gForce
by Data Aire

gForce GT
R-410A

Single Circuit

Air Cooled, Water/Glycol Cooled

7 to 46 kW

Environmentally responsible.
Economically efficient.
Precision air cooling of the future.

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 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 third generation, DAP-III. 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 weare the first 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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gForce - GT

by Data Aire

MISSION CRITICAL COOLING

gForce by Data Aire provides the most advanced features in mission critical cooling equipment available on the market today. These units are the most efficient and economical while complying with strict environmental requirements.

Incorporating backward curved plenum fans with electronically commutated (EC) motors these units supply radially dispersed cooling air at lower speeds allowing for more uniform static pressure across the room. These fans, with integral DC motors, run at lower temperatures providing more net cooling from the computer room air conditioning (CRAC) unit. DC motors are more energy efficient, providing an on-going savings year after year. gForce efficiency is also increased by the use of rifled tubing in the cooling coils to promote the greatest amount of heat transfer. gForce single circuit DX units are available in 7 through 46 kW with either upflow or downflow air distribution in air cooled or water/glycol cooled models. Each unit is factory run tested and put through a vigorous quality control procedure

IMPROVED PERFORMANCE and REDUCED MAINTENANCE

Backward curved fans discharge air radially allowing for uniform static pressure across the raised floor. Traditional forward curved fans blow air in a high velocity stream with high velocity pressure and minimal initial static pressure, prohibiting optimal airflow through the raised floor close to the CRAC. One of the key features of backward curved fans, commonly referred to as plug fans, is that the motor and fan are integrated into a single unit. Unlike forward curved fans that have a separate motor, pulley, belt and in some cases a shaft, plug fan blades are directly connected to the motor. This eliminates the need for monthly maintenance, belt replacement and all belt dust.

In the unlikely event of a fan failure, the entire fan unit is removed. Removal is easy with the unfastening the screws and disconnection of the electrical service. The replacement fan is set in place, electrical connections are made and then the fan is bolted in place.

INCREASED THERMODYNAMIC EFFICIENTIES

gForce's design incorporates rifled tubing cooling coils. Rifle tubing is similar to borings in a gun barrel which forces the bullet to rotate. In a cooling coil the riflings force the refrigerant gas and liquid to rotate as it passes through the coil. This action forces the heavier matter, the liquid and coldest refrigerant, to the outside of the tube where the heat transfer occurs. As a result the coldest refrigerant is in contact with warmest surface resulting in better heat transfer.

IMPROVED AIRFLOW DESIGN

gForce is the greatest internal capacity of an unit manufactured by Data Aire. The increased capacity of the gForce internal cabinet allows for less restrictive airflow. When additional options are added to smaller cabinets, the static pressure within the unit increases, making airflow more difficult. This is not an issue with the gForce, as the advanced design of the bigger interior and the product's quality construction ensures the highest level of efficiency in a precision air system

ENVIRONMENTALLY RESPONSIBLE

Data Aire offers the gForce line in either R-407C or R-410A refrigerants. Either of these refrigerants comply with the requirements of the Montreal Protocol which called for the phase out of refrigerants that deplete the ozone layer. R-407C is a blend of three refrigerants and has characteristics similar to R-22. R-410A is a blend of two refrigerants and has a higher volumetric cooling capacity but operates at higher pressures than either R-22 or R-407C. The choice of the environmentally friendly refrigerant is yours.

ENERGY EFFICIENT COILS

gForce energy efficient coils are another unique feature engineered by Data Aire. These coils feature rifle tubing, a creative element that significantly adds to energy efficiency. Very similar to the borings on a rifle that spin the bullet as it exts the barrel, the refrigerant in a gForce unit spins as it travels through the coil. This spinning forces the liquid, and coldest refrigerant to the outside surface of the coil, resulting in a higher heat transfer and therefore higher efficiency.

DATA AIRE DELIVERS

Standard lead time for a standard unit is 30 days from date of order. With an optional premium "quick ship" units can be expedited to ship in as little as one week. All units are built to your specific order and specification. Not only does Data Aire deliver standard products in short lead times they are willing to modify designs to meet your specific requirements. Call your nearest Data Aire representative for more.

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 gForce GT unit comes equipped with a backward curved plenum fan with EC motor. The integrated motor and fan package provides the most efficient operation and are basically maintenance free. While using standard AC power the plenum fan or plug fan converts AC current to DC to power

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

gForce GT 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 - gForce GT 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.

Every gForce 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 Cycle		Compressor Short

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 Limit	Delay for Optional Alarm 1, 2, 3, 4	Firestat Temperature Alarm
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 a 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. 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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		GTAD/U007	GTAD/U011	GTAD/U014	GTAD/U018	GTAD/U028	GTAD/U035	GTAD/U046
CAPACITY in kW/hr - *gross*								
80° DB/67° WB	Total	26,700	39,700	53,900	62,500	N/A	N/A	N/A
50% RH	Sensible	20,100	29,700	40,900	49,600	N/A	N/A	N/A
75° DB/62.5° WB	Total	24,600	36,900	49,700	58,200	N/A	N/A	N/A
50% RH	Sensible	19,300	28,700	39,200	47,800	N/A	N/A	N/A
75° DB/61° WB	Total	24,000	35,800	48,500	56,600	N/A	N/A	N/A
45% RH	Sensible	20,700	30,600	42,100	51,200	N/A	N/A	N/A
72° DB/60° WB	Total	23,400	35,300	47,200	55,700	N/A	N/A	N/A
50% RH	Sensible	18,800	28,100	38,300	46,800	N/A	N/A	N/A
72° DB/58.6° WB	Total	22,700	34,300	46,300	54,400	N/A	N/A	N/A
45% RH	Sensible	19,900	29,700	40,800	49,800	N/A	N/A	N/A
FAN SECTION								
Airflow - CFM		800	1,200	1,600	2,000	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	450	-	-	-
Fan motor - kW/HP		1/1.4	1/1.4	1/1.4	1/1.4	-	-	-
External static pressure (E.S.P.) - inches of W.G.		0.5	0.5	0.5	0.5	-	-	-
Maximum E.S.P.		1.5	1.5	1.5	1.3	-	-	-
Next size fan - diameter (mm)		N/A	N/A	N/A	500	-	-	-
Fan motor - kW/HP		-	-	-	2.8/3.7	-	-	-
Minimum E.S.P.	-	-	-	1.5				
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
FILTER SECTION								
Quantity		2	2	2	2	-	-	-
Size - inches	*Downflow*	16x20x4	16x20x4	16x20x4	16x20x4	-	-	-
		20x20x4	20x20x4	20x20x4	20x20x4	-	-	-
	Upflow	16x25x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x25x4	20x25x4	20x25x4	20x25x4	-	-	-
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 Fan**						
Electrical data based on STANDARD unit, electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier -**YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	40/49/60	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	19/23/30	19/23/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	24/29/45	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	11/14/20	-	-	-

