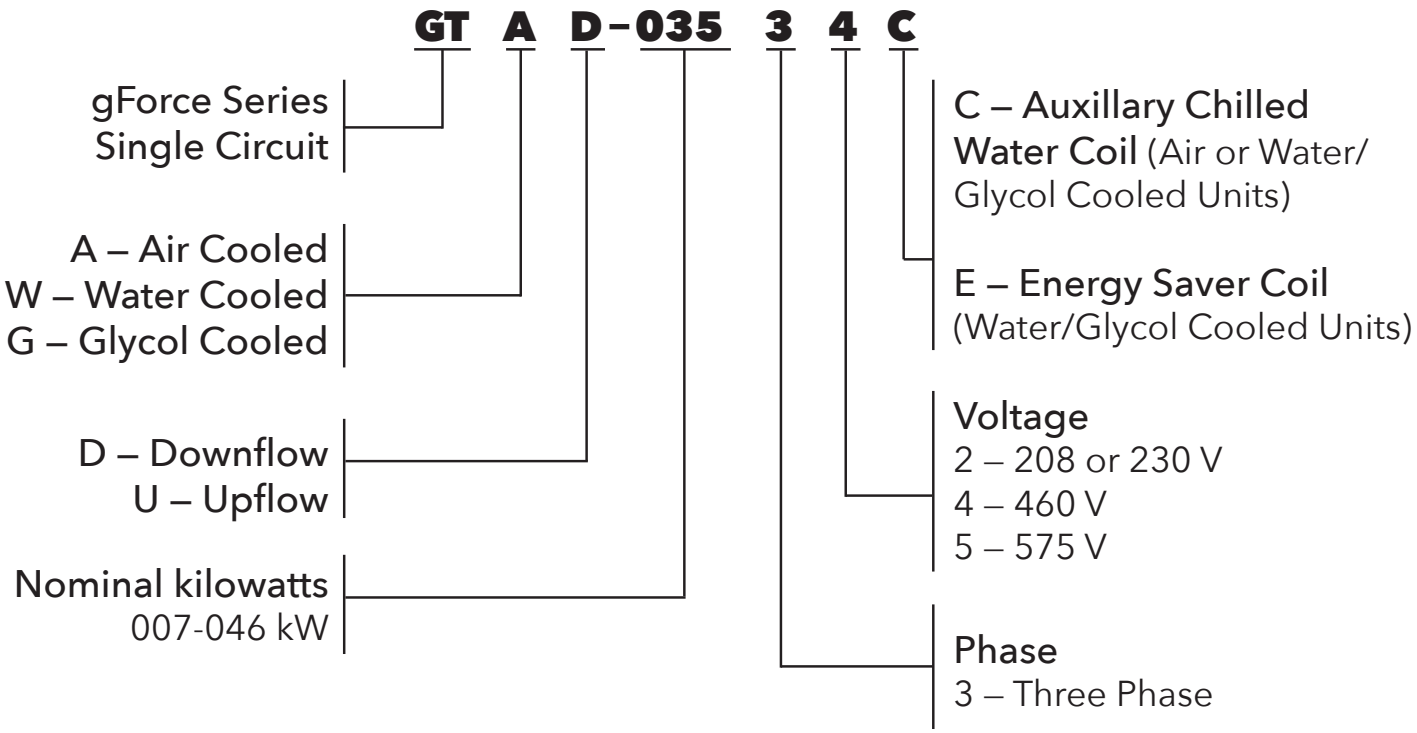
gForce GT

R-410A and R-407C

Single Circuit | Air, Water/Glycol Cooled | 7 to 46 kW

gForce
by dataaire

Model Number Identification



dataaire
Precise by Design

Building on more than 50 years of experience, Data Aire produces innovative solutions to meet developing demands of critical spaces. We are a solutions-driven organization with a passion for finding creative answers by working with our customers through a consultative process.

Known for products that are designed utilizing high levels of technology, Data Aire engineers are experienced visionaries who adapt processes and design proprietary unit enhancements which reflect the constant needs of today's mission critical spaces.

Data Aire combines extensive expertise in control logic with world-class manufacturing capability recognized by key international quality certifications. For those seeking reliable, scalable, customized technology, we provide the solutions of choice. Our precision air control equipment and intelligent energy management technology serve customers in diverse applications worldwide.

