



Chilled Water 7 to 211 kW

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

Data Aire®

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

Data Aire's first precision cooling system was developed by data processing facility engineers who sought optimum environmental conditions for early computers. It was clear that "people comfort" air conditioning systems were unable to meet the environmental requirements of computers and data processing equipment. Precision environmental control equipment with high sensible cooling ratios was a necessity. Problems with paper sticking, head crash, and static electricity were eliminated. Humidity fluctuations were controlled saving possible electrical and mechanical failures and more importantly – Downtime. Data Aire's innovative response to the challenge of eliminating problems within the computer room environment was the start of the wide use of precision cooling.

As in the past, Data Aire is meeting today's challenge of not only the computer room but also the ever expanding telecommunications industry where precision cooling is vital to our everyday communications. Telecommunication equipment requires a controlled environment with clean and properly distributed air. As in the computer room, the environment must be precisely controlled – 24 hours a day, 365 days a year.

Data Aire produces solutions. We have offered environmental control 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.

Data Aire is committed to being the supplier of choice for environmental process cooling with flexibility, reliability, and expertise required to meet our customer's needs. To be successful, it is essential to be creative and use our resources to their fullest capabilities. The Data Aire goal is to benefit the employees, partners, and most of all – our customers with honesty and integrity.

Data Aire Delivers!



gForce

7 to 211 kW CHILLED WATER UNITS

Product Description

Performance/Electrical Data

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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. 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 CRAH. 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 an external 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 of four 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.

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

DATA AIRE DELIVERS

Standard ship cycle is 30 days from date of order. With an optional premium "quick ship" units can be expedited to ship in 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 information.

PRECISION COOLING

Data Aire Series chilled water units offer precision environmental control that brings a standard of reliable performance to meet today's market demands. Data Aire systems are designed for data centers, telecommunication sites, or anywhere process cooling is required. Chilled water units are available in 7 through 176 nominal kilowatts with upflow or downflow air distribution. Each unit is factory run tested and put through a comprehensive quality control procedure.

DESIGN

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

The heart of the system is the *Date Alarm Processor-dap4*, a microprocessor based controller designed for precision environmental control. The *dap4* not only controls and monitors temperature, humidity, airflow, and cleanliness, it provides component runtimes, alarm history, and automatic self-test. All information is provided on a backlit liquid crystal display (LCD).

HIGH PERFORMANCE/LOW COST

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

CABINET and FRAME

Data Aire chilled water series units are constructed with heliarc welded tubular steel frame providing for maximum strength and ease of access. Side and front panels can be easily removed with quarter-turn fasteners allowing full access to all unit components. All panels include 1 inch thick, 1½ pound density insulation for protection and sound attenuation.

COIL SECTION

Designed for draw through application, the computer selected A-frame coil provides greater efficiency in the cooling and dehumidification process. Air is drawn through both

slabs at velocities that provide effective surface exposure with minimum turbulence. The chilled water flow is controlled by a 3-way modulating mixing valve for accurate and economical temperature and dehumidification control. Bypass air is provided to prevent saturated air from being introduced into the controlled space. The coil sits in a stainless steel drain pan.

FAN SECTION

Backward curved plenum fans with electronically commutated motors are used to provide the most efficient fan/motor combination available in the market today. Electronically commutated motors are DC motors but connect to standard AC power. DC motors are more efficient than AC motors and can be programmed to run at various speeds. With the fan blades directly connected to the motor the need for periodic fan drive maintenance is eliminated. In the unlikely event of a fan failure replacement is simple.

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 top or side on downflow units and both sides on upflow units.

REHEAT

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

HUMIDIFICATION***Steam Generator Humidifier***

Units are furnished with an electric steam generator humidifier with "quick change" disposable cylinders and auto-flush cycle. The steam generator humidifier with its patented control system optimizes cylinder life by concentrating incoming water to a predetermined conductivity much higher than that of any 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 level at this design conductivity. The high design conductivity results in a minimum flushing of heated water which saves energy. The humidifier is designed to allow all units at any voltage to produce full rated steam output at an optimum low water level.

SYSTEM CONTROL

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		Compressor Short Cycle

Condition and Data Routinely Displayed

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

Switching and Control functions

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

Alarms

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

Historical Data

High Temperature Last 24 Hours	Low Temperature Last 24 Hours	High Humidity Last 24 Hours
Low Humidity Last 24 Hours	Alarm History (Last 100 Alarms)	Hourly Average of Duty
Equipment Runtimes for: Blower, Compressor 1, Compressor 2, Reheat 1, 2, 3, Dehumidification, Energy Saver*, Humidifier, Condenser and Chilled Water		

Programmable Functions

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

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

Unit Options

Remote Temperature and Humidity Sensors

Temperature and humidity sensors may be ordered for remote wall mounting. Sensors are provided in a wall mount plastic case for remote sensing of temperature and humidity. 25 feet of shielded cable is provided for field wiring.

Smoke Detector

A unit mounted smoke detector will shut down the unit if smoke is sensed. The unit mounted microprocessor control 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.

Unit Mounted Disconnect

A unit mounted nonautomatic disconnect switch is installed in the high voltage electrical section. The operating mechanism (handle) protrudes through the decorative exterior panel. The operating mechanism prevents access to the high voltage electrical components by not allowing entry until switched to the “OFF” position.

Condensate Pump

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

Floorstands

Floorstands are adjustable ± 2 inches and may be ordered with factory installed turning vane or with seismic construction.

High Efficiency Filters

Standard filters are rated at MERV 8 based on ASHRAE 52.2. Higher efficiency filters are available (consult factory regarding efficiency and unit static pressure).

Steam Generator Humidifier with Modulating Control

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

Hot Water Reheat

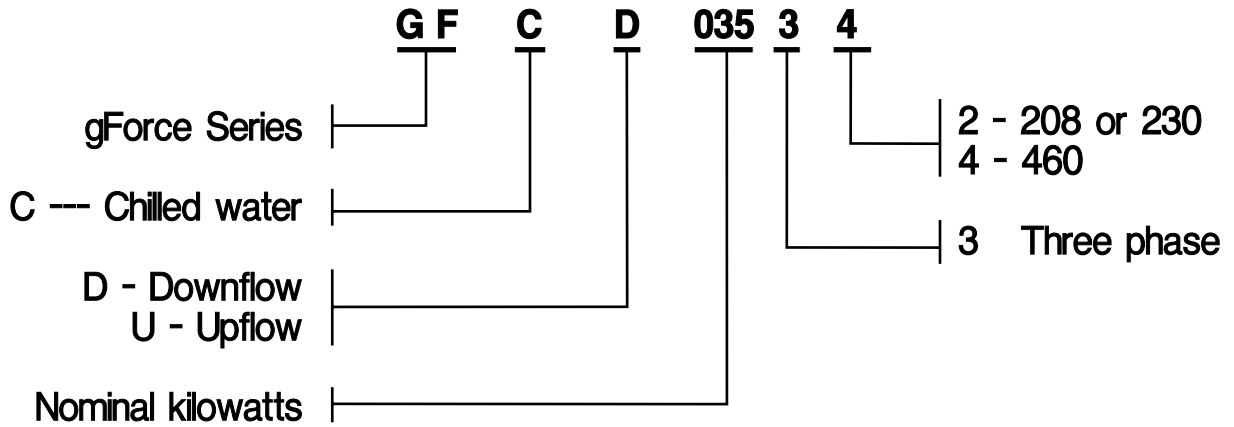
Where hot water is available, a water coil for reheat may be added. The coil is designed for 150 psi maximum water pressure and includes a 2-way valve (a 3-way is also available). Units with the hot water reheat do not include electric reheat. Supplemental reheat may be ordered.