STANDARD FAN	*FLA - Full load amps*	
Diameter (mm)/kW/HP	450/1.0/1.4	500/2.8/3.7
208-230/3/60	3.1	8.2
460/3/60	1.6	3.7

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 air cooled condenser

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gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
ELECTRICAL SECTION	**Next Size Fan**							
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	28/35/40	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	45/54/70	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	21/25/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	28/35/40	-	-	-
Electrical data based on: electric reheat -**NO**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	29/34/50	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	13/16/25	-	-	-
COMPRESSOR	*FLA - Full load amps*							
Tonnage		2	3	4	5	-	-	-
208-230/3/60		10.4	13.1	17.6	20.5	-	-	-
460/3/60		4.5	6.1	9.6	9.6	-	-	-
NEXT LARGER FAN	*FLA - Full load amps*							
Diameter (mm)/kW/HP		500/2.8/3.7						
208-230/3/60		8.2						
460/3/60		3.7						
CONDENSER	*Remote air cooled outdoor*							
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 OPTIONAL airflow with remote air cooled condenser

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
CAPACITY in Btu/hr - *gross*								
80° DB/67° WB	Total	27,900	41,300	55,800	64,800	N/A	N/A	N/A
50% RH	Sensible	22,800	33,500	46,300	56,800	N/A	N/A	N/A
75° DB/62.5° WB	Total	25,700	38,300	51,700	60,400	N/A	N/A	N/A
50% RH	Sensible	21,800	32,200	44,500	54,400	N/A	N/A	N/A
75° DB/61° WB	Total	24,900	37,200	50,400	58,200	N/A	N/A	N/A
45% RH	Sensible	23,400	34,600	47,900	58,200	N/A	N/A	N/A
72° DB/60° WB	Total	24,400	36,600	49,300	57,700	N/A	N/A	N/A
50% RH	Sensible	21,200	31,500	43,400	53,000	N/A	N/A	N/A
72° DB/58.6° WB	Total	23,700	35,600	48,100	56,000	N/A	N/A	N/A
45% RH	Sensible	22,600	33,500	46,200	55,700	N/A	N/A	N/A
FAN SECTION								
Airflow - CFM		1,000	1,500	2,000	2,500	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	450	-	-	-
Fan motor - kW/HP								
External static pressure (E.S.P.) - inches of W.G.		1/1.4	1/1.4	1/1.4	1/1.4	-	-	-
Maximum E.S.P.		1.5	1.5	1.3	0.7	-	-	-
Next size fan - diameter (mm)		N/A	N/A	500	500	-	-	-
Fan motor - kW/HP		-	-	2.8/3.7	2.8/3.7	-	-	-
Maximum E.S.P.		-	-	1.5	1.5	-	-	-
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
FILTER SECTION								
Quantity		2	2	2	2	-	-	-
Size - inches	*Downflow*	16x20x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x20x4	20x20x4	20x20x4	20x20x4	-	-	-
	Upflow	16x25x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x25x4	20x25x4	20x25x4	20x25x4	-	-	-
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 Fan**							
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	40/49/60	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	19/23/30	19/23/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier -**NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO** and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	23/29/45	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	11/14/20	-	-	-

STANDARD FAN	*FLA - Full load amps*
Diameter (mm)/kW/HP	450/1.0/1.4
208-230/3/60	3.1
460/3/60	1.6

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
ELECTRICAL SECTION		**Next Size Fan**						
Electrical data based on: electric reheat -**YES**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	59/72/80	62/76/80	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	28/35/40	28/35/40	N/A	N/A	N/A
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	42/51/60	45/54/70	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	21/25/30	21/25/30	N/A	N/A	N/A
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	59/72/80	62/76/80	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	28/35/40	28/35/40	N/A	N/A	N/A
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	26/30/45	29/34/50	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	13/16/25	13/16/25	N/A	N/A	N/A
COMPRESSOR		*FLA - Full load amps*						
Tonnage		2	3	4	5	-	-	-
208-230/3/60		10.4	13.1	17.6	20.5	-	-	-
460/3/60		4.5	6.1	9.6	9.6	-	-	-
NEXT SIZE FAN		*FLA - full load amps*						
Diameter (mm)/kW/HP		500/2.8/3.7						
208-230/3/60		8.2						
460/3/60		3.7						
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
CAPACITY in Btu/hr - *gross*								
80° DB/67° WB	Total	26,700	39,700	53,900	62,500	110,100	132,600	163,500
50% RH	Sensible	20,100	29,700	40,900	49,600	85,500	102,200	122,100
75° DB/62.5° WB	Total	24,600	36,900	49,700	58,200	102,000	122,700	152,000
50% RH	Sensible	19,300	28,700	39,200	47,800	82,300	98,300	117,900
75° DB/61° WB	Total	24,000	35,800	48,500	56,600	99,500	119,400	146,700
45% RH	Sensible	20,700	30,600	42,100	51,200	88,200	105,200	125,400
72° DB/60° WB	Total	23,400	35,300	47,200	55,700	97,100	116,700	145,000
50% RH	Sensible	18,800	28,100	38,300	46,800	80,300	95,900	115,400
72° DB/58.6° WB	Total	22,700	34,300	46,300	54,400	94,400	113,900	141,800
45% RH	Sensible	19,900	29,700	40,800	49,800	85,200	101,900	122,400
FAN SECTION								
Airflow - CFM		800	1,200	1,600	2,000	3,600	4,000	4,500
Number of fans		1	1	1	1	1	1	1
Standard fax - diameter (mm)		450	450	450	450	500	500	500
Fan motor - kW/HP								
External static pressure (E.S.P.) - inches of W.G.		1/1.4	1/1.4	1/1.4	1/1.4	2.8/3.7	2.8/3.7	2.8/3.7
Maximum E.S.P.		1.5	1.5	1.5	1.3	1.5	1.5	0.9
Next size fan - diameter (mm)		N/A	N/A	500	500	N/A	N/A	560
Fan motor - kW/HP		-	-	2.8/3.7	2.8/3.7	-	-	3.0/4.0
Maximum E.S.P.		-	-	1.5	1.5	-	-	1.5
COMPRESSOR	*in Condensing Unit*							
Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Quantity			1	1	1	1	1	1
Refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
EVAPORATOR COIL								
Face area - sq ft		4.2	4.2	4.2	4.2	12.2	12.2	12.2
Rows of coils		3	3	4	4	3	3	3
Face velocity - fpm		190	286	256	320	361	361	361
REHEAT SECTION								
Electric		Standard	Standard	Standard	Standard	Standard	Standard	Standard
kW		6	6	12	12	15	15	15
Capacity - Btu/hr		20,490	20,490	40,980	40,980	51,225	51,225	51,225
HUMIDIFIER SECTION								
Steam generator		Standard	Standard	Standard	Standard	Standard	Standard	Standard
kW		3.4	3.4	3.4	3.4	3.4	3.4	3.4
Capacity - lb/hr		10	10	10	10	10	10	