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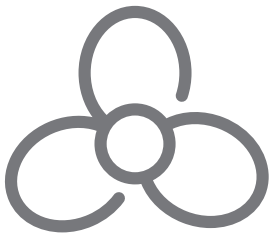

MISSION CRITICAL COOLING

gForce systems are efficient and economical while complying with strict environmental requirements. Incorporating backward curved plenum fans with electronically commutated (EC) motors, these systems supply dispersed cooling air at lower speeds, allowing for more uniform static pressure across the room. These fans provide more net cooling from the computer room air conditioning (CRAC) system, and the DC motors are more energy efficient, providing an on-going savings year after year. Each unit is factory run tested and put through a vigorous quality control procedure.

DATA AIRE DELIVERS

Standard lead time for a standard system is 4-6 weeks from date of order. With an optional premium "quick ship", systems 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, our consultative process helps you meet your specific requirements.

THERMODYNAMIC ENERGY EFFICIENCIES

The gForce design incorporates rifled tubing cooling coils which force the refrigerant gas and liquid to rotate as it passes through the coil. The coldest refrigerant is in contact with warmest surface, resulting in better heat transfer.

IMPROVED PERFORMANCE AND REDUCED MAINTENANCE

Unlike traditional forawrd fans, EC plenum fans promote optimal airflow through the raised floor close to the CRAC. One of the key features of backward curved fans is that the motor and fan are integrated into a single unit. This eliminates the need for monthly maintenance, belt replacement and belt dust.

IMPROVED AIRFLOW DESIGN

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. 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

The R-407C or R-410A refrigerants comply with the requirements of the Montreal Protocol which called for the phase out of refrigerants that deplete the ozone layer.

Design Features

DESIGN

gForce systems feature a specially designed compact tubular steel frame which allows for minimum space requirement of air conditioning equipment in the controlled area. Although compact, all parts are easily accessible providing excellent serviceability. The heart of the system is the Data Alarm Processor (dap4), a microprocessor based controller. The dap4 not only controls and monitors temperature, humidity, airflow, and cleanliness, it provides component runtimes, alarm history, and automatic self-test.

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 system comes equipped with a backward curved plenum fan with EC motor. The integrated motor and fan package provides the most efficient operation and is basically maintenance free.

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 includes 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 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.

FILTER SECTION

Units are provided with 4 inch deep, MERV 8 pleated filters, base on ASHRAE 52.2. The filter section is accessible from the front on 7-18 kW units, and from the front and side of 28-46kW units.

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.

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, and energy efficient, thermally protected axial type EC Plug fans. Units are operational down to 0° F, or -30° F with a low ambient receiver package.

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

The condensing unit includes a hermetic scroll compressor with built-in overload protection, crankcase heater, and condenser coil (constructed with copper tubes and aluminum fins). The housing is aluminum with vertical air discharge. Variable speed condenser fan for head pressure control down to 0° 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, axial type EC Plug fans. Fan speed is controlled by a water sensing thermostat.

Intelligent Controls

SMART SYSTEM CONTROLS FOR MISSION CRITICAL ENVIRONMENTS

Incorporating advances based on years of control-logic experience, Data Aire system control products offer maximum operational flexibility and growth potential. From a versatile microprocessor controller or a dependable relay autochangeover unit, to accessories that help prevent hot spots in rack installations and compensate for short-term power outages, Data Aire technology keeps you in command.

The gForce systems come equipped with dap4 touch for the dap4 control panel. dap4 supports 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.

CONTROLS

AUTOMATIC CONTROL FUNCTIONS

- Humidity Anticipation
- Auxiliary Chilled Water Operation*
- Sequential Load Activation
- Start Time Delay
- Automatic Reheat Element Rotation
- 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 Stages
- Discharge Temperature*

SWITCHING AND CONTROL FUNCTIONS

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

ALARMS

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

HISTORICAL DATA

High Temperature Last 24 Hours
High Humidity Last 24 Hours
Alarm History (Last 100 Alarms)
Low Temperature Last 24 Hours
Low Humidity Last 24 Hours
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
System Start Delay
Humidity Setpoint
Define Password
Compressor Short Cycle Alarm
Analog Module Sensor Setup*
High Temperature Alarm Limit
Firestat Temperature Alarm Limit
Calibrate Discharge Air Sensor*
Dehumidification Mode
Scheduled Normal Maintenance
Calibrate Humidity
Temperature Deadband
Low Temperature Alarm Limit
High Humidity Alarm Limit
Reset Equipment Runtimes
Humidity Anticipation
Calibrate Temperature Sensor
Fan Speed Settings
Manual Diagnosis
Person to contact on Alarm
Humidifier Autoflush Timer*
Reheat Stages
Humidifier
Fan Control Mode
Humidity Deadband
Low Humidity Alarm Limit
Audio Alarm Mode
Compressors(s)
Temperature Scale
Delay for Optional Alarm 1, 2, 3, 4
Remote Alarm 1, 2, 3, 4 Selection
Compressor Lead/Lag Sequence
Power Problem or Restart Mode
Water Valve Mode
Network Protocol
Compressor Supplements to Energy Saver*
Low Discharge Temperature Alarm Limit*
Calibrate Chilled Water Temperature Sensor*