2-Way Chilled Water Valve

A 2-way chilled water valve is available to replace the standard 3-way valve where required.

Upflow Plenum

Upflow plenums are fully insulated and have front discharge air grille. Side grilles for both or one side are available. Plenums are available in various heights and are painted to match the unit color.



CHILLED WATER PERFORMANCE DATA

All capacity data is based on 45° F entering water temperature.

CHILLED WATER: Performance data at STANDARD airflow, 7 - 46 nominal kilowatts

All capacity data is based on 45° F entering water temperature.

MODEL NUMBER *GFCD/U007* *GFCD/U011* *GFCD/U014* *GFCD/U018* *GFCD/U025* *GFCD/U032* *GFCD/U039* *GFCD/U046*

CAPACITY* in Btu/hr - gross

80° F DB/67° F WB (50% RH)

Total	37,500	51,500	71,500	84,900	108,400	137,200	170,800	201,200
Sensible	25,000	35,300	48,200	58,200	81,100	97,300	115,000	131,000
Flowrate in GPM	8.0	11.0	15.0	18.0	22	26	35	45
Pressure drop in PSI	2.1	3.6	7.3	10.3	8.5	13.5	7.2	10.2

75° F DB/62.5° F WB (50% RH)

Total	26,900	36,700	51,200	60,600	83,000	104,900	127,400	147,000
Sensible	21,200	29,900	40,900	49,400	72,000	86,200	99,900	111,800
Flowrate - GPM	6.0	8.0	11.0	13.0	20	24	30	35
Pressure drop - PSI	1.3	2.3	4.2	5.6	7.1	11.5	5.4	6.5

75° F DB/61° F WB (45% RH)

Total	25,000	34,400	47,700	56,700	76,600	96,400	115,400	133,000
Sensible	21,900	31,300	42,400	51,300	73,600	88,500	101,900	113,800
Flowrate - GPM	6.0	8.0	11.0	13.0	18	22	27	32
Pressure drop - PSI	1.3	2.3	4.2	5.6	5.7	9.3	4.4	5.4

72° F DB/60° F WB (50% RH)

Total	21,900	29,100	41,600	49,800	67,400	85,800	102,900	118,800
Sensible	19,000	26,400	36,700	44,500	64,000	77,500	89,200	99,800
Flow rate - GPM	8.0	6.0	9.0	11.0	16	20	24	28
Pressure drop - PSI	2.1	2.3	2.8	3.9	4.5	7.4	3.4	4.1

72° F DB/ 58.6° F WB (45% RH)

Total	20,700	28,000	39,500	48,500	64,800	81,300	95,400	108,600
Sensible	19,800	27,500	38,100	46,200	64,800	79,900	91,700	102,100
Flow rate - GPM	5.0	6.0	9.0	11.0	15	19	22	25
Pressure drop - PSI	0.9	1.3	2.8	3.9	3.9	6.4	2.8	3.1

FAN SECTION

Airflow - CFM	800	1,200	1,600	2,000	3,250	3,500	3,750	4,000
Number of fans	1	1	1	1	1	1	1	1
Standard fan - diameter (mm)	450	450	450	450	500	500	500	500
Fan motor - kW/HP	1.0/1.4	1.0/1.4	1.0/1.4	1.0/1.4	2.8/3.7	2.8/3.7	2.8/3.7	2.8/3.7
External static pressure (E.S.P.) - in. of W.G.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Maximum E.S.P.	1.5	1.5	1.5	1.3	1.5	1.5	1.5	1.3
Next size fan - diameter (mm)	N/A	N/A	N/A	500	560	560	560	560
Fan motor - kW/HP				2.8/3.7	3.0/4.0	3.0/4.0	3.0/4.0	5.0/6.7
Maximum E.S.P.				1.5	1.5	1.5	1.5	1.5

* Capacity data is based on 45° F entering water temperature.

CHILLED WATER: Performance data at STANDARD airflow, 53 - 211 nominal kilowatts

All capacity data is based on 45° F entering water temperature.

MODEL NUMBER *GFCU/U053 GFCU/U063 GFCU/U077 GFCU/U091 GFCU/U106 GFCU/U141 GFCU/U158 GFCU/U176 GFCU/D211*

CAPACITY* in Btu/hr - gross

80° F DB/67° F WB (50% RH)

Total	259,700	337,000	412,100	450,400	553,300	641,620	773,486	874,038	1,043,700
Sensible	185,000	231,600	276,300	299,300	368,000	448,432	524,738	586,518	664,700
Flow rate - GPM	50	60	72	92	100	125	140	150	225
Pressure drop - PSI	11.9	16.6	25.3	21.2	25.5	21.1	27.3	32.8	39.8

75° F DB/62.5° F WB (50% RH)

Total	196,900	250,100	305,700	337,200	417,800	471,296	567,968	642,026	748,500
Sensible	163,100	201,000	239,000	260,000	321,400	387,776	452,124	504,740	557,400
Flow rate - GPM	45	50	60	80	90	100	110	120	162
Pressure drop - PSI	9.8	11.9	18.5	16.5	21.1	14.1	17.8	22.0	22.5

75° F DB/61° F WB (45% RH)

Total	181,600	229,000	278,500	305,800	379,800	436,826	524,228	586,440	668,800
Sensible	167,500	206,000	244,300	265,100	328,100	399,908	465,740	517,074	561,900
Flow rate - GPM	42	46	55	73	83	95	105	110	144
Pressure drop - PSI	8.6	10.2	15.7	14.0	18.1	12.7	16.3	18.7	18.4

72° F DB/60° F WB (50% RH)

Total	162,000	205,100	250,000	274,800	342,200	388,432	462,628	524,876	601,800
Sensible	146,800	180,900	214,800	233,300	289,100	349,744	404,480	453,884	495,100
Flow rate - GPM	38	42	50	66	76	85	90	100	130
Pressure drop - PSI	7.1	8.5	13.0	11.5	15.3	10.1	12.0	15.4	15.3

72° F DB/58.6° F WB (45% RH)

Total	151,200	190,800	230,700	251,900	314,500	361,330	434,104	491,600	546,700
Sensible	149,000	185,000	220,000	238,800	296,400	355,396	418,220	469,150	504,600
Flow rate - GPM	34	38	45	59	69	75	85	95	118
Pressure drop - PSI	5.6	6.8	10.4	9.1	12.6	7.7	10.6	13.8	12.8

