Modular Data Temp Systems
Air Cooled
Water/Glycol Cooled

8, 10 and 13 ton capacities

R-407C

DATA AIRE INC.

ISO 9001 Certified

DATA AIRE INC.

... 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 continual 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 Expo 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. Finally, in 2005 we are 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!

DATA AIRE INC.

MODULAR DATA TEMP

Air Cooled
Water/Glycol Cooled

R-407C

Single Circuit Design

Compact Size for Easy Maneuverability

Product Description

Performance/Electrical Data

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Data Aire, Inc.
Modular Data Temp

PRECISION COOLING

Modular Data Temp Series units are precision environmental control systems that bring a standard of reliable performance to today's demanding market. Small to large data centers, telecommunication sites, or where access and/or floor space is limited, Modular Data Temp units can meet these demands. Modular Data Temp process cooling systems are available in 8, 10, and 13 nominal ton capacities with upflow or downflow air distribution in air cooled or water/glycol cooled direct expansion models. Each Modular Data Temp unit is factory run tested and put through a vigorous quality control procedure.

COMFORT

Computer rooms, telecommunication switch sites, and other environmentally controlled spaces require air which is clean and properly distributed, with precisely controlled temperature and humidity. Building or "people comfort" systems are not designed to meet these demands. Modular Data Temp systems are designed to satisfy these goals.

DESIGN

Modular Data Temp systems feature a specially designed compact tubular steel frame which minimizes the 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 Modular Data Temp system is the ***Data Alarm Processor (dap4)***, 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.

DATA AIRE DELIVERS

Engineered for high performance and reliability, each Modular 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. 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.

FRAME/CABINET

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

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 provides adjustable air flow capability to match load requirements of the controlled space. The draw through design insures even air distribution across the coil, low internal cabinet losses, and static sealing of the filter section. Motors are mounted on an adjustable slide base and have internal overload protection.

FILTER SECTION

Units are provided with 4 inch deep, MERV 8, based on ASHRAE 52.2. The filter section is accessible from the top or side on downflow units and the right hand side on upflow units.

REHEAT

Three stage electric reheat is standard. Low-watt density finned tubular sheathed coils are constructed of stainless steel and provide ample capacity to maintain room dry bulb conditions during dehumidification. Low-watt density coils eliminate ionization associated with open air electric resistance heating.

HUMIDIFICATION

Modular 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 capacity at an optimum water level based on the design conductivity.

REFRIGERATION CIRCUIT

The single circuit, refrigeration circuit is designed around a high efficiency hermetic scroll compressor. These durable, heavy duty, fully welded compressors have no gaskets or seals, substantially reducing the possibility of refrigerant or oil leaking into the controlled space or environment. Scroll compressors bring a combination of reliability, efficiency and improved system sound performance to the Modular Data Temp line. 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, compressor short cycle timer, and rotolock service valves.

Water/glycol cooled units include a counterflow plate-fin condenser sized to provide the required heat of rejection with minimum water/glycol flow for a low total pressure drop. Head pressure water regulating valves control the condenser water flow to maintain proper head pressure under varying load conditions.

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, powder 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. Finished to match the indoor evaporator section, the condenser includes a centrifugal, forward curved, double width, double inlet blower engineered for quiet, reliable operation. The belt driven variable pitch drive provides adjustable air flow. The motor has internal overload protection and is mounted on an adjustable slide base. Indoor condensers are provided with a factory mounted and piped receiver, complete with a head pressure control valve to maintain head pressure under varying ambient conditions down to -30° F.

Air Cooled with Outdoor Condensing Unit - When compressors are required to be out of the controlled space, Modular Data Temp units are available with a remote outdoor condensing unit. 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 corrosion resistant aluminum with vertical air discharge. The condenser fan is a variable speed type for head pressure control down to -20° F ambient temperature. Additional fan motors are controlled by ambient fan thermostats.

Water/Glycol Cooled with Remote Outdoor Fluid Cooler - Remote outdoor fluid coolers are available in a variety of sizes. Each fluid cooler includes aluminum corrosion resistant housing, aluminum finned copper tube coil, coated fan guards, surge tank, motor contactor, pump contactor and energy efficient thermally protected direct drive motors. Multiple fan motors are staged to maintain the desired condenser supply fluid temperature.

System Control

Every Modular 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

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

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.

Options

Remote Temperature and Humidity Sensors - Temperature and humidity sensors may be ordered for remote wall mounting. Sensors are provided in a wall mount 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 unit mounted microprocessor will sound an alarm and display "SMOKE DETECTOR: UNIT SHUTDOWN" message. The smoke detector is mounted in the return air stream and is provided with auxiliary contacts.