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
FILTER SECTION								
Quantity Size - inches	*Downflow*	1-16x20x4	1-16x20x4	1-16x20x4	2-16x20x4	2-16x25x4	2-16x25x4	2-16x25x4
		1-20x20x4	1-20x20x4	1-20x20x4	2-20x20x4	2-20x25x4	2-20x25x4	2-20x25x4
	Upflow	1-16x25x4	1-16x25x4	1-16x25x4	2-16x25x4	1-20x25x4	1-20x25x4	1-20x25x4
		1-20x25x4	1-20x25x4	1-20x25x4	2-20x25x4	2-16x25x4	2-16x25x4	2-16x25x4
Efficiency - MERV		8	8	8	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	5/8	5/8	5/8
Suction line - O.D. Copper		3/4	3/4	3/4	3/4	3/4	3/4	3/4
Condensate drain		3/4	3/4	3/4	3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	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 Fan**						
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	36/46/50	36/46/50	50/62/70	50/62/70	50/62/70
460/3/60	FLA/MCA/MOP	9/11/15	9/11/15	17/21/25	17/21/25	23/28/30	23/28/30	23/28/30
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	19/24/25	19/24/25	19/24/25	19/24/25	25/31/35	25/31/35	25/31/35
460/3/60	FLA/MCA/MOP	9/11/15	9/11/15	9/11/15	9/11/15	11/14/15	11/14/15	11/14/15
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	36/46/50	36/46/50	50/62/70	50/62/70	50/62/70
460/3/60	FLA/MCA/MOP	9/11/15	9/11/15	17/21/25	17/21/25	23/28/30	23/28/30	23/28/30
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	3.1/3.9/15	3.1/3.9/15	3.1/3.9/15	3.1/3.9/15	8.2/10.3/15	8.2/10.3/15	8.2/10.3/15
460/3/60	FLA/MCA/MOP	1.6/2.0/15	1.6/2.0/15	1.6/2.0/15	1.6/2.0/15	3.7/4.6/15	3.7/4.6/15	3.7/4.6/15

STANDARD FAN	*FLA - Full load amps*	
Diameter (mm)/kW/HP	450/1.0/1.4	500/2.8/3.7
208-230/3/60	3.1	8.2
460/3/60	1.6	3.7

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
ELECTRICAL SECTION		**Next Size Fan**						
Electrical data based on: electric reheat- **YES**, steam generator humidifier **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	42/52/60	N/A	N/A	51/63/70
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	19/24/25	N/A	N/A	23/29/30
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	25/31/35	N/A	N/A	25/31/35
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	11/14/15	N/A	N/A	
12/15/20								
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	42/52/60	N/A	N/A	51/63/70
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	19/24/25	N/A	N/A	23/29/30
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	8.2/10/15	N/A	N/A	8.8/11/15
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	3.7/4.6/15	N/A	N/A	4.3/5.4/15
COMPRESSOR		*FLA - Full load amps*						
208-230/3/60		10.4	13.1	17.6	20.5	30.1	33.3	51.3
460/3/60		4.5	6.1	9.6	9.6	16.7	17.9	23.1

* * * The following section has no reference to column heading * * *

NEXT LARGER FAN		*FLA - Full load amps*	
Diameter/kW/HP		500/2.8/3.7	560/3.0/4.0
208-230/3/60		8.2	8.8
460/3/60		3.7	6.7

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
CONDENSING UNIT								
Condensing unit at 95° F ambient		***DRCU-03***	***DRCU-03***	***DRCU-05***	***DRCU-05***	***DRCU-09***	***DRCU-11***	***DRCU-15***
208-230/3/60	FLA/MCA/MOP	15/18/30	18/21/35	22/27/45	25/30/60	35/42/80	43/51/90	61/73/150
460/3/60	FLA/MCA/MOP	6.8/7.9/15	8.4/9.9/20	12/14/25	12/14/25	19/23/45	23/27/50	28/34/60
Condensing unit at 100° F ambient		***DRCU-03***	***DRCU-03***	***DRCU-05***	***DRCU-06***	***DRCU-11***	***DRCU-15***	***DRCU-17***
208-230/3/60	FLA/MCA/MOP	15/18/30	18/21/35	22/27/45	25/30/60	39/47/80	43/51/90	61/73/150
460/3/60	FLA/MCA/MOP	6.8/7.9/15	8.4/9.9/20	12/14/25	12/14/25	21/26/45	23/27/50	28/34/60
Condensing unit at 105° F ambient		***DRCU-03***	***DRCU-05***	***DRCU-06***	***DRCU-07***	***DRCU-15***	***DRCU-17***	***DRCU-21***
208-230/3/60	FLA/MCA/MOP	15/18/30	18/21/35	22/27/45	25/30/60	39/47/80	43/51/90	65/78/150
460/3/60	FLA/MCA/MOP	6.8/7.9/15	8.4/9.9/20	12/14/25	12/14/25	21/26/45	23/27/50	30/36/90