FAN SECTION

Airflow - CFM	7,000	8,000	9,000	9,500	11,700	16,000	17,500	19,000	21,000
Number of fans	2	2	2	2	3	3	3	3	3
Standard fan - diameter (mm)	500	500	500	560	500	560	560	560	560
Fan motor - kW/HP	2.8/3.7	2.8/3.7	2.8/3.7	3.0/4.0	2.8/3.7	3.0/4.0	5.0/6.7	5.0/6.7	5.0/6.7
External static pressure (E.S.P.) - in. of W.G.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Maximum E.S.P.	1.5	1.3	0.5	0.8	1.2	0.9	1.5	1.5	0.5
Next size fan - diameter (mm)	560	560	560	560	560	560	N/A	N/A	N/A
Fan motor - kW/HP	5.0/6.7	5.0/6.7	5.0/6.7	5.0/6.7	5.0/6.7	5.0/6.7			
Maximum E.S.P.	1.5	1.5	1.5	1.5	1.5	1.5			

* Capacity data is based on 45° F entering water temperature.

CHILLED WATER: Performance data at STANDARD airflow, 53 - 211 nominal kilowatts

MODEL NUMBER

GFCU/U053 GFCU/U063 GFCU/U077 GFCU/U091 GFCU/U106 GFCU/U141 GFCU/U158 GFCU/U176 GFCU/211

COIL DATA

Face area in sq. ft.	24.4	24.4	24.4	24.4	30.9	42.8	42.8	42.8	58.3
Rows of coil	3	4	5	6	6	4	5	6	6
Face velocity in FPM	287	328	369	389	379	374	409	444	360

CONTROL VALVE

(Modulating control designed at 400 psi)

Valve body	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY
Valve CV	19	46	46	46	46	46	46	46	83
Valve size - inches	1-1/2	2	2	2	2	2	2	2	2

CONNECTION SIZES (Inches)

Supply - O.D. copper	1-5/8	2-1/8	2-1/8	2-1/8	2-1/8	2-5/8	2-5/8	2-5/8	3-1/8
Return - O.D. copper	1-5/8	2-1/8	2-1/8	2-1/8	2-1/8	2-5/8	2-5/8	2-5/8	3-1/8
Condensate drain	3/4	3/4	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	1/4	1/4

REHEAT SECTION

Type	Electric 3-stage	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Capacity	kW	22.5	22.5	22.5	22.5	22.5	30	30	30	30
	Btu/hr	76,835	76,835	76,835	76,835	76,835	102,360	102,360	102,360	102,360
Type	Steam	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Capacity	Btu/hr									
	<i>Downflow</i>	195,000	208,000	217,000	222,000	276,000	278,000	286,000	298,000	300,200
	<i>Upflow</i>	134,000	47,000	159,000	164,000	202,000	207,000	216,000	223,000	N/A
Type	Hot water	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Capacity	Btu/hr									
	<i>Downflow</i>	121,500	128,600	135,000	137,900	164,600	178,700	185,200	191,400	200,900
	<i>Upflow</i>	87,200	93,400	99,000	101,800	122,800	130,800	136,600	142,100	N/A
	GPM	8	8	8	8	10	10	10	10	10

HUMIDIFIER SECTION

Type	Steam generator	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Capacity	kW	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
	lbs/hr	10-30*	10-30*	10-30*	10-30*	10-30*	10-30*	10-30*	10-30*	10-30*

*(adjustable)

CHILLED WATER: Performance data at STANDARD airflow, 7 - 46 nominal kilowatts

MODEL NUMBER *GFCD/U007* *GFCD/U011* *GFCD/U014* *GFCD/U018* *GFCD/U025* *GFCD/U032* *GFCD/U039* *GFCD/U046*

FILTER SECTION

Quantity/size	Downflow	1-25x20x4	1-25x20x4	1-25x20x4	1-25x20x4	1-20x25x4	1-20x25x4	1-20x25x4	1-20x25x4
		1-25x16x4	1-25x16x4	1-25x16x4	1-25x16x4	1-20x20x4	1-20x20x4	1-20x20x4	1-20x20x4
						1-16x25x4	1-16x25x4	1-16x25x4	1-16x25x4
						1-16x20x4	1-16x20x4	1-16x20x4	1-16x20x4
	Upflow	1-20x20x4	1-20x20x4	1-20x20x4	1-20x20x4	3-25x16x4	3-25x16x4	3-25x16x4	3-25x16x4
		1-20x16x4	1-20x16x4	1-20x16x4	1-20x16x4				
Efficiency - MERV		8	8	8	8	8	8	8	8

(Note: Efficiency based on ASHRAE Std. 52.2)

ELECTRICAL SECTION

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

208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	36/46/45	36/46/45	50/62/70	50/62/70	50/62/70	50/62/70
460/3/60	FLA/MCA/MOP	9.1/11/15	9.1/11/15	17/21/25	17/21/25	23/28/30	23/28/30	23/28/30	23/28/30

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

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	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	11/14/15

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

208-230/3/60	FLA/MCA/MOP	20/25/30	20/25/30	36/46/45	36/46/50	50/62/70	50/62/70	50/62/70	50/62/70
460/3/60	FLA/MCA/MOP	9.1/11/15	9.1/11/15	17/21/25	17/21/25	23/28/30	23/28/30	23/28/30	23/28/30

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

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	8.2/10/15	8.2/10/15	8.2/10/15
460/3/60	FLA/MCA/MOP	1.6/2/15	1.6/2/15	1.6/2/15	1.6/2/15	3.7/4.6/15	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	450/1.0/1.4	450/1.0/1.4	450/1.0/1.4	500/2.8/3.7	500/2.8/3.7	500/2.8/3.7	500/2.8/3.7
Number of motors		1	1	1	1	1	1	1	1
208-230/3/60	FLA	3.1	3.1	3.1	3.1	8.2	8.2	8.2	8.2
460/3/60	FLA	1.6	1.6	1.6	1.6	3.7	3.7	3.7	3.7

FLA - Full load amps

MCA - Minimum circuit ampacity (wire sizing amps)

MOP - Maximum overcurrent protection device amp

CHILLED WATER: Performance data at STANDARD airflow, 53 - 211 nominal kilowatts

MODEL NUMBER *GFCU/U053* *GFCU/U063* *GFCU/U077* *GFCU/U091* *GFCU/U106* *GFCU/U141* *GFCU/U158* *GFCU/U176* *GFCU/211*

FILTER SECTION

Quantity/size	Downflow	4-20x20x4	4-20x20x4	4-20x20x4	4-20x20x4	1-20x25x4	6-20x20x4	6-20x20x4	6-20x20x4	10-20x16x4
		4-20x16x4	4-20x16x4	4-20x16x4	4-20x16x4	4-20x20x4	6-16x20x4	6-16x20x4	6-16x20x4	10-20x25x4
	Upflow	4-25x20x4	4-25x20x4	4-25x20x4	4-25x20x4	1-16x25x4 4-16x20x4	6-25X20X4	6-25X20X4	6-25X20X4	N/A
Efficiency - MERV		8	8	8	8	8	8	8	8	8