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

Steam Generator Humidifier with Modulating Control - Modulating control may be added to the steam generator humidifier. Modulating control will allow the humidifier to automatically adjust steam output to match changing room conditions. Self-regulating auto flush is included.

3-Way Water Regulating Valve - A 3-way water regulating valve for head pressure control may be ordered to replace standard 2-way valve installed in unit. The 3-way valve controls the water/glycol flow rate to meet the heat rejection requirements under varying conditions. Recommended on units with dual pump applications.

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 @ 20 ft maximum or 40 GPH @ 20 feet with check valve. Pumps shipped loose are available in 115, 230, or 460 volt. If unit mounted and wired, the pump will match the unit voltage. Not available in 575 volt.

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

Floorstand - Floorstands are adjustable +/- 2 inches and may be ordered with a factory installed turning vane or with seismic construction.

MERV 11 Filter - The standard MERV 8 filter may be replaced with MERV 11 filter. Filters are 4 inch deep, pleated type. (Note: Higher efficiency filters are available - consult factory regarding efficiency percentage and unit static pressures)

1" Pre-Filter - Units may be ordered with a one inch pre-filter.

Pump Package - Centrifugal pump packages are available to circulate water or water/glycol solution. Pumps are available in various horsepower and voltage. Both 3400 and 1750 rpm pumps are available as an option. Pumps ship loose or come mounted in an optional pump enclosure. It is recommended on units with dual pump applications that a 3-way water regulating valve be used in lieu of the standard 2-way valve.

Pump Auto-Changeover - Dual pump packages may be provided with a pump auto-changeover control and NEMA 4 flow switch (field installed). The pump auto-changeover control is factory wired and mounted in the dry cooler control box. The pump auto-changeover control provides automatic pump changeover in the event of a pump failure. Upon pump changeover, an audible alarm will sound at the indoor unit and a message ("STANDBY PUMP ON: CHECK PRIMARY PUMP") will be displayed on the unit microprocessor display.

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.

Pump Enclosures - Pump enclosures are available for either single or dual pump applications*. Pump enclosures are vented and weather resistant. When ordered with pumps, the pumps are factory mounted in the enclosure ready for field piping and wiring. (* Due to the size of some pumps, a special oversized enclosure can be made available.)

Integral Pump Enclosures - Pumps may be factory mounted as an integral part of the dry cooler. A 30" extension is added to the dry cooler. Pumps are pre-piped and wired. Shut-off valves and flow switches are included. This configuration greatly reduces field installation procedures.

Extended Compressor Warranty - Extended compressor warranty is available from the manufacturer in addition to the standard warranty. The warranty is for replacement of compressors and does not include labor. Contact you local representative for period of coverage.

AIR COOLED: Performance data at STANDARD airflow

MODEL NUMBER			*DTAD/U-08*	*DTAD/U-10*	*DTAD/U-13*
CAPACITY in Btu/hr - *gross*					
80° DB/67° WB 50% RH	Total		105,800	134,000	163,800
	Sensible		84,000	100,000	119,000
75° DB/62.5° WB 50% RH	Total		98,000	124,500	152,000
	Sensible		81,000	97,000	115,500
75° DB/61° WB 45% RH	Total		95,100	121,200	147,600
	Sensible		86,800	103,400	122,800
72° DB/60° WB 50% RH	Total		93,300	118,900	145,000
	Sensible		79,300	95,100	113,300
72° DB/58.6° WB 45% RH	Total		90,900	115,900	141,100
	Sensible		84,600	101,100	120,100
BLOWER SECTION					
Airflow in CFM			3,600	4,000	4,500
Standard motor HP			2	3	3
External static pressure - inches of W.G.			0.5	0.5	0.5
Number of motors/fans			1/1	1/1	1/1
Maximum external static pressure		*Downflow*	0.8	1.5	0.6
(Standard motor)		*Upflow*	0.8	1.5	0.6
Maximum external static pressure		*Downflow*	1.5	1.5	1.5
(Next size motor)		*Upflow*	1.5	1.5	1.5
Next size motor HP			3	5	5
COMPRESSORS					
Type			Scroll	Scroll	Scroll
Quantity			1	1	1
Refrigerant type			R-407C	R-407C	R-407C
EVAPORATOR COIL					
Face are in sq. ft.			12.2	12.2	12.2
Rows of coils			3	4	5
Face velocity - FPM			295	328	369
REHEAT SECTION					
Type	Electric		Standard	Standard	Standard
Capacity	kW		15	15	15
	Btu/hr		51,225	51,225	51,225
HUMIDIFIER SECTION					
Type	Steam generator		Standard	Standard	Standard
Capacity	kW		3.2	3.2	3.2
	lbs/hr		10	10	10