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
CAPACITY in Btu/hr - *gross*								
80° DB/67° WB	Total	27,900	41,300	55,800	64,800	112,600	136,700	170,000
50% RH	Sensible	22,800	33,500	46,300	56,800	95,200	115,800	137,100
75° DB/62.5° WB	Total	25,700	38,300	51,700	60,400	104,900	126,900	158,200
50% RH	Sensible	21,800	32,200	44,500	54,400	91,500	111,100	132,000
75° DB/61° WB	Total	24,900	37,200	50,400	58,200	102,400	122,900	153,200
45% RH	Sensible	23,400	34,600	47,900	58,200	98,600	119,300	141,300
72° DB/60° WB	Total	24,400	36,600	49,300	57,700	100,300	121,000	151,200
50% RH	Sensible	21,200	31,500	43,400	53,000	89,300	108,300	128,900
72° DB/58.6° WB	Total	23,700	35,600	48,100	56,000	98,100	118,100	146,500
45% RH	Sensible	22,600	33,500	46,200	55,700	95,400	115,600	136,800
FAN SECTION								
Airflow - CFM		1,000	1,500	2,000	2,500	4,400	5,000	5,500
Number of fans		1	1	1	1	1	1	1
Standard fax - diameter (mm)		450	450	450	450	500	560	560
Fan motor - kW/HP								
External static pressure (E.S.P.) - inches of W.G.		1/1.4	1/1.4	1/1.4	1/1.4	2.8/3.7	3.0/4.0	5.0/6.7
Maximum E.S.P.		1.5	1.5	1.3	0.7	1.1	1.0	1.5
Next size fan - diameter (mm)		N/A	N/A	500	500	560	560	-
Fan motor - kW/HP		-	-	2.8/3.7	2.8/3.7	3.0/4.0	5.0/6.7	-
Maximum E.S.P.		-	-	1.5	1.5	1.5	1.5	-
COMPRESSOR				*in Condensing Unit*				
Type		Scroll	Scroll	Scroll	Scroll	Scroll	Scroll	Scroll
Quantity		1	1	1	1	1	1	1
Refrigerant		R-410A	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
EVAPORATOR COIL								
Face area - sq ft		4.2	4.2	6.25	6.25	12.2	12.2	12.2
Rows of coils		3	3	4	4	3	3	3
Face velocity - fpm		238	357	320	400	295	295	295
REHEAT SECTION								
Electric		Standard	Standard	Standard	Standard	Standard	Standard	Standard
kW		6	6	12	12	15	15	15
Capacity - Btu/hr		20,490	20,490	40,980	40,980	51,225	51,225	51,225
HUMIDIFIER SECTION								
Steam generator		Standard	Standard	Standard	Standard	Standard	Standard	Standard
kW		3.4	3.4	3.4	3.4	3.4	3.4	3.4
Capacity - lb/hr		10	10	10	10	10	10	10

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
FILTER SECTION								
Quantity Size - inches	*Downflow*	1-16x20x4	1-16x20x4	1-16x20x4	2-16x20x4	2-16x25x4	2-16x25x4	2-16x25x4
		1-20x20x4	1-20x20x4	1-20x20x4	2-20x20x4	2-20x25x4	2-20x25x4	2-20x25x4
	Upflow	1-16x25x4	1-16x25x4	1-16x25x4	2-16x25x4	1-20x25x4	1-20x25x4	1-20x25x4
		1-20x25x4	1-20x25x4	1-20x25x4	2-20x25x4	2-16x25x4	2-16x25x4	2-16x25x4
Efficiency - MERV		8	8	8	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	5/8	5/8	5/8
Suction line - O.D. Copper		3/4	3/4	3/4	3/4	3/4	3/4	3/4
Condensate drain		3/4	3/4	3/4	3/4	3/4	3/4	3/4
Humidifier supply		1/4	1/4	1/4	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 Fan**							
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	36/46/50	36/46/50	50/62/70	51/63/70	N/A
460/3/60	FLA/MCA/MOP	9.1/11/15	9.1/11/15	17/21/25	17/21/25	23/28/30	23/29/30	26/32/35
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	19/24/25	19/24/25	19/24/25	19/24/25	25/31/35	25/31/35	N/A
460/3/60	FLA/MCA/MOP	9.0/11/15	9.0/11/15	9.0/11/15	9.0/11/15	11/14/15	12/15/20	14/18/20
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	36/46/50	36/46/50	50/62/70	50/62/70	N/A
460/3/60	FLA/MCA/MOP	9.1/11/15	9.1/11/15	17/21/25	17/21/25	23/28/30	23/29/30	26/32/35
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	3.1/3.9/15	3.1/3.9/15	3.1/3.9/15	3.1/3.9/15	8.2/10/15	8.8/11/15	N/A
460/3/60	FLA/MCA/MOP	1.6/2.0/15	1.6/2.0/15	1.6/2.0/15	1.6/2.0/15	3.7/4.6/15	4.3/5.4/15	6.7/8.4/15
EVAPORATOR FAN MOTOR	*FLA - Full load amps*							
Diameter (mm)/ kW/HP		450/1.0/1.4	500/2.8/3.7	560/3.0/4.0	560/5.0/6.7			
208-230/3/60		3.1	8.2	8.8	N/A			
460/3/60		1.6	3.7	4.3	6.7			

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
ELECTRICAL	**Next Size Motor**							
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and NEXT LARGER FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	42/52/60	42/52/60	51/32/70	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	19/24/25	19/24/25	23/29/30	26/32/35	N/A
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT LARGER FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	25/31/35	25/31/35	25/31/35	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	11/14/15	11/14/15	12/15/20	14/18/20	N/A
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT LARGER FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	42/52/60	42/52/60	51/63/70	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	19/24/25	19/24/25	23/29/30	26/32/35	N/A
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT LARGER FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	8.2/10/15	8.2/10/15	8.8/11/15	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	3.7/4.6/15	3.7/4.6/15	4.3/5.4/15	6.7/8.4/15	N/A
COMPRESSOR	*FLA - Full load amps*							
208-230/3/60		10.4	13.1	17.6	20.5	30.1	33.3	51.3
460/3/60		4.5	6.1	9.6	9.6	16.7	17.9	23.1

* * * The following section has no reference to column heading * * *

NEXT LARGER FAN	*FLA - Full load amps*		
Diameter/kW/HP	500/2.8/3.7	560/3.0/4.0	560/5.0/6.7
208-230/3/60	8.2	8.8	N/A
460/3/60	3.7	4.3	6.7