(Note: Efficiency based on ASHRAE Std. 52.2)

ELECTRICAL SECTION

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

208-230/3/60	FLA/MCA/MOP	79/97/100	79/97/100	79/97/100	80/98/100	87/105/110	110/133/150	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	36/44/45	36/44/45	36/44/45	37/45/50	39/47/50	51/61/70	58/69/70	58/69/70	58/69/70

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

208-230/3/60	FLA/MCA/MOP	45/54/60	45/54/60	45/54/60	46/55/60	53/62/70	55/64/70	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	20/24/25	20/24/25	20/24/25	21/26/30	24/28/30	26/30/35	33/38/40	33/38/40	33/38/40

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

208-230/3/60	FLA/MCA/MOP	79/97/100	79/97/100	79/97/100	80/98/100	87/105/110	110/133/150	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	36/44/45	36/44/45	37/45/50	37/45/50	39/47/50	51/61/70	58/69/70	58/69/70	58/69/70

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

208-230/3/60	FLA/MCA/MOP	16/19/25	16/19/25	16/19/25	18/20/25	25/27/30	25/27/30	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	7.4/8.3/15	7.4/8.3/15	7.4/8.3/15	8.6/9.7/15	11/12/15	11/12/15	13/14/15	20/22/25	20/22/25

*** STANDARD FAN**

FLA - Full load amps

Diameter (mm)/kW/HP		500/2.8/3.7	500/2.8/3.7	500/2.8/3.7	560/3.0/4.0	500/2.8/3.7	560/3.0/4.0	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7
Number of motors		2	2	2	2	3	3	3	3	3
208-230/3/60	FLA	8.2	8.2	8.2	8.8	8.2	N/A	N/A	N/A	N/A
460/3/60	FLA	3.7	3.7	3.7	4.3	3.7	4.3	6.7	6.7	6.7

FLA - Full load amps

MCA - Minimum circuit ampacity (wire sizing amps)

MOP - Maximum overcurrent protection device amps

CHILLED WATER: Performance data at STANDARD airflow, 53 - 211 nominal kilowatts

MODEL NUMBER

GFCU/U053 GFCU/U063 GFCU/U077 GFCU/U091 GFCU/U106 GFCU/U141 GFCU/U158 GFCU/U176 GFCU211

ELECTRICAL SECTION

Electrical data based on STANDARD UNIT: electric reheat-YES, steam generator humidifier-YES and NEXT SIZE MOTOR.*

208-230/3/60	FLA/MCA/MOP	79/97/100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	37/45/50	42/50/60	42/50/60	42/50/60	48/57/60	58/69/70	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	45/54/60	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	21/26/30	26/31/35	26/31/35	26/31/35	33/38/40	33/38/40	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	79/97/100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	37/45/50	42/50/60	42/50/60	42/50/60	48/57/60	58/69/70	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	16/19/25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	8.6/9.7/15	13/15/20	13/15/20	13/15/20	20/22/25	20/22/25	N/A	N/A	N/A

* NEXT SIZE FAN

FLA - Full Load Amps

Diameter (mm)/kW/HP	560/3.0/4.0	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7	N/A	N/A	N/A
Number of motors	2	2	2	2	3	3			
208-230/3/60 FLA	8.8	N/A	N/A	N/A	N/A	N/A			
460/3/60 FLA	4.3	6.7	6.7	6.7	6.7	6.7			

FLA - Full load amps

MCA - Minimum circuit ampacity (wire sizing amps)

MOP - Maximum over current protection device ampacity

CHILLED WATER: Performance data at OPTIONAL airflow - Option 1, 53 - 211 nominal kilowatts

All capacity data is based on 45° F entering water temperature.

MODEL NUMBER *GFCU/U053 GFCU/U063 GFCU/U077 GFCU/U091 GFCU/U106 GFCU/U141 GFCU/U158 GFCU/U176 GFCU/211*

CAPACITY* in Btu/hr - gross

80° F DB/67° F WB (50% RH)

Total	276,700	347,900	424,800	477,500	592,600	671,450	800,664	899,718	1,087,700
Sensible	202,100	241,500	287,100	321,900	401,400	476,864	547,138	608,502	693,700
Flow rate in GPM	50	60	72	92	100	125	140	150	236
Pressure drop in PSI	11.9	16.6	25.3	21.2	25.5	21.1	27.3	32.8	43.3

75° F DB/62.5° F WB (50% RH)

Total	210,800	258,500	315,400	358,000	448,900	493,708	585,958	660,968	777,900
Sensible	178,700	210,000	248,800	280,600	352,100	413,008	470,948	524,340	581,000
Flow rate in GPM	45	50	60	80	90	100	110	120	168
Pressure drop in PSI	9.8	11.9	18.5	16.5	21.1	14.1	17.8	22.0	23.9

75° F DB/61° F WB (45% RH)

Total	195,700	237,400	288,000	325,800	410,000	459,772	534,552	605,052	696,100
Sensible	183,700	215,400	254,700	286,900	360,800	426,496	470,982	537,912	586,400
Flow rate in GPM	42	46	55	73	83	95	105	110	150
Pressure drop in PSI	8.6	10.2	15.7	14.0	18.1	12.7	16.3	18.7	19.8

72° F DB/60° F WB (50% RH)

Total	173,900	212,200	258,000	291,800	368,000	407,644	477,358	540,666	626,800
Sensible	160,700	189,000	223,700	252,000	317,200	372,406	422,300	471,682	516,800
Flow rate in GPM	38	42	50	66	76	85	90	100	136
Pressure drop in PSI	7.1	8.5	13.0	11.5	15.3	10.1	12.0	15.4	16.6

72° F DB/58.6° F WB (45% RH)

Total	163,500	198,000	238,900	269,100	340,700	381,028	449,530	508,138	569,400
Sensible	162,400	193,100	229,100	258,200	325,800	377,218	435,580	487,846	526,700
Flow rate in GPM	34	38	45	59	69	75	85	95	123
Pressure drop in PSI	5.6	6.8	10.4	9.1	12.6	7.7	10.6	13.8	13.8

FAN SECTION

Airflow - CFM	8,000	8,500	9,500	10,000	13,200	17,000	18,500	20,000	22,000
Number of fans	2	2	2	2	3	3	3	3	3
Standard fan - diameter (mm)	500	500	560	560	500	560	560	560	560
Fan motor - kW/HP	2.8/3.7	2.8/3.7	3.0/4.0	3.0/4.0	2.8/3.7	3.0/4.0	5.0/6.7	5.0/6.7	5.0/6.7
External static pressure (E.S.P.) - in. of W.G.	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Maximum E.S.P.	1.4	0.9	0.9	0.5	0.6	0.5	1.5	1.5	0.4
Next size fan - diameter (mm)	560	560	560	560	560	560	N/A	N/A	N/A
Fan motor - kW/HP	3.0/4.0	5.0/6.7	5.0/6.7	5.0/6.7	5.0/6.7	5.0/6.7			
Maximum E.S.P.	1.5	1.5	1.5	1.5	1.5	1.5			

* Capacity data is based on 45° F entering water temperature.

