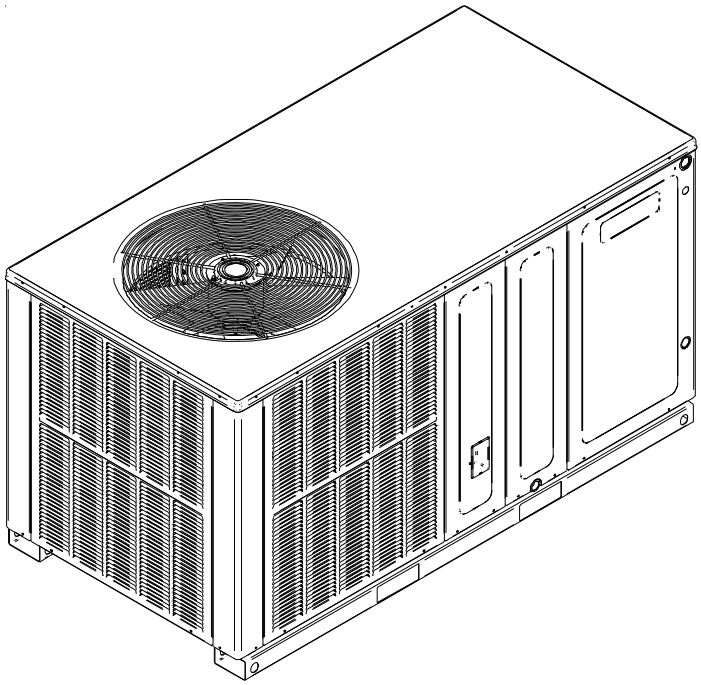
TECHNICAL MANUAL

GPC 14 SEER R-410A Package Air Conditioners with R-410A

- Refer to Service Manual RS6300011 (Horizontal) for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Models listed on page 3.
- Models qualify for the 2009 and 2010 Federal Tax Credits for Energy Efficiency**

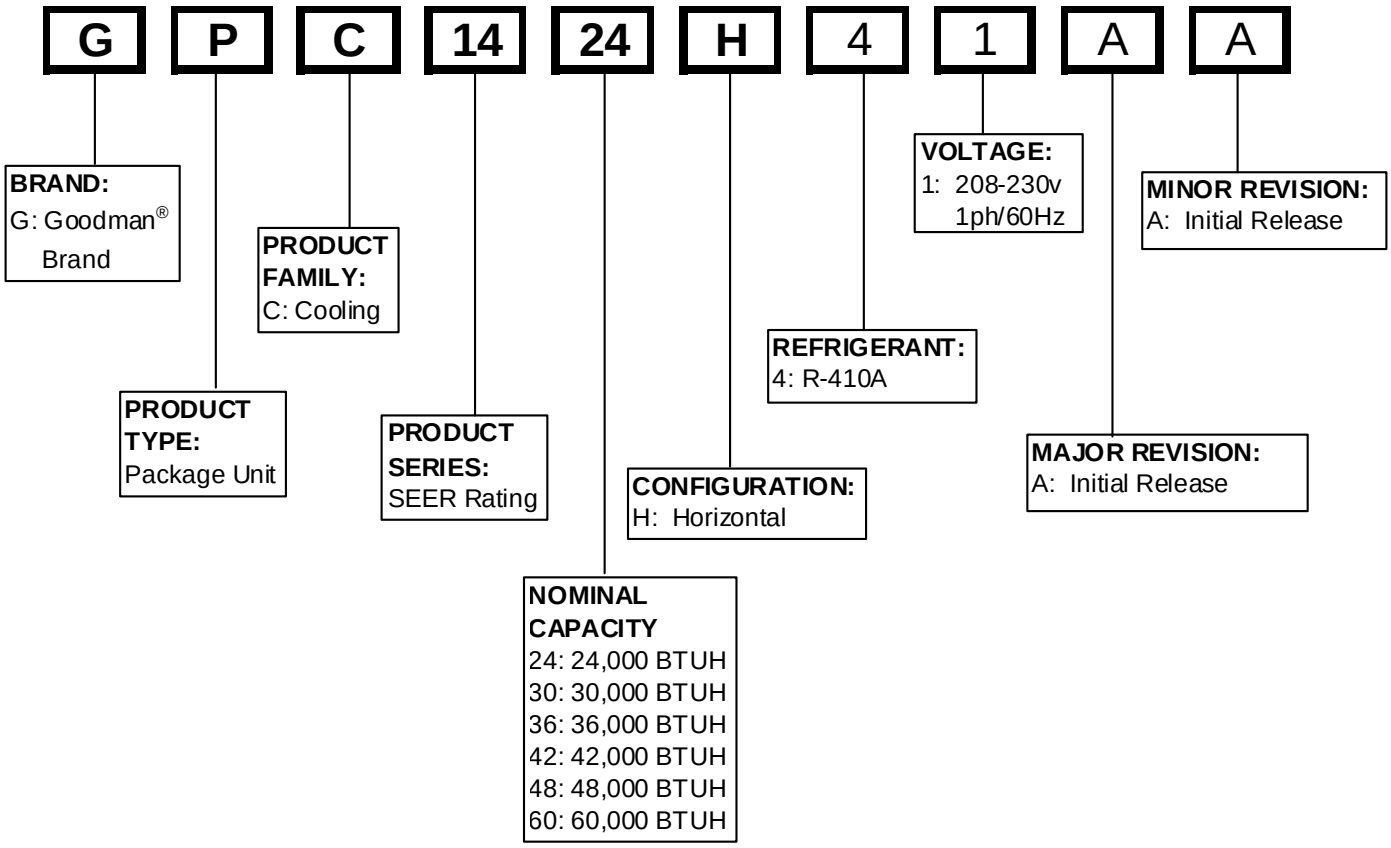


***Note that these tax credits are subject to specific requirements set forth in the American Recovery and Reinvestment Act of 2009 and in the Internal Revenue Code. Goodman recommends that consumers consult a tax professional if they have questions about the applicability of these credits.*

RT6322007r2
August 2009

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.



⚠ WARNING

HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.

⚠ WARNING **Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.**

⚠ WARNING **Installation and repair of this unit should be performed <u>ONLY</u> by individuals meeting the requirements of an "entry level technician" as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.**

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.

GPC1424H41A*
GPC1430H41A*
GPC1436H41A*
GPC1442H41A*
GPC1448H41A*
GPC1460H41A*

*Models qualify for the 2009 and 2010 Federal Tax Credits for Energy Efficiency***

***Note that these tax credits are subject to specific requirements set forth in the American Recovery and Reinvestment Act of 2009 and in the Internal Revenue Code. Goodman recommends that consumers consult a tax professional if they have questions about the applicability of these credits.*

⚠ WARNING **The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.**

⚠ WARNING **Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.**

⚠ WARNING **To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.**

PRODUCT DESIGN

GPC Package Cooling Units are designed for outdoor installations only in either residential or light commercial applications.

The connecting ductwork (Supply and Return) can be connected for either horizontal or vertical airflow. In the vertical application a matching Roof Curb is recommended.

A return air filter must be installed behind the return air grille(s) or provision must be made for a filter in an accessible location within the return air duct. The minimum filter area should not be less than those sizes listed in the Specification Section. Under no circumstances should the unit be operated without return air filters.

A 3/4" PVC pipe is provided for removal of condensate water from the indoor coil In order to provide proper condensate flow, a drain trap is supplied and shipped loose inside the unit for field installation. (Do not reduce the drain line size.)

Refrigerant flow control is achieved by use of restrictor orifices. GPC units use the FasTest Access Fitting System with a saddle that is either soldered to the suction and liquid lines or is fastened with a locking nut to the access fitting box (core) and then screwed into the saddle. **Do not remove the core from the saddle until the refrigerant charge has been removed. Failure to do so could result in property damage or personal injury.**

The single phase units use permanent split capacitor (PSC) design compressors. Starting components are therefore not required for these units. A low microfarad run capacitor assists the compressor to start and remains in the circuit during operation.

All GPC14 units have X-13 indoor blower motors that are energized by a 24V signal from the thermostat and are constant torque motors with very low power consumption. The X-13 features an integral control module.

Air for condensing (cooling cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

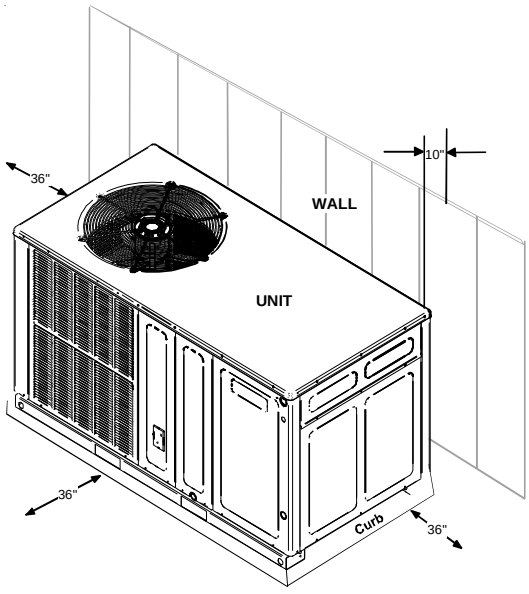
Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

GPC1424-30H41* use Copeland Reciprocating Compressors. GPC1436-60H41* use Copeland Scroll Compressors. There are a number of design characteristics which are different from the traditional reciprocating compressor.

- Due to their design Scroll Compressors are inherently more tolerant of liquid refrigerant. **NOTE**: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.
- Scroll Compressors use white oil which is compatible with 3GS oil which may be used if additional oil is required.
- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

Location and Clearances

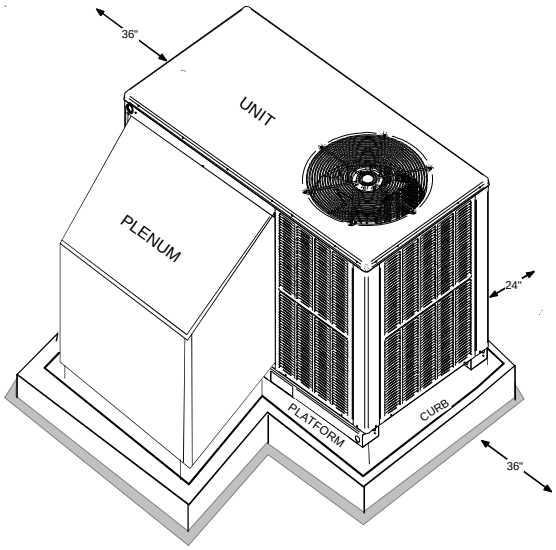
NOTE: To ensure proper condensate drainage, unit must be installed in a level position.



Outside Slab Installation - Horizontal (H)

Minimum clearances are required to avoid air recirculation and keep the unit operating at peak efficiency.

PRODUCT DESIGN



Rooftop Installation - Horizontal (H)

In installations where the unit is installed above ground level and not serviceable from the ground (Example: Roof Top installations), the installer must provide service platform for service person with rails or guards in accordance with local codes or ordinances or in their absence with the latest edition of the Uniform Mechanical Code Section 305.

NOTE: Unit can also use roof curb.

WARNING

TO PREVENT POSSIBLE PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING IF A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.

Refer to Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

HKR ELECTRICAL DATA

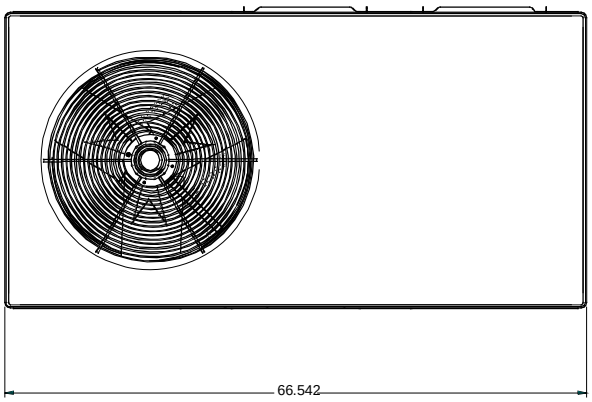
Model and Heat Kit Usage	Circuit #1		Circuit #2		Actual kW & BTU at 240V
	Minimum Circuit Ampacity at 208 / 240V	Maximum Overcurrent Protection (amps) at 208 / 240V	Minimum Circuit Ampacity at 208 / 240V	Maximum Overcurrent Protection (amps) at 208 / 240V	
GPH1424H41A*					
HKR05*,C*	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08*,C*	33 / 28	40 / 40	----	----	7.00 / 23,800
HKR10*,C*	45 / 51	60 / 60	----	----	9.50 / 32,400
GPH1430H41A*					
HKR05*,C*	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	----	----	7.00 / 23,800
HKR10*,C*	45 / 52	60 / 60	----	----	9.50 / 32,400
HKR15*,C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1436H41A*					
HKR05*,C*	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	----	----	7.00 / 23,800
HKR10*,C*	45 / 52	60 / 60	----	----	9.50 / 32,400
HKR15*,C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1442H41A*					
HKR05*,C*	25 / 27	30 / 30	----	----	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	----	----	7.00 / 23,800
HKR10*,C*	46 / 52	60 / 60	----	----	9.50 / 32,400
HKR15*,C*	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20*,C*	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
GPH1448H41A*					
HKR05*,C*	25 / 28	30 / 30	----	----	4.75 / 16,200
HKR08*,C*	34 / 40	40 / 40	----	----	7.00 / 23,800
HKR10*,C*	46 / 53	60 / 60	----	----	9.50 / 32,400
HKR15*,C*	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20*,C*	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
GPH1460H41A*					
HKR05*,C*	26 / 30	30 / 30	----	----	4.75 / 16,200
HKR08*,C*	36 / 40	40 / 40	----	----	7.00 / 23,800
HKR10*,C*	48 / 54	60 / 60	----	----	9.50 / 32,400
HKR15*,C*	48 / 54	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20*,C*	48 / 54	60 / 60	43 / 49	60 / 60	19.50 / 66,500

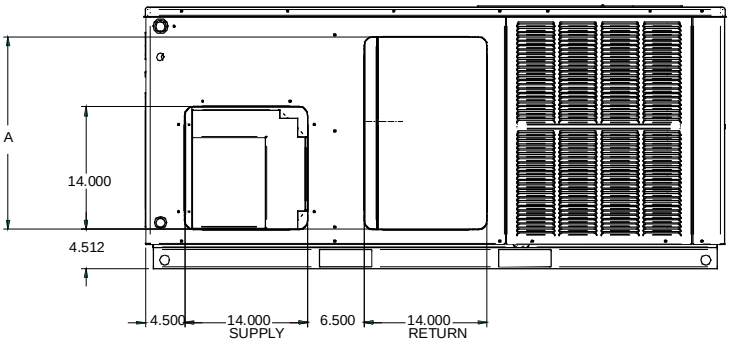
IMPORTANT NOTE: *A separate power supply is required for the HKR heater kit.*

⚠ WARNING **All wires and overcurrent protection devices are sized for use with electric heaters only and without refrigeration. If heaters are not installed with above wire size, overheating and fire could occur. See PACKAGE COOLING SPECIFICATIONS section for minimum circuit ampacity and maximum overcurrent protection during refrigeration cycle.**