AIR COOLED: Performance data at STANDARD airflow

MODEL NUMBER		*DTAD/U-08*	*DTAD/U-10*	*DTAD/U-13*
ELECTRICAL SECTION	Standard Motor			
Electrical data based on: electric reheat- **YES**, steam generator humidifier - **YES**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	77/94/110	88/108/125	100/123/150
460/3/60	FLA/MCA/MOP	37/45/50	40/50/60	46/56/70
575/3/60	FLA/MCA/MOP	28/35/40	31/38/45	38/46/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	51/63/80	63/76/100	75/91/125
460/3/60	FLA/MCA/MOP	25/31/40	29/35/50	34/42/60
575/3/60	FLA/MCA/MOP	19/23/30	22/26/35	28/35/50
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO,** and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	77/94/110	88/108/125	100/123/150
460/3/60	FLA/MCA/MOP	37/45/50	40/50/60	46/56/70
575/3/60	FLA/MCA/MOP	28/35/40	31/38/45	38/46/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	35/42/70	46/56/90	58/71/110
460/3/60	FLA/MCA/MOP	18/22/35	22/26/40	27/32/50
575/3/60	FLA/MCA/MOP	13/16/25	16/19/30	23/27/45
✠ STANDARD MOTOR				
Motor horsepower		2	3	3
208-230/3/60	FLA	6.2	9.0	9.0
460/3/60	FLA	3.1	4.4	4.4
575/3/60	FLA	2.5	3.3	3.3
COMPRESSOR				
208-230/3/60	FLA	28.8	37.2	49.4
460/3/60	FLA	14.7	17.2	22.4
575/3/60	FLA	10.8	12.4	19.2
AIR COOLED CONDENSER	*Remote mounted outdoors*			
Condenser selection at 95° F ambient		*DARC-09*	*DARC-11*	*DARC-15*
Condenser selection at 100° F ambient		*DARC-11*	*DARC-15*	*DARC-17*
Condenser selection at 105° F ambient		*DARC-15*	*DARC-17*	*DARC-21*

Note: Condensers are selected at sea level.

FLA - Full Load Amps
MCA - Minimum Circuit ampacity (wire sizing amps)
MOP - Maximum overcurrent protection device amp

AIR COOLED: Performance data at STANDARD airflow

MODEL NUMBER		*DTAD/U-08*	*DTAD/U-10*	*DTAD/U-13*
ELECTRICAL SECTION	Next Size Motor			
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES,** and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	80/97/110	94/113/125	106/129/150
460/3/60	FLA/MCA/MOP	38/46/50	43/52/60	48/58/70
575/3/60	FLA/MCA/MOP	29/36/40	33/40/45	40/48/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	54/65/90	68/82/110	80/97/125
460/3/60	FLA/MCA/MOP	27/32/45	31/37/50	36/44/60
575/3/60	FLA/MCA/MOP	20/24/30	24/28/35	30/37/50
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	80/97/110	94/113/125	106/129/150
460/3/60	FLA/MCA/MOP	38/46/50	43/52/60	48/58/70
575/3/60	FLA/MCA/MOP	29/36/40	33/40/45	40/48/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	38/45/70	52/61/90	64/76/125
460/3/60	FLA/MCA/MOP	19/23/35	24/28/45	29/35/50
575/3/60	FLA/MCA/MOP	14/17/25	18/21/30	25/29/45
◆ NEXT SIZE MOTOR				
Motor horsepower		3	5	5
208-230/3/60	FLA	9.0	14.6	14.6
460/3/60	FLA	4.4	6.6	6.6
575/3/60	FLA	3.3	5.3	5.3
FILTER SECTION	*(Pleated, MERV 8)*			
Quantity/size		2 - 20x25x4	2 - 20x25x4	2 - 20x25x4
Efficiency - MERV		8	8	8
(Note: Efficiency based on ASHRAE Std. 52.2)				
CONNECTION SIZES				
Liquid line - O.D. copper		5/8	5/8	5/8
Hot gas line - O.D. copper		3/4	3/4	3/4
Condensate drain		3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4

(Note: Refer to Operation and Maintenance Manual for recommended pipe sizing between unit and condenser section.)