CHILLED WATER: Performance data at OPTIONAL AIRFLOW - Option 1, 53 - 211 nominal kilowatts

MODEL NUMBER *GFCD/U053 GFCD/U063 GFCD/U077 GFCD/U091 GFCD/U106 GFCD/U141 GFCD/U158 GFCD/U176 GFCD211*

COIL DATA

Face area - sq. ft.	24.4	24.4	24.4	24.4	30.9	42.8	42.8	42.8	58.3
Rows of coil	3	4	5	6	6	4	5	6	6
Face Velocity - fpm	328	348	389	410	427	397	432	467	377

CONTROL VALVE

(Modulating Control designed at 400 psi)

Valve body	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY
Valve CV	19	46	46	46	46	46	46	46	83
Valve - inches	1-1/2	2	2	2	2	2	2	2	2

CONNECTION SIZES (Inches)

Supply - O.D. Copper	1-5/8	2-1/8	2-1/8	2-1/8	2-1/8	2-5/8	2-5/8	2-5/8	3-1/8
Return - O.D. Copper	1-5/8	2-1/8	2-1/8	2-1/8	2-1/8	2-5/8	2-5/8	2-5/8	3-1/8
Condensate drain	3/4	3/4	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	1/4	1/4

REHEAT SECTION

Type	Electric 3-stage		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Capacity	kW		22.5	22.5	22.5	22.5	22.5	30	30	30
	Btu/hr		76,835	76,835	76,835	76,835	76,835	102,360	102,360	102,360
Type	Steam		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Capacity	Btu/hr	<i>Downflow</i>	208,000	214,000	222,000	226,000	285,000	284,000	294,000	302,000
		<i>Upflow</i>	147,000	153,000	164,000	169,000	217,000	213,000	223,000	230,000
										N/A
Type	Hot water		Optional	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Capacity	Btu/hr	<i>Downflow</i>	128,600	131,900	137,900	140,800	172,100	183,200	189,400	195,100
		<i>Upflow</i>	93,400	96,400	101,800	104,200	129,700	134,800	140,400	145,600
	GPM		8	8	8	8	10	10	10	10
										N/A

HUMIDIFIER SECTION

Type	Steam generator		Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Capacity	kW		3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
	lbs/hr		10-30*	10-30*	10-30*	10-30*	10-30*	10-30*	10-30*	10-30*
	*(adjustable)									

CHILLED WATER: Performance data at OPTIONAL AIRFLOW - Option 1, 53 - 211 nominal kilowatts

MODEL NUMBER *GFCU/U053 GFCU/U063 GFCU/U077 GFCU/U091 GFCU/U106 GFCU/U141 GFCU/U158 GFCU/U176 GFCU/U211*

FILTER SECTION

Quantity/size	Downflow	4-20x20x4	4-20x20x4	4-20x20x4	4-20x20x4	1-20x25x4	6-20x20x4	6-20x20x4	6-20x20x4	10-20x16x4
		4-20x16x4	4-20x16x4	4-20x16x4	4-20x16x4	4-20x20x4	6-16x20x4	6-16x20x4	6-16x20x4	10-25x16x4
	Uplow	4-25x20x4	4-25x20x4	4-25x20x4	4-25x20x4	1-16x25x4 4-16x20x4	6-25X20X4	6-25X20X4	6-25X20X4	
Efficiency - MERV		8	8	8	8	8	8	8	8	8

(Note: Efficiency based on ASHRAE Std. 52.2)

ELECTRICAL SECTION

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

208-230/3/60	FLA/MCA/MOP	79/97/100	79/97/100	80/98/100	80/98/100	79/97/100	110/133/150	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	36/44/45	36/44/45	37/45/50	37/45/50	39/47/50	51/61/70	58/69/70	58/69/70	58/69/70

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

208-230/3/60	FLA/MCA/MOP	45/54/60	45/54/60	46/55/60	46/55/60	53/62/70	55/64/70	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	20/24/25	20/24/25	21/26/30	21/26/30	24/28/30	26/30/35	33/38/40	33/38/40	33/38/40

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

208-230/3/60	FLA/MCA/MOP	79/97/100	79/97/100	80/98/100	80/98/100	87/105/110	110/133/150	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	36/44/45	36/44/45	37/45/50	37/45/50	39/47/50	51/61/70	58/69/70	58/69/70	58/69/70

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

208-230/3/60	FLA/MCA/MOP	16/19/25	16/19/25	18/20/25	18/20/25	25/27/30	25/27/30	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	7.4/8.3/15	7.4/8.3/15	8.6/9.7/15	8.6/9.7/15	11/12/15	13/14/15	20/22/25	20/22/25	20/22/25

*** STANDARD FAN**

FLA - Full load amps

Diameter (mm)/kW/HP		500/2.8/3.7	500/2.8/3.7	560/3.0/4.0	560/3.0/4.0	500/2.8/3.7	560/3.0/4.0	560/5.0/6.7	560/5.0/6.7	560/5/6.7
Number of motors		2	2	2	2	3	3	3	3	3
208-230/3/60	FLA	8.2	8.2	8.8	8.8	8.2	8.8	N/A	N/A	N/A
460/3/60	FLA	3.7	3.7	4.3	4.3	3.7	4.3	6.7	6.7	6.7

FLA - Full load amps

MCA - Minimum circuit ampacity (wire sizing amps)

MOP - Maximum overcurrent protection device amps

CHILLED WATER: Performance data at OPTIONAL AIRFLOW - Option 1, 7 - 46 nominal kilowatts

MODEL NUMBER

GFCU/U007 GFCU/U011 GFCU/U014 GFCU/U018 GFCU/U025 GFCU/U032 GFCU/U039 GFCU/U046

ELECTRICAL SECTION

Electric data based on: electric reheat - YES, steam generator humidifier - YES, and NEXT SIZE MOTOR.*

208-230/3/60	FLA/MCA/MOP	N/A	N/A	42/52/60	42/52/60	51/63/70	N/A	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	26/32/35	26/32/35

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

208-230/3/60	FLA/MCA/MOP	N/A	N/A	25/31/35	25/31/35	25/31/35	N/A	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	14/18/20	14/18/20

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

208-230/3/60	FLA/MCA/MOP	N/A	N/A	42/52/60	42/52/60	51/63/70	N/A	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	26/32/35	26/32/35

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

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	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	6.7/8.4/15	6.7/8.4/15

* NEXT SIZE FAN

FLA - Full Load Amps

Diameter (mm)/kW/HP	N/A	N/A	500/2.8/3.8	500/2.8/3.7	560/3.0/4.0	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7
Number of motors			1	1	1	1	1	1
208-230/3/60	FLA		8.2	8.2	8.8	N/A	N/A	N/A
460/3/60	FLA		3.7	3.7	4.3	6.7	6.7	6.7

