

Technical Information

PGA**C***2F

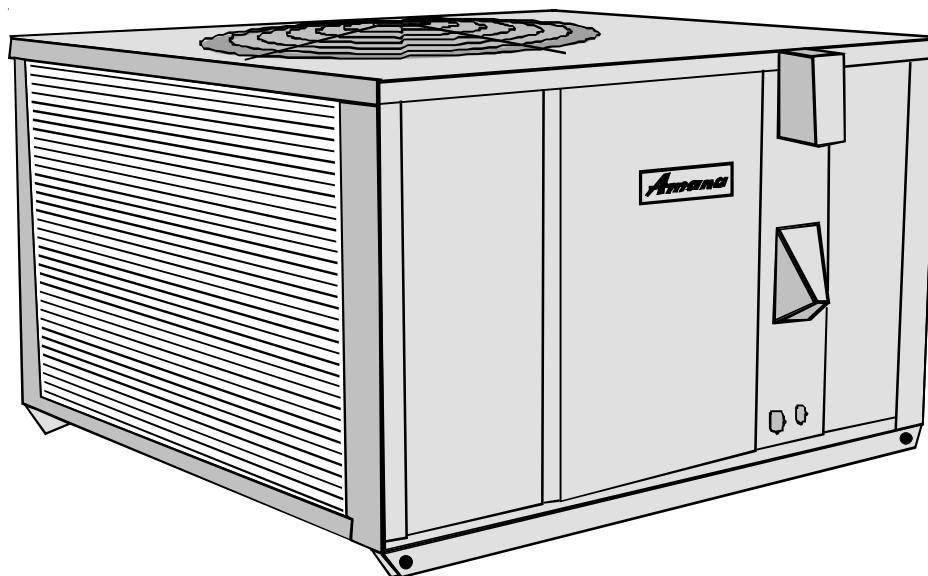
PACKAGE GAS UNITS

- Refer to Service Manual RS6300003 Rev. 1 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.

Model and Manufacturing numbers listed in this manual.

<u>MODEL</u>	<u>M/N</u>
PGA24C0702F	P1236309C
PGA30C0702F	P1236310C
PGA36C0702F	P1236311C
PGA36C0902F	P1236312C
PGA42C0902F	P1236913C