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

AIR COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER			*DTAD/U-08*	*DTAD/U-10*	*DTAD/U-13*
CAPACITY in Btu/hr - *gross*					
80° DB/67° WB 50% RH	Total		108,700	138,700	168,800
	Sensible		94,000	113,200	132,700
75° DB/62.5° WB 50% RH	Total		101,000	129,300	156,800
	Sensible		90,600	109,600	128,400
75° DB/61° WB 45% RH	Total		98,100	125,200	152,400
	Sensible		96,100	117,300	137,400
72° DB/60° WB 50% RH	Total		96,300	123,700	149,700
	Sensible		88,500	107,500	125,800
72° DB/58.6° WB 45% RH	Total		93,600	119,900	145,800
	Sensible		92,600	114,400	134,000
BLOWER SECTION					
Airflow in CFM			4,400	5,000	5,500
Standard motor HP			3.0	5.0	5.0
External static pressure - inches of W.G.			0.5	0.5	0.5
Number of motors/fans			1/1	1/1	1/1
Maximum external static pressure (Standard motor)		*Downflow*	1	1.5	0.8
		Upflow	1	1.5	0.8
Maximum external static pressure (Next size motor)		*Downflow*	1.5	1.5	0.8
		Upflow	1.5	1.5	0.8
Next size motor HP			5	7.5	7.5
COMPRESSORS					
Type			Scroll	Scroll	Scroll
Quantity			1	1	1
Refrigerant type			R-407C	R-407C	R-407C
EVAPORATOR COIL					
Face area in sq. ft.			12.2	12.2	12.2
Rows of coils			3	4	5
Face velocity - FPM			361	410	451
REHEAT SECTION					
Electric			Standard	Standard	Standard
Capacity	kW		15	15	15
	Btu/hr		51,225	51,225	51,225
HUMIDIFIER SECTION					
Steam generator			Standard	Standard	Standard
Capacity	kW		3.2	3.2	3.2
	lb/hr		10	10	10

AIR COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER		*DTAD/U-08*	*DTAD/U-10*	*DTAD/U-13*
ELECTRICAL SECTION	Standard motor			
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	80/97/110	94/113/125	106/129/150
460/3/60	FLA/MCA/MOP	38/46/50	43/52/60	48/58/70
575/3/60	FLA/MCA/MOP	29/36/40	33/40/45	40/48/60
Electrical data base on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	54/65/90	68/82/110	80/97/125
460/3/60	FLA/MCA/MOP	27/32/45	31/37/50	36/44/60
575/3/60	FLA/MCA/MOP	20/24/30	24/28/35	30/37/50
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	80/97/110	94/113/125	106/129/150
460/3/60	FLA/MCA/MOP	38/46/50	43/52/60	48/58/70
575/3/60	FLA/MCA/MOP	29/36/40	33/40/45	40/48/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	38/45/70	52/61/90	64/76/125
460/3/60	FLA/MCA/MOP	19/23/35	24/28/45	29/35/50
575/3/60	FLA/MCA/MOP	14/17/25	18/21/30	25/29/45
✠ STANDARD MOTOR				
Motor horsepower		3	5	5
208-230/3/60	FLA	9.0	14.6	14.6
460/3/60	FLA	4.4	6.6	6.6
575/3/60	FLA	3.3	5.3	5.3
COMPRESSOR				
208-230/3/60	FLA	28.8	37.2	49.4
460/3/60	FLA	14.7	17.2	22.4
575/3/60	FLA	10.8	12.4	19.2
AIR COOLED CONDENSER	Remote mounted outdoors			
Condenser selection at 95° F ambient		DARC-09	DARC-11	DARC-15
Condenser selection at 100° F ambient		DARC-11	DARC-15	DARC-17
Condenser selection at 105° F ambient		DARC-15	DARC-17	DARC-21

(Note: Condensers are selected at sea level.)

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

AIR COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER		*DTAD/U-08*	*DTAD/U-10*	*DTAD/U-13*
ELECTRICAL SECTION	Next size motor			
Electrical data base on: electric reheat - **YES**, steam generator - **YES**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	85/103/110	102/122/125	114/137/175
460/3/60	FLA/MCA/MOP	40/49/50	47/56/60	52/63/80
575/3/60	FLA/MCA/MOP	31/38/45	36/43/50	43/51/60
Electrical data base on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	60/71/90	77/90/110	89/105/150
460/3/60	FLA/MCA/MOP	29/34/45	36/42/50	41/48/60
575/3/60	FLA/MCA/MOP	22/26/35	27/32/40	34/40/50
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	85/103/110	102/122/125	114/137/175
460/3/60	FLA/MCA/MOP	40/49/50	47/56/60	52/63/80
575/3/60	FLA/MCA/MOP	31/38/45	36/43/50	43/51/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	43/51/70	60/70/100	72/85/125
460/3/60	FLA/MCA/MOP	21/25/40	28/33/50	33/39/60
575/3/60	FLA/MCA/MOP	16/19/30	21/24/35	28/33/50
◆ NEXT SIZE MOTOR				
Motor horsepower		5	7.5	7.5
230/3/60	FLA	14.6	23.0	23.0
460/3/60	FLA	6.6	11.0	11.0
575/3/60	FLA	5.3	8.6	8.6
FILTER SECTION	*(Pleated, MERV 8)*			
Quantity/size		3 - 16x25x4	3 - 16x25x4	3 - 16x25x4
Efficiency - MERV		8	8	8
(Note: Efficiency based on ASHRAE Std. 52.2)				
CONNECTION SIZES				
Liquid line - O.D. copper		5/8	5/8	5/8
Hot gas line - O.D. copper		3/4	3/4	3/4
Condensate drain		3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4

