GP SERIES

Packaged Chillers

Comprehensive

Efficient

Versatile

Compact unitary designs
available in a variety of configurations
from 5 to 60 tons of cooling capacity.

GP Configurations Designed to Meet Your Changing Needs.

Packaged chillers are designed to house all of the components necessary for your cooling requirements. With integrated pumps and tanks, GP Series Chillers are able to keep pace with the needs of your business today and into the future.

Auto Water Makeup
Automatically maintain the right amount of water within the chilling system.

Alarm Package
Integrate audible and visual warning and fault indicators directly on the GP unit

Sensor Arrays
Various configurations of measuring devices for complete unit control

Communications
GP Chiller communication options include Modbus RTU, BACNet, and Lonworks

High Pressure Fans
Use higher pressure fans to reject heat to the outside

Pump Options
Select from a wide variety of optional pumps for your application

Side Stream Filter
Remove fluid particulate through the use of a process fluid side stream filter for longer equipment life

Extended Compressor Warranty
Optional 4 years of compressor warranty protection

Comprehensive Solutions for Today's Agile Manufacturer

The GP Series offers the broadest range of chillers available on the market today.

With fully featured chillers from 5 to 60 tons, the GP Series Packaged Chillers are the broadest line of unitary chiller products on the market today. The innovative design not only allows for multiple options, but it is also one of the smallest available packages, freeing valuable floor space within your facility. The mechanical cabinet was designed for tool-free access for easy maintenance.

GPAC 210

Extensive Features

As an industry leader, the GP Series Packaged Chillers offer an extensive range of standard features. Standard products utilize environmentally friendly R410a refrigerant, taking full advantage of smaller components for more compact designs. Energy efficient scroll compressors combine with stainless steel high flow process pumps and stainless steel brazed plate evaporators to create a highly effective cooling product.

Tech Tip: *E-coat applied to the air-cooled condenser coils better protect the coils and maintain heat transfer performance longer.*

The advanced microprocessor based logic controls ensure maximum uptime through the use of over 20 inputs and outputs. All piping is non-ferrous and the refrigeration and process piping is fully insulated on every model. Insulated polyethylene fluid reservoirs are rotationally molded for additional strength and include a removable cover for easy tank access. Y-strainers are integrated into every GP model to protect the evaporator from clogging due to heavy particulate. The refrigeration system includes a filter dryer, sight glass, externally equalized thermal expansion valve, and multiple access points.

The GP Series also integrates high refrigerant pressure safety switches and high pressure refrigerant relief valves for increased safety. Electronic hot gas bypass is integrated into every unit to provide more accurate capacity control while extending the life of the compressor. Controlled by a stepper motor valve, the hot gas bypass controls the compressor and evaporator capacity down to the 30% of rated load, allowing for very tight control of the leaving fluid temperature throughout the entire range.

Air-cooled and remote air-cooled models include variable frequency drives (VFDs) on the fan motors for increased head pressure control, energy efficient operation, and lower noise output under lower load conditions. The addition of the VFDs on the product also ensures a longer motor life due to the soft-start nature of the drive and maintains a more stable pressure within the condenser, extending the life of the compressor. Water-cooled units utilize a tube-in-tube condenser coil with an electronic modulating valve for improved head pressure control.

The Right Configuration for Your Installation

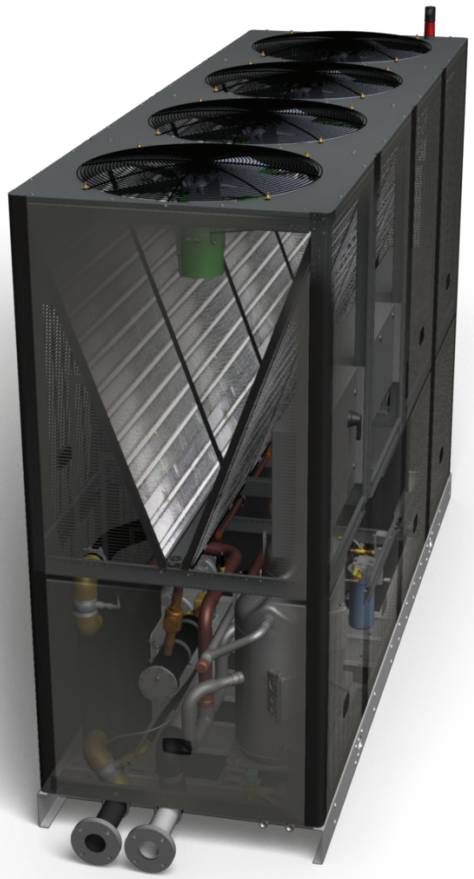
The GP Series Packaged Chillers are available as water-cooled, air-cooled, or remote air-cooled units. Select the right configuration for your particular needs.

Air-cooled models, both local and remote, utilize micro channel air-cooled condenser coils. This is an all-aluminum coil design constructed of multiple parallel flow aluminum tubes. These flat tubes are then brazed to highly efficient aluminum fins.

The construction has up to a 40% more efficient heat transfer when compared to standard finned-tube designs that mix copper and aluminum. The increased surface area that the small channels provide maximizes the heat transfer rate.