PGA48C0902F	P1236408C
PGA48C1152F	P1236409C
PGA60C0902F	P1236410C
PGA60C1152F	P1236411C



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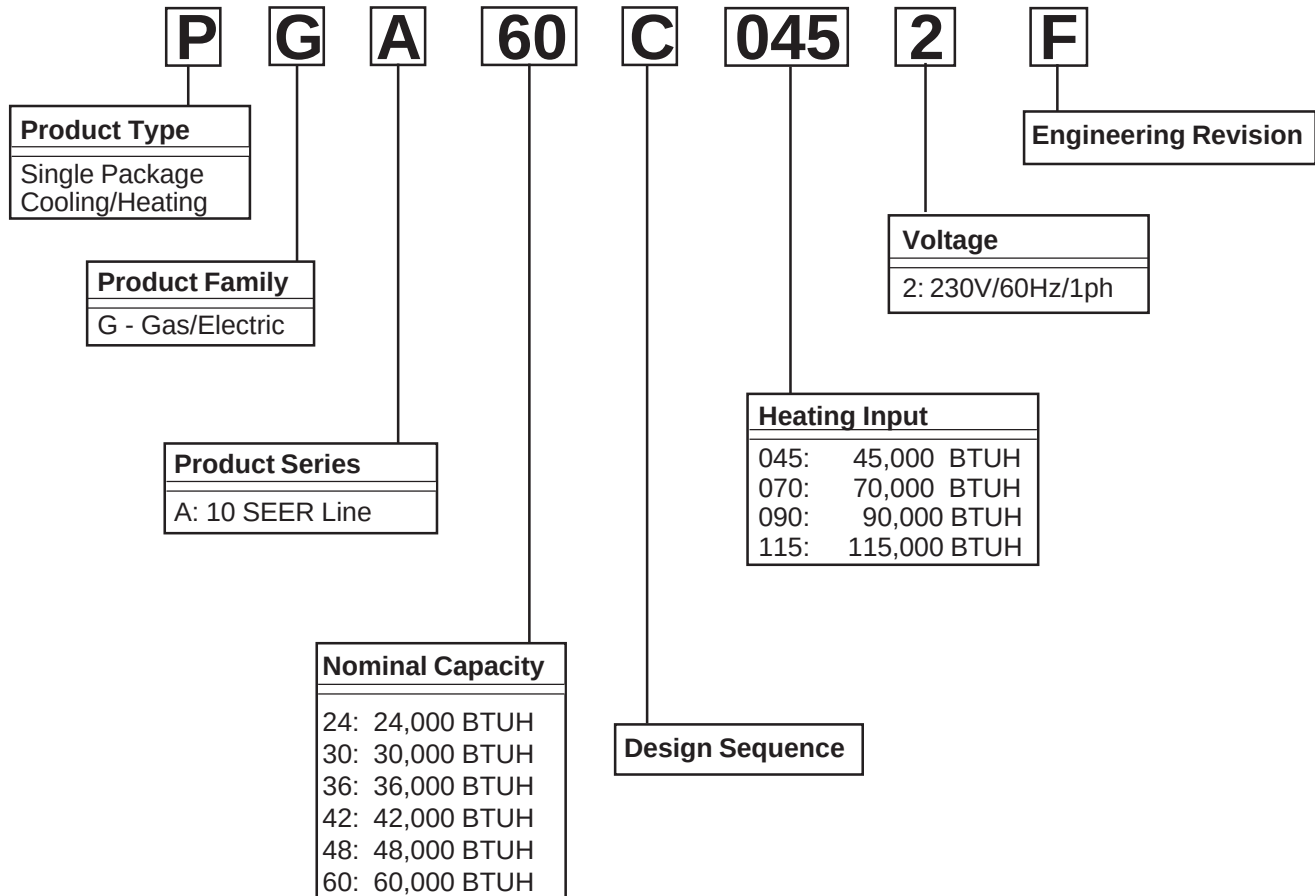
This manual is to be used by qualified HVAC technicians only. Amana does not assume any responsibility for property damage or personal injury due to improper service procedures performed by an unqualified person.

RT6311003
Revision 0
July 2002

PRODUCT IDENTIFICATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. When engineering and manufacturing changes take place where interchangeability of components are affected, the manufacturing number will change.

It is very important to use the model and manufacturing numbers at all times when requesting service or parts information.



WARNING

IF REPAIRS ARE ATTEMPTED BY UNQUALIFIED PERSONS, DANGEROUS CONDITIONS (SUCH AS EXPOSURE TO ELECTRICAL SHOCK) MAY RESULT. THIS MAY CAUSE SERIOUS INJURY OR DEATH.



CAUTION

AMANA WILL NOT BE RESPONSIBLE FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU PERFORM SERVICE ON YOUR OWN PRODUCT, YOU ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT.

PRODUCT DESIGN

Amana PGA Package Gas 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. The PGA60C0902F and PGA60C1152F gas package units are not recommended for vertical airflow applications. 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" pipe is provided for removal of condensate water from the indoor coil. In order to provide proper condensate flow, a drain trap is built into the unit. (Do not reduce the drain line size).

Refrigerant flow control is achieved by use of restrictor orifices or thermostatic expansion valves (TXV).

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

The outdoor fan and indoor blower motors are single phase capacitor type motors.

Air for condensing (cooling cycle) or evaporation (heating 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.