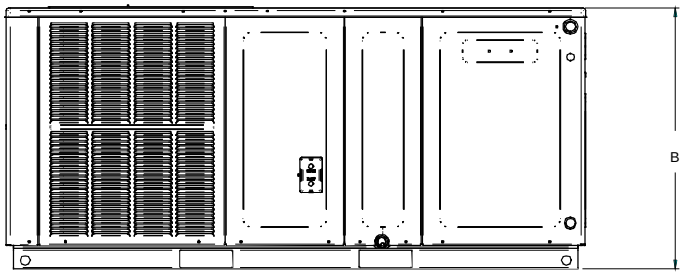
PRODUCT DIMENSIONS

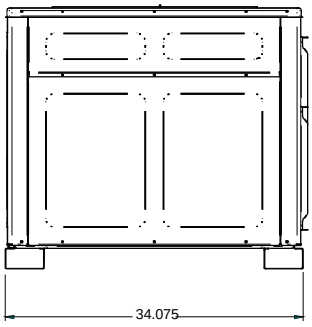
GPC14[24-60]H41A*





BACK VIEW
(DUCT OPENINGS)





Chassis	Model	A	B
Small	GPC1424	33	30½
	GPC1430	33	30½
Medium	GPC1436	33	35½
	GPC1442	33	35½
Large	GPC1448	33	38½
	GPC1460	33	38½

Dimensions in inches

PACKAGE COOLING SPECIFICATIONS GPC14[24-36]H41A*

		GPC1424H41*	GPC1430H41*	GPC1436H41*
COOLING	COOLING CAPACITY, BTUH	24,600	28,400	35,600
CAPACITY	SEER / EER	14.5 / 12.1	14.0 / 12.0	14.0 / 12.0
UNIT	VOLTAGE (NAMEPLATE)	208-230/1/60	208-230/1/60	208-230/1/60
ELECTRICAL	AMPS (TOTAL)	10.5	13.16	20.06
SPECIFICATION	MINIMUM CIRCUIT AMPACITY	12.5	15.6	24.2
	MAXIMUM OVERCURRENT PROTECTION (1)	20	25	40
COMPRESSOR	TYPE	RECIP	RECIP	SCROLL
	RATED LOAD AMPS	7.9	9.8	16.7
	LOCKED ROTOR AMPS	41	55	79
CONDENSER	HORSEPOWER	1/6	1/4	1/4
FAN MOTOR	RPM	815	830	830
	FULL LOAD AMPS	1.1	1.5	1.5
	LOCKED ROTOR AMPS	1.7	3.0	3.0
CONDENSER FAN	BLADE DIAMETER (INCHES) / NUMBER OF BLADES	22 / 3	22 / 3	22 / 3
CONDENSER	FACE AREA - SQ. FT.	13.4	13.4	13.4
COIL	NUMBER OF ROWS	1	1	1
	FINS PER INCH	24	24	24
EVAPORATOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	1/2 - 5	1/2 - 5
BLOWER	FULL LOAD AMPS	1.5	1.86	1.86
MOTOR	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1050	1050	1050
EVAPORATOR	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	10 X 8
BLOWER	HI EFFICIENCY COOLING CFM	850	1,050	1,200
	5 TON NOMINAL COOLING CFM	NA	NA	NA
	FAN ONLY COOLING CFM	800	950	1,100
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR	FACE AREA - SQ. FT.	5.25	4.67	5.2
COIL	NUMBER OF ROWS	3	4	3
	FINS PER INCH	16	16	14
GENERAL	FILTER SIZE - SQ. FT. *	20 x 20 x 1	20 x 25 x 1	25 x 25 x 1
INFORMATION	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE	ORIFICE (0.057)	ORIFICE (0.060)	ORIFICE (0.065)
	REFRIGERANT CHARGE R-410A (Oz.)	83	78	80
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES)	3/4, 1, 1-1/4	3/4, 1, 1-1/4	3/4, 1, 1-1/4
	LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES)	1/2	1/2	1/2
	SHIPPING WEIGHT LBS.	310	310	370
	OPERATING WEIGHT LBS.	300	300	360

(1) Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.
* Calculated external filter size based on air velocity of 300 ft/min.

Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

Unit specifications are subject to change without notice. **ALWAYS** refer to the units serial plate for the most up-to-date general and electrical information.

IMPORTANT: While this data is presented as a guide, it is important to electrically connect the unit and properly size wires and fuses/circuit breakers in accordance with the National Electrical Code and/or all local codes. Data shown is w/o electric heaters.

⚠ WARNING **All wires and overcurrent protection devices are sized for use with electric heaters only and without refrigeration. If heaters are not installed with above wire size, overheating and fire could occur. See PACKAGE COOLING SPECIFICATIONS section for minimum circuit ampacity and maximum overcurrent protection during refrigeration cycle.**

PACKAGE COOLING SPECIFICATIONS GPC14[42-60]H41*

		GPC1442H41*	GPC1448H41*	GPC1460H41*
COOLING CAPACITY	COOLING CAPACITY, BTUH	40,500	46,500	57,500
	SEER / EER	14.5 / 12.0	14.5 / 12.1	14.2 / 12.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208-230/1/60	208-230/1/60	208-230/1/60
	AMPS (TOTAL)	22.2	24.2	30.7
	MINIMUM CIRCUIT AMPACITY	26.6	29.1	37.3
	MAXIMUM OVERCURRENT PROTECTION (1)	40	45	60
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	17.9	19.9	26.4
	LOCKED ROTOR AMPS	112	109	134
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1075	1075	1075
	FULL LOAD AMPS	1.4	1.4	1.4
	LOCKED ROTOR AMPS	2.9	2.9	2.9
CONDENSER FAN	BLADE DIAMETER (INCHES) / NUMBER OF BLADES	22 / 4	22 / 4	22 / 4
CONDENSER COIL	FACE AREA - SQ. FT.	17.0	19.1	19.1
	NUMBER OF ROWS	1	1	2
	FINS PER INCH	24	21	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	3/4 - 5	3/4 - 5
	FULL LOAD AMPS	2.9	2.9	2.9
	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1050	1050	1050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 x 8	10 x 8	11 x 8
	HI EFFICIENCY COOLING CFM	1,300	1,600	1,600
	5 TON NOMINAL COOLING CFM	NA	NA	1,800
	FAN ONLY COOLING CFM	1,200	1,400	1,600
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA - SQ. FT.	6.2	6.2	7.0
	NUMBER OF ROWS	4	4	4
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE - SQ. FT. *	(2) 20 x 20 x 1	(2) 20 x 20 x 1	(2) 20 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE	ORIFICE (0.072)	ORIFICE (0.076)	ORIFICE (0.088)
	REFRIGERANT CHARGE R-410A (Oz.)	118	123	188
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES)	3/4, 1, 1-1/4	3/4, 1, 1-1/4	3/4, 1, 1-1/4
	LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES)	1/2	1/2	1/2
	SHIPPING WEIGHT LBS.	370	400	400
	OPERATING WEIGHT LBS.	360	390	390

(1) Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.
* Calculated external filter size based on air velocity of 300 ft/min.

Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.
Unit specifications are subject to change without notice. **ALWAYS** refer to the units serial plate for the most up-to-date general and electrical information.

IMPORTANT: While this data is presented as a guide, it is important to electrically connect the unit and properly size wires and fuses/circuit breakers in accordance with the National Electrical Code and/or all local codes. Data shown is w/o electric heaters.

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ACCESSORIES - GPC/GPH****H UNITS	
Part Number	**Description**
OT18-60A	Outdoor Thermostat Kit w/Lockout Stat
OT/EHR18-60	Emergency Heat Relay Kit
HKR	Electric Heat Kit
PCCP101-103	Roof Curb
PCP101-103	Downflow Plenum Kit
PCP101-103R8	Downflow Plenum Kit w/ R-8 Insulation
PCEC101-103	Downflow Economizer for GPC-(H) A/C - To Be Used With PCP101-103
PCEH101-103	Downflow Economizer for GPH-(H) Heat Pump - To Be Used With PCP101-103
PCMD101-103	Manual Damper - To Be Used With PCP101-103
PCMDM101-103	Motorized Damper - To Be Used With PCP101-103
GPHMD101-103	Manual Damper for Horizontal Applications
SQRPCH101	Square to Round Adapters 16"&14"
SQRPCH102-103	Square to Round Adapters 18"&14"
SQRPC101	Square to Round Adapter - For Use With PCCP101-103 Curb 16" Rounds
SQRPC102-103	Square to Round Adapter For Use With PCCP101-103 Curb 18" Rounds
PCFR101-103	External Horizontal Filter Rack
PCEF101-103	Elbow & Flashing w/ R-8 Liner
CDK36	Flush Mount Concentric Duct Kit
CDK36515	Flush Mount Concentric Duct Kit w/ Filter
CDK36530	Step Down Concentric Duct Kit
CDK36535	Step Down Concentric Duct Kit w/ Filter
CDK4872	Flush Mount Concentric Duct Kit
CDK4872515	Flush Mount Concentric Duct Kit w/ Filter
CDK4872530	Step Down Concentric Duct Kit
CDK4872535	Step Down Concentric Duct Kit w/ Filter

BLOWER PERFORMANCE DATA GPC14[24-60]H41A*

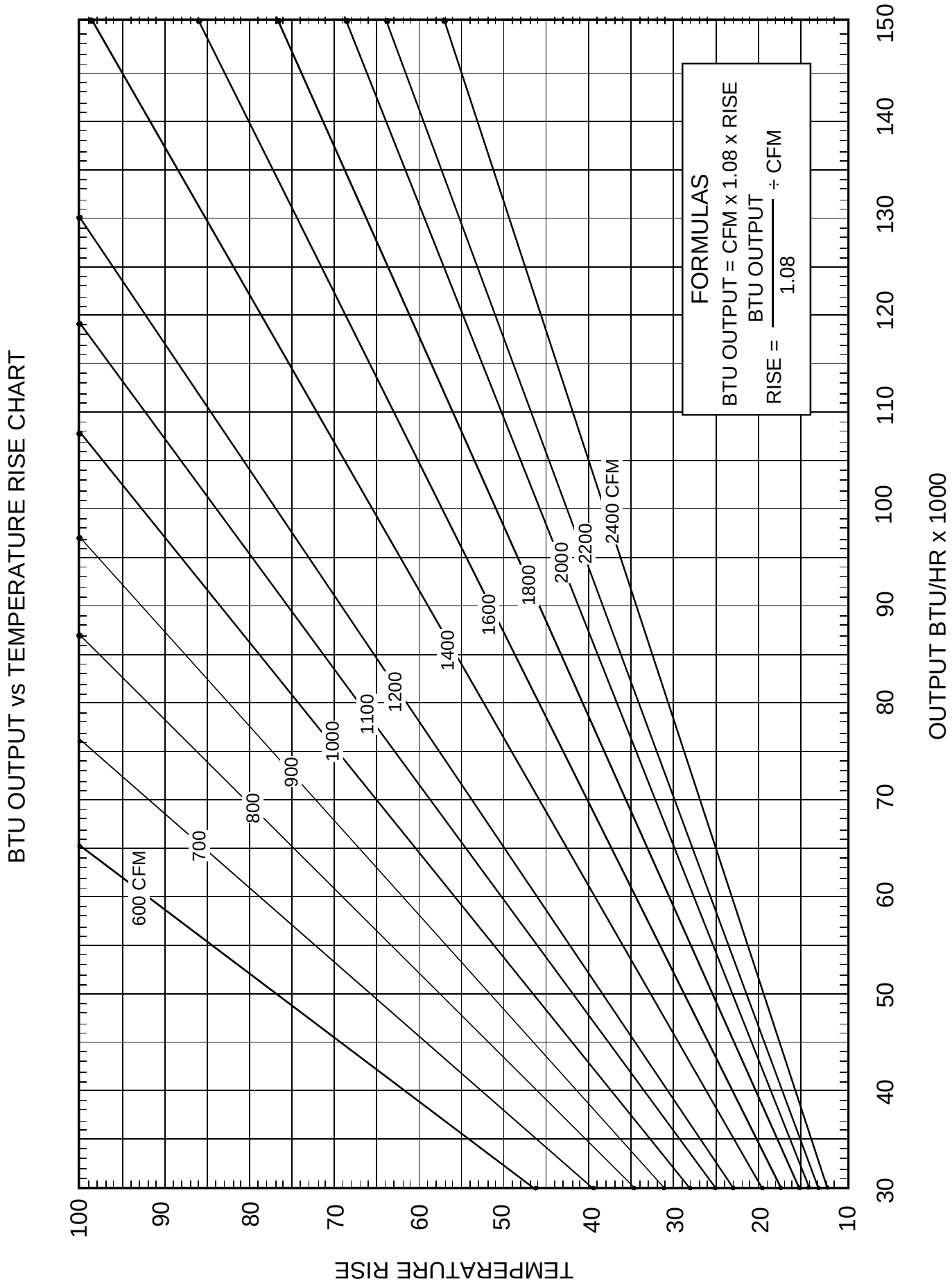
Dry Coil Data

Model	Speed	Volts		E.S.P (In. of H_2O)							
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
GPC1424H41**	T1	230	CFM	934	759	755	638	581	489	-	-
			WATTS	95	77	76	73	83	90	-	-
	T2,T3	230	CFM	990	837	801	744	696	652	601	-
			WATTS	107	94	105	110	119	133	142	-
	T4, T5	230	CFM	1061	989	947	925	876	-	-	-
			WATTS	126	134	146	158	169	-	-	-
GPC1430H41**	T1	230	CFM	1022	929	894	829	797	748	695	643
			WATTS	116	114	126	134	144	156	168	173
	T2,T3	230	CFM	1103	1063	1012	962	937	-	-	-
			WATTS	142	154	165	173	185	-	-	-
	T4, T5	230	CFM	1285	1240	1202	1163	1124	1076	1046	1003
			WATTS	205	218	231	244	257	268	280	288
GPC1436H41**	T1	230	CFM	1234	1111	1071	1024	933	922	-	-
			WATTS	144	140	152	164	179	183	-	-
	T2,T3	230	CFM	1287	1232	1186	1133	1099	1053	-	-
			WATTS	162	175	187	201	213	221	-	-
	T4, T5	230	CFM	1381	1325	1277	1233	1181	1144	-	-
			WATTS	195	203	217	233	247	258	-	-
GPC1442H41**	T1	230	CFM	1272	1197	1145	1106	1055	998	947	906
			WATTS	160	168	183	191	211	220	230	243
	T2,T3	230	CFM	1357	1297	1244	1194	1147	1099	1049	1008
			WATTS	188	202	213	228	245	255	267	284
	T4, T5	230	CFM	1537	1478	1431	1386	1336	1293	1253	1208
			WATTS	244	258	274	288	303	317	329	341
GPC1448H41**	T1	230	CFM	1418	1383	1349	1312	1275	1228	1178	1141
			WATTS	242	258	273	282	299	308	320	338
	T2,T3	230	CFM	1175	1635	1645	1515	1510	1450	1430	1400
			WATTS	395	420	435	445	455	465	470	475
	T4, T5	230	CFM	1845	1790	1715	1685	1590	1580	1530	1500
			WATTS	490	505	520	535	550	560	570	575
GPC1460H41**	T1, T2, T3	230	CFM	1775	1635	1645	1515	1510	1450	1430	1400
			WATTS	395	420	435	445	455	465	470	475
	T4, T5	230	CFM	2025	1900	1840	1780	1725	1650	1620	1580
			WATTS	575	595	620	630	645	655	660	670

NOTES:

1. Data shown is dry coil. Wet coil pressure drop is approx.
2. 0.1" H_2O, for 2 row indoor coil; 0.2" H_2O, for 3 row indoor coil; and 0.3" H_2O, for 4 row indoor coil.
3. Data shown does not include filter pressure drop, approx. 0.08" H_2O.
4. Reduce airflow by 2% for 208V operation.