The smaller channels also reduce the amount of refrigerant required for the system. This equates to lower lifetime costs of the product. Beyond the increased efficiency of the micro channel design, the units are also more durable than finned-tube solutions. With single metal construction, galvanic corrosion is eliminated, allowing for the use of the product in more demanding applications. The condenser coils are further protected from fouling by an inlet air filter. These filters are easily accessible and easily washed, making maintenance a simple process.

Water-cooled models can be combined with cooling towers and other existing process cooling water supplies for a superior chilling solution. The variance in condenser water temperatures between air-cooled and water-cooled models equates to a higher operating capacity for water-cooled models of the same size.



GPAC20
Air-Cooled

GPWC20
Water-Cooled

GPRC20
Remote Air-Cooled

Tech Tip: *Adding a 25 – 30% glycol solution will provide some protection from corrosion and bacterial contamination.*

It's All About Control

Intuitive controls simplify the operation while maximizing the unit efficiency.

Integrated into every GP Series chiller is a microprocessor based logic controller that maintains the performance of the chiller through the use of over 20 inputs and outputs. The H3 display is an intuitive user interface that continuously shows the entering and leaving fluid temperatures, the setpoint, the hot gas bypass valve percent output, the tank level, and the pump output pressure.

Additional detail regarding the performance of the equipment can be accessed from multiple screens within the H3 menu, including pump and compressor runtime hours.

The control system also uses both water temperature and refrigerant pressure to protect the system from freezing. This method virtually eliminates freeze issues, unlike typical single temperature sensor input protection models.

There are also multiple alarm settings within the controller to provide protection to the system and inform users of potential issues prior to a failure. Each alarm event captures multiple data points to allow for the quick diagnosis and resolution to the problem.

The H3 is tethered to the controller and has a magnetic back-plate to allow for mounting anywhere on the GP chiller. This allows the chiller to be oriented based upon the installation environment and not the physical control placement on the chiller itself. Additionally, the H3 has the ability to set two password levels to protect against inadvertent setting adjustments. The H3 may also be removed from the chiller during operation to avoid parameter changes while operating.

Real time sensor data is available on the main screen for easy performance evaluation and current operating conditions.

The intuitive menu structure has been designed for simple setup and maintenance.

Two levels of password controls protect against inadvertent setting adjustments and ensures supervisory control.

Tailor the GP Series for Your Installation

The GP Series Packaged Chillers are extremely versatile and include many standard options to meet your needs. From a variety of pump selections to multiple sensors, the GP chillers are extremely flexible.

Alarm Package
The alarm package has been designed to alert operators to system warnings or faults. This top-mounted option has both audible and visual indicators. The 80dB audible alarm has multiple tone options to meet the needs of your facility. The 108k candle power fault strobe alerts the floor to a fault condition. Alarm conditions for the GP chiller include High- and Low-Process Fluid Temperature, Low Process Fluid Flow, and High- and Low-Refrigerant Pressure.

Pump Selections
Each GP is equipped with an ODP high flow process pump that meets many of the applications on the market today. However, some applications require additional flow or pressure based upon the existing facility system. Select from a wide variety of ODP or TEFC high flow pumps in various horse powers to meet your specific application needs.

Sensor Arrays
Select the optional Sensor package to gather additional information regarding the performance of your GP chiller. This package monitors entering condenser temperature, refrigeration suction and discharge temperature. This allows the unit to display both superheat and sub-cool values to maximize the performance of the unit and simplify any required diagnostics.

Process Fluid Side-Stream Filter
Systems with higher fluid particulate can cause performance issues within the chiller equipment. Install an optional 50 micron process fluid side-stream cartridge-style filter with monitoring flow meter to maximize chiller uptime and performance.

High Pressure Fans
Packaged air-cooled chillers reject heat through fans mounted on the top of the unit. Instead of rejecting the heat into your facility, high pressure fans can be installed to connect to an external ducting system to push the heat outside.