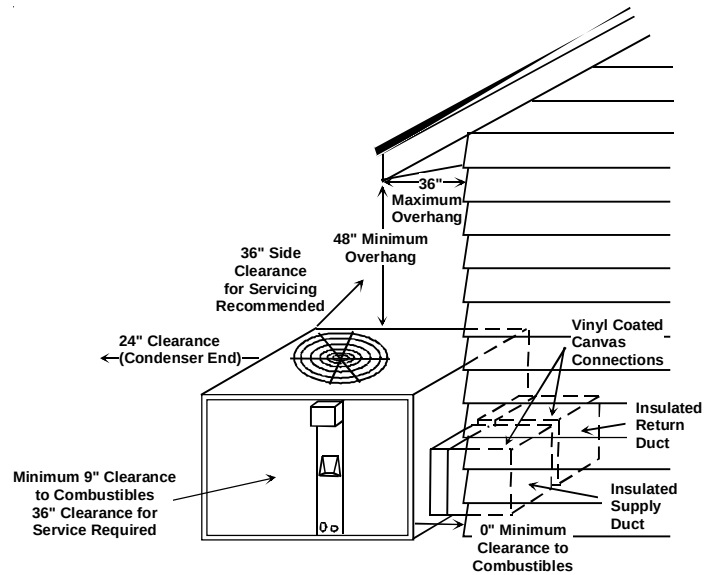
Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

Some models of PGA series package units use the Compliant Scroll compressor, there are a number of design characteristics which are different from the traditional reciprocating compressor.

- Phase 2 Scroll compressors will not have a discharge thermostat.
- 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.
- These Scroll compressors use white oil which is compatible with 3GS. 3GS oil may be used if additional oil is required.
- Phase 2 Scroll compressors equalize within 0.4 seconds after shut down and do not run backward.

- 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



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 National Fuel Gas Code ANSI Z223.1.

NOTE: Unit can also use roof curb (and platform for leveling, where necessary) to utilize bottom discharge.



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.

IMPORTANT: If using bottom discharge with roof curb, ductwork should be attached to the curb prior to installing the unit.

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

PRODUCT DESIGN

High Altitude Derate

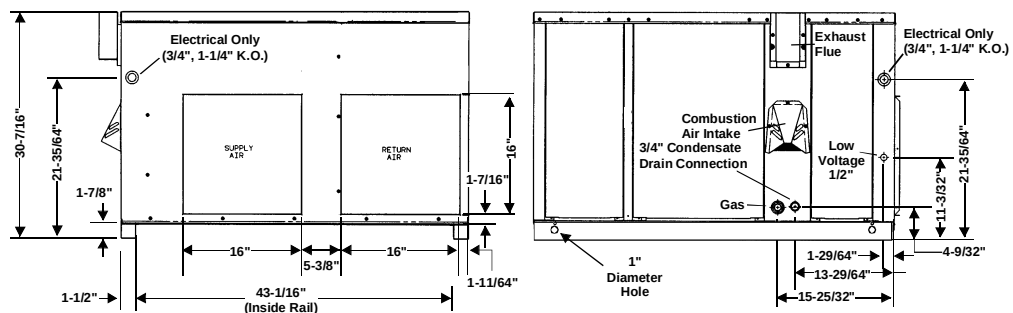
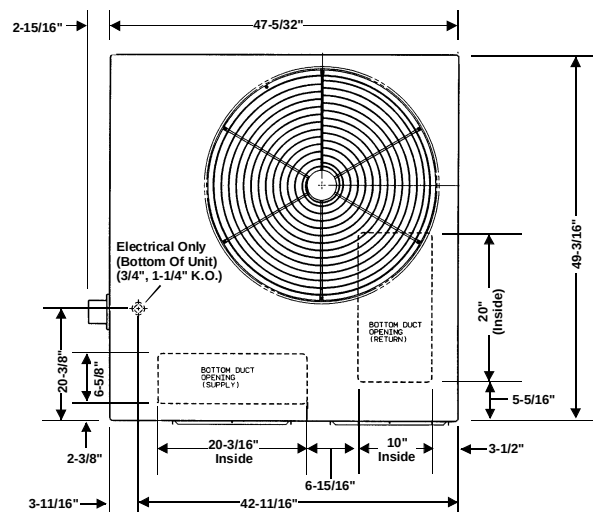
When this package unit is installed at high altitude, the appropriate High Altitude orifice kit must be installed. This is required due to the natural reduction in the density of both the gas fuel and combustion air as altitude increases. The kit will provide the proper design certified input rate within the specified altitude range. High altitude kits are not approved for use in Canada.