BLOWER PERFORMANCE DATA



MODEL: GPC1424H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 9 ± 2°F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5 ± 2°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	955	MBh	24.1	25.0	27.4	-	23.5	24.4	26.7	-	23.0	23.8	26.1	-	22.4	23.2	25.5	-	21.3	22.1	24.2	-	19.7	20.5	22.4	-
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-
		KW	1.57	1.60	1.66	-	1.70	1.73	1.79	-	1.81	1.85	1.91	-	1.91	1.95	2.02	-	1.99	2.04	2.11	-	2.06	2.11	2.19	-
		AMPS	6.6	6.8	7.0	-	7.1	7.3	7.5	-	7.7	7.9	8.1	-	8.2	8.4	8.7	-	8.7	8.9	9.2	-	9.2	9.4	9.7	-
		HI PR	233	251	265	-	262	282	298	-	298	321	338	-	339	365	386	-	382	411	434	-	422	454	479	-
		LO PR	111	118	129	-	118	125	137	-	122	130	142	-	128	137	149	-	135	143	156	-	139	148	162	-
	850	MBh	23.4	24.3	26.6	-	22.9	23.7	26.0	-	22.3	23.1	25.3	-	21.8	22.6	24.7	-	20.7	21.4	23.5	-	19.2	19.9	21.8	-
		S/T	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.81	0.68	0.47	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	1.56	1.59	1.64	-	1.68	1.72	1.78	-	1.79	1.83	1.90	-	1.89	1.93	2.00	-	1.97	2.02	2.09	-	2.05	2.09	2.17	-
		AMPS	6.6	6.7	6.9	-	7.1	7.2	7.5	-	7.7	7.8	8.1	-	8.1	8.3	8.6	-	8.6	8.8	9.1	-	9.1	9.3	9.6	-
		HI PR	231	249	263	-	259	279	295	-	295	317	335	-	336	361	382	-	378	407	429	-	418	449	474	-
		LO PR	110	117	128	-	116	124	135	-	121	129	141	-	127	135	148	-	133	142	155	-	138	147	160	-
	745	MBh	21.6	22.4	24.5	-	21.1	21.9	24.0	-	20.6	21.3	23.4	-	20.1	20.8	22.8	-	19.1	19.8	21.7	-	17.7	18.3	20.1	-
		S/T	0.68	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.78	0.66	0.45	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	1.52	1.55	1.60	-	1.64	1.68	1.73	-	1.75	1.79	1.85	-	1.84	1.88	1.95	-	1.92	1.97	2.03	-	1.99	2.04	2.11	-
		AMPS	6.4	6.6	6.8	-	6.9	7.1	7.3	-	7.5	7.6	7.9	-	7.9	8.1	8.4	-	8.4	8.6	8.9	-	8.9	9.1	9.4	-
		HI PR	224	241	255	-	252	271	286	-	286	308	325	-	326	351	370	-	367	394	417	-	405	436	460	-
		LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	134	142	155	-
75	955	MBh	24.5	25.2	27.3	29.3	23.9	24.7	26.7	28.6	23.4	24.1	26.0	28.0	22.8	**23.5**	25.4	27.3	21.7	22.3	24.1	25.9	20.1	20.7	22.4	24.0
		S/T	0.84	0.76	0.57	0.37	0.88	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	**0.83**	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		Delta T	20	18	15	10	20	19	15	11	20	19	15	11	20	**19**	15	11	20	18	15	10	19	17	14	10
		KW	1.58	1.62	1.67	1.73	1.71	1.75	1.81	1.87	1.82	1.87	1.93	2.00	1.92	**1.97**	2.04	2.11	2.01	2.06	2.13	2.20	2.08	2.13	2.20	2.28
		AMPS	6.7	6.8	7.1	7.3	7.2	7.4	7.6	7.9	7.8	8.0	8.2	8.5	8.3	**8.5**	8.7	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.2
		HI PR	236	254	268	279	265	285	301	314	301	324	342	357	343	**369**	389	406	386	415	438	457	426	458	484	505
		LO PR	112	120	131	139	119	126	138	147	123	131	143	153	130	**138**	151	160	136	145	158	168	141	150	163	174
	850	MBh	23.8	24.5	26.5	28.5	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	**22.8**	24.7	26.5	21.0	21.7	23.4	25.2	19.5	20.1	21.7	23.3
		S/T	0.81	0.72	0.55	0.35	0.83	0.75	0.57	0.36	0.86	0.77	0.58	0.37	0.88	**0.79**	0.60	0.38	0.92	0.82	0.62	0.40	0.92	0.83	0.63	0.40
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	15	10
		KW	1.57	1.60	1.66	1.71	1.70	1.73	1.79	1.85	1.81	1.85	1.91	1.98	1.91	**1.95**	2.02	2.09	1.99	2.04	2.11	2.18	2.06	2.11	2.19	2.26
		AMPS	6.6	6.8	7.0	7.2	7.1	7.3	7.5	7.8	7.7	7.9	8.1	8.4	8.2	**8.4**	8.7	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.1
		HI PR	233	251	265	277	262	282	298	310	298	321	339	353	339	**365**	386	402	382	411	434	452	422	454	479	500
		LO PR	111	118	129	138	118	125	137	145	122	130	142	151	128	**137**	149	159	135	143	156	166	139	148	162	172
	745	MBh	22.0	22.6	24.5	26.3	21.5	22.1	23.9	25.7	20.9	21.6	23.3	25.1	20.4	**21.0**	22.8	24.4	19.4	20.0	21.6	23.2	18.0	18.5	20.0	21.5
		S/T	0.78	0.69	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	0.85	**0.76**	0.58	0.37	0.88	0.79	0.60	0.39	0.89	0.80	0.60	0.39
		Delta T	21	19	16	11	21	20	16	11	21	20	16	11	21	**20**	16	11	21	20	16	11	20	18	15	10
		KW	1.53	1.56	1.61	1.67	1.65	1.69	1.75	1.81	1.76	1.80	1.86	1.93	1.86	**1.90**	1.97	2.03	1.94	1.98	2.05	2.12	2.01	2.06	2.13	2.20
		AMPS	6.5	6.6	6.8	7.1	7.0	7.1	7.3	7.6	7.5	7.7	7.9	8.2	8.0	**8.2**	8.4	8.7	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8
		HI PR	226	244	257	268	254	273	289	301	289	311	328	343	329	**354**	374	390	370	398	421	439	409	440	465	485
		LO PR	108	115	125	134	114	121	133	141	119	126	138	147	125	**133**	145	154	131	139	152	161	135	144	157	167

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPC1424H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 9 ± 2°F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5 ± 2°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	955	MBh	25.0	25.5	27.2	29.1	24.4	24.9	26.6	28.4	23.8	24.3	26.0	27.8	23.2	23.7	25.3	27.1	22.0	22.5	24.1	25.7	20.4	20.9	22.3	23.8
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.81	0.61
		Delta T	22	21	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	22	19	15	20	20	17	14
		KW	1.60	1.63	1.69	1.74	1.72	1.76	1.82	1.89	1.84	1.88	1.95	2.01	1.94	1.99	2.05	2.13	2.03	2.07	2.15	2.22	2.10	2.15	2.22	2.30
		AMPS	6.8	6.9	7.1	7.4	7.3	7.4	7.7	7.9	7.9	8.0	8.3	8.6	8.4	8.6	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.6	9.9	10.3
		HI PR	238	256	271	282	267	288	304	317	304	327	345	360	346	373	393	410	389	419	443	462	430	463	489	510
		LO PR	114	121	132	140	120	128	139	148	125	133	145	154	131	139	152	162	137	146	159	170	142	151	165	176
	850	MBh	24.2	24.8	26.4	28.3	23.7	24.2	25.8	27.6	23.1	23.6	25.2	27.0	22.5	23.0	**24.6**	26.3	21.4	21.9	23.4	25.0	19.8	20.3	21.6	23.1
		S/T	0.88	0.83	0.67	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	**0.74**	0.55	1.00	0.94	0.77	0.57	1.00	0.95	0.77	0.58
		Delta T	23	22	19	15	23	22	20	16	23	22	20	16	24	23	**20**	16	23	22	19	16	21	21	18	14
		KW	1.58	1.62	1.67	1.73	1.71	1.75	1.81	1.87	1.82	1.87	1.93	2.00	1.92	1.97	**2.04**	2.11	2.01	2.06	2.13	2.20	2.08	2.13	2.21	2.28
		AMPS	6.7	6.8	7.1	7.3	7.2	7.4	7.6	7.9	7.8	8.0	8.2	8.5	8.3	8.5	**8.8**	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.2
		HI PR	236	254	268	279	265	285	301	314	301	324	342	357	343	369	**390**	406	386	415	438	457	426	458	484	505
		LO PR	112	120	131	139	119	126	138	147	123	131	143	153	130	138	**151**	160	136	145	158	168	141	150	163	174
	745	MBh	22.4	22.8	24.4	26.1	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	19.8	20.2	21.6	23.1	18.3	18.7	20.0	21.4
		S/T	0.85	0.80	0.65	0.49	0.88	0.83	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.88	0.71	0.53	0.97	0.91	0.74	0.55	0.98	0.92	0.75	0.56
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15
		KW	1.54	1.58	1.63	1.68	1.67	1.70	1.76	1.82	1.78	1.82	1.88	1.94	1.87	1.92	1.98	2.05	1.96	2.00	2.07	2.14	2.03	2.07	2.15	2.22
		AMPS	6.5	6.7	6.9	7.1	7.0	7.2	7.4	7.7	7.6	7.8	8.0	8.3	8.1	8.3	8.5	8.8	8.6	8.8	9.0	9.4	9.0	9.3	9.6	9.9
		HI PR	229	246	260	271	257	276	292	304	292	314	332	346	332	358	378	394	374	403	425	443	413	445	470	490
		LO PR	109	116	127	135	115	123	134	143	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169

NOTE: Shaded area reflects AHRI rating conditions

85	955	MBh	25.4	25.9	27.1	28.9	24.8	25.3	26.5	28.2	24.2	24.7	25.8	27.6	23.6	24.1	25.2	26.9	22.4	22.9	24.0	25.6	20.8	21.2	22.2	23.7
		S/T	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		Delta T	24	23	22	19	24	24	22	19	23	24	22	19	23	23	23	19	22	22	22	19	20	20	21	18
		KW	1.61	1.64	1.70	1.76	1.74	1.78	1.84	1.90	1.86	1.90	1.96	2.03	1.96	2.00	2.07	2.14	2.04	2.09	2.16	2.24	2.12	2.17	2.24	2.32
		AMPS	6.8	7.0	7.2	7.4	7.3	7.5	7.7	8.0	7.9	8.1	8.4	8.7	8.4	8.6	8.9	9.2	8.9	9.2	9.5	9.8	9.5	9.7	10.0	10.4
		HI PR	241	259	273	285	270	290	307	320	307	330	349	364	350	376	397	414	393	423	447	466	435	468	494	515
		LO PR	115	122	133	142	121	129	141	150	126	134	146	156	132	141	154	164	139	148	161	172	143	153	167	177
	850	MBh	24.6	25.1	26.3	28.1	24.1	24.5	25.7	27.4	23.5	24.0	25.1	26.8	22.9	23.4	24.5	26.1	21.8	22.2	23.3	24.8	20.2	20.6	21.5	23.0
		S/T	0.93	0.89	0.81	0.65	0.96	0.93	0.84	0.68	0.98	0.95	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	22	22	19
		KW	1.60	1.63	1.69	1.74	1.72	1.76	1.82	1.89	1.84	1.88	1.95	2.01	1.94	1.99	2.05	2.13	2.03	2.07	2.15	2.22	2.10	2.15	2.22	2.30
		AMPS	6.8	6.9	7.1	7.4	7.3	7.4	7.7	7.9	7.9	8.0	8.3	8.6	8.4	8.6	8.8	9.1	8.9	9.1	9.4	9.7	9.4	9.6	9.9	10.3
		HI PR	238	256	271	282	267	288	304	317	304	327	345	360	346	373	393	410	389	419	443	462	430	463	489	510
		LO PR	114	121	132	140	120	128	139	148	125	133	145	154	131	139	152	162	137	146	159	170	142	151	165	176
	745	MBh	22.7	23.2	24.3	25.9	22.2	22.6	23.7	25.3	21.7	22.1	23.2	24.7	21.2	21.6	22.6	24.1	20.1	20.5	21.5	22.9	18.6	19.0	19.9	21.2
		S/T	0.89	0.86	0.78	0.63	0.93	0.89	0.81	0.65	0.95	0.92	0.83	0.67	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	0.99	0.89	0.72
		Delta T	25	25	23	20	25	25	24	20	25	25	24	20	26	25	24	21	25	25	23	20	23	23	22	19
		KW	1.56	1.59	1.64	1.70	1.68	1.72	1.78	1.84	1.79	1.83	1.90	1.96	1.89	1.93	2.00	2.07	1.97	2.02	2.09	2.16	2.05	2.09	2.17	2.24
		AMPS	6.6	6.7	6.9	7.2	7.1	7.2	7.5	7.7	7.7	7.8	8.1	8.4	8.1	8.3	8.6	8.9	8.6	8.8	9.1	9.4	9.1	9.3	9.6	10.0
		HI PR	231	249	263	274	259	279	295	307	295	317	335	349	336	361	382	398	378	407	429	448	417	449	474	495
		LO PR	110	117	128	136	116	124	135	144	121	129	141	150	127	135	148	157	133	142	155	165	138	147	160	170