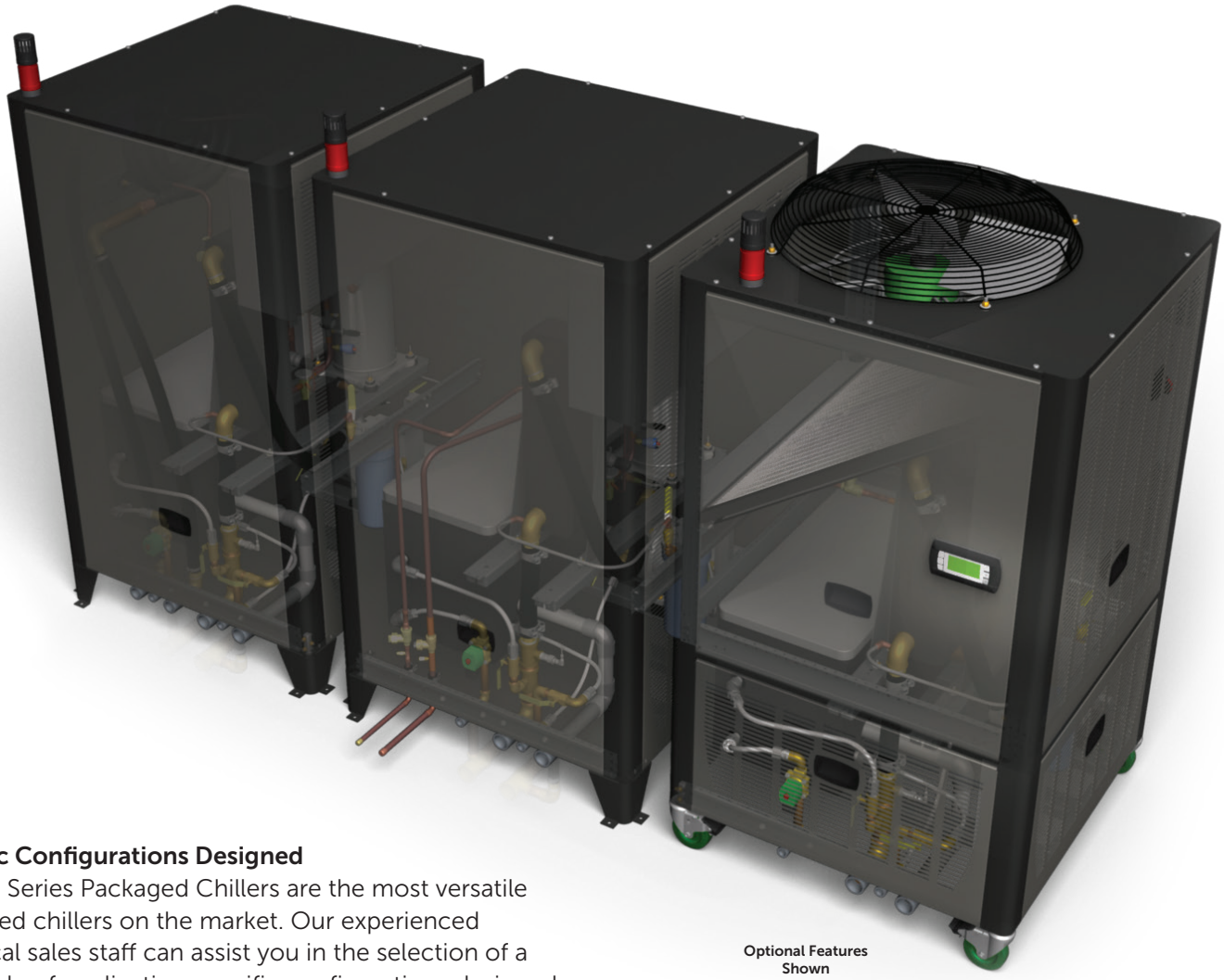
Process Fluid Bypass Valve
Include an external manually adjustable process fluid bypass valve to maintain chiller performance during periods of process reduction. Chiller flow can be diverted to the return flow in order to dilute warmer return water or to maintain operation of the chiller when the system is lightly loaded.

Real-Time Clock Card
The GP Series Packaged Chiller is designed to be mobile between various processes within a facility and power may be disconnect from the equipment on a regular basis. In order to avoid re-programming the time and date, a real-time clock card is available to maintain power to the controller.

Communications
The robust controls within the GP are also capable of multiple communication platforms depending upon the needs of your facility. Your GP chiller can be setup for LonWorks, IP BACNet, RS485 BACNet, RS485 Modbus, IP Modbus, Ethernet IP Modbus RTU, or HTML interface.

Automatic Water Make-Up
An optional automatic water make-up valve is available in order to maintain water levels within the fluid reservoir. This option is usually selected only when pure water is being used within the process and is not available for glycol systems.

Application Configured



Optional Features Shown

Specific Configurations Designed
The GP Series Packaged Chillers are the most versatile packaged chillers on the market. Our experienced technical sales staff can assist you in the selection of a multitude of application specific configurations designed to meet your unique application.

From stainless steel panels and reservoirs to limited outdoor arrangements, the GP is the right chiller for the job. When returning process fluid may be too warm for plastic components, the GP can be configured without PVC to meet the warmer temperatures. In certain configurations, a recirculation pump can be added to the equipment to meet broader system requirements. Consult with our chiller engineers for the right application configured GP Series Packaged Chiller today.

Specifications and Capacities

GP Series (Water-Cooled Circuits)

Model	Cooling Capacity @ 50˚ LFT	Minimum Load	Condenser Flow GPM (LPM)	Reservoir Cap. Gal. (L)	Power*	Dimensions in Inches (CM)			
					MCA	Height	*Width	Depth	Shipping Wt. Lbs (Kg)
GPWC20	5.8 (20)	1.7 (6)	15 (57)	21.0 (80)	16.3	60.8 (154)	35.0 (89)	35.0 (89)	520 (236)
GPWC30	8.4 (30)	2.5 (9)	24 (91)	21.0 (80)	24.8	60.8 (154)	35.0 (89)	35.0 (89)	700 (318)
GPWC40	11.5 (40)	3.5 (12)	33 (125)	37.5 (142)	29.3	60.8 (154)	35.0 (89)	44.0 (112)	760 (345)
GPWC50	17.0 (60)	5.1 (18)	50 (190)	37.5 (142)	42.0	79.3 (201)	35.0 (89)	44.0 (112)	950 (431)
GPWC70	23.1 (81)	6.9 (24)	68 (258)	60.5 (229)	57.0	80.0 (203)	70.0 (178)	44.0 (112)	1715 (778)
GPWC90	28.6 (101)	8.6 (30)	85 (322)	60.5 (229)	71.3	80.0 (203)	70.0 (178)	44.0 (112)	1850 (839)
GPWC105	33.6 (118)	10.1 (35)	101 (383)	60.5 (229)	82.0	80.0 (203)	70.0 (178)	44.0 (112)	2120 (962)
GPWC140	43.8 (154)	13.1 (46)	130 (493)	123.3 (467)	92.0	61.8 (157)	106.0 (269)	44.8 (114)	2380 (1080)
GPWC175	54.9 (193)	16.5 (58)	163 (618)	123.3 (467)	124.0	61.8 (157)	106.0 (269)	44.8 (114)	2460 (1116)
GPWC210	70.6 (248)	21.2 (74)	212 (804)	123.3 (467)	159.0	61.8 (157)	106.0 (269)	44.8 (114)	2617 (1187)