High altitude kits are purchased according to the installation altitude and usage of either natural or propane gas. Refer to the previous chart for a tabular listing of appropriate altitude ranges and corresponding manufacturer's high altitude Natural Gas and Propane Gas kits. It is not necessary to change the pressure switch for high altitude operation.

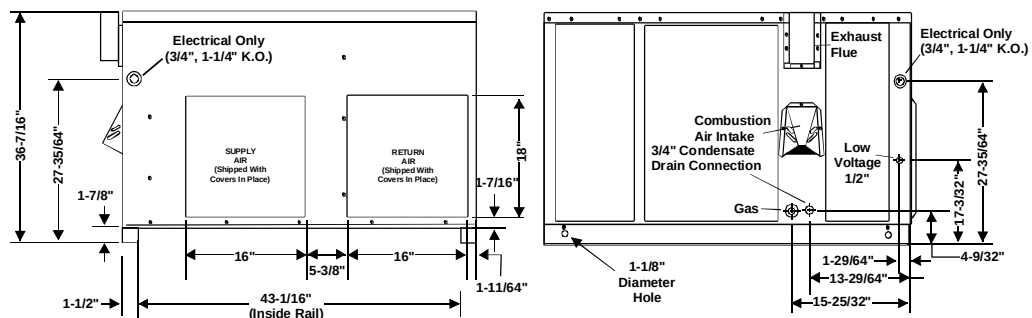
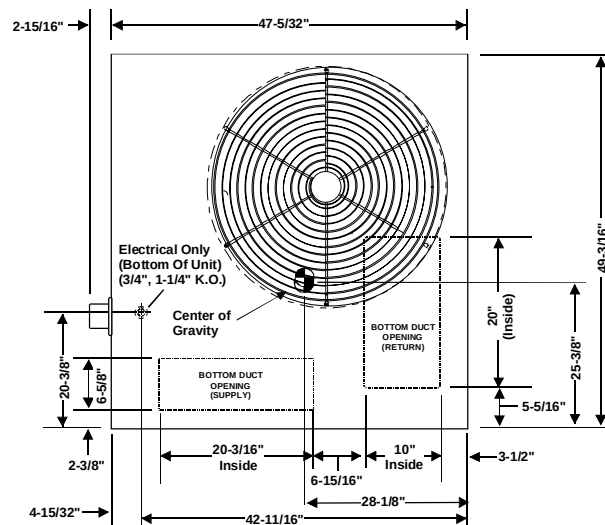
PROPANE AND HIGH ALTITUDE KITS					
Model	Gas	Altitude (Feet)	Kit	Orifice	Manifold Pressure
PGA**C**2F	Natural Propane	0 to 6,000	None LPTK09	#43 #55	3.5" w.c. 10.0" w.c.
	Natural Propane	6,001 to 11,000	HANG07 HALP09	#45 #56	3.5" w.c. 10.0" w.c.

Units installed in Canada are certified only to 4500 feet.