* NOTE: Shaded area is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: GPC1430H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 10 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1180	MBh	27.8	28.8	31.6	-	27.2	28.2	30.9	-	26.5	27.5	30.1	-	25.9	26.8	29.4	-	24.6	25.5	27.9	-	22.8	23.6	25.9	-
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.73	0.50	-
		Delta T	16	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	15	13	10	-
		KW	1.86	1.90	1.96	-	2.01	2.06	2.12	-	2.14	2.19	2.27	-	2.26	2.31	2.39	-	2.36	2.41	2.50	-	2.44	2.50	2.59	-
		AMPS	7.7	7.9	8.1	-	8.3	8.5	8.7	-	8.9	9.1	9.4	-	9.5	9.7	10.0	-	10.1	10.3	10.7	-	10.7	10.9	11.3	-
		HI PR	240	258	272	-	269	289	305	-	306	329	347	-	348	375	396	-	392	421	445	-	433	466	492	-
		LO PR	111	119	129	-	118	125	137	-	122	130	142	-	128	137	149	-	135	143	156	-	139	148	162	-
	1050	MBh	27.0	28.0	30.7	-	26.4	27.4	30.0	-	25.8	26.7	29.3	-	25.1	26.1	28.5	-	23.9	24.7	27.1	-	22.1	22.9	25.1	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.45	-	0.80	0.66	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	11	-	17	15	11	-	16	14	11	-
		KW	1.84	1.89	1.95	-	1.99	2.04	2.11	-	2.12	2.17	2.25	-	2.24	2.29	2.37	-	2.34	2.39	2.47	-	2.42	2.48	2.56	-
		AMPS	7.6	7.8	8.0	-	8.2	8.4	8.6	-	8.9	9.1	9.3	-	9.4	9.6	10.0	-	10.0	10.2	10.6	-	10.6	10.8	11.2	-
		HI PR	237	255	269	-	266	286	302	-	303	326	344	-	345	371	392	-	388	417	441	-	428	461	487	-
		LO PR	110	117	128	-	117	124	135	-	121	129	141	-	127	135	148	-	133	142	155	-	138	147	160	-
	920	MBh	24.9	25.8	28.3	-	24.4	25.2	27.7	-	23.8	24.6	27.0	-	23.2	24.0	26.3	-	22.0	22.8	25.0	-	20.4	21.2	23.2	-
		S/T	0.70	0.58	0.40	-	0.72	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.66	0.46	-	0.80	0.67	0.46	-
		Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-
		KW	1.80	1.84	1.90	-	1.94	1.99	2.05	-	2.07	2.12	2.19	-	2.18	2.23	2.31	-	2.28	2.33	2.41	-	2.36	2.41	2.50	-
		AMPS	7.4	7.6	7.8	-	8.0	8.2	8.4	-	8.6	8.8	9.1	-	9.2	9.4	9.7	-	9.7	10.0	10.3	-	10.3	10.5	10.9	-
		HI PR	230	248	261	-	258	278	293	-	294	316	334	-	334	360	380	-	376	405	427	-	416	447	472	-
		LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	138	150	-	134	142	155	-
75	1180	MBh	28.3	29.1	31.5	33.9	27.6	28.5	30.8	33.1	27.0	27.8	30.1	32.3	26.3	**27.1**	29.3	31.5	25.0	25.8	27.9	29.9	23.2	23.9	25.8	27.7
		S/T	0.86	0.77	0.58	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	**0.85**	0.64	0.41	0.98	0.88	0.67	0.43	0.99	0.89	0.67	0.43
		Delta T	19	18	14	10	19	18	15	10	19	18	15	10	19	**18**	15	10	19	18	14	10	18	16	14	9
		KW	1.88	1.92	1.98	2.05	2.03	2.07	2.14	2.22	2.16	2.21	2.29	2.36	2.28	**2.33**	2.41	2.49	2.38	2.43	2.52	2.61	2.47	2.52	2.61	2.70
		AMPS	7.8	7.9	8.2	8.5	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.8	9.6	**9.8**	10.1	10.5	10.2	10.4	10.7	11.1	10.8	11.0	11.4	11.8
		HI PR	242	260	275	287	272	292	309	322	309	332	351	366	352	**378**	400	417	396	426	450	469	437	470	497	518
		LO PR	113	120	131	139	119	126	138	147	124	131	143	153	130	**138**	151	161	136	145	158	168	141	150	163	174
	1050	MBh	27.5	28.3	30.6	32.9	26.8	27.6	29.9	32.1	26.2	27.0	29.2	31.3	25.6	**26.3**	28.5	30.6	24.3	25.0	27.1	29.0	22.5	23.2	25.1	26.9
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.90	**0.81**	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		Delta T	20	18	15	10	20	18	15	10	20	19	15	10	20	**19**	15	11	20	18	15	10	19	17	14	10
		KW	1.86	1.90	1.96	2.03	2.01	2.06	2.12	2.20	2.14	2.19	2.27	2.34	2.26	**2.31**	2.39	2.47	2.36	2.41	2.50	2.58	2.44	2.50	2.59	2.68
		AMPS	7.7	7.9	8.1	8.4	8.3	8.5	8.7	9.0	8.9	9.1	9.4	9.8	9.5	**9.7**	10.0	10.4	10.1	10.3	10.7	11.0	10.7	10.9	11.3	11.7
		HI PR	240	258	272	284	269	289	305	319	306	329	347	362	348	**375**	396	413	392	422	445	464	433	466	492	513
		LO PR	111	119	129	138	118	125	137	146	122	130	142	151	128	**137**	149	159	135	143	156	167	139	148	162	172
	920	MBh	25.4	26.1	28.3	30.3	24.8	25.5	27.6	29.6	24.2	24.9	26.9	28.9	23.6	**24.3**	26.3	28.2	22.4	23.1	25.0	26.8	20.8	21.4	23.1	24.8
		S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.76	0.57	0.37	0.87	**0.78**	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.82	0.62	0.40
		Delta T	20	19	15	10	20	19	15	11	20	19	15	11	21	**19**	16	11	20	19	15	11	19	17	14	10
		KW	1.81	1.85	1.92	1.98	1.96	2.00	2.07	2.14	2.09	2.14	2.21	2.28	2.20	**2.25**	2.33	2.41	2.30	2.35	2.43	2.52	2.38	2.44	2.52	2.61
		AMPS	7.5	7.7	7.9	8.2	8.1	8.2	8.5	8.8	8.7	8.9	9.2	9.5	9.3	**9.5**	9.8	10.1	9.8	10.1	10.4	10.7	10.4	10.6	11.0	11.4
		HI PR	232	250	264	275	261	281	296	309	297	319	337	351	338	**363**	384	400	380	409	432	450	420	452	477	498
		LO PR	108	115	126	134	114	121	133	141	119	126	138	147	125	**133**	145	154	131	139	152	162	135	144	157	167

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPC1430H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 10 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1180	MBh	28.8	29.4	31.4	33.6	28.1	28.7	30.7	32.8	27.5	28.1	30.0	32.1	26.8	27.4	29.3	31.3	25.5	26.0	27.8	29.7	23.6	24.1	25.7	27.5
		S/T	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.62	1.00	1.00	0.83	0.62
		Delta T	21	20	18	14	22	21	18	14	21	21	18	14	21	21	18	14	20	20	18	14	18	19	17	13
		KW	1.89	1.93	2.00	2.07	2.04	2.09	2.16	2.23	2.18	2.23	2.30	2.38	2.30	2.35	2.43	2.52	2.40	2.46	2.54	2.63	2.49	2.55	2.63	2.73
		AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.3	9.6	9.9	9.7	9.9	10.2	10.6	10.3	10.5	10.8	11.2	10.9	11.1	11.5	11.9
		HI PR	244	263	278	290	274	295	312	325	312	336	354	370	355	382	404	421	400	430	454	474	442	475	502	523
		LO PR	114	121	132	141	120	128	139	149	125	133	145	154	131	139	152	162	137	146	160	170	142	151	165	176
	1050	MBh	28.0	28.6	30.5	32.6	27.3	27.9	29.8	31.9	26.7	27.2	29.1	31.1	26.0	26.6	**28.4**	30.4	24.7	25.3	27.0	28.8	22.9	23.4	25.0	26.7
		S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	0.99	0.93	**0.76**	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59
		Delta T	22	21	18	15	22	21	19	15	22	21	19	15	23	22	**19**	15	22	21	19	15	20	20	17	14
		KW	1.88	1.92	1.98	2.05	2.03	2.07	2.14	2.22	2.16	2.21	2.29	2.36	2.28	2.33	**2.41**	2.49	2.38	2.43	2.52	2.61	2.47	2.52	2.61	2.70
		AMPS	7.8	7.9	8.2	8.5	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.8	9.6	9.8	**10.1**	10.5	10.2	10.4	10.7	11.1	10.8	11.0	11.4	11.8
		HI PR	242	260	275	287	272	292	309	322	309	332	351	366	352	379	**400**	417	396	426	450	469	437	470	497	518
		LO PR	113	120	131	139	119	126	138	147	124	131	144	153	130	138	**151**	161	136	145	158	168	141	150	163	174
	920	MBh	25.8	26.4	28.2	30.1	25.2	25.8	27.5	29.4	24.6	25.1	26.9	28.7	24.0	24.5	26.2	28.0	22.8	23.3	24.9	26.6	21.1	21.6	23.1	24.7
		S/T	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.76	0.57
		Delta T	22	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	21	20	18	14
		KW	1.83	1.87	1.93	2.00	1.98	2.02	2.09	2.16	2.11	2.15	2.23	2.30	2.22	2.27	2.35	2.43	2.32	2.37	2.45	2.54	2.40	2.46	2.54	2.63
		AMPS	7.6	7.7	8.0	8.2	8.1	8.3	8.6	8.9	8.8	9.0	9.3	9.6	9.3	9.6	9.9	10.2	9.9	10.1	10.5	10.8	10.5	10.7	11.1	11.5
		HI PR	235	253	267	278	263	283	299	312	300	322	340	355	341	367	388	404	384	413	436	455	424	456	482	503
		LO PR	109	116	127	135	115	123	134	143	120	128	139	148	126	134	146	156	132	140	153	163	136	145	159	169

NOTE: Shaded area reflects AHRI rating conditions

85	1180	MBh	29.3	29.9	31.3	33.4	28.6	29.2	30.6	32.6	27.9	28.5	29.8	31.8	27.3	27.8	29.1	31.1	25.9	26.4	27.7	29.5	24.0	24.5	25.6	27.3
		S/T	0.99	0.96	0.87	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	0.99	0.81
		Delta T	23	22	21	18	22	23	21	18	22	22	21	18	21	22	22	19	20	21	21	18	19	19	20	17
		KW	1.91	1.95	2.01	2.08	2.06	2.11	2.18	2.25	2.20	2.25	2.32	2.41	2.32	2.37	2.45	2.54	2.42	2.48	2.56	2.65	2.51	2.57	2.66	2.75
		AMPS	7.9	8.1	8.3	8.6	8.5	8.7	8.9	9.3	9.2	9.4	9.7	10.0	9.8	10.0	10.3	10.7	10.4	10.6	10.9	11.3	10.9	11.2	11.6	12.0
		HI PR	247	266	281	293	277	298	315	328	315	339	358	373	359	386	408	425	404	434	459	478	446	480	507	529
		LO PR	115	122	133	142	121	129	141	150	126	134	146	156	132	141	154	164	139	148	161	172	144	153	167	178
	1050	MBh	28.5	29.0	30.4	32.4	27.8	28.3	29.7	31.7	27.1	27.7	29.0	30.9	26.5	27.0	28.3	30.1	25.1	25.6	26.8	28.6	23.3	23.7	24.9	26.5
		S/T	0.95	0.91	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		Delta T	24	23	22	19	24	24	22	19	24	24	22	19	23	24	22	19	22	22	22	19	20	21	21	18
		KW	1.89	1.93	2.00	2.07	2.04	2.09	2.16	2.23	2.18	2.23	2.30	2.38	2.30	2.35	2.43	2.52	2.40	2.46	2.54	2.63	2.49	2.55	2.63	2.73
		AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.3	9.6	9.9	9.7	9.9	10.2	10.6	10.3	10.5	10.8	11.2	10.9	11.1	11.5	11.9
		HI PR	244	263	278	290	274	295	312	325	312	336	354	370	355	382	404	421	400	430	454	474	442	475	502	523
		LO PR	114	121	132	141	120	128	139	149	125	133	145	154	131	139	152	162	137	146	160	170	142	151	165	176
	920	MBh	26.3	26.8	28.0	29.9	25.7	26.1	27.4	29.2	25.0	25.5	26.7	28.5	24.4	24.9	26.1	27.8	23.2	23.7	24.8	26.4	21.5	21.9	23.0	24.5
		S/T	0.91	0.88	0.80	0.65	0.95	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.73	1.00	1.00	0.91	0.74
		Delta T	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	23	24	22	19	21	22	21	18
		KW	1.84	1.89	1.95	2.01	1.99	2.04	2.11	2.18	2.12	2.17	2.25	2.32	2.24	2.29	2.37	2.45	2.34	2.39	2.47	2.56	2.42	2.48	2.56	2.65
		AMPS	7.6	7.8	8.0	8.3	8.2	8.4	8.6	8.9	8.9	9.1	9.3	9.7	9.4	9.6	10.0	10.3	10.0	10.2	10.6	10.9	10.6	10.8	11.2	11.6
		HI PR	237	255	269	281	266	286	302	315	303	326	344	359	345	371	392	408	388	417	441	459	428	461	487	508
		LO PR	110	117	128	136	116	124	135	144	121	129	141	150	127	135	148	157	133	142	155	165	138	147	160	171