* For additional capacities at multiple LFTs, refer to the product Operation and Installation manual
* Stated capacity data is gross and assumes 85˚ F condenser water w/ 3.4 GPM/Ton flow, ±5% component variance
* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.
* MCA data is provided at 460V. Refer to the product Operation and Installation manual.
* Stated width dimensions do not include extended piping

GP Series (Air-Cooled Circuits)

Model	Cooling Capacity @ 50˚ LFT	Minimum Load	Reservoir Cap. Gal. (L)	Power*	Dimensions in Inches (CM)			
				MCA	Height	*Width	Depth	Shipping Wt. Lbs (Kg)
GPAC20	5.2 (18)	1.6 (5)	21.0 (80)	17.7	63.5 (161)	35.0 (89)	35.0 (89)	520 (236)
GPAC30	7.6 (27)	2.3 (8)	21.0 (80)	26.9	82.0 (208)	35.0 (89)	35.0 (89)	700 (318)
GPAC40	10.3 (36)	3.1 (11)	37.5 (142)	31.4	81.0 (206)	35.0 (89)	44.0 (112)	760 (345)
GPAC50	15.3 (54)	4.6 (16)	37.5 (142)	45.4	99.5 (253)	35.0 (89)	44.0 (112)	950 (431)
GPAC70	20.7 (73)	6.2 (22)	60.5 (229)	61.2	81.0 (206)	70.0 (178)	44.0 (112)	1680 (762)
GPAC90	25.7 (90)	8.6 (30)	60.5 (229)	75.5	81.8 (208)	70.0 (178)	44.0 (112)	1760 (798)
GPAC105	30.3 (107)	10.1 (35)	60.5 (229)	88.8	100.3 (255)	70.0 (178)	44.0 (112)	1990 (903)
GPAC140	39.5 (139)	11.9 (42)	123.3 (467)	114.0	82.0 (208)	106.0 (269)	44.8 (114)	2644 (1199)
GPAC175	49.6 (174)	14.9 (52)	123.3 (467)	134.2	100.5 (255)	106.0 (269)	44.8 (114)	2880 (1306)
GPAC210	63.5 (223)	19.1 (67)	123.3 (467)	172.6	100.5 (255)	141.0 (358)	44.8 (114)	3346 (1518)

* For additional capacities at multiple LFTs, refer to the product Operation and Installation manual
* Stated capacity data assumes 95˚ F ambient w/ 2.4 GPM/Ton flow, ± 5% component variance
* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.
* MCA data is provided at 460V. Refer to the product Operation and Installation manual.
* Stated width dimensions do not include extended piping

Specifications and Capacities

GP Series (Remote-Cooled Circuits)

Model	Cooling Capacity @ 50˚ LFT	Minimum Load	Reservoir Cap. Gal. (L)	Power*	Dimensions in Inches (CM)			
				MCA	Height	*Width	Depth	Shipping Wt. Lbs (Kg)
GPRC20	5.2 (18)	1.6 (5)	21.0 (80)	17.7	60.8 (154)	*37.0 (94)	*37.0 (94)	440 (200)
GPRC30	7.6 (27)	2.3 (8)	21.0 (80)	26.9	60.8 (154)	*37.0 (94)	*37.0 (94)	620 (281)
GPRC40	10.3 (36)	3.1 (11)	37.5 (142)	31.4	60.8 (154)	*37.0 (94)	*46.0 (117)	650 (295)
GPRC50	15.3 (54)	4.6 (16)	37.5 (142)	45.4	60.8 (154)	*37.0 (94)	*46.0 (117)	840 (381)
GPRC70	20.7 (73)	6.2 (22)	60.5 (229)	61.2	80.0 (203)	70.0 (178)	44.0 (112)	1455 (660)
GPRC90	25.7 (90)	8.6 (30)	60.5 (229)	75.5	80.0 (203)	70.0 (178)	44.0 (112)	1500 (680)
GPRC105	30.3 (107)	10.1 (35)	60.5 (229)	88.8	80.0 (203)	70.0 (178)	44.0 (112)	1610 (730)
GPRC140	39.5 (139)	11.9 (42)	123.3 (467)	114.0	61.8 (157)	106.0 (269)	44.8 (114)	2030 (921)
GPRC175	49.6 (174)	14.9 (52)	123.3 (467)	134.2	61.8 (157)	106.0 (269)	44.8 (114)	2128 (965)
GPRC210	63.5 (223)	19.1 (67)	123.3 (467)	172.6	61.8 (157)	106.0 (269)	44.8 (114)	2202 (999)

* For additional capacities at multiple LFTs, refer to the product Operation and Installation manual

* Stated capacity data assumes 95˚ F ambient w/ 2.4 GPM/Ton flow, ± 5% component variance

* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.

* MCA data is provided at 460V. Refer to the product Operation and Installation manual.