PRODUCT DIMENSIONS



PGA24-42C*2F**



PGA48-60C*2F**

PACKAGE GAS SPECIFICATIONS

		PGA24C0702F	PGA30C0702F	PGA36C0702F	PGA36C0902F	PGA42C0902F
COOLING CAPACITY	COOLING CAPACITY, BTUH	23,800	28,000	34,000	34,000	40,000
	SEER	10.00	10.00	10.00	10.00	10.00
HEATING CAPACITY	HEATING INPUT BTUH (U.S. & CANADIAN)	69,000	69,000	69,000	92,000	92,000
	HEATING OUTPUT BTUH (U.S. & CANADIAN)	55,200	55,200	55,200	73,600	73,600
	AFUE (%)	80	80	80	80	80
	TEMPERATURE RISE (°F)	30 - 60	30 - 60	30 - 60	45 - 75	45 - 75
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
	UNIT AMPS (TOTAL)	13.3	16.0	17.3	17.3	21.1
	MINIMUM CIRCUIT AMPACITY	17.0	20.2	21.4	21.4	25.9
	MAXIMUM OVERCURRENT PROTECTION	25	30	35	35	40
HEATING SECTION	NUMBER OF BURNERS	3	3	3	4	4
	ORIFICE SIZE NATURAL	43	43	43	43	43
	ORIFICE SIZE LP	55	55	55	55	55
COMPRESSOR	TYPE	RECIP	RECIP	RECIP	RECIP	RECIP
	RATED LOAD AMPS	10.9	13.4	14.4	14.4	17.9
	LOCKED ROTOR AMPS	60.0	69.4	82.0	82.0	96.0
CONDENSER FAN MOTOR	HORSEPOWER	1/6	1/6	1/6	1/6	1/6
	RPM	1075	1075	1075	1075	1075
	FULL LOAD AMPS	1.0	1.0	1.0	1.0	1.0
	LOCKED ROTOR AMPS	1.8	1.8	1.8	1.8	1.8
CONDENSER FAN	BLADE DIAMETER (INCHES) / NUMBER OF BLADES	22 / 3	22 / 3	22 / 3	22 / 3	22 / 3
	CFM	2400	2400	2400	2400	2400
CONDENSER COIL	FACE AREA - SQ. FT.	8.2	8.2	8.2	8.2	10.2
	NUMBER OF ROWS	1	1	1	1	1
	FINS PER INCH	20	20	20	20	20
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 4	1/2 - 4	1/2 - 4	1/2 - 4	1/3 - 4
	FULL LOAD AMPS	5.5	5.5	5.5	5.5	4.8
	LOCKED ROTOR AMPS	2.4	2.4	2.4	2.4	2.5
	MOTOR SPEED TAP - COOLING	MED-HIGH	MED-HIGH	MED-HIGH	HIGH	HIGH
	RPM / AMPS	850 / 1.4	850 / 1.6	975 / 1.9	975 / 1.9	1050 / 2.2
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 10	10 X 10	10 X 10	10 X 10	10 X 10
	RATED SCFM COOLING	800	1000	1200	1200	1350
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA - SQ. FT.	4.2	4.2	4.2	4.2	4.2
	NUMBER OF ROWS	2	2	2	2	2
	FINS PER INCH	14	14	14	14	14
	FILTER SIZE - SQ. FT. *	3.8	3.8	4.0	4.0	4.5
	DRAIN SIZE (INCHES)	3/4	3/4	3/4	3/4	3/4
HEATING LIMITS	PRIMARY LIMIT SETTING (°F)	150	150	150	170	170
	AUXILIARY LIMIT SETTING (°F)	190	190	190	190	190
	ROLLOUT LIMIT SETTING (°F)	325	325	325	325	325
GENERAL INFORMATION	EXPANSION DEVICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE
	REFRIGERANT CHARGE R-22 (Oz.)	43	46	64	64	64
	POWER SUPPLY ENTRANCE SIZE (INCHES)	3/4 1-1/4	3/4 1-1/4	3/4 1-1/4	3/4 1-1/4	3/4 1-1/4
	LOW VOLTAGE ENTRANCE SIZE (INCHES)	1/2	1/2	1/2	1/2	1/2
	SHIPPING WEIGHT LBS.	419	420	426	428	431
	OPERATING WEIGHT LBS.	405	406	412	414	417
ACCESSORIES	PROPANE GAS CONVERSION KIT	LPTK09	LPTK09	LPTK09	LPTK09	LPTK09
	COMPRESSOR SOUND BLANKET	CSB05A	CSB05A	CSB04A	CSB04A	CSB04A
	HORIZONTAL DUCT COVER KIT (2 COVERS)	CHK001A	CHK001A	CHK001A	CHK001A	CHK001A
	OVER / UNDER DUCT CONVERSION KIT	PDTR0U4A	PDTR0U4A	PDTR0U4A	PDTR0U4A	PDTR0U4A
	ROOF CURB - GAS ELECTRIC	PRC07A1	PRC07A1	PRC07A1	PRC07A1	PRC07A1
	ROOF CURB - COMBINATION	PRC08A1	PRC08A1	PRC08A1	PRC08A1	PRC08A1

¹ Units installed in Canada are certified only to 4500 feet.