* NOTE: Shaded area is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: GPC1436H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ±2 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 9 ±2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1349	MBh	34.9	36.2	39.6	-	34.1	35.3	38.7	-	33.3	34.5	37.8	-	32.5	33.6	36.9	-	30.8	32.0	35.0	-	28.6	29.6	32.4	-
		S/T	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.73	0.51	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	2.33	2.38	2.45	-	2.51	2.57	2.65	-	2.67	2.73	2.82	-	2.81	2.88	2.97	-	2.93	3.00	3.10	-	3.04	3.11	3.21	-
		AMPS	10.5	10.8	11.0	-	11.3	11.5	11.8	-	12.1	12.3	12.7	-	12.8	13.1	13.4	-	13.5	13.8	14.2	-	14.2	14.5	14.9	-
		HI PR	238	256	271	-	267	288	304	-	304	327	345	-	346	372	393	-	389	419	442	-	430	463	489	-
		LO PR	107	114	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	138	151	-	134	143	156	-
	1200	MBh	33.9	35.1	38.5	-	33.1	34.3	37.6	-	32.3	33.5	36.7	-	31.5	32.7	35.8	-	29.9	31.0	34.0	-	27.7	28.7	31.5	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-
		Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	2.31	2.36	2.43	-	2.49	2.54	2.63	-	2.65	2.71	2.80	-	2.79	2.85	2.95	-	2.91	2.97	3.07	-	3.01	3.08	3.18	-
		AMPS	10.5	10.7	11.0	-	11.2	11.4	11.7	-	12.0	12.2	12.6	-	12.7	12.9	13.3	-	13.4	13.7	14.1	-	14.1	14.4	14.8	-
		HI PR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	389	-	386	415	438	-	426	458	484	-
		LO PR	106	113	124	-	112	120	131	-	117	124	136	-	123	131	143	-	129	137	149	-	133	142	155	-
	1052	MBh	31.3	32.4	35.5	-	30.5	31.6	34.7	-	29.8	30.9	33.8	-	29.1	30.1	33.0	-	27.6	28.6	31.4	-	25.6	26.5	29.1	-
		S/T	0.70	0.58	0.41	-	0.73	0.61	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.80	0.67	0.46	-	0.80	0.67	0.47	-
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		KW	2.25	2.30	2.37	-	2.43	2.48	2.56	-	2.58	2.64	2.73	-	2.72	2.78	2.87	-	2.84	2.90	3.00	-	2.94	3.00	3.10	-
		AMPS	10.2	10.4	10.7	-	10.9	11.1	11.4	-	11.7	11.9	12.3	-	12.4	12.6	13.0	-	13.1	13.3	13.7	-	13.7	14.0	14.4	-
		HI PR	229	246	260	-	257	276	292	-	292	314	332	-	332	358	378	-	374	402	425	-	413	445	470	-
		LO PR	103	110	120	-	109	116	127	-	113	121	132	-	119	127	138	-	125	133	145	-	129	137	150	-
75	1349	MBh	35.5	36.5	39.5	42.4	34.7	35.7	38.6	41.4	33.8	34.8	37.7	40.5	33.0	**34.0**	36.8	39.5	31.4	32.3	34.9	37.5	29.0	29.9	32.4	34.7
		S/T	0.87	0.77	0.59	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	**0.85**	0.64	0.41	0.99	0.88	0.67	0.43	0.99	0.89	0.67	0.43
		Delta T	21	19	16	11	21	20	16	11	21	20	16	11	21	**20**	16	11	21	19	16	11	20	18	15	10
		KW	2.35	2.40	2.47	2.56	2.53	2.59	2.67	2.76	2.69	2.75	2.84	2.94	2.84	**2.90**	3.00	3.10	2.96	3.03	3.13	3.24	3.06	3.13	3.24	3.35
		AMPS	10.6	10.8	11.1	11.5	11.3	11.6	11.9	12.3	12.2	12.4	12.8	13.2	12.9	**13.2**	13.5	14.0	13.6	13.9	14.3	14.8	14.3	14.6	15.1	15.6
		HI PR	241	259	273	285	270	290	307	320	307	330	349	364	350	**376**	397	414	393	423	447	466	435	468	494	515
		LO PR	109	116	126	134	115	122	133	142	119	127	138	147	125	**133**	145	155	131	140	152	162	136	144	158	168
	1200	MBh	34.4	35.5	38.4	41.2	33.6	34.6	37.5	40.2	32.8	33.8	36.6	39.3	32.0	**33.0**	35.7	38.3	30.4	31.3	33.9	36.4	28.2	29.0	31.4	33.7
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.78	0.59	0.38	0.91	**0.81**	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	**20**	17	12	22	20	17	11	20	19	15	11
		KW	2.33	2.38	2.45	2.54	2.51	2.57	2.65	2.74	2.67	2.73	2.82	2.92	2.81	**2.88**	2.97	3.07	2.93	3.00	3.10	3.21	3.04	3.11	3.21	3.32
		AMPS	10.5	10.8	11.0	11.4	11.3	11.5	11.8	12.2	12.1	12.3	12.7	13.1	12.8	**13.1**	13.4	13.9	13.5	13.8	14.2	14.7	14.2	14.5	14.9	15.4
		HI PR	238	256	271	282	267	288	304	317	304	327	345	360	346	**373**	393	410	389	419	443	462	430	463	489	510
		LO PR	107	114	125	133	114	121	132	140	118	126	137	146	124	**132**	144	153	130	138	151	161	134	143	156	166
	1052	MBh	31.8	32.7	35.4	38.0	31.1	32.0	34.6	37.1	30.3	31.2	33.8	36.3	29.6	**30.4**	33.0	35.4	28.1	28.9	31.3	33.6	26.0	26.8	29.0	31.1
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.87	**0.78**	0.59	0.38	0.91	0.81	0.61	0.39	0.91	0.82	0.62	0.40
		Delta T	22	20	17	12	22	21	17	12	22	21	17	12	23	**21**	17	12	22	21	17	12	21	19	16	11
		KW	2.27	2.32	2.39	2.47	2.45	2.50	2.58	2.67	2.60	2.66	2.75	2.84	2.74	**2.80**	2.90	2.99	2.86	2.92	3.02	3.12	2.96	3.03	3.13	3.24
		AMPS	10.3	10.5	10.8	11.1	11.0	11.2	11.5	11.9	11.8	12.0	12.4	12.8	12.5	**12.7**	13.1	13.5	13.2	13.4	13.8	14.3	13.8	14.1	14.6	15.0
		HI PR	231	249	263	274	259	279	295	307	295	317	335	349	336	**361**	382	398	378	407	429	448	417	449	474	495
		LO PR	104	111	121	129	110	117	128	136	114	122	133	142	120	**128**	140	149	126	134	146	156	130	139	151	161

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPC1436H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ±2 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 9 ±2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1349	MBh	36.1	36.9	39.4	42.1	35.3	36.0	38.5	41.2	34.4	35.2	37.6	40.2	33.6	34.3	36.7	39.2	31.9	32.6	34.8	37.2	29.6	30.2	32.3	34.5
		S/T	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.59	1.00	1.00	0.83	0.62	1.00	1.00	0.83	0.62
		Delta T	23	22	19	16	24	23	20	16	23	23	20	16	23	23	20	16	22	22	20	16	20	21	18	15
		KW	2.37	2.42	2.50	2.58	2.55	2.61	2.69	2.78	2.72	2.78	2.87	2.97	2.86	2.93	3.02	3.13	2.98	3.05	3.15	3.26	3.09	3.16	3.27	3.38
		AMPS	10.7	10.9	11.2	11.6	11.4	11.7	12.0	12.4	12.3	12.5	12.9	13.3	13.0	13.3	13.6	14.1	13.7	14.0	14.4	14.9	14.4	14.7	15.2	15.7
		HI PR	243	261	276	288	273	293	310	323	310	334	352	368	353	380	401	419	397	428	451	471	439	472	499	520
		LO PR	110	117	127	136	116	123	135	143	120	128	140	149	126	135	147	156	133	141	154	164	137	146	159	170
	1200	MBh	35.1	35.8	38.3	40.9	34.2	35.0	37.4	40.0	33.4	34.2	36.5	39.0	32.6	33.3	**35.6**	38.1	31.0	31.7	33.8	36.2	28.7	29.3	31.3	33.5
		S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.96	0.90	0.73	0.55	0.99	0.93	**0.76**	0.57	1.00	0.97	0.79	0.59	1.00	0.97	0.79	0.59
		Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	**21**	17	24	23	20	16	22	22	19	15
		KW	2.35	2.40	2.48	2.56	2.53	2.59	2.67	2.76	2.69	2.75	2.84	2.94	2.84	2.90	**3.00**	3.10	2.96	3.03	3.13	3.24	3.06	3.13	3.24	3.35
		AMPS	10.6	10.8	11.1	11.5	11.3	11.6	11.9	12.3	12.2	12.4	12.8	13.2	12.9	13.2	**13.5**	14.0	13.6	13.9	14.3	14.8	14.3	14.6	15.1	15.6
		HI PR	241	259	273	285	270	290	307	320	307	330	349	364	350	376	**397**	414	393	423	447	466	435	468	494	515
		LO PR	109	116	126	134	115	122	133	142	119	127	138	147	125	133	**145**	155	131	140	152	162	136	144	158	168
	1052	MBh	32.4	33.1	35.3	37.8	31.6	32.3	34.5	36.9	30.9	31.5	33.7	36.0	30.1	30.8	32.9	35.1	28.6	29.2	31.2	33.4	26.5	27.1	28.9	30.9
		S/T	0.87	0.82	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.94	0.77	0.57
		Delta T	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	15
		KW	2.29	2.34	2.41	2.49	2.47	2.52	2.60	2.69	2.63	2.68	2.77	2.87	2.77	2.83	2.92	3.02	2.88	2.95	3.05	3.15	2.99	3.05	3.16	3.26
		AMPS	10.4	10.6	10.9	11.2	11.1	11.3	11.6	12.0	11.9	12.1	12.5	12.9	12.6	12.8	13.2	13.6	13.3	13.6	14.0	14.4	14.0	14.3	14.7	15.2
		HI PR	233	251	265	277	262	282	298	310	298	320	338	353	339	365	385	402	382	411	434	452	422	454	479	500
		LO PR	105	112	122	130	111	118	129	138	116	123	134	143	121	129	141	150	127	135	148	157	132	140	153	163

NOTE: Shaded area reflects AHRI rating conditions

85	1349	MBh	36.7	37.4	39.2	41.8	35.9	36.6	38.3	40.9	35.0	35.7	37.4	39.9	34.2	34.8	36.5	38.9	32.5	33.1	34.7	37.0	30.1	30.7	32.1	34.3
		S/T	1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.81
		Delta T	25	25	23	20	24	25	23	20	24	24	23	20	23	24	24	20	22	23	23	20	21	21	22	19
		KW	2.39	2.44	2.52	2.60	2.57	2.63	2.72	2.81	2.74	2.80	2.89	2.99	2.89	2.95	3.05	3.15	3.01	3.08	3.18	3.29	3.12	3.19	3.30	3.41
		AMPS	10.8	11.0	11.3	11.7	11.5	11.8	12.1	12.5	12.4	12.6	13.0	13.4	13.1	13.4	13.8	14.2	13.8	14.1	14.5	15.0	14.5	14.9	15.3	15.8
		HI PR	245	264	279	291	275	296	313	326	313	337	356	371	357	384	405	423	401	432	456	476	443	477	504	525
		LO PR	111	118	129	137	117	124	136	145	122	129	141	150	128	136	148	158	134	142	155	166	138	147	161	171
	1200	MBh	35.7	36.4	38.1	40.6	34.8	35.5	37.2	39.7	34.0	34.7	36.3	38.7	33.2	33.8	35.4	37.8	31.5	32.1	33.7	35.9	29.2	29.8	31.2	33.3
		S/T	0.95	0.92	0.83	0.67	0.98	0.95	0.86	0.70	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		Delta T	26	26	24	21	26	26	24	21	26	26	24	21	25	26	25	21	24	25	24	21	22	23	23	20
		KW	2.37	2.42	2.50	2.58	2.55	2.61	2.69	2.78	2.72	2.78	2.87	2.97	2.86	2.93	3.02	3.13	2.98	3.05	3.15	3.26	3.09	3.16	3.27	3.38
		AMPS	10.7	10.9	11.2	11.6	11.4	11.7	12.0	12.4	12.3	12.5	12.9	13.3	13.0	13.3	13.6	14.1	13.7	14.0	14.4	14.9	14.4	14.7	15.2	15.7
		HI PR	243	261	276	288	273	293	310	323	310	334	352	368	353	380	401	419	397	428	451	471	439	472	499	520
		LO PR	110	117	127	136	116	123	135	143	120	128	140	149	126	135	147	156	133	141	154	164	137	146	159	170
	1052	MBh	32.9	33.6	35.1	37.5	32.2	32.8	34.3	36.6	31.4	32.0	33.5	35.8	30.6	31.2	32.7	34.9	29.1	29.7	31.1	33.1	26.9	27.5	28.8	30.7
		S/T	0.92	0.88	0.80	0.65	0.95	0.92	0.83	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.87	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
		Delta T	26	26	24	21	27	26	25	21	27	26	25	21	27	26	25	22	25	26	25	21	24	24	23	20
		KW	2.31	2.36	2.43	2.51	2.49	2.54	2.63	2.71	2.65	2.71	2.80	2.89	2.79	2.85	2.95	3.05	2.91	2.97	3.07	3.18	3.01	3.08	3.18	3.29
		AMPS	10.5	10.7	11.0	11.3	11.2	11.4	11.7	12.1	12.0	12.2	12.6	13.0	12.7	12.9	13.3	13.8	13.4	13.7	14.1	14.5	14.1	14.4	14.8	15.3
		HI PR	236	254	268	279	264	285	301	313	301	324	342	356	343	369	389	406	385	415	438	457	426	458	484	505
		LO PR	106	113	124	132	112	120	131	139	117	124	136	144	123	131	142	152	129	137	149	159	133	141	154	165

* NOTE: Shaded areas is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: GPC1442H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 8 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1461	MBh	39.7	41.1	45.1	-	38.8	40.2	44.0	-	37.8	39.2	43.0	-	36.9	38.3	41.9	-	35.1	36.4	39.8	-	32.5	33.7	36.9	-
		S/T	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.86	0.71	0.49	-	0.86	0.72	0.50	-
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	2.54	2.60	2.68	-	2.74	2.80	2.89	-	2.92	2.98	3.08	-	3.07	3.14	3.25	-	3.21	3.28	3.39	-	3.32	3.40	3.51	-
		AMPS	11.6	11.8	12.1	-	12.4	12.6	13.0	-	13.3	13.6	14.0	-	14.1	14.4	14.9	-	14.9	15.3	15.7	-	15.7	16.1	16.6	-
		HI PR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	390	-	386	415	439	-	426	459	485	-
		LO PR	110	116	127	-	116	123	134	-	120	128	140	-	126	134	147	-	132	141	154	-	137	146	159	-
	1300	MBh	38.5	39.9	43.8	-	37.6	39.0	42.7	-	36.7	38.1	41.7	-	35.8	37.1	40.7	-	34.1	35.3	38.7	-	31.5	32.7	35.8	-
		S/T	0.72	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.45	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-
		KW	2.52	2.58	2.66	-	2.72	2.78	2.87	-	2.89	2.96	3.06	-	3.05	3.12	3.22	-	3.18	3.25	3.36	-	3.29	3.37	3.48	-
		AMPS	11.5	11.7	12.0	-	12.3	12.5	12.9	-	13.2	13.5	13.9	-	14.0	14.3	14.7	-	14.8	15.1	15.6	-	15.6	15.9	16.4	-
		HI PR	234	251	266	-	262	282	298	-	298	321	339	-	340	366	386	-	382	411	434	-	422	454	480	-
		LO PR	108	115	126	-	115	122	133	-	119	127	138	-	125	133	145	-	131	139	152	-	136	144	157	-
	1139	MBh	35.6	36.9	40.4	-	34.7	36.0	39.4	-	33.9	35.1	38.5	-	33.1	34.3	37.6	-	31.4	32.6	35.7	-	29.1	30.2	33.1	-
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	2.46	2.51	2.59	-	2.65	2.71	2.80	-	2.82	2.88	2.98	-	2.97	3.04	3.14	-	3.10	3.17	3.27	-	3.21	3.28	3.39	-
		AMPS	11.2	11.4	11.8	-	12.0	12.2	12.6	-	12.9	13.2	13.5	-	13.7	14.0	14.4	-	14.4	14.8	15.2	-	15.2	15.5	16.0	-
		HI PR	227	244	258	-	254	274	289	-	289	311	329	-	329	355	374	-	371	399	421	-	410	441	465	-
		LO PR	105	112	122	-	111	118	129	-	115	123	134	-	121	129	141	-	127	135	148	-	131	140	153	-
75	1461	MBh	40.4	41.6	45.0	48.3	39.4	40.6	43.9	47.2	38.5	39.6	42.9	46.0	37.5	**38.7**	41.8	44.9	35.7	36.7	39.7	42.7	33.0	34.0	36.8	39.5
		S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.39	0.91	0.81	0.61	0.40	0.94	**0.84**	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43
		Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	**20**	17	12	22	20	16	11	20	19	15	11
		KW	2.56	2.62	2.70	2.79	2.77	2.83	2.92	3.02	2.94	3.01	3.11	3.21	3.10	**3.17**	3.28	3.39	3.23	3.31	3.42	3.54	3.35	3.43	3.54	3.66
		AMPS	11.7	11.9	12.2	12.6	12.5	12.7	13.1	13.5	13.4	13.7	14.1	14.6	14.2	**14.5**	15.0	15.5	15.1	15.4	15.8	16.4	15.9	16.2	16.7	17.3
		HI PR	238	257	271	283	268	288	304	317	304	327	346	361	347	**373**	394	411	390	420	443	462	431	464	490	511
		LO PR	111	118	128	137	117	124	136	145	121	129	141	150	128	**136**	148	158	134	142	155	165	138	147	161	171
	1300	MBh	39.2	40.3	43.7	46.9	38.3	39.4	42.7	45.8	37.4	38.5	41.6	44.7	36.5	**37.5**	40.6	43.6	34.6	35.7	38.6	41.4	32.1	33.0	35.7	38.4
		S/T	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.77	0.59	0.38	0.89	**0.80**	0.60	0.39	0.93	0.83	0.63	0.40	0.93	0.84	0.63	0.41
		Delta T	23	21	17	12	23	21	17	12	23	21	17	12	23	**21**	17	12	23	21	17	12	21	20	16	11
		KW	2.54	2.60	2.68	2.77	2.74	2.80	2.89	2.99	2.92	2.98	3.08	3.19	3.07	**3.14**	3.25	3.36	3.21	3.28	3.39	3.51	3.32	3.40	3.51	3.63
		AMPS	11.6	11.8	12.1	12.5	12.4	12.6	13.0	13.4	13.3	13.6	14.0	14.5	14.1	**14.4**	14.9	15.4	14.9	15.3	15.7	16.3	15.7	16.1	16.6	17.1
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	**369**	390	407	386	415	439	458	427	459	485	506
		LO PR	110	117	127	135	116	123	134	143	120	128	140	149	126	**134**	147	156	132	141	154	164	137	146	159	169
	1139	MBh	36.2	37.2	40.3	43.3	35.3	36.4	39.4	42.3	34.5	35.5	38.4	41.2	33.6	**34.6**	37.5	40.2	32.0	32.9	35.6	38.2	29.6	30.5	33.0	35.4
		S/T	0.79	0.70	0.53	0.34	0.81	0.73	0.55	0.35	0.83	0.75	0.56	0.36	0.86	**0.77**	0.58	0.38	0.89	0.80	0.61	0.39	0.90	0.81	0.61	0.39
		Delta T	23	21	17	12	23	21	18	12	23	21	18	12	23	**22**	18	12	23	21	17	12	22	20	16	11
		KW	2.48	2.53	2.62	2.70	2.67	2.73	2.82	2.92	2.85	2.91	3.00	3.11	3.00	**3.06**	3.17	3.27	3.13	3.20	3.30	3.42	3.24	3.31	3.42	3.54
		AMPS	11.3	11.5	11.9	12.2	12.1	12.3	12.7	13.1	13.0	13.3	13.7	14.1	13.8	**14.1**	14.5	15.0	14.6	14.9	15.3	15.8	15.3	15.7	16.1	16.7
		HI PR	229	246	260	271	257	277	292	305	292	314	332	346	333	**358**	378	394	374	403	425	444	414	445	470	490
		LO PR	106	113	123	131	112	119	130	139	117	124	135	144	123	**130**	142	152	128	137	149	159	133	141	154	164

*IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPC1442H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 8 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1461	MBh	41.1	42.0	44.8	47.9	40.1	41.0	43.8	46.8	39.2	40.0	42.8	45.7	38.2	39.0	41.7	44.6	36.3	37.1	39.6	42.4	33.6	34.4	36.7	39.2
		S/T	0.94	0.88	0.71	0.53	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61
		Delta T	24	23	20	16	25	23	20	16	25	24	20	16	24	24	21	16	23	23	20	16	21	22	19	15
		KW	2.58	2.64	2.73	2.82	2.79	2.85	2.94	3.04	2.97	3.03	3.14	3.24	3.13	3.20	3.30	3.42	3.26	3.34	3.45	3.57	3.38	3.46	3.57	3.70
		AMPS	11.8	12.0	12.3	12.7	12.6	12.8	13.2	13.6	13.5	13.8	14.2	14.7	14.4	14.7	15.1	15.6	15.2	15.5	16.0	16.5	16.0	16.3	16.8	17.4
		HI PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	398	415	394	424	448	467	435	468	494	516
		LO PR	112	119	130	138	118	126	137	146	123	131	142	152	129	137	150	159	135	144	157	167	140	149	162	173
	1300	MBh	39.9	40.8	43.5	46.5	39.0	39.8	42.5	45.5	38.0	38.9	41.5	44.4	37.1	37.9	**40.5**	43.3	35.2	36.0	38.5	41.1	32.6	33.4	35.6	38.1
		S/T	0.89	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.72	0.54	0.98	0.92	**0.75**	0.56	1.00	0.95	0.78	0.58	1.00	0.96	0.78	0.59
		Delta T	25	24	21	17	25	24	21	17	26	24	21	17	26	25	**21**	17	25	24	21	17	23	23	20	16
		KW	2.56	2.62	2.70	2.79	2.77	2.83	2.92	3.02	2.94	3.01	3.11	3.21	3.10	3.17	**3.28**	3.39	3.23	3.31	3.42	3.54	3.35	3.43	3.54	3.67
		AMPS	11.7	11.9	12.2	12.6	12.5	12.7	13.1	13.5	13.4	13.7	14.1	14.6	14.2	14.5	**15.0**	15.5	15.1	15.4	15.8	16.4	15.9	16.2	16.7	17.3
		HI PR	238	257	271	283	268	288	304	317	304	327	346	361	347	373	**394**	411	390	420	443	462	431	464	490	511
		LO PR	111	118	128	137	117	124	136	145	121	129	141	150	128	136	**148**	158	134	142	155	165	138	147	161	171
	1139	MBh	36.8	37.6	40.2	43.0	36.0	36.7	39.3	42.0	35.1	35.9	38.3	41.0	34.2	35.0	37.4	40.0	32.5	33.2	35.5	38.0	30.1	30.8	32.9	35.2
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.75	0.56
		Delta T	26	25	21	17	26	25	22	17	26	25	22	17	26	25	22	17	26	25	21	17	24	23	20	16
		KW	2.50	2.56	2.64	2.72	2.70	2.76	2.85	2.94	2.87	2.93	3.03	3.13	3.02	3.09	3.19	3.30	3.15	3.22	3.33	3.45	3.26	3.34	3.45	3.57
		AMPS	11.4	11.6	12.0	12.3	12.2	12.4	12.8	13.2	13.1	13.4	13.8	14.2	13.9	14.2	14.6	15.1	14.7	15.0	15.4	16.0	15.5	15.8	16.3	16.8
		HI PR	231	249	263	274	260	279	295	308	295	318	335	350	336	362	382	398	378	407	430	448	418	450	475	495
		LO PR	107	114	125	133	113	121	132	140	118	125	137	146	124	132	144	153	130	138	151	160	134	143	156	166
			NOTE: Shaded area reflects AHRI rating conditions																							
85	1461	MBh	41.8	42.6	44.6	47.6	40.8	41.6	43.6	46.5	39.9	40.6	42.5	45.4	38.9	39.6	41.5	44.3	36.9	37.6	39.4	42.1	34.2	34.9	36.5	39.0
		S/T	0.98	0.95	0.85	0.69	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.80
		Delta T	26	25	24	21	26	26	24	21	25	26	24	21	24	25	24	21	23	24	24	21	22	22	23	20
		KW	2.61	2.66	2.75	2.84	2.81	2.87	2.97	3.07	2.99	3.06	3.16	3.27	3.15	3.22	3.33	3.45	3.29	3.36	3.48	3.60	3.41	3.49	3.60	3.73
		AMPS	11.8	12.1	12.4	12.8	12.7	12.9	13.3	13.8	13.6	13.9	14.3	14.8	14.5	14.8	15.2	15.7	15.3	15.6	16.1	16.7	16.1	16.5	17.0	17.6
		HI PR	243	262	276	288	273	294	310	324	310	334	353	368	354	380	402	419	398	428	452	471	439	473	499	521
		LO PR	113	120	131	140	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	169	141	150	164	175
	1300	MBh	40.6	41.4	43.3	46.2	39.6	40.4	42.3	45.1	38.7	39.4	41.3	44.1	37.7	38.5	40.3	43.0	35.9	36.6	38.3	40.8	33.2	33.9	35.5	37.8
		S/T	0.94	0.90	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.94	0.76
		Delta T	27	26	25	22	27	27	25	22	27	27	25	22	27	27	25	22	25	26	25	22	23	24	23	20
		KW	2.58	2.64	2.73	2.82	2.79	2.85	2.94	3.04	2.97	3.03	3.14	3.24	3.13	3.20	3.30	3.42	3.26	3.34	3.45	3.57	3.38	3.46	3.57	3.70
		AMPS	11.8	12.0	12.3	12.7	12.6	12.8	13.2	13.6	13.5	13.8	14.2	14.7	14.4	14.7	15.1	15.6	15.2	15.5	16.0	16.5	16.0	16.3	16.8	17.4
		HI PR	241	259	274	285	270	291	307	320	307	331	349	364	350	377	398	415	394	424	448	467	435	468	494	516
		LO PR	112	119	130	138	118	126	137	146	123	131	142	152	129	137	150	159	135	144	157	167	140	149	162	173
	1139	MBh	37.5	38.2	40.0	42.7	36.6	37.3	39.1	41.7	35.7	36.4	38.1	40.7	34.8	35.5	37.2	39.7	33.1	33.7	35.3	37.7	30.7	31.3	32.7	34.9
		S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.90	0.73
		Delta T	27	27	25	22	28	27	26	22	28	27	26	22	28	27	26	22	27	27	26	22	25	25	24	21
		KW	2.52	2.58	2.66	2.75	2.72	2.78	2.87	2.97	2.89	2.96	3.06	3.16	3.05	3.12	3.22	3.33	3.18	3.25	3.36	3.48	3.29	3.37	3.48	3.60
		AMPS	11.5	11.7	12.0	12.4	12.3	12.5	12.9	13.3	13.2	13.5	13.9	14.3	14.0	14.3	14.7	15.2	14.8	15.1	15.6	16.1	15.6	15.9	16.4	17.0
		HI PR	234	251	265	277	262	282	298	311	298	321	339	353	340	365	386	402	382	411	434	453	422	454	480	500
		LO PR	108	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	139	152	162	136	144	157	168

* NOTE: Shaded areas is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: GPC1448H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 10 ± 2°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1800	MBh	45.6	47.2	51.7	-	44.5	46.1	50.5	-	43.4	45.0	49.3	-	42.4	43.9	48.1	-	40.3	41.7	45.7	-	37.3	38.7	42.4	-
		S/T	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.87	0.73	0.50	-	0.88	0.73	0.51	-
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	2.94	3.01	3.10	-	3.17	3.24	3.34	-	3.37	3.44	3.56	-	3.55	3.63	3.75	-	3.70	3.78	3.91	-	3.83	3.91	4.04	-
		AMPS	12.7	13.0	13.4	-	13.7	14.0	14.4	-	14.7	15.0	15.5	-	15.6	16.0	16.5	-	16.6	16.9	17.4	-	17.5	17.9	18.4	-
		HI PR	236	254	268	-	264	284	300	-	301	324	342	-	342	369	389	-	385	415	438	-	426	458	484	-
		LO PR	110	117	128	-	117	124	135	-	121	129	141	-	127	135	148	-	133	142	155	-	138	147	160	-
	1600	MBh	44.2	45.9	50.2	-	43.2	44.8	49.1	-	42.2	43.7	47.9	-	41.2	42.7	46.7	-	39.1	40.5	44.4	-	36.2	37.5	41.1	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
		KW	2.92	2.98	3.08	-	3.14	3.21	3.32	-	3.34	3.42	3.53	-	3.52	3.60	3.71	-	3.67	3.75	3.87	-	3.80	3.88	4.01	-
		AMPS	12.6	12.9	13.3	-	13.6	13.8	14.3	-	14.6	14.9	15.4	-	15.5	15.9	16.3	-	16.4	16.8	17.3	-	17.3	17.7	18.2	-
		HI PR	233	251	265	-	262	282	297	-	298	320	338	-	339	365	385	-	381	410	433	-	421	454	479	-
		LO PR	109	116	127	-	116	123	134	-	120	128	139	-	126	134	146	-	132	141	153	-	137	145	159	-
	1400	MBh	40.8	42.3	46.4	-	39.9	41.3	45.3	-	38.9	40.4	44.2	-	38.0	39.4	43.1	-	36.1	37.4	41.0	-	33.4	34.6	38.0	-
		S/T	0.70	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.62	0.43	-	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.81	0.67	0.47	-
		Delta T	19	16	12	-	19	16	13	-	19	16	13	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	2.85	2.91	3.00	-	3.07	3.13	3.23	-	3.26	3.33	3.44	-	3.43	3.51	3.62	-	3.57	3.65	3.78	-	3.70	3.78	3.91	-
		AMPS	12.3	12.6	13.0	-	13.2	13.5	13.9	-	14.2	14.5	15.0	-	15.1	15.5	15.9	-	16.0	16.4	16.9	-	16.9	17.2	17.8	-
		HI PR	226	243	257	-	254	273	289	-	289	311	328	-	329	354	374	-	370	398	420	-	409	440	465	-
		LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-
75	1800	MBh	46.3	47.7	51.6	55.4	45.3	46.6	50.4	54.1	44.2	45.5	49.2	52.8	43.1	**44.4**	48.0	51.6	41.0	42.2	45.6	49.0	37.9	39.1	42.3	45.4
		S/T	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	**0.85**	0.64	0.41	0.99	0.88	0.67	0.43	1.00	0.89	0.67	0.43
		Delta T	21	19	15	11	21	19	16	11	21	19	16	11	21	**19**	16	11	21	19	16	11	19	18	15	10
		KW	2.97	3.03	3.13	3.23	3.20	3.27	3.37	3.48	3.40	3.47	3.59	3.71	3.58	**3.66**	3.78	3.90	3.73	3.81	3.94	4.07	3.86	3.95	4.08	4.22
		AMPS	12.8	13.1	13.5	14.0	13.8	14.1	14.5	15.0	14.8	15.2	15.6	16.2	15.8	**16.1**	16.6	17.2	16.7	17.1	17.6	18.2	17.6	18.0	18.6	19.2
		HI PR	238	256	270	282	267	287	303	317	304	327	345	360	346	**372**	393	410	389	419	442	461	430	463	489	510
		LO PR	112	119	130	138	118	125	137	146	122	130	142	152	129	**137**	149	159	135	143	157	167	139	148	162	173
	1600	MBh	45.0	46.3	50.1	53.8	43.9	45.2	49.0	52.6	42.9	44.2	47.8	51.3	41.9	**43.1**	46.6	50.1	39.8	40.9	44.3	47.6	36.8	37.9	41.0	44.0
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.59	0.38	0.91	**0.81**	0.61	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	**20**	16	11	22	20	16	11	20	18	15	10
		KW	2.94	3.01	3.10	3.20	3.17	3.24	3.34	3.45	3.37	3.44	3.56	3.68	3.55	**3.63**	3.75	3.87	3.70	3.78	3.91	4.04	3.83	3.91	4.05	4.18
		AMPS	12.7	13.0	13.4	13.8	13.7	14.0	14.4	14.9	14.7	15.0	15.5	16.0	15.6	**16.0**	16.5	17.0	16.6	16.9	17.4	18.1	17.5	17.9	18.4	19.1
		HI PR	236	254	268	279	264	285	300	313	301	324	342	356	343	**369**	389	406	385	415	438	457	426	458	484	505
		LO PR	110	118	128	137	117	124	136	144	121	129	141	150	127	**136**	148	158	134	142	155	165	138	147	160	171
	1400	MBh	41.5	42.8	46.3	49.7	40.6	41.8	45.2	48.5	39.6	40.8	44.1	47.4	38.6	**39.8**	43.0	46.2	36.7	37.8	40.9	43.9	34.0	35.0	37.9	40.7
		S/T	0.80	0.71	0.54	0.35	0.83	0.74	0.56	0.36	0.85	0.76	0.57	0.37	0.87	**0.78**	0.59	0.38	0.91	0.81	0.61	0.40	0.92	0.82	0.62	0.40
		Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	**20**	17	12	22	20	17	11	20	19	15	11
		KW	2.87	2.93	3.03	3.12	3.09	3.16	3.26	3.37	3.29	3.36	3.47	3.58	3.46	**3.54**	3.65	3.77	3.61	3.69	3.81	3.94	3.73	3.81	3.94	4.08
		AMPS	12.4	12.7	13.1	13.5	13.3	13.6	14.0	14.5	14.4	14.7	15.1	15.6	15.2	**15.6**	16.1	16.6	16.1	16.5	17.0	17.6	17.0	17.4	17.9	18.6
		HI PR	229	246	260	271	256	276	291	304	292	314	331	346	332	**358**	378	394	374	402	425	443	413	444	469	489
		LO PR	107	114	124	133	113	120	131	140	118	125	137	146	124	**131**	144	153	129	138	150	160	134	143	156	166

*IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPC1448H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 10 ± 2°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1800	MBh	47.2	48.2	51.5	55.0	46.1	47.1	50.3	53.8	45.0	46.0	49.1	52.5	43.9	44.8	47.9	51.2	41.7	42.6	45.5	48.6	38.6	39.5	42.1	45.1
		S/T	0.95	0.89	0.73	0.54	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	1.00	0.80	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.83	0.62
		Delta T	23	22	19	15	24	22	19	15	23	22	19	15	22	23	19	16	21	22	19	15	20	20	18	14
		KW	2.99	3.05	3.15	3.25	3.22	3.29	3.40	3.51	3.43	3.50	3.62	3.74	3.61	3.69	3.81	3.94	3.76	3.85	3.97	4.11	3.89	3.98	4.11	4.26
		AMPS	13.0	13.2	13.6	14.1	13.9	14.2	14.6	15.1	15.0	15.3	15.8	16.3	15.9	16.3	16.8	17.3	16.8	17.2	17.7	18.4	17.8	18.2	18.7	19.4
		HI PR	240	259	273	285	270	290	307	320	307	330	349	364	349	376	397	414	393	423	447	466	434	467	494	515
		LO PR	113	120	131	139	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	168	141	150	164	174
	1600	MBh	45.8	46.8	50.0	53.4	44.7	45.7	48.8	52.2	43.7	44.6	47.7	51.0	42.6	43.5	**46.5**	49.7	40.5	41.3	44.2	47.2	37.5	38.3	40.9	43.7
		S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.96	0.90	0.74	0.55	0.99	0.93	**0.76**	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.79	0.59
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	**20**	16	23	23	20	16	22	21	19	15
		KW	2.97	3.03	3.13	3.23	3.20	3.27	3.37	3.48	3.40	3.47	3.59	3.71	3.58	3.66	**3.78**	3.91	3.73	3.81	3.94	4.07	3.86	3.95	4.08	4.22
		AMPS	12.9	13.1	13.5	14.0	13.8	14.1	14.5	15.0	14.8	15.2	15.6	16.2	15.8	16.1	**16.6**	17.2	16.7	17.1	17.6	18.2	17.6	18.0	18.6	19.2
		HI PR	238	256	270	282	267	287	304	317	304	327	345	360	346	372	**393**	410	389	419	442	461	430	463	489	510
		LO PR	112	119	130	138	118	125	137	146	122	130	142	152	129	137	**149**	159	135	143	157	167	139	148	162	173
	1400	MBh	42.3	43.2	46.1	49.3	41.3	42.2	45.1	48.2	40.3	41.2	44.0	47.0	39.3	40.2	42.9	45.9	37.3	38.2	40.8	43.6	34.6	35.4	37.8	40.4
		S/T	0.87	0.82	0.67	0.50	0.91	0.85	0.69	0.52	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.94	0.77	0.57
		Delta T	24	23	20	16	25	24	20	16	25	24	20	16	25	24	21	16	24	23	20	16	23	22	19	15
		KW	2.90	2.96	3.05	3.15	3.12	3.19	3.29	3.40	3.31	3.39	3.50	3.61	3.49	3.57	3.68	3.81	3.64	3.72	3.84	3.97	3.76	3.85	3.98	4.11
		AMPS	12.5	12.8	13.2	13.6	13.4	13.7	14.1	14.6	14.5	14.8	15.2	15.8	15.4	15.7	16.2	16.8	16.3	16.6	17.1	17.7	17.2	17.5	18.1	18.7
		HI PR	231	248	262	274	259	279	294	307	295	317	335	349	336	361	381	398	378	406	429	447	417	449	474	494
		LO PR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167

NOTE: Shaded area reflects AHRI rating conditions

85	1800	MBh	48.0	48.9	51.2	54.7	46.9	47.8	50.0	53.4	45.8	46.6	48.8	52.1	44.6	45.5	47.7	50.8	42.4	43.2	45.3	48.3	39.3	40.0	41.9	44.7
		S/T	1.00	0.96	0.87	0.70	1.00	1.00	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.81
		Delta T	24	24	23	20	24	24	23	20	23	24	23	20	23	23	23	20	22	22	23	20	20	20	21	18
		KW	3.01	3.08	3.18	3.28	3.25	3.32	3.43	3.54	3.46	3.53	3.65	3.77	3.64	3.72	3.84	3.97	3.79	3.88	4.01	4.14	3.93	4.02	4.15	4.29
		AMPS	13.1	13.3	13.7	14.2	14.0	14.3	14.7	15.2	15.1	15.4	15.9	16.4	16.0	16.4	16.9	17.5	17.0	17.4	17.9	18.5	17.9	18.3	18.9	19.6
		HI PR	243	261	276	288	272	293	310	323	310	333	352	367	353	380	401	418	397	427	451	471	439	472	499	520
		LO PR	114	121	132	141	120	128	140	149	125	133	145	155	131	140	152	162	138	146	160	170	142	151	165	176
	1600	MBh	46.6	47.5	49.7	53.1	45.5	46.4	48.6	51.8	44.4	45.3	47.4	50.6	43.3	44.2	46.3	49.4	41.2	42.0	44.0	46.9	38.1	38.9	40.7	43.4
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		Delta T	25	25	24	20	26	25	24	21	26	25	24	21	25	25	24	21	24	24	24	21	22	22	22	19
		KW	2.99	3.05	3.15	3.25	3.22	3.29	3.40	3.51	3.43	3.50	3.62	3.74	3.61	3.69	3.81	3.94	3.76	3.85	3.97	4.11	3.89	3.98	4.11	4.26
		AMPS	13.0	13.2	13.6	14.1	13.9	14.2	14.6	15.1	15.0	15.3	15.8	16.3	15.9	16.3	16.8	17.3	16.8	17.2	17.7	18.4	17.8	18.2	18.7	19.4
		HI PR	240	259	273	285	270	290	307	320	307	330	349	364	349	376	397	414	393	423	447	466	434	467	494	515
		LO PR	113	120	131	139	119	127	138	147	124	132	144	153	130	138	151	161	136	145	158	168	141	150	164	174
	1400	MBh	43.0	43.8	45.9	49.0	42.0	42.8	44.8	47.8	41.0	41.8	43.8	46.7	40.0	40.8	42.7	45.6	38.0	38.7	40.6	43.3	35.2	35.9	37.6	40.1
		S/T	0.92	0.88	0.80	0.65	0.95	0.92	0.83	0.67	0.97	0.94	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.92	0.74
		Delta T	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	25	25	24	21	23	24	23	20
		KW	2.92	2.98	3.07	3.17	3.14	3.21	3.31	3.42	3.34	3.42	3.53	3.64	3.52	3.60	3.71	3.84	3.67	3.75	3.87	4.00	3.79	3.88	4.01	4.15
		AMPS	12.6	12.9	13.3	13.7	13.5	13.8	14.2	14.7	14.6	14.9	15.4	15.9	15.5	15.8	16.3	16.9	16.4	16.8	17.3	17.9	17.3	17.7	18.2	18.9
		HI PR	233	251	265	276	262	282	297	310	298	320	338	353	339	365	385	402	381	410	433	452	421	453	479	499
		LO PR	109	116	127	135	115	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169

* NOTE: Shaded areas is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

MODEL: GPC1460H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 6 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 9 ± 2°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1800	MBh	56.3	58.4	64.0	-	55.0	57.0	62.5	-	53.7	55.7	61.0	-	52.4	54.3	59.5	-	49.8	51.6	56.5	-	46.1	47.8	52.4	-
		S/T	0.71	0.60	0.41	-	0.74	0.62	0.43	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.69	0.47	-
		Delta T	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	19	17	13	-
		KW	3.70	3.78	3.91	-	4.00	4.09	4.23	-	4.26	4.36	4.51	-	4.49	4.60	4.75	-	4.69	4.80	4.96	-	4.86	4.97	5.14	-
		AMPS	15.7	16.0	16.5	-	16.9	17.2	17.8	-	18.2	18.6	19.2	-	19.4	19.9	20.5	-	20.6	21.1	21.7	-	21.7	22.3	23.0	-
		HI PR	238	256	271	-	267	288	304	-	304	327	345	-	346	373	393	-	390	419	443	-	430	463	489	-
		LO PR	108	115	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	139	151	-	135	143	156	-
	1600	MBh	54.7	56.7	62.1	-	53.4	55.4	60.7	-	52.2	54.1	59.2	-	50.9	52.7	57.8	-	48.3	50.1	54.9	-	44.8	46.4	50.9	-
		S/T	0.68	0.57	0.39	-	0.71	0.59	0.41	-	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.78	0.65	0.45	-	0.78	0.65	0.45	-
		Delta T	21	19	14	-	22	19	14	-	22	19	14	-	22	19	14	-	22	19	14	-	20	17	13	-
		KW	3.67	3.75	3.88	-	3.97	4.06	4.19	-	4.23	4.32	4.47	-	4.46	4.56	4.71	-	4.65	4.76	4.92	-	4.82	4.93	5.10	-
		AMPS	15.6	15.9	16.4	-	16.7	17.1	17.6	-	18.1	18.5	19.1	-	19.2	19.7	20.3	-	20.4	20.9	21.5	-	21.6	22.1	22.8	-
		HI PR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	390	-	386	415	438	-	426	459	484	-
		LO PR	107	114	124	-	113	120	131	-	117	125	136	-	123	131	143	-	129	137	150	-	133	142	155	-
	1400	MBh	50.5	52.3	57.3	-	49.3	51.1	56.0	-	48.1	49.9	54.7	-	47.0	48.7	53.3	-	44.6	46.2	50.7	-	41.3	42.8	46.9	-
		S/T	0.66	0.55	0.38	-	0.68	0.57	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.75	0.63	0.44	-
		Delta T	22	19	14	-	22	19	14	-	22	19	15	-	22	19	15	-	22	19	14	-	20	18	13	-
		KW	3.58	3.66	3.78	-	3.87	3.95	4.08	-	4.12	4.21	4.35	-	4.34	4.44	4.59	-	4.53	4.63	4.79	-	4.69	4.80	4.97	-
		AMPS	15.2	15.5	16.0	-	16.3	16.7	17.2	-	17.6	18.0	18.6	-	18.7	19.2	19.8	-	19.9	20.3	21.0	-	21.0	21.5	22.2	-
		HI PR	229	246	260	-	257	276	292	-	292	314	332	-	333	358	378	-	374	403	425	-	413	445	470	-
		LO PR	103	110	120	-	109	116	127	-	114	121	132	-	119	127	139	-	125	133	145	-	129	138	150	-
75	1800	MBh	57.3	59.0	63.9	68.5	56.0	57.6	62.4	66.9	54.6	56.3	60.9	65.3	53.3	**54.9**	59.4	63.8	50.6	52.1	56.4	60.6	46.9	48.3	52.3	56.1
		S/T	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.38	0.89	**0.80**	0.60	0.39	0.92	0.83	0.63	0.40	0.93	0.83	0.63	0.41
		Delta T	24	22	18	12	24	22	18	13	24	22	18	13	24	**22**	18	13	24	22	18	12	22	21	17	12
		KW	3.73	3.82	3.94	4.07	4.03	4.12	4.26	4.41	4.30	4.40	4.55	4.70	4.53	**4.64**	4.79	4.96	4.73	4.84	5.01	5.18	4.90	5.02	5.19	5.37
		AMPS	15.8	16.2	16.7	17.2	17.0	17.4	17.9	18.6	18.4	18.8	19.4	20.1	19.6	**20.0**	20.7	21.4	20.8	21.3	21.9	22.7	21.9	22.5	23.2	24.0
		HI PR	241	259	273	285	270	291	307	320	307	330	349	364	350	**376**	397	415	393	423	447	466	435	468	494	515
		LO PR	109	116	126	135	115	122	134	142	120	127	139	148	126	**134**	146	155	132	140	153	163	136	145	158	168
	1600	MBh	55.6	57.3	62.0	66.5	54.3	55.9	60.6	65.0	53.0	54.6	59.1	63.4	51.8	**53.3**	57.7	61.9	49.2	50.6	54.8	58.8	45.5	46.9	50.8	54.5
		S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.74	0.56	0.36	0.85	**0.76**	0.58	0.37	0.88	0.79	0.60	0.38	0.89	0.80	0.60	0.39
		Delta T	25	23	19	13	25	23	19	13	25	23	19	13	25	**23**	19	13	25	23	19	13	23	21	18	12
		KW	3.70	3.79	3.91	4.04	4.00	4.09	4.23	4.37	4.26	4.36	4.51	4.66	4.49	**4.60**	4.75	4.92	4.69	4.80	4.96	5.14	4.86	4.97	5.14	5.32
		AMPS	15.7	16.0	16.5	17.1	16.9	17.3	17.8	18.4	18.2	18.6	19.2	19.9	19.4	**19.9**	20.5	21.2	20.6	21.1	21.7	22.5	21.7	22.3	23.0	23.8
		HI PR	238	256	271	282	267	288	304	317	304	327	346	360	346	**373**	394	410	390	419	443	462	430	463	489	510
		LO PR	108	115	125	133	114	121	132	141	118	126	137	146	124	**132**	144	154	130	139	151	161	135	143	157	167
	1400	MBh	51.3	52.9	57.2	61.4	50.2	51.6	55.9	60.0	49.0	50.4	54.6	58.6	47.8	**49.2**	53.2	57.1	45.4	46.7	50.6	54.3	42.0	43.3	46.8	50.3
		S/T	0.75	0.67	0.51	0.33	0.77	0.69	0.52	0.34	0.79	0.71	0.54	0.35	0.82	**0.73**	0.55	0.36	0.85	0.76	0.58	0.37	0.86	0.77	0.58	0.37
		Delta T	25	23	19	13	25	23	19	13	26	24	19	13	26	**24**	19	13	25	23	19	13	24	22	18	12
		KW	3.61	3.69	3.81	3.94	3.90	3.99	4.12	4.26	4.15	4.25	4.39	4.54	4.38	**4.48**	4.63	4.79	4.57	4.67	4.83	5.00	4.73	4.84	5.01	5.18
		AMPS	15.3	15.6	16.1	16.7	16.4	16.8	17.3	17.9	17.8	18.2	18.7	19.4	18.9	**19.3**	19.9	20.7	20.0	20.5	21.2	21.9	21.2	21.7	22.4	23.2
		HI PR	231	249	263	274	259	279	295	307	295	317	335	350	336	**361**	382	398	378	407	429	448	418	449	474	495
		LO PR	105	111	121	129	110	118	128	137	115	122	133	142	121	**128**	140	149	126	134	147	156	131	139	152	162