* Stated width dimensions do not include extended piping, but does include extended mounting tabs

GP Series (Remote Condensers)

Model	Nominal Capacity Tons (Kw)	Condenser Sections	Total CFM	Dimensions in Inches (CM)			
				Height	Width	Depth	Shipping Wt. Lbs (Kg)
RC20	5 (20)	1	4,230	58.5 (149)	37.6 (96)	37.6 (96)	221 (100)
RC30	7.5 (30)	1	6,343	77.0 (196)	37.6 (96)	37.6 (96)	277 (126)
RC40	10 (40)	1	8,458	57.5 (146)	37.6 (96)	46.6 (118)	287 (130)
RC50	15 (50)	1	12,687	76.0 (193)	37.6 (96)	46.6 (118)	371 (168)
RC70	20 (70)	2	16,916	57.5 (146)	70.1 (178)	44.0 (112)	692 (314)
RC90	25 (90)	2	25,374	57.5 (146)	70.1 (178)	44.0 (112)	710 (322)
RC105	30 (106)	2	25,374	76.0 (193)	70.1 (178)	44.0 (112)	815 (370)
RC140	40 (140)	3	38,061	57.6 (146)	105.1 (267)	44.0 (112)	927 (421)
RC175	50 (175)	3	38,061	76.0 (193)	107.8 (274)	46.6 (118)	1097 (498)
RC210	60 (210)	4	50,748	76.0 (193)	142.8 (363)	46.6 (118)	1369 (621)

* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.

Specifications and Capacities

GP20 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC20 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	27300	2.3	8.0	5400	45730	5.06
25 (-4)	28	32300	2.7	9.5	5350	50560	6.04
30 (-1)	25	37500	3.1	11.0	5300	55589	7.08
35 (2)	20	43100	3.6	12.6	5250	61018	8.21
40 (4)	10	48900	4.1	14.3	5200	66648	9.40
45 (7)	0	55500	4.6	16.3	5150	73077	10.78
50 (10)	0	62000	5.2	18.2	5050	79236	12.28
55 (13)	0	67000	5.6	19.6	5150	84577	13.01
60 (16)	0	72000	6.0	21.1	5150	89577	13.98
65 (18)	0	77500	6.5	22.7	5200	95248	14.90
70 (21)	0	83500	7.0	24.5	5250	101418	15.90
75 (24)	0	89500	7.5	26.2	5300	107589	16.89
80 (27)	0	95500	8.0	28.0	5350	113760	17.85

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC20 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	33000	2.8	9.7	4560	48563	7.24
25 (-4)	28	38100	3.2	11.2	4520	53527	8.43
30 (-1)	25	43500	3.6	12.7	4470	58756	9.73
35 (2)	20	49300	4.1	14.4	4430	64420	11.13
40 (4)	10	55500	4.6	16.3	4370	70415	12.70
45 (7)	0	62000	5.2	18.2	4320	76744	14.35
50 (10)	0	69500	5.8	20.4	4260	84039	16.31
55 (13)	0	66000	5.5	19.3	4161	80203	15.86
60 (16)	0	69500	5.8	20.4	4184	83781	16.61
65 (18)	0	74400	6.2	21.8	4244	88885	17.53
70 (21)	0	79200	6.6	23.2	4281	93811	18.50
75 (24)	0	84000	7.0	24.6	4339	98808	19.36
80 (27)	0	88800	7.4	26.0	4357	103671	20.38

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP30 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC30 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	45200	3.8	13.2	7400	70456	6.11
25 (-4)	28	51300	4.3	15.0	7400	76556	6.93
30 (-1)	25	57900	4.8	17.0	7410	83190	7.81
35 (2)	20	65000	5.4	19.0	7420	90324	8.76
40 (4)	10	72800	6.1	21.3	7430	98159	9.80
45 (7)	0	81300	6.8	23.8	7450	106727	10.91
50 (10)	0	90600	7.6	26.5	7460	116061	12.14
55 (13)	0	97300	8.1	28.5	7640	123375	12.74
60 (16)	0	104500	8.7	30.6	7800	131121	13.40
65 (18)	0	112500	9.4	33.0	7960	139667	14.13
70 (21)	0	120500	10.0	35.3	8140	148282	14.80
75 (24)	0	128500	10.7	37.7	8310	156862	15.46
80 (27)	0	137500	11.5	40.3	8490	166476	16.20

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC30 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	50800	4.2	14.9	6210	71995	8.18
25 (-4)	28	57400	4.8	16.8	6220	78629	9.23
30 (-1)	25	64500	5.4	18.9	6230	85763	10.35
35 (2)	20	72300	6.0	21.2	6250	93631	11.57
40 (4)	10	80900	6.7	23.7	6270	102300	12.90
45 (7)	0	90300	7.5	26.5	6280	111734	14.38
50 (10)	0	100500	8.4	29.4	6300	122002	15.95
55 (13)	0	103200	8.6	30.2	6308	124729	16.36
60 (16)	0	110400	9.2	32.3	6509	132617	16.96
65 (18)	0	117600	9.8	34.5	6663	140340	17.65
70 (21)	0	124800	10.4	36.6	6779	147936	18.41
75 (24)	0	132000	11.0	38.7	6933	155662	19.04
80 (27)	0	139200	11.6	40.8	7030	163194	19.80