(Note: Refer to Operation and Maintenance Manual for recommended pipe sizing between unit and condenser section)

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

WATER COOLED: Performance at STANDARD airflow

MODEL NUMBER		*DTWD/U-08*	*DTWD/U-10*	*DTWD/U-13*
CAPACITY in Btu/hr - *gross*				
80° DB/67° WB 50% RH	Total	109,900	139,400	170,200
	Sensible	85,500	102,100	121,600
75° DB/62.5° WB 50% RH	Total	102,000	129,600	158,100
	Sensible	82,700	99,100	118,100
75° DB/61° WB 45% RH	Total	99,300	126,600	153,800
	Sensible	88,500	105,800	125,600
72° DB/60° WB 50% RH	Total	97,200	123,600	150,700
	Sensible	81,000	97,300	116,000
72° DB/58.6° WB 45% RH	Total	94,900	121,100	146,900
	Sensible	86,400	103,500	122,800

GLYCOL COOLED: Performance at STANDARD airflow

MODEL NUMBER		*DTGD/U-08*	*DTGD/U-10*	*DTGD/U-13*
CAPACITY in Btu/hr - *gross*				
80° DB/67° WB 50% RH	Total	103,100	131,300	159,600
	Sensible	82,900	99,000	117,400
75° DB/62.5° WB 50% RH	Total	95,600	122,000	148,400
	Sensible	80,100	95,900	113,900
75° DB/61° WB 45% RH	Total	92,800	119,100	144,300
	Sensible	85,800	102,600	121,400
72° DB/60° WB 50% RH	Total	91,100	116,400	141,700
	Sensible	78,400	94,100	111,800
72° DB/58.6° WB 45% RH	Total	88,600	114,000	138,000
	Sensible	83,600	100,200	118,600

BLOWER SECTION				
Airflow in CFM		3,600	4,000	4,500
Standard motor HP		2	3	3
External Static Pressure - inches of W.G.		0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1
Maximum external static pressure (Standard motor)	*Downflow*	0.8	1.5	0.6
	Upflow	0.8	1.5	0.6
Maximum external static pressure (Next size motor)	*Downflow*	1.5	1.5	1.5
	Upflow	1.5	1.5	1.5
Next size motor - horsepower		3	5	5

WATER/GLYCOL COOLED: Performance data at STANDARD airflow

CONDENSER WATER

(Maximum design water pressure 150 psi - High pressure valves optional)

Using 65° F EWT	GPM	9.5	11.9	14.8
	Pressure drop in PSI	4.1	4.1	3.5
Using 75° F EWT	GPM	14.8	18.5	23.2
	Pressure drop in PSI	4.5	4.5	4.1
Using 85° F EWT	GPM	21	26.3	31.8
	Pressure drop in PSI	7.1	7.1	4.5
Using Fluid Cooler	GPM	28.0	35.0	43.0
	Pressure drop in PSI	9.1	10.1	8.1

COMPRESSORS

Type	Scroll	Scroll	Scroll
Quantity	1	1	1
Refrigerant	R-407C	R-407C	R-407C

EVAPORATOR COIL

Face area - sq. ft.	12.2	12.2	12.2
Rows of coils	3	4	5
Face velocity in FPM	295	328	369

REHEAT SECTION

Electric	Standard	Standard	Standard
kW	15	15	15
Capacity in Btu/hr	51,225	51,225	51,225

HUMIDIFIER SECTION

Steam generator	Standard	Standard	Standard
kW	3.2	3.2	3.2
Capacity in lb/hr	10	10	10

FILTER SECTION

(Pleated, MERV 8)

Quantity/size	2 - 20x25x4	2 - 20x25x4	2 - 20x25x4
Efficiency - MERV	8	8	8

(Note: Efficiency based on ASHRAE Std. 52.2)

CONNECTION SIZES

(Refer to Operation and Maintenance Manual for piping information between unit and dry cooler)

Condenser water - supply	1-5/8	1-5/8	1-5/8
Condenser water - return	1-5/8	1-5/8	1-5/8
Condensate drain	3/4	3/4	3/4
Humidifier supply	1/4	1/4	1/4