FLA - Full load amps

MCA - Minimum circuit ampacity (wiring sizing amps)

MOP - Maximum overcurrent protection device amps

MODEL NUMBER

GFCU/U053 GFCU/U063 GFCU/U077 GFCU/U091 GFCU/U106 GFCU/U141 GFCU/U158 GFCU/U176 GFCU/211

ELECTRICAL SECTION

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR.*

208-230/3/60	FLA/MCA/MOP	80/98/100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	37/45/50	42/50/60	42/50/60	42/50/60	48/57/60	58/69/70	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	46/55/60	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	21/26/30	26/31/35	26/31/35	26/31/35	33/38/40	33/38/40	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	80/98/100	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	37/45/50	42/50/60	42/50/60	42/50/60	48/57/60	58/69/70	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	18/20/25	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	8.6/9.7/15	13/15/20	13/15/20	13/15/20	20/22/25	20/22/25	N/A	N/A	N/A

※ NEXT SIZE FAN

FLA - Full Load Amps

Diameter (mm)/kW/HP		560/3.0/4.0	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7	N/A	N/A	N/A
Number of motors		2	2	2	2	3	3			
208-230/3/60	FLA	8.8	N/A	N/A	N/A	N/A	N/A			
460/3/60	FLA	4.3	6.7	6.7	6.7	6.7	6.7			

FLA - Full load amps

MCA - Minimum circuit ampacity (wire sizing amps)

MOP - Maximum overcurrent protection device amps

All capacity data is based on 45° F entering water temperature.

<i>MODEL NUMBER</i>	<i>GFCD/U025</i>	<i>GFCD/U032</i>	<i>GFCD/U039</i>	<i>GFCD/U046</i>	<i>GFCD/U053</i>	<i>GFCD/U063</i>
CAPACITY* in Btu/hr - gross						
80° F DB/67° F WB (50% RH)						
Total	121,200	154,100	199,100	255,300	291,700	368,000
Sensible	96,400	115,300	140,800	176,300	218,200	260,600
Flow rate - GPM	22	26	35	45	50	60
Pressure drop - PSI	8.5	13.5	7.2	10.2	11.9	16.6
75° F DB/62.5° F WB (50% RH)						
Total	94,100	119,200	149,400	177,400	233,300	274,000
Sensible	85,900	102,900	123,400	142,300	193,400	227,200
Flow rate - GPM	20	24	30	35	45	50
Pressure drop - PSI	7.1	11.5	5.4	6.5	9.8	11.9
75° F DB/61° F WB (45% RH)						
Total	88,200	110,900	137,000	162,500	208,500	253,000
Sensible	87,100	105,800	126,600	146,200	198,700	233,400
Flow rate - GPM	18	22	27	32	42	46
Pressure drop - PSI	5.7	9.3	4.4	5.4	8.6	10.2
72° F DB/60° F WB (50% RH)						
Total	76,800	98,000	120,900	143,400	184,700	225,400
Sensible	75,400	92,300	110,200	127,300	173,600	204,400
Flow rate - GPM	16	20	24	28	38	42
Pressure drop - PSI	4.5	7.4	3.4	4.1	7.1	8.5
72° F DB/ 58.6° F WB (45% RH)						
Total	74,700	94,300	114,100	133,500	174,700	211,600
Sensible	74,700	94,200	112,900	130,400	174,300	208,300
Flow rate - GPM	15	19	22	25	34	38
Pressure drop - PSI	3.9	6.4	2.8	3.1	5.6	6.8
FAN SECTION						
Airflow - CFM	4,250	4,500	5,000	5,500	9,000	9,500
Number of fans	1	1	1	1	2	2
Standard fan - diameter (mm)	500	500	560	560	500	500
Fan motor - kW/HP	2.8/3.7	2.8/3.7	3.0/4.0	5.0/6.7	2.8/3.7	2.8/3.7
External static pressure (E.S.P.) - in. of W.G.	0.5	0.5	0.5	0.5	0.5	0.5
Maximum E.S.P.	1.1	0.8	0.7	1.5	0.6	1.0
Next size fan - diameter (mm)	N/A	N/A	N/A	N/A	560	560
Fan motor - kW/HP	5.0/6.7	5.0/6.7	5.0/6.7		5.0/6.7	5.0/6.7
Maximum E.S.P.	1.5	1.5	1.5		1.5	1.5

* Capacity data is based on 45° F entering water temperature

All capacity data is based on 45° F entering water temperature.

MODEL NUMBER *GFCD/U077 GFCD/U091 GFCD/U106 GFCD/U141 GFCD/U158 GFCD/U176 GFCD/211*

CAPACITY* in Btu/hr - gross

80° F DB/67° F WB (50% RH)							
Total	437,000	495,000	634,400	680,308	834,780	924,134	1,128,000
Sensible	297,800	337,100	439,300	485,870	577,854	629,958	721,100
Flow rate - GPM	72	92	100	125	140	150	243
Pressure drop - PSI	25.3	21.2	25.5	21.1	27.3	32.8	45.7
75° F DB/62.5° F WB (50% RH)							
Total	324,700	371,600	482,400	500,820	610,984	679,112	807,100
Sensible	258,400	294,500	387,200	421,182	498,106	543,526	604,500
Flow rate - GPM	60	80	90	100	110	120	174
Pressure drop - PSI	18.5	16.5	21.1	14.4	17.8	22.0	25.4
75° F DB/61° F WB (45% RH)							
Total	297,200	339,100	443,300	467,104	567,772	623,196	723,000
Sensible	264,900	301,700	398,100	435,070	514,798	558,286	610,800
Flow rate - GPM	55	73	83	95	105	110	156
Pressure drop - PSI	15.7	14.0	18.1	12.7	16.3	18.7	21.1
72° F DB/60° F WB (50% RH)							
Total	265,800	303,000	396,200	426,446	498,320	555,850	649,400
Sensible	232,400	264,400	349,200	386,780	446,672	489,066	537,500
Flow rate - GPM	50	66	76	85	90	100	140
Pressure drop - PSI	13.0	11.5	15.3	10.1	12.0	15.4	17.4
72° F DB/58.6° F WB (45% RH)							
Total	246,700	280,600	369,600	387,314	471,582	524,108	592,000
Sensible	238,000	271,200	358,700	384,122	460,420	505,972	548,900
Flow rate - GPM	45	59	69	75	85	95	128
Pressure drop - PSI	10.4	9.1	12.6	7.7	10.6	13.8	14.9

FAN SECTION

Airflow - CFM	10,000	10,500	15,000	18,000	20,000	21,000	23,000
Number of fans	2	2	3	3	3	3	3
Standard fan - diameter (mm)	560	560	560	560	560	560	560
Fan motor - kW/HP	3.0/4.0	5.0/6.7	3.0/4.0	5.0/6.7	5.0/6.7	5.0/6.7	5.0/6.7
External static pressure (E.S.P.) - in. of W.G.	0.5	0.5	0.5	0.5	0.5	0.5	0.3
Maximum E.S.P.	0.5	1.5	0.5	1.5	1.5	1.1	0.3
Next size fan - diameter (mm)	560	N/A	560	N/A	N/A	N/A	N/A
Fan motor - kW/HP	5.0/6.7		5.0/6.7				
Maximum E.S.P.	1.5		1.5				