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP40 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC40 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	58200	4.9	17.1	10000	92330	5.82
25 (-4)	28	67100	5.6	19.7	9910	100923	6.77
30 (-1)	25	76800	6.4	22.5	9840	110384	7.80
35 (2)	20	87400	7.3	25.6	9790	120813	8.93
40 (4)	10	98800	8.2	28.9	9760	132111	10.12
45 (7)	0	111000	9.3	32.5	9750	144277	11.38
50 (10)	0	124000	10.3	36.3	9750	157277	12.72
55 (13)	0	133500	11.1	39.1	9970	167528	13.39
60 (16)	0	143500	12.0	42.0	10200	178313	14.07
65 (18)	0	153500	12.8	45.0	10450	189166	14.69
70 (21)	0	164000	13.7	48.1	10700	200519	15.33
75 (24)	0	175000	14.6	51.3	11000	212543	15.91
80 (27)	0	186000	15.5	54.5	11300	224567	16.46

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC40 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	68200	5.7	20.0	8080	95777	8.44
25 (-4)	28	78000	6.5	22.9	8060	105509	9.68
30 (-1)	25	88500	7.4	25.9	8070	116043	10.97
35 (2)	20	99800	8.3	29.2	8080	127377	12.35
40 (4)	10	112000	9.3	32.8	8100	139645	13.83
45 (7)	0	125000	10.4	36.6	8120	152714	15.39
50 (10)	0	138500	11.5	40.6	8150	166316	16.99
55 (13)	0	140400	11.7	41.1	8259	168587	17.00
60 (16)	0	147600	12.3	43.2	8420	176337	17.53
65 (18)	0	157200	13.1	46.1	8666	186777	18.14
70 (21)	0	166800	13.9	48.9	8882	197114	18.78
75 (24)	0	175200	14.6	51.3	9097	206247	19.26
80 (27)	0	184800	15.4	54.1	9315	216590	19.84

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP50 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC50 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	91000	7.6	26.7	14100	139123	6.45
25 (-4)	28	103000	8.6	30.2	14200	151465	7.25
30 (-1)	25	117000	9.8	34.3	14200	165465	8.24
35 (2)	20	132000	11.0	38.7	14300	180806	9.23
40 (4)	10	148000	12.3	43.4	14400	197147	10.28
45 (7)	0	165000	13.8	48.3	14500	214489	11.38
50 (10)	0	183000	15.3	53.6	14600	232830	12.53
55 (13)	0	196000	16.3	57.4	15100	247536	12.98
60 (16)	0	210000	17.5	61.5	15500	262902	13.55
65 (18)	0	224000	18.7	65.6	16000	278608	14.00
70 (21)	0	239000	19.9	70.0	16500	295315	14.48
75 (24)	0	254000	21.2	74.4	17100	312362	14.85
80 (27)	0	269000	22.4	78.8	17800	329751	15.11

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC50 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	103000	8.6	30.2	11900	143615	8.66
25 (-4)	28	117000	9.8	34.3	12000	157956	9.75
30 (-1)	25	131000	10.9	38.4	12000	171956	10.92
35 (2)	20	147000	12.3	43.1	12100	188297	12.15
40 (4)	10	165000	13.8	48.3	12200	206639	13.52
45 (7)	0	184000	15.3	53.9	12300	225980	14.96
50 (10)	0	204000	17.0	59.8	12500	246663	16.32
55 (13)	0	205200	17.1	60.1	12597	248192	16.29
60 (16)	0	220800	18.4	64.7	13253	266034	16.66
65 (18)	0	234000	19.5	68.6	13660	280622	17.13
70 (21)	0	248400	20.7	72.8	14146	296680	17.56
75 (24)	0	260400	21.7	76.3	14596	310218	17.84
80 (27)	0	274800	22.9	80.5	15124	326418	18.17

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP70 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC70 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	116500	9.7	34.1	20100	185101	5.80
25 (-4)	28	134000	11.2	39.3	19950	202089	6.72
30 (-1)	25	153500	12.8	45.0	19850	221248	7.73
35 (2)	20	175000	14.6	51.3	19750	242407	8.86
40 (4)	10	197500	16.5	57.9	19650	264565	10.05
45 (7)	0	222000	18.5	65.0	19650	289065	11.30
50 (10)	0	248000	20.7	72.7	19650	315065	12.62
55 (13)	0	244800	20.4	71.7	19584	311640	12.50
60 (16)	0	259200	21.6	75.9	20062	327671	12.92
65 (18)	0	274800	22.9	80.5	20569	345002	13.36
70 (21)	0	291600	24.3	85.4	21146	363770	13.79
75 (24)	0	307200	25.6	90.0	21710	381297	14.15
80 (27)	0	324000	27.0	94.9	22438	400580	14.44

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC70 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	136500	11.4	40.0	16250	191961	8.40
25 (-4)	28	156000	13.0	45.7	16250	211461	9.60
30 (-1)	25	177000	14.8	51.9	16250	232461	10.89
35 (2)	20	199500	16.6	58.5	16250	254961	12.28
40 (4)	10	224000	18.7	65.6	16300	279632	13.74
45 (7)	0	250000	20.8	73.2	16350	305803	15.29
50 (10)	0	277000	23.1	81.2	16400	332973	16.89
55 (13)	0	272400	22.7	79.8	16439	328507	16.57
60 (16)	0	289200	24.1	84.7	16873	346787	17.14
65 (18)	0	306000	25.5	89.7	17308	365071	17.68
70 (21)	0	324000	27.0	94.9	17715	384460	18.29
75 (24)	0	340800	28.4	99.9	18166	402802	18.76
80 (27)	0	360000	30.0	105.5	18634	423596	19.32