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPC1460H41A*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 6 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 9 ± 2°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1800	MBh	58.3	59.6	63.7	68.1	57.0	58.2	62.2	66.5	55.6	56.8	60.7	64.9	54.3	55.4	59.2	63.3	51.5	52.7	56.3	60.1	47.7	48.8	52.1	55.7
		S/T	0.89	0.84	0.68	0.51	0.92	0.87	0.70	0.53	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58
		Delta T	27	25	22	18	27	26	22	18	27	26	22	18	28	26	23	18	26	26	22	18	24	24	21	17
		KW	3.77	3.85	3.98	4.11	4.07	4.16	4.30	4.45	4.34	4.43	4.58	4.74	4.57	4.68	4.84	5.00	4.77	4.88	5.05	5.23	4.95	5.06	5.24	5.42
		AMPS	16.0	16.3	16.8	17.4	17.2	17.5	18.1	18.7	18.5	19.0	19.6	20.3	19.8	20.2	20.8	21.6	21.0	21.4	22.1	22.9	22.1	22.7	23.4	24.2
		HI PR	243	262	276	288	273	294	310	323	310	334	352	368	353	380	401	419	397	428	452	471	439	473	499	520
		LO PR	110	117	128	136	116	124	135	144	121	128	140	149	127	135	147	157	133	141	154	164	137	146	160	170
	1600	MBh	56.6	57.9	61.8	66.1	55.3	56.5	60.4	64.5	54.0	55.2	58.9	63.0	52.7	53.8	**57.5**	61.5	50.0	51.1	54.6	58.4	46.3	47.4	50.6	54.1
		S/T	0.85	0.80	0.65	0.48	0.88	0.83	0.67	0.50	0.90	0.85	0.69	0.52	0.93	0.87	**0.71**	0.53	0.97	0.91	0.74	0.55	0.98	0.91	0.74	0.56
		Delta T	28	26	23	18	28	27	23	19	28	27	23	19	28	27	**24**	19	28	27	23	19	26	25	22	17
		KW	3.73	3.82	3.94	4.08	4.03	4.13	4.26	4.41	4.30	4.40	4.55	4.70	4.53	4.64	**4.80**	4.96	4.73	4.84	5.01	5.18	4.90	5.02	5.19	5.37
		AMPS	15.8	16.2	16.7	17.2	17.0	17.4	17.9	18.6	18.4	18.8	19.4	20.1	19.6	20.0	**20.7**	21.4	20.8	21.3	21.9	22.7	21.9	22.5	23.2	24.0
		HI PR	241	259	273	285	270	291	307	320	307	331	349	364	350	376	**398**	415	394	423	447	466	435	468	494	515
		LO PR	109	116	126	135	115	122	134	142	120	127	139	148	126	134	**146**	155	132	140	153	163	136	145	158	168
	1400	MBh	52.3	53.4	57.1	61.0	51.0	52.2	55.7	59.6	49.8	50.9	54.4	58.2	48.6	49.7	53.1	56.7	46.2	47.2	50.4	53.9	42.8	43.7	46.7	49.9
		S/T	0.82	0.77	0.63	0.47	0.85	0.80	0.65	0.48	0.87	0.82	0.66	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.94	0.88	0.72	0.54
		Delta T	28	27	23	19	28	27	24	19	28	27	24	19	29	27	24	19	28	27	24	19	26	25	22	18
		KW	3.64	3.72	3.84	3.97	3.93	4.02	4.15	4.29	4.19	4.28	4.43	4.58	4.42	4.52	4.67	4.83	4.61	4.71	4.88	5.05	4.78	4.89	5.05	5.23
		AMPS	15.4	15.8	16.2	16.8	16.6	17.0	17.5	18.1	17.9	18.3	18.9	19.6	19.1	19.5	20.1	20.8	20.2	20.7	21.3	22.1	21.4	21.9	22.6	23.4
		HI PR	233	251	265	277	262	282	298	310	298	321	339	353	339	365	386	402	382	411	434	452	422	454	479	500
		LO PR	106	112	123	131	112	119	130	138	116	123	135	143	122	130	141	151	128	136	148	158	132	140	153	163
			NOTE: Shaded area reflects AHRI rating conditions																							
85	1800	MBh	59.3	60.5	63.3	67.6	58.0	59.1	61.9	66.0	56.6	57.7	60.4	64.4	55.2	56.3	58.9	62.9	52.4	53.5	56.0	59.7	48.6	49.5	51.9	55.3
		S/T	0.93	0.90	0.81	0.66	0.97	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.93	0.75	1.00	1.00	0.93	0.76
		Delta T	28	28	26	23	29	28	27	23	29	28	27	23	28	28	27	23	27	27	26	23	25	25	25	21
		KW	3.80	3.88	4.01	4.14	4.10	4.20	4.34	4.48	4.37	4.47	4.62	4.78	4.61	4.72	4.88	5.05	4.81	4.93	5.09	5.27	4.99	5.10	5.28	5.47
		AMPS	16.1	16.5	17.0	17.5	17.3	17.7	18.2	18.9	18.7	19.1	19.7	20.4	19.9	20.4	21.0	21.8	21.1	21.6	22.3	23.1	22.3	22.9	23.6	24.5
		HI PR	245	264	279	291	275	296	313	326	313	337	356	371	357	384	405	423	401	432	456	476	444	477	504	526
		LO PR	111	118	129	137	117	125	136	145	122	130	142	151	128	136	149	158	134	143	156	166	139	148	161	172
	1600	MBh	57.6	58.7	61.5	65.6	56.3	57.4	60.1	64.1	54.9	56.0	58.6	62.6	53.6	54.6	57.2	61.0	50.9	51.9	54.4	58.0	47.2	48.1	50.3	53.7
		S/T	0.89	0.86	0.78	0.63	0.92	0.89	0.80	0.65	0.95	0.91	0.82	0.67	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	0.99	0.89	0.72
		Delta T	29	29	27	24	30	29	28	24	30	29	28	24	30	30	28	24	29	29	28	24	27	27	26	22
		KW	3.77	3.85	3.98	4.11	4.07	4.16	4.30	4.45	4.34	4.43	4.58	4.74	4.57	4.68	4.84	5.00	4.77	4.88	5.05	5.23	4.95	5.06	5.24	5.42
		AMPS	16.0	16.3	16.8	17.4	17.2	17.5	18.1	18.7	18.5	19.0	19.6	20.3	19.8	20.2	20.8	21.6	21.0	21.4	22.1	22.9	22.1	22.7	23.4	24.2
		HI PR	243	262	276	288	273	294	310	323	310	334	352	368	353	380	401	419	397	428	452	471	439	473	499	520
		LO PR	110	117	128	136	116	124	135	144	121	128	140	149	127	135	147	157	133	141	154	164	137	146	160	170
	1400	MBh	53.2	54.2	56.8	60.6	51.9	52.9	55.4	59.2	50.7	51.7	54.1	57.7	49.5	50.4	52.8	56.3	47.0	47.9	50.2	53.5	43.5	44.4	46.5	49.6
		S/T	0.86	0.83	0.75	0.61	0.89	0.86	0.78	0.63	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.67	0.98	0.94	0.85	0.69	0.99	0.95	0.86	0.70
		Delta T	30	30	28	24	30	30	28	24	30	30	28	24	31	30	28	25	30	30	28	24	28	28	26	23
		KW	3.67	3.75	3.88	4.01	3.97	4.05	4.19	4.33	4.23	4.32	4.47	4.62	4.45	4.56	4.71	4.87	4.65	4.76	4.92	5.09	4.82	4.93	5.10	5.28
		AMPS	15.6	15.9	16.4	17.0	16.7	17.1	17.6	18.2	18.1	18.5	19.1	19.7	19.2	19.7	20.3	21.0	20.4	20.9	21.5	22.3	21.5	22.1	22.8	23.6
		HI PR	236	254	268	279	265	285	301	314	301	324	342	357	343	369	389	406	386	415	438	457	426	458	484	505
		LO PR	107	113	124	132	113	120	131	139	117	125	136	145	123	131	143	152	129	137	150	159	133	142	155	165

* NOTE: Shaded areas is AHRI Rating Conditions IDB: Entering Indoor Dry Bulb Temperature KW = Total system power

High and low pressures are measured at the liquid and suction access fittings. AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

COOLING PERFORMANCE DATA

PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop (Delta T). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (Delta T). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **3 degrees** of the typical (**Delta T**) value shown.

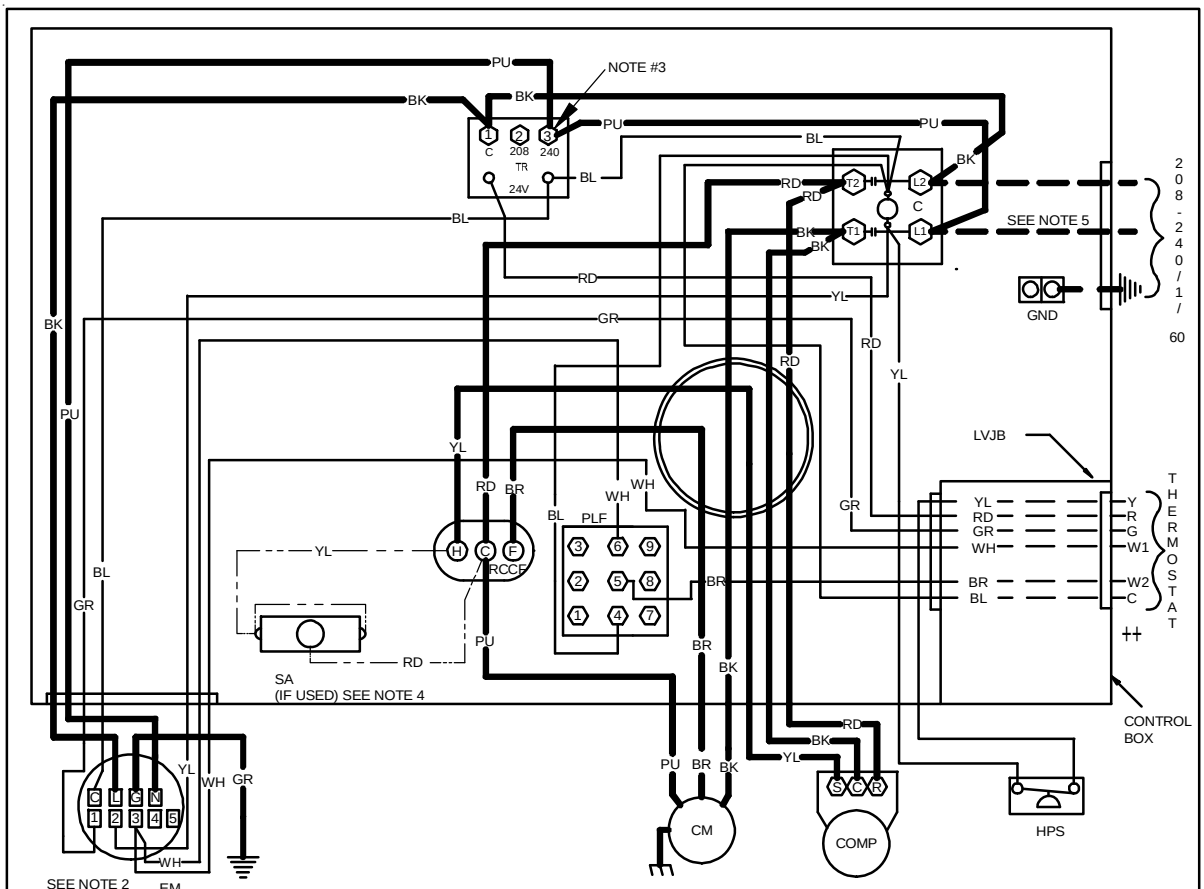
A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

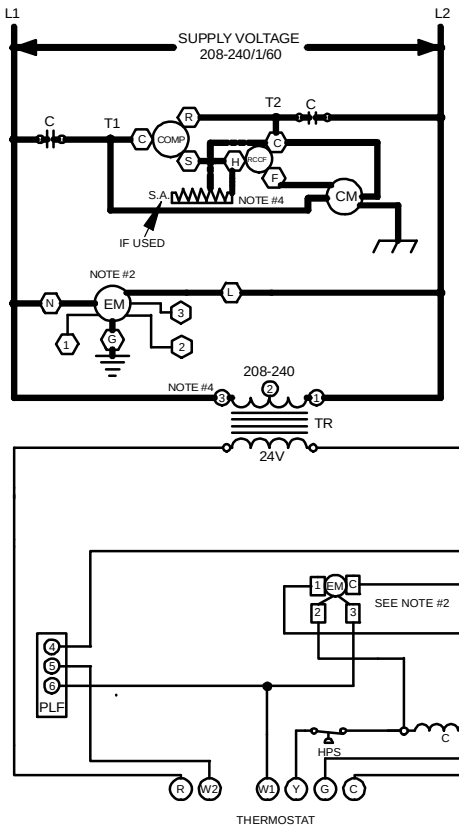
A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

WIRING DIAGRAMS

GPC14[24-60]H41A*





COMPONENT LEGEND

C	CONTACTOR
CM	CONDENSER MOTOR
COMP	COMPRESSOR
EM	EVAPORATOR MOTOR
GND	EQUIPMENT GROUND
LVJB	LOW VOLTAGE JUNCTION BOX
PLF	FEMALE PLUG / CONNECTOR
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN
SA	START ASSIST
TR	TRANSFORMER
HPS	HIGH PRESSURE SWITCH

FACTORY WIRING
- LINE VOLTAGE
- LOW VOLTAGE
- OPTINAL HIGH VOLTAGE

FIELD WIRING
- HIGH VOLTAGE
- LOW VOLTAGE

WIRE CODE

BK	BLACK
BL	BLUE
BR	BROWN
GR	GREEN
OR	ORANGE
PU	PURPLE
RD	RED
WH	WHITE
YL	YELLOW

NOTES:

1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
2. TO CHANGE EVAPORATOR MOTOR SPEED MOVE WHITE AND YELLOW LEADS FROM EM "2" AND "3" TO "4" AND "5". IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
3. FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
4. START ASSIST FACTORY EQUIPED WHEN REQUIRED
5. USE COPPER CONDUCTORS ONLY.

++ USE N.E.C. CLASS 2 WIRE

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION

208-240/1/60 0140G00871 REV. B

Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.