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTAD/U007*	*GTAD/U011*	*GTAD/U014*	*GTAD/U018*	*GTAD/U028*	*GTAD/U035*	*GTAD/U046*
CONDENSING UNIT								
Condensing unit at 95° F ambient		***DRCU-03***	***DRCU-03***	***DRCU-05***	***DRCU-05***	***DRCU-09***	***DRCU-11***	***DRCU-15***
208-230/3/60	FLA/MCA/MOP	15/18/30	18/21/35	22/27/45	25/30/60	35/42/80	43/51/90	61/73/150
460/3/60	FLA/MCA/MOP	6.8/7.9/15	8.4/9.9/20	12/14/25	12/14/25	19/23/45	23/27/50	28/34/60
Condensing unit at 100° F ambient		***DRCU-03***	***DRCU-03***	***DRCU-05***	***DRCU-06***	***DRCU-11***	***DRCU-15***	***DRCU-17***
208-230/3/60	FLA/MCA/MOP	15/18/30	18/21/35	22/27/45	25/30/60	39/47/80	43/51/90	61/73/150
460/3/60	FLA/MCA/MOP	6.8/7.9/15	8.4/9.9/20	12/14/25	12/14/25	21/26/45	23/27/50	28/34/60
Condensing unit at 105° F ambient		***DRCU-03***	***DRCU--05***	***DRCU-06***	***DRCU-07***	***DRCU-15***	***DRCU-17***	***DRCU-21***
208-230/3/60	FLA/MCA/MOP	15/18/30	18/21/35	22/27/45	25/30/60	39/47/80	43/51/90	65/78/150
460/3/60	FLA/MCA/MOP	6.8/7.9/15	8.4/9.9/20	12/14/25	12/14/25	21/26/45	23/27/50	30/36/90

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTWD/U007*	*GTWD/U011*	*GTWD/U014*	*GTWD/U018*	*GTWD/U028*	*GTWD/U035*	*GTWD/U046*
CAPACITY in Btu/hr - *gross*								
80° DB/67° WB	Total	30,000	44,700	60,300	70,200	N/A	N/A	N/A
50% RH	Sensible	21,400	31,700	43,400	52,600	N/A	N/A	N/A
75° DB/62.5° WB	Total	27,700	41,300	55,700	65,200	N/A	N/A	N/A
50% RH	Sensible	20,700	30,600	41,900	50,800	N/A	N/A	N/A
75° DB/61° WB	Total	26,800	40,000	53,800	63,300	N/A	N/A	N/A
45% RH	Sensible	21,900	32,500	44,400	54,200	N/A	N/A	N/A
72° DB/60° WB	Total	26,400	39,300	53,000	62,300	N/A	N/A	N/A
50% RH	Sensible	20,200	29,900	41,000	49,700	N/A	N/A	N/A
72° DB/58.6° WB	Total	26,100	38,400	51,500	60,900	N/A	N/A	N/A
45% RH	Sensible	21,500	31,600	43,200	52,800	N/A	N/A	N/A
FAN SECTION								
Airflow - CFM		800	1,200	1,600	2,000	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	450	-	-	-
Fan motor - kW/HP		1/1.4	1/1.4	1/1.4	1/1.4	-	-	-
External static pressure (E.S.P.) - inches of W.G.		0.5	0.5	0.5	0.5	-	-	-
Maximum E.S.P.		1.5	1.5	1.5	1.3	-	-	-
Next size fan - diameter (mm)		N/A	N/A	N/A	500	-	-	-
Fan motor - kW/HP		-	-	-	2.8/3.7	-	-	-
Minimum E.S.P.	-	-	-	1.5	-	-	-	
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTWD/U007*	*GTWD/U011*	*GTWD/U014*	*GTWD/U018*	*GTWD/U028*	*GTWD/U035*	*GTWD/U046*
FILTER SECTION								
Quantity		2	2	2	2	-	-	-
Size - inches	*Downflow*	16x20x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x20x4	20x20x4	20x20x4	20x20x4	-	-	-
	Upflow	16x25x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x25x4	20x25x4	20x25x4	20x25x4	-	-	-
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 Fan**						
Electrical data based on STANDARD unit, electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier -**YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	40/49/60	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	19/23/30	19/23/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	24/29/45	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	11/14/20	-	-	-

STANDARD FAN	*FLA - Full load amps*
Diameter (mm)/kW/HP	450/1.0/1.4
208-230/3/60	3.1
460/3/60	1.6

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

WATER COOLED: Performance data at STANDARD airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTWD/U007*	*GTWD/U011*	*GTWD/U014*	*GTWD/U018*	*GTWD/U028*	*GTWD/U035*	*GTWD/U046*
ELECTRICAL SECTION	**Next Size Fan**							
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	28/35/40	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	45/54/70	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	21/25/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	28/35/40	-	-	-
Electrical data based on: electric reheat -**NO**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	29/34/50	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	13/16/25	-	-	-
COMPRESSOR	*FLA - Full load amps*							
208-230/3/60		10.4	13.1	17.6	20.5	-	-	-
460/3/60		4.5	6.1	9.6	9.6	-	-	-

* * * The following section has no reference to column heading * * *

NEXT LARGER FAN	*FLA - Full load amps*
Diameter/kW/HP	500/2.8/3.7
208-230/3/60	8.2
460/3/60	3.7

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

WATER COOLED: Performance data at STANDARD airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTWD/U007*	*GTWD/U011*	*GTWD/U014*	*GTWD/U018*	*GTWD/U028*	*GTWD/U035*	*GTWD/U046*
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	.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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTWD/U007*	*GTWD/U011*	*GTWD/U014*	*GTWD/U018*	*GTWD/U028*	*GTWD/U035*	*GTWD/U046*
CAPACITY in Btu/hr - *gross*								
80° DB/67° WB	Total	31,400	46,300	62,800	73,100	N/A	N/A	N/A
50% RH	Sensible	24,200	35,500	49,100	59,700	N/A	N/A	N/A
75° DB/62.5° WB	Total	29,000	43,200	58,400	67,800	N/A	N/A	N/A
50% RH	Sensible	23,200	34,300	47,300	57,400	N/A	N/A	N/A
75° DB/61° WB	Total	28,200	41,700	56,500	65,700	N/A	N/A	N/A
45% RH	Sensible	24,900	36,500	50,500	61,500	N/A	N/A	N/A
72° DB/60° WB	Total	27,600	41,300	55,800	64,600	N/A	N/A	N/A
50% RH	Sensible	22,600	33,500	46,200	56,000	N/A	N/A	N/A
72° DB/58.6° WB	Total	27,000	39,800	54,000	63,300	N/A	N/A	N/A
45% RH	Sensible	24,100	35,400	48,900	59,800	N/A	N/A	N/A
FAN SECTION								
Airflow - CFM		1,000	1,500	2,000	2,500	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	450	-	-	-
Fan motor - kW/HP								
External static pressure (E.S.P.) - inches of W.G.		1/1.4	1/1.4	1/1.4	1/1.4	-	-	-
Maximum E.S.P.		1.5	1.5	1.3	0.7	-	-	-
Next size fan - diameter (mm)		N/A	N/A	500	500	-	-	-
Fan motor - kW/HP		-	-	2.8/3.7	2.8/3.7	-	-	-
Maximum E.S.P.		-	-	1.5	1.5	-	-	-
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTWD/U007*	*GTWD/U011*	*GTWD/U014*	*GTWD/U018*	*GTWD/U028*	*GTWD/U035*	*GTWD/U046*
FILTER SECTION								
Quantity		2	2	2	2	-	-	-
Size - inches	*Downflow*	16x20x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x20x4	20x20x4	20x20x4	20x20x4	-	-	-
	Upflow	16x25x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x25x4	20x25x4	20x25x4	20x25x4	-	-	-
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 Fan**							
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	40/49/60	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	19/23/30	19/23/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier -**NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO** and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	23/29/45	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	11/14/20	-	-	-