* Calculated external filter size based on air velocity of 300 ft/min.

*** 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.

PACKAGE GAS SPECIFICATIONS

		PGA48C0902F	PGA48C1152F	PGA60C0902F	PGA60C1152F
COOLING CAPACITY	COOLING CAPACITY, BTUH	47,000	47,000	58,000	58,000
	SEER	10.00	10.00	10.00	10.00
HEATING CAPACITY	HEATING INPUT BTUH (U.S. & CANADIAN)	92,000	115,000	92,000	115,000
	HEATING OUTPUT BTUH (U.S. & CANADIAN)	73,600	92,000	73,600	92,000
	AFUE (%)	80	80	80	80
	TEMPERATURE RISE (°F)	45 - 75	45 - 75	45 - 75	45 - 75
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
	UNIT AMPS (TOTAL)	29.2	29.2	31.8	31.8
	MINIMUM CIRCUIT AMPACITY	36.5	36.5	38.4	38.4
	MAXIMUM OVERCURRENT PROTECTION	50	50	60	60
HEATING SECTION	NUMBER OF BURNERS	4	5	4	5
	ORIFICE SIZE NATURAL	43	43	43	43
	ORIFICE SIZE LP	55	55	55	55
COMPRESSOR	TYPE	RECIP	RECIP	SCROLL	SCROLL
	RATED LOAD AMPS	23.5	23.5	25	25
	LOCKED ROTOR AMPS	110	110	170	170
CONDENSER FAN MOTOR	HORSEPOWER	1/3	1/3	1/3	1/3
	RPM	1100	1100	1100	1100
	FULL LOAD AMPS	2.4	2.4	2.4	2.4
	LOCKED ROTOR AMPS	5.4	5.4	5.4	5.4
CONDENSER FAN	BLADE DIAMETER (INCHES) / NUMBER OF BLADES	22 / 4	22 / 4	22 / 4	22 / 4
	CFM	3000	3000	3000	3000
CONDENSER COIL	FACE AREA - SQ. FT.	12	12	12	12
	NUMBER OF ROWS	1	1	2	2
	FINS PER INCH	20	20	20	20
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	3/4 - 3	3/4 - 3	3/4 - 3	3/4 - 3
	FULL LOAD AMPS	4.7	4.7	4.7	4.7
	LOCKED ROTOR AMPS	12.2	12.2	12.2	12.2
	MOTOR SPEED TAP - COOLING	MED	MED	HIGH	HIGH
	RPM / AMPS	920 / 3.3	920 / 3.3	1070 / 4.4	1070 / 4.4
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	11 X 10	11 X 10	11 X 10	11 X 10
	RATED SCFM COOLING	1600	1600	1750	1750
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA - SQ. FT.	5.2	5.2	5.2	5.2
	NUMBER OF ROWS	3	3	3	3
	FINS PER INCH	14	14	14	14
	FILTER SIZE - SQ. FT. *	5.3	5.3	5.8	5.8
	DRAIN SIZE (INCHES)	3/4	3/4	3/4	3/4
HEATING LIMITS	PRIMARY LIMIT SETTING (°F)	165	165	165	165
	AUXILIARY LIMIT SETTING (°F)	150	150	150	150
	ROLLOUT LIMIT SETTING (°F)	325	325	325	325
GENERAL INFORMATION	EXPANSION DEVICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE
	REFRIGERANT CHARGE R-22 (Oz.)	85	85	147	147
	POWER SUPPLY ENTRANCE SIZE (INCHES)	3/4 1-1/4	3/4 1-1/4	3/4 1-1/4	3/4 1-1/4
	LOW VOLTAGE ENTRANCE SIZE (INCHES)	1/2	1/2	1/2	1/2
	SHIPPING WEIGHT LBS.	461	467	478	484
	OPERATING WEIGHT LBS.	441	447	458	464
ACCESSORIES	PROPANE GAS CONVERSION KIT	LPTK09	LPTK09	LPTK09	LPTK09
	COMPRESSOR SOUND BLANKET	CSB02A	CSB02A	CSB09A	CSB09A
	HORIZONTAL DUCT COVER KIT (2 COVERS)*	CHK002A	CHK002A	CHK002A	CHK002A
	OVER / UNDER DUCT CONVERSION KIT	PDTR0U6A	PDTR0U6A	PDTR0U6A	PDTR0U6A
	ROOF CURB - GAS ELECTRIC	PRC07A1	PRC07A1	PRC07A1	PRC07A1
	ROOF CURB - COMBINATION	PRC08A1	PRC08A1	PRC08A1	PRC08A1

