2 | 3.9 | 7.3 | 10.3 |
| 75° DB/62.5° WB 50% RH | Total | 30,500 | 41,100 | 57,700 | 67,900 |
| | Sensible | 25,000 | 35,100 | 48,100 | 57,800 |
| | 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 45% RH | Total | 28,700 | 39,100 | 54,500 | 64,500 |
| | Sensible | 26,000 | 36,600 | 50,100 | 60,300 |
| | 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 50% RH | Total | 24,900 | 32,600 | 47,000 | 56,100 |
| | Sensible | 22,400 | 30,800 | 43,000 | 52,000 |
| | Flow rate - GPM | 5.0 | 6.0 | 9.0 | 11.0 |
| | Pressure drop - PSI | 0.9 | 2.3 | 2.8 | 3.9 |
| 72° DB/58.6° WB 45% RH | Total | 23,900 | 31,900 | 45,400 | 54,400 |
| | Sensible | 23,400 | 31,900 | 44,700 | 53,900 |
| | 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 | 1,000 | 1,500 | 2,000 | 2,500 |
| Standard motor - horsepower | 3/4 | 1 | 1 1/2 | 2 |
| External static pressure (E.S.P.) - inches of W.G . | 0.5 | 0.5 | 0.5 | 0.5 |
| Number of motors/fans | 1/1 | 1/1 | 1/1 | 1/1 |
| Maximum E.S.P. (Standard Motor) | .08 | 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 |

CHILLED WATER COIL

| | | | | |
|---------------------|-----|-----|------|------|
| Face area - sq ft | 4.2 | 4.2 | 6.25 | 6.25 |
| Rows of coils | 4 | 4 | 4 | 4 |
| Face velocity - fpm | 238 | 357 | 320 | 400 |

CHILLED WATER CONTROL

Design pressure 250 psi

| | | | | |
|---------------------|------------|------------|------------|------------|
| 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 OPTIONAL airflow

| MODEL NUMBER: | | DTCD/U-02 | DTCD/U-03 | DTCD/U-04 | DTCD/U-05 |
|--|-----------------|------------------|------------------|------------------|------------------|
| FILTER SECTION | | | | | |
| Quantity | | 2 | 2 | 2 | 2 |
| Size - inches | <i>Downflow</i> | 16x25x4 | 16x25x4 | 16x25x4 | 16x25x4 |
| | <i>Upflow</i> | 16x20x4 | 16x20x4 | 16x20x4 | 16x20x4 |
| Efficiency - MERV | | 8 | 8 | 8 | 8 |
| (Note: Efficiency based on ASHRAE Std. 52.2) | | | | | |

| | | | | | |
|---------------------------|--|----------|----------|----------|----------|
| HUMIDIFIER SECTION | | | | | |
| Steam generator | | Standard | Standard | Standard | Standard |
| kW | | 3.2 | 3.2 | 3.2 | 3.2 |
| Capacity - lb/hr | | 10 | 10 | 10 | 10 |

| | | | | | |
|---|-------------|-----------------------|-----------|----------|----------|
| ELECTRICAL SECTION | | Standard Motor | | | |
| <u>Electrical data based on STANDARD unit: electric reheat - YES, steam generator humidifier - YES, and STANDARD MOTOR.</u> | | | | | |
| 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 |

| | | | | | |
|---|-------------|-----------|-----------|------------|-----------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - YES, and NEXT SIZE MOTOR.</u> | | | | | |
| 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 | 7.9/9.9/15 | 8.4/11/15 |

| | | | | | |
|---|-------------|-----------|-----------|----------|----------|
| <u>Electrical data based on: electric reheat - YES, steam generator humidifier - NO, and NEXT SIZE MOTOR.</u> | | | | | |
| 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 | 9.0/12/15 | 18/22/25 | 18/23/25 |
| 575/3/60 | FLA/MCA/MOP | N/A | N/A | 14/18/20 | 15/18/20 |

| | | | | | |
|--|-------------|------------|------------|------------|------------|
| <u>Electrical data based on: electric reheat - NO, steam generator humidifier - NO, and NEXT SIZE MOTOR.</u> | | | | | |
| 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 MOTOR | | <i>FLA - Full load amps</i> | | | |
| 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 | 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 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/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 on: electric reheat - **NO**, steam generator humidifier - **YES**, 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 on: electric reheat - **YES**, steam generator humidifier - **NO**, 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 on: electric reheat - **NO**, steam generator humidifier - **NO**, 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 MOTOR

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 | 2.8 | 3.0 | N/A |
| 575/3/60 | | N/A | N/A | 2.5 | N/A |

CONNECTION SIZES

| | | | | |
|-------------------------|-------|-------|-------|-------|
| CW supply - O.D. Copper | 1 1/8 | 1 1/8 | 1 1/8 | 1 1/8 |
| CW return - O.D. Copper | 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



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