* Capacity data is based on 45° F entering water temperature

CHILLED WATER: Performance data at OPTIONAL AIRFLOW - Option 2, 25 - 63 nominal kilowatts

MODEL NUMBER *GFCU/U025* *GFCU/U032* *GFCU/U039* *GFCU/U046* *GFCU/U053* *GFCU/U063*

COIL DATA

Face area - sq. ft.	12.2	12.2	12.2	12.2	24.4	24.4
Rows of coil	3	4	5	6	3	4
Face velocity - FPM	348	369	410	461	369	389

CONTROL VALVE

(Modulating Control designed at 400 psi)

Valve body	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY
Valve CV	10	10	10	19	19	46
Valve size - inches	1	1	1-1/4	1-1/2	1-1/2	2

CONNECTION SIZES (Inches)

Supply - O.D. Copper	1-1/8	1-1/8	1-5/8	1-5/8	1-5/8	2-1/8
Return - O.D. Copper	1-1/8	1-1/8	1-5/8	1-5/8	1-5/8	2-1/8
Condensate drain	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

REHEAT SECTION

Type	Electric 3-Stage	Standard	Standard	Standard	Standard	Standard	Standard
Capacity	in kW	15	15	15	15	22.5	22.5
	in Btu/hr	51,225	51,225	51,225	51,225	76,835	76,835
Type	Steam	Optional	Optional	Optional	Optional	Optional	Optional
Capacity	in Btu/hr						
	<i>Downflow</i>	101,000	103,000	107,000	111,000	217,000	222,000
	<i>Upflow</i>	74,000	77,000	80,000	85,000	159,000	164,000
Type	Hot water	Optional	Optional	Optional	Optional	Optional	Optional
Capacity	in Btu/hr						
	<i>Downflow</i>	61,300	62,600	69,000	71,600	135,000	137,900
	<i>Upflow</i>	45,200	46,600	50,900	53,400	99,000	101,800
	GPM	5	5	6	6	8	8

HUMIDIFIER SECTION

Type	Steam generator	Standard	Standard	Standard	Standard	Standard	Standard
Capacity	kW	3.4	3.4	3.4	3.4	3.4-10.2	3.4-10.2
	lbs/hr	10	10	10	10	10-30*	10-30*

*(adjustable)

CHILLED WATER: Performance data at OPTIONAL AIRFLOW - Option 2, 77 - 211 nominal kilowatts

MODEL NUMBER *GFCU/U077 GFCU/U091 GFCU/U106 GFCU/U141 GFCU/U158 GFCU/U176 GFCU/211*

COIL DATA

Face area - sq. ft.	24.4	24.4	30.9	42.8	42.8	42.8	58.3
Rows of coil	5	6	6	4	5	6	6
Face velocity - FPM	410	485	485	421	467	491	394

CONTROL VALVE

(Modulating Control designed at 400 psi)

Valve body	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY	3-WAY
Valve CV	46	46	46	46	46	46	83
Valve size - inches	2	2	2	2	2	2	2

CONNECTION SIZES (Inches)

Supply - O.D. Copper	2-1/8	2-1/8	2-1/8	2-5/8	2-5/8	2-5/8	3-1/8
Return - O.D. Copper	2-1/8	2-1/8	2-1/8	2-5/8	2-5/8	2-5/8	3-1/8
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

REHEAT SECTION

Type	Electric 3-Stage	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Capacity	kW	22.5	22.5	22.5	30	30	30	30
	Btu/hr	76,835	76,835	76,835	102,360	102,360	102,360	102,360
Type	Steam	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Capacity	Btu/hr	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>
		<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>
		226,000	229,000	302,000	290,000	302,000	309,000	344,400
		169,000	173,000	230,000	219,000	230,000	236,000	N/A
Type	Hot water	Optional	Optional	Optional	Optional	Optional	Optional	Optional
Capacity	in Btu/hr	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>	<i>Downflow</i>
		<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>	<i>Upflow</i>
		140,800	143,500	180,100	187,300	195,100	198,800	207,600
		104,200	106,700	137,300	138,600	145,600	149,000	N/A
	GPM	8	8	10	10	10	10	10

HUMIDIFIER SECTION

Type	Steam generator	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Capacity	kW	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2	3.4-10.2
	lbs/hr	10-30*	10-30*	10-30*	10-30*	10-30*	10-30*	10-30*

*(adjustable)

CHILLED WATER: Performance data at OPTIONAL AIRFLOW - Option 2, 25 - 63 nominal kilowatts

MODEL NUMBER **GFCD/U025** **GFCD/U032** **GFCD/U039** **GFCD/U046** **GFCD/U053** **GFCD/U063**

FILTER SECTION

Quantity/Size	Downflow	1-20x25x4	1-20x25x4	1-20x25x4	1-20x25x4	4-20x20x4	4-20x20x4
		1-20x20x4	1-20x20x4	1-20x20x4	1-20x20x4	4-20x16x4	4-20x16x4
		1-16x25x4	1-16x25x4	1-16x25x4	1-16x25x4		
		1-16x20x4	1-16x20x4	1-16x20x4	1-16x20x4		
	Upflow	3-25x16x4	3-25x16x4	3-25x16x4	3-25x16x4	4-25x20x4	4-25x20x4
Efficiency - MERV		8	8	8	8	8	8

(Note: Efficiency based on ASHRAE Std. 52.2)

ELECTRICAL SECTION

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

208-230/3/60	FLA/MCA/MOP	50/62/70	50/62/70	51/63/70	N/A	79/97/100	79/97/100
460/3/60	FLA/MCA/MOP	23/28/30	23/28/30	23/29/30	26/32/35	36/44/45	36/44/45

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

208-230/3/60	FLA/MCA/MOP	25/31/35	25/31/35	25/31/35	N/A	45/54/60	45/54/60
460/3/60	FLA/MCA/MOP	11/14/15	11/14/15	12/15/20	14/18/20	20/24/25	20/24/25

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

208-230/3/60	FLA/MCA/MOP	50/62/70	50/62/70	51/63/70	N/A	79/97/100	79/97/100
460/3/60	FLA/MCA/MOP	23/28/30	23/28/30	23/29/30	26/32/35	36/44/45	36/44/45

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

208-230/3/60	FLA/MCA/MOP	8.2/10/15	8.2/10/15	8.8/11/15	N/A	16/19/25	16/19/25
460/3/60	FLA/MCA/MOP	3.7/4.6/15	3.7/4.6/15	4.3/5.4/15	6.7/8.4/15	7.4/8.3/15	7.4/8.3/15