WATER/GLYCOL COOLED: Performance data at STANDARD airflow

MODEL NUMBER		*DT*D/U-08*	*DT*D/U-10*	*DT*D/U-13*
ELECTRICAL SECTION	**Standard Motor**			
Electrical data based on: electric reheat - **YES**, steam generator humidifier **YES**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	77/94/110	88/108/125	100/123/150
460/3/60	FLA/MCA/MOP	37/45/50	40/50/60	46/56/70
575/3/60	FLA/MCA/MOP	28/35/40	31/38/45	38/46/60
Electrical data base on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	51/63/80	63/76/100	75/91/125
460/3/60	FLA/MCA/MOP	25/31/40	29/35/50	34/42/60
575/3/60	FLA/MCA/MOP	19/23/30	22/26/35	28/35/50
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	77/94/110	88/108/125	100/123/150
460/3/60	FLA/MCA/MOP	37/45/50	40/50/60	46/56/70
575/3/60	FLA/MCA/MOP	28/35/40	31/38/45	38/46/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	35/42/70	46/56/90	58/71/110
460/3/60	FLA/MCA/MOP	18/22/35	22/26/40	27/32/50
575/3/60	FLA/MCA/MOP	13/16/25	16/19/30	23/27/45
✠ **STANDARD MOTOR**				
Motor horsepower		2	3	3
208-230/3/60	FLA	6.2	9.0	9.0
460/3/60	FLA	3.1	4.4	4.24
575/3/60	FLA	2.5	3.3	3.3
COMPRESSOR				
208-230/3/60	FLA	28.8	37.2	49.4
460/3/60	FLA	14.7	17.2	22.4
575/3/60	FLA	10.8	12.4	19.2

* - W for water or G for glycol

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

WATER/GLYCOL COOLED: Performance data at STANDARD airflow

MODEL NUMBER		*DT*D/U-08*	*DT*D/U-10*	*DT*D/U-13*
ELECTRICAL SECTION	**Next Size Motor**			
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	80/97/110	94/113/125	106/129/150
460/3/60	FLA/MCA/MOP	38/46/50	43/52/60	48/58/70
575/3/60	FLA/MCA/MOP	29/36/40	33/40/45	40/48/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES,** and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	54/65/90	68/82/110	80/97/125
460/3/60	FLA/MCA/MOP	27/32/45	31/37/50	36/44/60
575/3/60	FLA/MCA/MOP	20/24/30	24/28/35	30/37/50
Electric data based on: electric rehear - **YES**, steam generator humidifier - **NO**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	80/97/110	94/113/125	106/129/150
460/3/60	FLA/MCA/MOP	38/46/50	43/52/60	48/58/70
575/3/60	FLA/MCA/MOP	29/36/40	33/40/45	40/48/60
Electrical data based on: electric reheat - **NO**, steam generator humidifier -**NO**, and NEXT SIZE MOTOR. ◆				
230/3/60	FLA/MCA/MOP	38/45/70	52/61/90	64/76/125
460/3/60	FLA/MCA/MOP	19/23/35	24/28/45	29/35/50
575/3/60	FLA/MCA/MOP	14/17/25	18/21/30	25/29/45
◆ NEXT SIZE MOTOR				
Motor horsepower		3	5	5
203-230/3/60	FLA	9.0	14.6	14.6
460/3/60	FLA	4.4	6.6	6.6
575/3/60	FLA	3.3	5.3	5.3
OUTDOOR DRY COOLER				
Dry cooler selection at 95° F ambient		DAFC-15	DAFC-21	DAFC-21
Dry cooler selection at 100° F ambient		DAFC-21	DAFC-24	DAFC-30

(Note: Dry coolers are selected at sea level. Refer to page 32 for dry cooler electrical data)

* - W for water or G for glycol

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-08*	*DTWD/U-10*	*DTWD/U-13*
CAPACITY in Btu/hr - *gross*				
80° DB/67° WB 50% RH	Total	113,600	144,100	176,300
	Sensible	95,700	115,300	135,600
75° DB/62.5° WB 50% RH	Total	105,500	134,100	163,500
	Sensible	92,400	111,600	131,200
75° DB/61° WB 45% RH	Total	102,000	130,400	158,600
	Sensible	98,600	119,500	140,000
72° DB/60° WB 50% RH	Total	100,700	128,100	155,800
	Sensible	90,400	109,300	128,500
72° DB/58.6° WB 45% RH	Total	97,500	124,800	151,500
	Sensible	95,600	116,600	136,600