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP90 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC90 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	154000	12.8	45.1	24200	236595	6.36
25 (-4)	28	176000	14.7	51.6	24400	259277	7.21
30 (-1)	25	198000	16.5	58.0	24500	281619	8.08
35 (2)	20	222000	18.5	65.0	24700	306301	8.99
40 (4)	10	249000	20.8	73.0	24800	333642	10.04
45 (7)	0	277000	23.1	81.2	24900	361984	11.12
50 (10)	0	308000	25.7	90.2	25100	393666	12.27
55 (13)	0	312000	26.0	91.4	25202	398014	12.38
60 (16)	0	328800	27.4	96.3	25829	416954	12.73
65 (18)	0	349200	29.1	102.3	26555	439833	13.15
70 (21)	0	369600	30.8	108.3	27277	462696	13.55
75 (24)	0	388800	32.4	113.9	27991	484335	13.89
80 (27)	0	409200	34.1	119.9	28858	507691	14.18

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC90 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	174000	14.5	51.0	20400	243625	8.53
25 (-4)	28	197000	16.4	57.7	20500	266967	9.61
30 (-1)	25	221000	18.4	64.8	20700	291649	10.68
35 (2)	20	248000	20.7	72.7	20800	318990	11.92
40 (4)	10	277000	23.1	81.2	21000	348673	13.19
45 (7)	0	308000	25.7	90.2	21100	380014	14.60
50 (10)	0	343000	28.6	100.5	21400	416038	16.03
55 (13)	0	351600	29.3	103.0	21571	425220	16.30
60 (16)	0	372000	31.0	109.0	22169	447664	16.78
65 (18)	0	396000	33.0	116.0	22851	473989	17.33
70 (21)	0	420000	35.0	123.1	23464	500082	17.90
75 (24)	0	442800	36.9	129.7	24157	525248	18.33
80 (27)	0	468000	39.0	137.1	24828	552737	18.85

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP105 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC105 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	180000	15.0	52.7	28300	276588	6.36
25 (-4)	28	205000	17.1	60.1	28400	301929	7.22
30 (-1)	25	232000	19.3	68.0	28500	329271	8.14
35 (2)	20	261000	21.8	76.5	28700	358953	9.09
40 (4)	10	293000	24.4	85.8	28800	391294	10.17
45 (7)	0	327000	27.3	95.8	29000	425977	11.28
50 (10)	0	363000	30.3	106.4	29200	462660	12.43
55 (13)	0	372000	31.0	109.0	29594	473005	12.57
60 (16)	0	392400	32.7	115.0	30419	496219	12.90
65 (18)	0	415200	34.6	121.7	31312	522069	13.26
70 (21)	0	438000	36.5	128.3	32230	548000	13.59
75 (24)	0	460800	38.4	135.0	33295	574435	13.84
80 (27)	0	484800	40.4	142.0	34505	602567	14.05

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC105 - 60HZ (3/60/208-230V, 3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	204000	17.0	59.8	23800	285229	8.57
25 (-4)	28	231000	19.3	67.7	24000	312912	9.63
30 (-1)	25	260000	21.7	76.2	24100	342253	10.79
35 (2)	20	292000	24.3	85.6	24300	374936	12.02
40 (4)	10	326000	27.2	95.5	24500	409619	13.31
45 (7)	0	363000	30.3	106.4	24700	447301	14.70
50 (10)	0	403000	33.6	118.1	25100	488666	16.06
55 (13)	0	416400	34.7	122.0	25577	503696	16.28
60 (16)	0	439200	36.6	128.7	26331	529067	16.68
65 (18)	0	465600	38.8	136.4	27212	558475	17.11
70 (21)	0	492000	41.0	144.2	28066	587790	17.53
75 (24)	0	517200	43.1	151.5	29056	616369	17.80
80 (27)	0	544800	45.4	159.6	30066	647416	18.12

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP140 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC140 – 60 Hz (3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	239000	19.9	70.0	37700	367670	6.34
25 (-4)	28	271000	22.6	79.4	37900	400353	7.15
30 (-1)	25	305000	25.4	89.4	38100	435035	8.01
35 (2)	20	342000	28.5	100.2	38200	472377	8.95
40 (4)	10	383000	31.9	112.2	38400	514059	9.97
45 (7)	0	427000	35.6	125.1	38500	558401	11.09
50 (10)	0	474000	39.5	138.9	38600	605742	12.28
55 (13)	0	492000	41.0	144.2	37875	621268	12.99
60 (16)	0	522000	43.5	152.9	38984	655053	13.39
65 (18)	0	554400	46.2	162.4	40087	691216	13.83
70 (21)	0	588000	49.0	172.3	41176	728535	14.28
75 (24)	0	621600	51.8	182.1	42430	766414	14.65
80 (27)	0	657600	54.8	192.7	43869	807326	14.99