*** STANDARD FAN**

FLA - Full load amps

Diameter (mm)/kW/HP		500/2.8/3.7	500/2.8/3.7	560/3.0/4.0	560/5.0/6.7	500/2.8/3.7	500/2.8/3.7
Number of motors		1	1	1	1	2	2
208-230/3/60	FLA	8.2	8.2	8.8	N/A	8.2	8.2
460/3/60	FLA	3.7	3.7	4.3	6.7	3.7	3.7

FLA - Full load amps

MCA - Minimum circuit ampacity (wire sizing amps)

MOP - Maximum overcurrent protection device amps

MODEL NUMBER *GFCD/U077 GFCD/U091 GFCD/U106 GFCD/U141 GFCD/U158 GFCD/U176 GFCD/211*

FILTER SECTION

Quantity/size	Downflow	4-20x20x4	4-20x20x4	1-20x25x4	6-20x20x4	6-20x20x4	6-20x20x4	10-20x16x4
		4-20x16x4	4-20x16x4	4-20x20x4	6-16x20x4	6-16x20x4	6-16x20x4	10-25x16x4
Upflow		4-25x20x4	4-25x20x4	1-16x25x4	6-25x20x4	6-25x20x4	6-25x20x4	
			4-25x16x4	4-16x20x4				
Efficiency - MERV		8	8	8	8	8	8	8
(Note: Efficiency based on ASHRAE Std. 52.2)								

ELECTRICAL SECTION

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

208-230/3/60	FLA/MCA/MOP	80/98/100	N/A	89/107/110	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	37/45/50	42/50/60	41/49/50	58/69/70	58/69/70	58/69/70	58/69/70

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

208-230/3/60	FLA/MCA/MOP	46/55/60	N/A	55/64/70	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	21/26/30	26/31/35	26/30/35	33/38/40	33/38/40	33/38/40	33/38/40

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

208-230/3/60	FLA/MCA/MOP	80/98/100	N/A	89/107/110	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	37/45/50	42/50/60	41/49/50	58/69/70	58/69/70	58/69/70	58/69/70

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

208-230/3/60	FLA/MCA/MOP	18/20/25	N/A	25/27/30	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	8.6/9.7/15	13/15/20	13/14/15	20/22/25	20/22/25	20/22/25	20/22/25

*** STANDARD FAN**

FLA - Full load amps

Diameter (mm)/kW/HP		560/3.0/4.0	560/5.0/6.7	560/3.0/4.0	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7	560/5.0/6.7
Number of motors		2	2	3	3	3	3	3
208-230/3/60	FLA	8.8	N/A	8.8	N/A	N/A	N/A	N/A
460/3/60	FLA	4.3	6.7	4.3	6.7	6.7	6.7	6.7

FLA - Full load amps

MCA - Minimum circuit ampacity (sire sizing amps)

MOP - Maximum overcurrent protection device amps

CHILLED WATER: Performance data at OPTIONAL AIRFLOW - Option 2, 25 - 63 nominal kilowatts

MODEL NUMBER

GFCD/U025 GFCD/U032 GFCD/U039 GFCD/U046 GFCD/U053 GFCD/U063

ELECTRICAL SECTION

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR.*

208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	26/32/35	26/32/35	26/32/35	N/A	42/50/60	42/50/60

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

208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	14/18/20	14/18/20	14/18/20	N/A	26/31/35	26/31/35

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

208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	26/32/35	26/32/35	26/32/35	N/A	42/50/60	42/50/60

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

208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	6.7/8.4/15	6.7/8.4/15	6.7/8.4/15	N/A	13/15/20	13/15/20

*** NEXT SIZE FAN**

FLA-Full Load Amps

Diameter (mm)/kW/HP		560/5.0/6.7	560/5.0/6.7	560/5.0/6.7	N/A	560/5.0/6.7	560/5.0/6.7
Number of motors		1	1	1		2	2
208-230/3/60	FLA	N/A	N/A	N/A		N/A	N/A
460/3/60	FLA	6.7	6.7	6.7		6.7	6.7

FLA - Full load amps

MCA - Minimum circuit ampacity (wire sizing amps)

MOP - Maximum overcurrent protection device amps

MODEL NUMBER

GFCD/U077 GFCD/U091 GFCD/U106 GFCD/U141 GFCD/U158 GFCD/U176 GFCD/211

ELECTRICAL SECTION

Electrical data based on: electric reheat - **YES**, steam generator humidifier - **YES**, and NEXT SIZE MOTOR.*

208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	42/50/60	N/A	48/57/60	N/A	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	26/31/35	N/A	33/38/40	N/A	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	42/50/60	N/A	48/57/60	N/A	N/A	N/A	N/A

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

208-230/3/60	FLA/MCA/MOP	N/A	N/A	N/A	N/A	N/A	N/A	N/A
460/3/60	FLA/MCA/MOP	13/15/20	N/A	20/22/25	N/A	N/A	N/A	N/A

*** NEXT SIZE FAN**

FLA - Full load amps

Diameter (mm)/kW/HP	560/5.0/6.7	N/A	560/5.0/6.7	N/A	N/A	N/A	N/A
Number of motors	2		3				
208-230/3/60 FLA	N/A		N/A				
460/3/60 FLA	6.7		6.7				

FLA - Full load amps

MCA - Minimum circuit ampacity (wire sizing amps)

MOP - Maximum overcurrent protection device amps

Weights and Dimensional Data

Approximate Weights* and Actual Dimensions					
Model	Operating Weight	Shipping Weight	Length	Width	Height
GFCU/U007	530 lbs	630 lbs	36.00"	40.50"	78.00"
GFCU/U011	530 lbs	630 lbs	36.00"	40.50"	78.00"
GFCU/U014	545 lbs	650 lbs	36.00"	40.50"	78.00"
GFCU/U018	570 lbs	675 lbs	36.00"	40.50"	78.00"
GFCU/U025	760 lbs	905 lbs	48.00"	40.50"	78.00"
GFCU/U032	785 lbs	925 lbs	48.00"	40.50"	78.00"
GFCU/U039	845 lbs	990 lbs	48.00"	40.50"	78.00"
GFCU/U046	890 lbs	1,030 lbs	48.00"	40.50"	78.00"
GFCU/U053	1,005 lbs	1,250 lbs	83.00"	40.50"	78.00"
GFCU/U063	1,120 lbs	1,365 lbs	83.00"	40.50"	78.00"
GFCU/U077	1,275 lbs	1,525 lbs	83.00"	40.50"	78.00"
GFCU/U091	1,485 lbs	1,735 lbs	83.00"	40.50"	78.00"
GFCU/U106	1,960 lbs	2,270 lbs	106.00"	40.50"	78.00"
GFCU/U141	2,610 lbs	2,275 lbs	120.00"	40.50"	84.00"
GFCU/U158	2,820 lbs	3,230 lbs	120.00"	40.50"	84.00"
GFCU/U176	3,020 lbs	3,335 lbs	120.00"	40.50"	84.00"
GFCU/211	3,213 lbs	3,386 lbs	120.00"	46.00"	99.00"

* Shipping weights are approximate and vary due to the number and specific options added to the unit

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