ACCESSORIES

RackSense 32
dap4 Smart Power Capacitor
dap4 Power Meter

* Optional: 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 the setpoint of the water changeover thermostat, 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. If the temperature goes beyond setpoint plus deadband plus 2 degrees while still in Energy Saver Mode with the valve modulating, the Energy Saver valve will close and DX cooling will begin.

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

Energy Saver/Compressor Assist

Units with the Energy Saver Coil can be provided with compressor assist 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 turn 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 Assist

The Auxiliary Chilled Water Coil can be provided with compressor assist 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.

Compressor Rotalock Valves

These valves facilitate servicing and permit the changing of compressor without the complete loss of refrigerant.

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. 35 feet of shielded cable is provided for field wiring. Other lengths available as well.

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 system 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.

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 a 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 145 GPH at 40 feet (460v) or 168 GPM at 40 feet (230v) maximum. Pumps shipped loose are available in 115, 230, or 460 volt.

Upflow Plenum

Upflow plenums are fully insulated with front discharge air grilles. Side grilles for both or one side are available. Standard plenums are 24 inches high and are painted to match the unit color.

Floorstand

Floorstands are adjustable -1/+3 inches and are available with seismic construction.

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

Compressor-generated noise may be minimzed by use of a compressor sound jacket. 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).

Tandem Scroll Compressors

Units may be ordered with tandem scroll compressors when four stage compressor control is required. Units remain dual circuited. Tandem scrolls offer the inherent advantages of scroll technology: higher efficiency, increased reliability, lower sound, and excellent liquid handling.

Tandem scrolls offer two steps of modulation so that one or both compressors (per circuit) can run depending upon the load of the system, resulting in part-load efficiency equal to full load efficiency. Two-step modulation is possible because of a carefully designed tubing configuration and the scroll's superior ability to tolerate liquid. The built-in discharge check valve, present in all tandem scroll compressors, effectively prevents liquid migration in the off compressor. Oil migration is controlled with two specially designed oil and gas equalization lines. Adding this option to 46 kW unit will increase cabinet size to 144".

Site Monitoring Devices

DARA-4G2

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.

Models & Capacities

GTXX-007XX @ 1300 CFM						
	Air Cooled		Glycol Cooled		Water Cooled	
EAT °F (DB/WB)"	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)
72/58.6	7.4 (25,400)	7.0 (23,900)	7.1 (24,300)	6.9 (23,400)	8.1 (27,700)	7.4 (25,400)
75/61	7.9 (26,900)	7.2 (24,700)	7.8 (26,500)	7.2 (24,600)	8.8 (30,000)	7.9 (26,800)
72/60	7.5 (25,700)	6.7 (22,900)	7.2 (24,600)	6.6 (22,500)	8.2 (28,000)	7.2 (24,500)
75/62.5	8.1 (27,500)	7.0 (23,800)	7.8 (26,500)	6.9 (23,400)	8.8 (30,000)	7.4 (25,400)
80/67	9.0 (30,700)	7.4 (25,300)	8.6 (29,500)	7.3 (24,800)	9.8 (33,300)	7.9 (27,000)

GTXX-011XX @ 1900 CFM						
	Air Cooled		Glycol Cooled		Water Cooled	
EAT °F (DB/WB)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)
72/58.6	10.9 (37,300)	10.5 (35,900)	10.5 (35,900)	10.3 (35,300)	11.9 (40,500)	11.2 (38,200)
75/61	11.7 (39,900)	11.0 (37,500)	11.3 (38,400)	10.8 (37,000)	12.6 (43,100)	11.7 (39,900)
72/60	11.0 (37,700)	10.2 (34,800)	10.6 (36,300)	10.1 (34,300)	12.0 (40,900)	10.9 (37,200)
75/62.5	11.8 (40,100)	10.6 (36,200)	11.3 (38,500)	10.4 (35,600)	12.7 (43,300)	11.3 (38,400)
80/67	12.9 (43,900)	11.2 (38,300)	12.4 (42,300)	11.0 (37,700)	13.9 (47,300)	11.9 (40,600)