GLYCOL COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER		*DTGD/U-08*	*DTGD/U-10*	*DTGD/U-13*
CAPACITY in Btu/hr - *gross*				
80° DB/67° WB 50% RH	Total	106,600	136,000	165,500
	Sensible	93,200	112,200	131,500
75° DB/62.5° WB 50% RH	Total	98,700	126,600	153,800
	Sensible	89,700	108,500	127,200
75° DB/61° WB 45% RH	Total	95,700	122,400	148,500
	Sensible	94,500	116,100	135,700
72° DB/60° WB 50% RH	Total	94,000	120,900	146,700
	Sensible	87,600	106,200	124,600
72° DB/58.6° WB 45% RH	Total	91,500	117,400	142,000
	Sensible	90,800	113,300	132,400
BLOWER SECTION				
Airflow - CFM		4,400	5,000	5,500
Standard Motor HP		3	5	5
External Static Pressure - inches of W.G.		0.5	0.5	0.5
Number of motors/fans		1/1	1/1	1/1
Maximum external static pressure (Standard motor)	*Downflow*	1.0	1.5	0.8
	Upflow	1.0	1.5	0.8
Maximum external static pressure (Next size motor)	*Downflow*	1.5	1.5	0.8
	Upflow	1.5	1.5	0.8
Next size motor - horsepower		5	7 1/2	7 1/2

WATER/GLYCOL COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER		*DTWD/U-08*	*DTWD/U-10*	*DTWD/U-13*
CONDENSER WATER	Maximum design water pressure 150 psi - High pressure valves optional			
Using 65° F EWT	GPM	9.5	11.9	14.8
	Pressure drop in PSI	4.1	4.1	3.5
Using 75° F EWT	GPM	14.8	18.5	23.2
	Pressure drop in PSI	4.5	4.5	4.1
Using 85° F EWT	GPM	21.0	26.3	31.8
	Pressure drop in PSI	7.1	7.1	4.5
Using Fluid Cooler	GPM	28.0	35.0	43.0
	Pressure drop in PSI	9.1	10.1	8.1
COMPRESSORS				
Type		Scroll	Scroll	Scroll
Quantity		1	1	1
Refrigerant type		R-407C	R-407C	R-407C
EVAPORATOR COIL				
Face area in sq. ft.		12.2	12.2	12.2
Rows of coil		3	4	5
Face velocity in FPM		361	410	451
REHEAT SECTION				
Electric		Standard	Standard	Standard
kW		15	15	15
Capacity in Btu/hr		51,225	51,225	51,225
HUMIDIFIER SECTION				
Steam generator		Standard	Standard	Standard
kW		3.2	3.2	3.2
Capacity in lb/hr		10	10	10
FILTER SECTION	*(Pleated, MERV 8)*			
Quantity		2	2	2
Size - Inches		20x25x4	20x25x4	20x25x4
Efficiency - MERV		8	8	8
(Note: Efficiency based on ASHRAE Std. 52.2)				
CONNECTION SIZES	*Refer to Operation and Maintenance Manual for piping information between unit and dry cooler.*			
Condenser water - supply		1-5/8	1-5/8	1-5/8
Condenser water - return		1-5/8	1-5/8	1-5/8
Condensate drain		3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4

WATER/GLYCOL COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER		*DT*D/U-08*	*DT*D/U-10*	*DT*D/U-13*
ELECTRICAL SECTION	**Standard Motor**			
Electrical data based on: electric reheat-**YES**, steam generator humidifier-**YES,** and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	80/97/110	94/113/125	106/129/150
460/3/60	FLA/MCA/MOP	38/46/50	43/52/60	48/58/70
575/3/60	FLA/MCA/MOP	29/36/40	33/40/45	40/48/60
Electrical data based on: electric reheat-**NO**, steam generator humidifier-**YES**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	54/65/90	68/82/110	80/97/125
460/3/60	FLA/MCA/MOP	27/32/45	31/37/50	36/44/60
575/3/60	FLA/MCA/MOP	20/24/30	24/28/35	30/37/50
Electrical data based on: electric reheat-**YES**, steam generator humidifier-**NO**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	80/97/110	94/113/125	106/129/150
460/3/60	FLA/MCA/MOP	38/46/50	43/52/60	48/58/70
575/3/60	FLA/MCA/MOP	29/36/40	33/40/45	40/48/60
Electrical data based on: electric reheat-**NO**, steam generator humidifier - **NO**, and STANDARD MOTOR. ✠				
208-230/3/60	FLA/MCA/MOP	38/45/70	52/61/90	64/76/125
460/3/60	FLA/MCA/MOP	19/23/35	24/28/45	29/35/50
575/3/60	FLA/MCA/MOP	14/17/25	18/21/30	25/29/45
✠ STANDARD MOTOR				
Motor horsepower		3	5	5
208-230/3/60	FLA	9.0	14.6	14.6
460/3/60	FLA	4.4	6.6	6.6
575/3/60	FLA	3.3	5.3	5.3
COMPRESSOR				
230/3/60	FLA	28.8	37.2	49.4
460/3/60	FLA	14.7	17.2	22.4
575/3/60	FLA	10.8	12.4	19.2