STANDARD FAN	*FLA - Full load amps*
Diameter (mm)/kW/HP	500/2.8/3.7
208-230/3/60	8.2
460/3/60	3.7

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

WATER COOLED: Performance data at OPTIONAL airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTWD/U007*	*GTWD/U011*	*GTWD/U014*	*GTWD/U018*	*GTWD/U028*	*GTWD/U035*	*GTWD/U046*
ELECTRICAL SECTION		**Next Size Fan**						
Electrical data based on: electric reheat -**YES**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	59/72/80	62/76/80	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	28/35/40	28/35/40	N/A	N/A	N/A
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	42/51/60	45/54/70	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	21/25/30	21/25/30	N/A	N/A	N/A
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	59/72/80	62/76/80	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	28/35/40	28/35/40	N/A	N/A	N/A
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	26/30/45	29/34/50	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	13/16/25	13/16/25	N/A	N/A	N/A
COMPRESSOR		*FLA - Full load amps*						
208-230/3/60		10.4	13.1	17.6	20.5	-	-	-
460/3/60		4.5	6.1	9.6	9.6	-	-	-

* * * The following section has no reference to column heading * * *

NEXT LARGER FAN	*FLA - Full load amps*
Diameter/kW/HP	500/2.8/3.7
208-230/3/60	8.2
460/3/60	3.7

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

WATER COOLED: Performance data at OPTIONAL airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTWD/U007*	*GTWD/U011*	*GTWD/U014*	*GTWD/U018*	*GTWD/U028*	*GTWD/U035*	*GTWD/U046*
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTGD/U007*	*GTGD/U011*	*GTGD/U014*	*GTGD/U018*	*GTGD/U028*	*GTGD/U035*	*GTGD/U046*
CAPACITY in Btu/hr - *gross*								
80° DB/67° WB	Total	25,800	38,500	52,100	61,200	N/A	N/A	N/A
50% RH	Sensible	19,700	29,200	40,200	49,100	N/A	N/A	N/A
75° DB/62.5° WB	Total	23,800	35,700	48,100	56,400	N/A	N/A	N/A
50% RH	Sensible	19,000	28,200	38,600	47,100	N/A	N/A	N/A
75° DB/61° WB	Total	23,100	34,600	46,600	54,800	N/A	N/A	N/A
45% RH	Sensible	20,300	30,100	41,200	50,400	N/A	N/A	N/A
72° DB/60° WB	Total	22,700	34,000	45,700	53,500	N/A	N/A	N/A
50% RH	Sensible	18,500	27,500	37,600	45,900	N/A	N/A	N/A
72° DB/58.6° WB	Total	22,100	33,100	44,500	52,100	N/A	N/A	N/A
45% RH	Sensible	19,600	29,200	39,900	48,800	N/A	N/A	N/A
FAN SECTION								
Airflow - CFM		800	1,200	1,600	2,000	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	450	-	-	-
Fan motor - kW/HP		1/1.4	1/1.4	1/1.4	1/1.4	-	-	-
External static pressure (E.S.P.) - inches of W.G.		0.5	0.5	0.5	0.5	-	-	-
Maximum E.S.P.		1.5	1.5	1.5	1.3	-	-	-
Next size fan - diameter (mm)		N/A	N/A	N/A	500	-	-	-
Fan motor - kW/HP		-	-	-	2.8/3.7	-	-	-
Minimum E.S.P.	-	-	-	1.5	-	-	-	
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTGD/U007*	*GTGD/U011*	*GTGD/U014*	*GTGD/U018*	*GTGD/U028*	*GTGD/U035*	*GTGD/U046*
FILTER SECTION								
Quantity		2	2	2	2	-	-	-
Size - inches	*Downflow*	16x20x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x20x4	20x20x4	20x20x4	20x20x4	-	-	-
	Upflow	16x25x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x25x4	20x25x4	20x25x4	20x25x4	-	-	-
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 Fan**						
Electrical data based on STANDARD unit, electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier -**YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	40/49/60	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	19/23/30	19/23/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	24/29/45	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	11/14/20	-	-	-
STANDARD FAN		*FLA - Full load amps*						
Diameter (mm)/kW/HP		450/1.0/1.4	500/2.8/3.7					
208-230/3/60		3.1	8.2					
460/3/60		1.6	3.7					

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

GLYCOL COOLED: Performance data at STANDARD airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTGD/U007*	*GTGD/U011*	*GTGD/U014*	*GTGD/U018*	*GTGD/U028*	*GTGD/U035*	*GTGD/U046*
ELECTRICAL SECTION	**Next Size Fan**							
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	28/35/40	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	45/54/70	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	21/25/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	28/35/40	-	-	-
Electrical data based on: electric reheat -**NO**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	29/34/50	-	-	-
460/3/60	FLA/MCA/MOP	N/A	N/A	N/A	13/16/25	-	-	-
COMPRESSOR	*FLA - Full load amps*							
208-230/3/60		10.4	13.1	17.6	20.5	-	-	-
460/3/60		4.5	6.1	9.6	9.6	-	-	-

* * * The following section has no reference to column heading * * *

NEXT LARGER FAN	*FLA - Full load amps*
Diameter/kW/HP	500/2.8/3.7
208-230/3/60	8.2
460/3/60	3.7