GTXX-014XX @ 2300 CFM						
	Air Cooled		Glycol Cooled		Water Cooled	
EAT °F (DB/WB)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)
72/58.6	14.3 (48,700)	14.2 (48,000)	13.8 (47,000)	13.7 (46,900)	15.7 (53,500)	15.0 (51,100)
75/61	14.9 (50,800)	14.6 (49,700)	14.4 (49,200)	14.2 (48,600)	16.4 (55,900)	15.5 (52,800)
72/60	14.5 (49,500)	13.6 (46,300)	13.9 (47,400)	13.3 (45,500)	16.0 (54,500)	14.1 (48,100)
75/62.5	15.4 (52,400)	13.8 (47,000)	14.7 (50,300)	13.6 (46,400)	16.9 (57,800)	14.4 (49,000)
80/67	16.8 (57,200)	14.2 (48,500)	16.1 (55,100)	14.0 (47,800)	18.6 (63,300)	14.8 (50,400)

GTXX-018XX @ 2500 CFM						
	Air Cooled		Glycol Cooled		Water Cooled	
EAT °F (DB/WB)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)
72/58.6	16.1 (55,100)	15.9 (54,200)	15.6 (53,400)	15.5 (52,900)	17.5 (59,800)	16.8 (57,300)
75/61	17.0 (57,900)	16.4 (56,100)	16.3 (55,700)	16.0 (54,500)	18.4 (62,900)	17.3 (59,200)
72/60	16.4 (56,000)	15.2 (52,000)	15.8 (53,800)	14.7 (50,300)	17.9 (61,000)	15.9 (54,200)
75/62.5	17.5 (59,700)	15.6 (53,100)	16.8 (57,400)	15.1 (51,500)	19.1 (64,900)	16.2 (55,300)
80/67	19.3 (65,900)	16.1 (54,800)	18.6 (63,300)	15.6 (53,400)	21.0 (71,500)	16.7 (57,000)

GTXX-028XX-AO thru GTXX-046XX-AO						
	GTXX-028XX-AO Air Cooled @ 3600 CFM		GTXX-035XX-AO Air Cooled @ 4000 CFM		GTXX-046XX-AO Air Cooled @ 4500 CFM	
EAT °F (DB/WB)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)	Net Total kW (BTU/hr)	Net Sensible kW (BTU/hr)
72/58.6	24.4 (83,200)	21.8 (74,300)	29.9 (102,100)	26.5 (90,500)	37.9 (129,200)	32.3 (110,300)
75/61	25.8 (88,200)	22.6 (77,200)	31.5 (107,500)	27.5 (93,700)	39.2 (133,900)	33.2 (113,200)
72/60	25.2 (85,800)	20.4 (69,500)	30.7 (104,900)	24.8 (84,700)	38.8 (132,300)	30.0 (103,500)
75/62.5	26.5 (90,500)	20.9 (71,400)	32.4 (110,600)	25.5 (86,900)	40.7 (139,000)	31.0 (105,900)
80/67	28.8 (98,400)	21.9 (74,600)	35.3 (120,300)	26.6 (90,700)	44.0 (150,200)	32.2 (110,000)

GTXX-XXXXX @ STANDARD AIRFLOW						
	Standard EC Plug Fans			Standard Cabinet Dimensions		
Capacity, kW	Number of Fans	Standard Fan Size, mm	Standard Fan Motor, kW	Depth, in.	Length, in.	Height, in.
7	1	450	1.0	40.5	36.0	78.0
11	1	450	1.0	40.5	36.0	78.0
14	1	450	1.0	40.5	36.0	78.0
18	1	450	1.0	40.5	36.0	78.0
28	1	500	2.7	40.5	53.5	78.0
35	1	500	2.7	40.5	53.5	78.0
46	1	500	2.7	40.5	53.5	78.0

1. Performance data is based on ACFM and tested in compliance with ASHRAE Standard 127-2007 Standard Rating Conditions.
2. DOE certification reports and compliance statements for Data Aire products can be found under The Compliance Certification Database at https://www.regulations.doe.gov/certification-data/
3. Net capacity data includes fan motor heat.
4. Models with an AO suffix are configurations with the compressor located in outdoor condensing unit.
5. Consult factory for alternate operating conditions or options as these may impact unit performance.

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