* - W for water or G for glycol

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

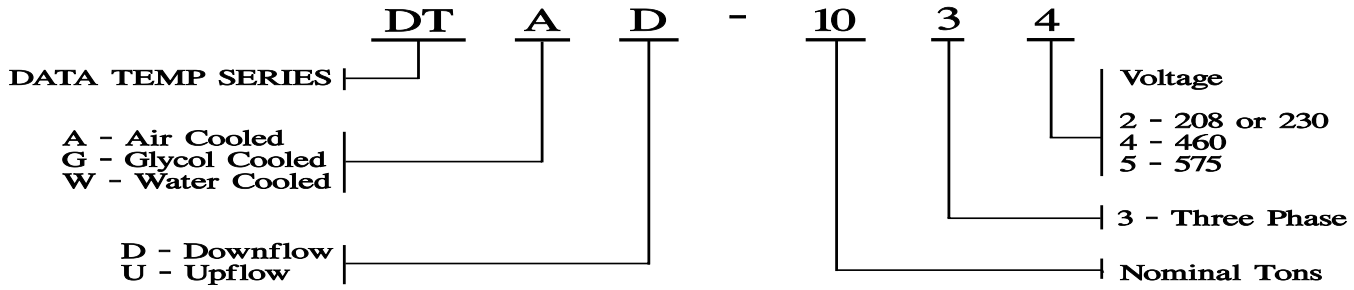
WATER/GLYCOL COOLED: Performance data at OPTIONAL airflow

MODEL NUMBER		*DT*D/U-08*	*DT*D/U-10*	*DT*D/U-13*
ELECTRICAL SECTION	**Next Size Motor**			
Electrical data based on: electric reheat-**YES**, steam generator humidifier-**YES**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	85/103/110	102/122/125	114/137/175
460/3/60	FLA/MCA/MOP	40/49/50	47/56/60	52/63/80
575/3/60	FLA/MCA/MOP	31/38/45	36/43/50	43/51/60
Electrical data based on: electric reheat-**NO**, steam generator humidifier-**YES**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	60/71/90	77/90/110	89/105/150
460/3/60	FLA/MCA/MOP	29/34/45	36/42/50	41/48/60
575/3/60	FLA/MCA/MOP	22/26/35	27/32/40	34/40/50
Electrical data based on: electric reheat-**YES**, steam generator humidifier-**NO**, and NEXT SIZE MOTOR. ◆				
208-230/3/60	FLA/MCA/MOP	85/103/110	102/122/125	114/137/175
460/3/60	FLA/MCA/MOP	40/49/50	47/56/60	52/63/80
575/3/60	FLA/MCA/MOP	31/38/45	36/43/50	43/51/60
Electrical data based on: electric reheat-**NO**, steam generator humidifier-**NO**, and NEXT SIZE MOTOR. ◆				
230/3/60	FLA/MCA/MOP	43/51/70	60/70/100	72/85/125
460/3/60	FLA/MCA/MOP	21/25/40	28/33/50	33/39/60
575/3/60	FLA/MCA/MOP	16/19/30	21/24/35	28/33/50
◆ **NEXT SIZE MOTOR**				
Motor horsepower		5	7.5	7.5
230/3/60	FLA	15.0	23.0	23.0
460/3/60	FLA	6.6	11.0	11.0
575/3/60	FLA	5.3	8.6	8.6
OUTDOOR DRY COOLER	*Dry coolers are selected at sea level. Refer to page 30 for dry cooler electrical data.*			
Dry cooler selection at 95° F ambient		***DAFC-15***	***DAFC-21***	***DAFC-21***
Dry cooler selection at 100° F ambient		***DAFC-21***	***DAFC-24***	***DAFC-30***

* - W for water or G for glycol

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

Model Number Identification



MODULAR DATA TEMP SERIES • Dimensional Weight and Data - Air Cooled

MODULAR DATA TEMP SERIES

DIMENSIONAL and WEIGHT DATA - AIR COOLED

Downflow and Upflow

Model	Length	Width	Height	Operating Weight	Shipping Weight
DTAD/U-08	49.0	34.5	72.0	880 lb	1,055 lb
DTAD/U-10	49.0	34.5	72.0	890 lb	1,115 lb
DTAD/U-13	49.0	34.5	72.0	940 lb	1,215 lb

MODULAR DATA TEMP SERIES

DIMENSIONAL and WEIGHT DATA - WATER/GLYCOL COOLED

Downflow and Upflow

Model	Length	Width	Height	Operating Weight	Shipping Weight
DT*D/U-08	49.0	34.5	72.0	945 lb	1,140 lb
DT*D/U-10	49.0	34.5	72.0	965 lb	1,190 lb
DT*D/U-13	49.0	34.5	72.0	990 lb	1,265 lb

* replace with “W” for water cooled or “G” for glycol cooled

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DAMDT-R407C-120414