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

GLYCOL COOLED: Performance data at STANDARD airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTGD/U007*	*GTGD/U011*	*GTGD/U014*	*GTGD/U018*	*GTGD/U028*	*GTGD/U035*	*GTGD/U046*
FLUID COOLER SELECTIONS								
Fluid cooler at 95° F ambient		**DAFC-06**	**DAFC-06**	**DAFC-06**	**DAFC-07**	**-**	**-**	**-**
208-230/1/60	FLA/MCA/MOP	4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	-	-	-
208-230/3/60	FLA/MCA/MOP	4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	-	-	-
460/3/60	FLA/MCA/MOP	2.3/2.9/15	2.3/2.9/15	2.3/2.9/15	2.3/2.9/15	-	-	-
Fluid cooler at 100° F ambient		**DAFC-06**	**DAFC-06**	**DAFC-09**	**DAFC-15**	**-**	**-**	**-**
208-230/1/60	FLA/MCA/MOP	4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	9.2/10.4/15	-	-	-
208-230/3/60	FLA/MCA/MOP	4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	9.2/10.4/15	-	-	-
460/3/60	FLA/MCA/MOP	2.3/2.9/15	2.3/2.9/15	2.3/2.9/15	4.6/5.2/15	-	-	-
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTGD/U007*	*GTGD/U011*	*GTGD/U014*	*GTGD/U018*	*GTGD/U028*	*GTGD/U035*	*GTGD/U046*
CAPACITY in Btu/hr - *gross*								
80° DB/67° WB	Total	27,000	40,100	54,000	62,800	N/A	N/A	N/A
50% RH	Sensible	22,500	33,100	45,600	55,800	N/A	N/A	N/A
75° DB/62.5° WB	Total	24,900	37,000	50,100	58,300	N/A	N/A	N/A
50% RH	Sensible	21,500	31,700	43,800	53,500	N/A	N/A	N/A
75° DB/61° WB	Total	24,000	36,000	48,500	56,500	N/A	N/A	N/A
45% RH	Sensible	23,100	34,100	47,000	56,500	N/A	N/A	N/A
72° DB/60° WB	Total	23,600	35,200	47,700	55,600	N/A	N/A	N/A
50% RH	Sensible	20,900	30,900	42,700	52,100	N/A	N/A	N/A
72° DB/58.6° WB	Total	22,900	34,500	46,300	54,600	N/A	N/A	N/A
45% RH	Sensible	22,300	33,000	45,500	54,300	N/A	N/A	N/A
FAN SECTION								
Airflow - CFM		1,000	1,500	2,000	2,500	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	450	-	-	-
Fan motor - kW/HP								
External static pressure (E.S.P.) - inches of W.G.		1/1.4	1/1.4	1/1.4	1/1.4	-	-	-
Maximum E.S.P.		1.5	1.5	1.3	0.7	-	-	-
Next size fan - diameter (mm)		N/A	N/A	500	500	-	-	-
Fan motor - kW/HP		-	-	2.8/3.7	2.8/3.7	-	-	-
Maximum E.S.P.			-	1.5	1.5	-	-	-
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTGD/U007*	*GTGD/U011*	*GTGD/U014*	*GTGD/U018*	*GTGD/U028*	*GTGD/U035*	*GTGD/U046*
FILTER SECTION								
Quantity		2	2	2	2	-	-	-
Size - inches	*Downflow*	16x20x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x20x4	20x20x4	20x20x4	20x20x4	-	-	-
	Upflow	16x25x4	16x25x4	16x25x4	16x25x4	-	-	-
		20x25x4	20x25x4	20x25x4	20x25x4	-	-	-
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 Fan**							
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	40/49/60	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	19/23/30	19/23/30	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier -**NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO** and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	23/29/45	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	11/14/20	-	-	-

STANDARD FAN	*FLA - Full load amps*	
Diameter (mm)/kW/HP	450/1.0/1.4	500/2.8/3.7
208-230/3/60	3.1	8.2
460/3/60	1.6	3.7

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

GLYCOL COOLED: Performance data at OPTIONAL airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER		*GTGD/U007*	*GTGD/U011*	*GTGD/U014*	*GTGD/U018*	*GTGD/U028*	*GTGD/U035*	*GTGD/U046*
ELECTRICAL SECTION		**Next Size Fan**						
Electrical data based on: electric reheat -**YES**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	59/72/80	62/76/80	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	28/35/40	28/35/40	N/A	N/A	N/A
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	42/51/60	45/54/70	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	21/25/30	21/25/30	N/A	N/A	N/A
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	59/72/80	62/76/80	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	28/35/40	28/35/40	N/A	N/A	N/A
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and NEXT SIZE FAN.								
208-230/3/60	FLA/MCA/MOP	N/A	N/A	26/30/45	29/34/50	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	N/A	N/A	13/16/25	13/16/25	N/A	N/A	N/A
COMPRESSOR	*FLA - Full load amps*							
208-230/3/60		10.4	13.1	17.6	20.5	-	-	-
460/3/60		4.5	6.1	9.6	9.6	-	-	-

* * * The following section has no reference to column heading * * *

NEXT LARGER FAN	*FLA - Full load amps*
Diameter/kW/HP	500/2.8/3.7
208-230/3/60	8.2
460/3/60	3.7

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

GLYCOL COOLED: Performance data at OPTIONAL airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

MODEL NUMBER			*GTGD/U007*	*GTGD/U011*	*GTGD/U014*	*GTGD/U018*	*GTGD/U028*	*GTGD/U035*	*GTGD/U046*
FLUID COOLER SELECTIONS									
Fluid cooler at 95° F ambient			**DAFC-06**	**DAFC-06**	**DAFC-06**	**DAFC-07**	-	-	-
208-230/1/60	FLA/MCA/MOP		4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	-	-	-
208-230/3/60	FLA/MCA/MOP		4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	-	-	-
460/3/60	FLA/MCA/MOP		2.3/2.9/15	2.3/2.9/15	2.3/2.9/15	2.3/2.9/15	-	-	-
Fluid cooler at 100° F ambient			**DAFC-06**	**DAFC-06**	**DAFC-09**	**DAFC-15**	**-**	**-**	**-**
208-230/1/60	FLA/MCA/MOP		4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	9.2/10.4/15	-	-	-
208-230/3/60	FLA/MCA/MOP		4.6/5.8/15	4.6/5.8/15	4.6/5.8/15	9.2/10.4/15	-	-	-
460/3/60	FLA/MCA/MOP		2.3/2.9/15	2.3/2.9/15	2.3/2.9/15	4.6/5.2/15	-	-	-
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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