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC140 – 60 Hz (3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	267000	22.3	78.2	31900	375875	8.37
25 (-4)	28	302000	25.2	88.5	32000	411216	9.44
30 (-1)	25	339000	28.3	99.3	32200	448899	10.53
35 (2)	20	380000	31.7	111.3	32300	490240	11.76
40 (4)	10	424000	35.3	124.2	32400	534581	13.09
45 (7)	0	473000	39.4	138.6	32600	584264	14.51
50 (10)	0	525000	43.8	153.8	32800	636946	16.01
55 (13)	0	535200	44.6	156.8	32476	646040	16.48
60 (16)	0	567600	47.3	166.3	33369	681487	17.01
65 (18)	0	603600	50.3	176.9	34257	720518	17.62
70 (21)	0	643200	53.6	188.5	35186	763290	18.28
75 (24)	0	678000	56.5	198.7	36045	801020	18.81
80 (27)	0	720000	60.0	211.0	37018	846342	19.45

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP175 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC175 – 60 Hz (3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	291000	24.3	85.3	48000	454824	6.06
25 (-4)	28	332000	27.7	97.3	47900	495483	6.93
30 (-1)	25	376000	31.3	110.2	47800	539141	7.87
35 (2)	20	425000	35.4	124.5	47800	588141	8.89
40 (4)	10	478000	39.8	140.1	47800	641141	10.00
45 (7)	0	535000	44.6	156.8	48000	698824	11.15
50 (10)	0	595000	49.6	174.3	48200	759507	12.34
55 (13)	0	618000	51.5	181.1	47981	781760	12.88
60 (16)	0	667200	55.6	195.5	49276	835380	13.54
65 (18)	0	722400	60.2	211.7	50695	895421	14.25
70 (21)	0	766800	63.9	224.7	52774	946916	14.53
75 (24)	0	823200	68.6	241.2	55174	1011510	14.92
80 (27)	0	846000	70.5	247.9	55989	1037092	15.11

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC175 – 60 Hz (3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	329000	27.4	96.4	39900	465179	8.25
25 (-4)	28	374000	31.2	109.6	39900	510179	9.37
30 (-1)	25	423000	35.3	123.9	40000	559520	10.58
35 (2)	20	475000	39.6	139.2	40100	611861	11.85
40 (4)	10	532000	44.3	155.9	40300	669544	13.20
45 (7)	0	593000	49.4	173.7	40600	731568	14.61
50 (10)	0	659000	54.9	193.1	41100	799274	16.03
55 (13)	0	669600	55.8	196.2	41105	809891	16.29
60 (16)	0	709200	59.1	207.8	42189	853192	16.81
65 (18)	0	753600	62.8	220.8	43310	901418	17.40
70 (21)	0	801600	66.8	234.9	44484	953424	18.02
75 (24)	0	844800	70.4	247.5	45640	1000570	18.51
80 (27)	0	895200	74.6	262.3	46869	1055164	19.10

[1] ACTUAL CAPACITIES CAN VARY ±5%

Specifications and Capacities

GP210 UNIT CAPACITY

GPAC/GPRC UNITS							
GPAC/GPRC210 – 60 Hz (3/60/460V, 3/60/575V)					95°F AMBIENT		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	375000	31.3	109.9	60000	579780	6.25
25 (-4)	28	428000	35.7	125.4	60300	633804	7.10
30 (-1)	25	485000	40.4	142.1	60600	691828	8.00
35 (2)	20	547000	45.6	160.3	61000	755193	8.97
40 (4)	10	614000	51.2	179.9	61300	823217	10.02
45 (7)	0	685000	57.1	200.7	61800	895923	11.08
50 (10)	0	762000	63.5	223.3	62400	974971	12.21
55 (13)	0	794400	66.2	232.8	62998	1009411	12.61
60 (16)	0	840000	70.0	246.1	64765	1061042	12.97
65 (18)	0	889200	74.1	260.5	66607	1116529	13.35
70 (21)	0	937200	78.1	274.6	68409	1170679	13.70
75 (24)	0	982800	81.9	288.0	70654	1223943	13.91
80 (27)	0	1032000	86.0	302.4	73504	1282870	14.04

[1] ACTUAL CAPACITIES CAN VARY ±5%

GPWC UNITS							
GPWC210 – 60 Hz (3/60/460V, 3/60/575V)					85°F ENTERING COND. WTR TEMP		
LFT °F (°C)	% EG REQ.	GROSS CAPACITY[1]			COMP. POWER W	COMP. THR BTU/HR	COMP. EER BTU/Wh
		BTU/HR	TONS	KW			
20 (-7)	33	425000	35.4	124.5	50600	597698	8.40
25 (-4)	28	482000	40.2	141.2	50900	655722	9.47
30 (-1)	25	544000	45.3	159.4	51200	718746	10.63
35 (2)	20	612000	51.0	179.3	51600	788111	11.86
40 (4)	10	684000	57.0	200.4	52100	861817	13.13
45 (7)	0	763000	63.6	223.6	52600	942524	14.51
50 (10)	0	847000	70.6	248.2	53300	1028913	15.89
55 (13)	0	874800	72.9	256.3	54167	1059673	16.15
60 (16)	0	924000	77.0	270.7	55763	1114321	16.57
65 (18)	0	979200	81.6	286.9	57465	1175327	17.04
70 (21)	0	1036800	86.4	303.8	59212	1238890	17.51
75 (24)	0	1089600	90.8	319.2	61076	1298053	17.84
80 (27)	0	1148400	95.7	336.5	62961	1363284	18.24

[1] ACTUAL CAPACITIES CAN VARY ±5%

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