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

MODEL NUMBER		*GT*D/U007*	*GT*D/U011*	*GT*D/U014*	*GT*D/U018*	*GT*D/U028*	*GT*D/U035*	*GT*D/U046*
CAPACITY in Btu/hr - *gross*								
75° F DB/62.5° F WB	Total	28,000	39,500	54,400	65,300	N/A	N/A	N/A
50% RH	Sensible	21,700	31,200	42,400	51,600	N/A	N/A	N/A
72° F DB/62.5° F WB	Total	23,800	33,600	46,200	55,500	N/A	N/A	N/A
50% RH	Sensible	19,900	28,700	38,900	47,400	N/A	N/A	N/A
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	-	-	-
FAN SECTION								
Airflow - CFM		800	1,200	1,600	2,000	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	450	-	-	-
Fan motor - kW/HP		1/1.4	1/1.4	1/1.4	1/1.4	-	-	-
External static pressure (E.S.P.) - inches of W.G.		0.5	0.5	0.5	0.5	-	-	-
Maximum E.S.P.		1.5	1.5	1.5	1.1	-	-	-
Next size fan - diameter (mm)		N/A	N/A	N/A	500	-	-	-
Fan motor - kW/HP		-	-	-	2.8/3.7	-	-	-
Minimum E.S.P.	-	-	-	1.5	-	-	-	
ELECTRICAL SECTION		**Standard Fan**						
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	40/49/60	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/25	19/23/40	19/23/40	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	24/29/45	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	11/14/20	-	-	-

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

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

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

MODEL NUMBER		*GT*D/U007*	*GT*D/U011*	*GT*D/U014*	*GT*D/U018*	*GT*D/U028*	*GT*D/U035*	*GT*D/U046*
CAPACITY in Btu/hr - *gross*								
75° F DB/62.5° F WB	Total	31,900	44,700	61,800	73,900	N/A	N/A	N/A
50% RH	Sensible	25,600	36,700	50,000	47,400	N/A	N/A	N/A
72° F DB/62.5° F WB	Total	27,300	38,300	52,800	63,400	N/A	N/A	N/A
50% RH	Sensible	23,700	28,700	46,100	56,000	N/A	N/A	N/A
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	-	-	-
FAN SECTION								
Airflow - CFM		1,000	1,500	2,000	2,500	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	500	-	-	-
Fan motor - kW/HP								
External static pressure (E.S.P.) - inches of W.G.		1/1.4	1/1.4	1/1.4	2.8/3.7	-	-	-
Maximum E.S.P.		1.5	1.5	1.0	1.5	-	-	-
Next size fan - diameter (mm)		N/A	N/A	500	N/A	-	-	-
Fan motor - kW/HP		-	-	2.8/3.7	-	-	-	-
Maximum E.S.P.		-	-	1.0	-	-	-	-
ELECTRICAL SECTION	**Standard Fan**							
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	28/35/40	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	45/54/70	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/25	19/23/40	21/25/40	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	28/35/40	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	29/34/50	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	13/16/25	-	-	-

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

ENERGY SAVER: Performance data at STANDARD airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

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

MODEL NUMBER		*GT*D/U007*	*GT*D/U011*	*GT*D/U014*	*GT*D/U018*	*GT*D/U028*	*GT*D/U035*	*GT*D/U046*
CAPACITY in Btu/hr- *gross*								
75° F DB/62.5° F WB	Total	23,300	31,700	46,800	56,300	N/A	N/A	N/A
50% RH	Sensible	19,600	27,600	39,000	47,500	N/A	N/A	N/A
72° F DB/62.5° F WB	Total	20,200	27,500	40,400	48,600	N/A	N/A	N/A
50% RH	Sensible	18,200	25,700	36,100	44,000	N/A	N/A	N/A
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	-	-	-
FAN SECTION								
Airflow - CFM		800	1,200	1,600	2,000	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	450	-	-	-
Fan motor - kW/HP		1/1.4	1/1.4	1/1.4	1/1.4	-	-	-
External static pressure (E.S.P.) - inches of W.G.		0.5	0.5	0.5	0.5	-	-	-
Maximum E.S.P.		1.5	1.5	1.5	1.0	-	-	
Next size fan - diameter (mm)		N/A	N/A	N/A	500	-	-	-
Fan motor - kW/HP		-	-	-	2.8/3.7	-	-	-
Minimum E.S.P.	-	-	-	1.5	-	-	-	
ELECTRICAL SECTION		**Standard Fan**						
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	40/49/60	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/25	19/23/40	19/23/40	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	57/70/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	26/32/35	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	24/29/45	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	11/14/20	-	-	-

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

ENERGY SAVER: Performance data at OPTIONAL airflow

R-410A

gForce GT also available in R-407C. Data in a separate brochure.

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

MODEL NUMBER		*GT*D/U007*	*GT*D/U011*	*GT*D/U014*	*GT*D/U018*	*GT*D/U028*	*GT*D/U035*	*GT*D/U046*
CAPACITY in Btu/hr - *gross*								
75° F DB/62.5° F WB	Total	26,000	35,200	52,300	62,800	N/A	N/A	N/A
50% RH	Sensible	22,900	32,200	45,700	55,500	N/A	N/A	N/A
72° F DB/62.5° F WB	Total	22,700	30,900	45,500	54,700	N/A	N/A	N/A
50% RH	Sensible	21,300	29,800	42,400	51,500	N/A	N/A	N/A
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	-	-	-
FAN SECTION								
Airflow - CFM		1,000	1,500	2,000	2,500	-	-	-
Number of fans		1	1	1	1	-	-	-
Standard fax - diameter (mm)		450	450	450	500	-	-	-
Fan motor - kW/HP								
External static pressure (E.S.P.) - inches of W.G.		1/1.4	1/1.4	1/1.4	2.8/3.7	-	-	-
Maximum E.S.P.		1.5	1.5	1.0	1.5	-	-	-
Next size fan - diameter (mm)		N/A	N/A	500	500	-	-	-
Fan motor - kW/HP		-	-	2.8/3.7	2.8/3.7	-	-	-
Maximum E.S.P.		-	-	1.5	1.5	-	-	-
ELECTRICAL SECTION	**Standard Fan**							
Electrical data based on STANDARD unit: electric reheat - **YES**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	28/35/40	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **YES**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	37/46/50	45/54/70	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/25	19/23/40	21/25/40	-	-	-
Electrical data based on: electric reheat - **YES**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	30/37/40	33/40/45	54/67/70	62/76/80	-	-	-
460/3/60	FLA/MCA/MOP	14/17/20	15/19/20	26/32/35	28/35/40	-	-	-
Electrical data based on: electric reheat - **NO**, steam generator humidifier - **NO**, and STANDARD FAN.								
208-230/3/60	FLA/MCA/MOP	14/16/25	16/20/30	21/25/40	29/34/50	-	-	-
460/3/60	FLA/MCA/MOP	6.1/7.2/15	7.7/9.2/15	11/14/20	13/16/25	-	-	-

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

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