¹ Units installed in Canada are certified only to 4500 feet.

* Calculated external filter size based on air velocity of 300 ft/min.

**** Note:** Model PGA60C0902E and PGA60C1152E are shipped from the factory for horizontal discharge.

Models PGA60C0902E and PGA60C1152E with high static capability are shipped from the factory for downflow applications and should not be confused with the E models.

*** 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.

BLOWER PERFORMANCE DATA

Dry Coil Data (Horizontal)

PGA24, 30C0702F								
UNIT STATIC	LOW		MED-LOW		MED-HIGH		HIGH	
	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
0.1	1000	51	1170	44	1380	37	1630	31
0.2	960	53	1140	45	1330	38	1560	33
0.3	930	55	1100	46	1270	40	1480	35
0.4	880	58	1040	49	1200	43	1410	36
0.5	820	NR	980	52	1130	45	1330	38
0.6	710	NR	910	56	1060	48	1230	42
0.7	630	NR	760	NR	960	53	1130	45
0.8	460	NR	600	NR	760	NR	1020	50

PGA36C0702F								
UNIT STATIC	LOW		MED-LOW		MED-HIGH		HIGH	
	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
0.1	980	52	1160	44	1350	38	1580	32
0.2	950	54	1120	46	1290	40	1510	34
0.3	910	56	1070	48	1230	42	1430	36
0.4	860	59	1020	50	1150	44	1350	38
0.5	800	NR	950	54	1090	47	1280	40
0.6	690	NR	870	59	1010	51	1180	43
0.7	600	NR	730	NR	920	56	1080	47
0.8	440	NR	630	NR	720	NR	910	56

PGA36C0902F								
UNIT STATIC	LOW		MED-LOW		MED-HIGH		HIGH	
	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
0.1	980	70	1150	59	1330	51	1550	44
0.2	940	72	1110	61	1290	53	1490	46
0.3	910	75	1060	64	1220	56	1420	48
0.4	860	NR	1010	67	1160	59	1350	50
0.5	800	NR	960	71	1090	63	1270	54
0.6	700	NR	880	NR	1020	67	1200	57
0.7	560	NR	740	NR	910	75	1090	63
0.8	450	NR	560	NR	750	NR	980	70

PGA42C0902F				
UNIT STATIC	LOW		HIGH	
	CFM	RISE	CFM	RISE
0.1	1240	55	1500	45
0.2	1200	57	1430	48
0.3	1160	59	1370	50
0.4	1110	61	1300	52
0.5	1050	65	1220	56
0.6	970	70	1140	60
0.7	850	NR	1040	66
0.8	700	NR	850	NR

* NR Not Recommended

BLOWER PERFORMANCE DATA

Dry Coil Data (Downshot)

PGA24, 30C0702F								
UNIT STATIC	LOW		MED-LOW		MED-HIGH		HIGH	
	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
0.1	960	53	1100	46	1260	41	1410	36
0.2	910	56	1070	48	1210	42	1350	38
0.3	860	59	1020	50	1140	45	1300	39
0.4	780	NR	950	54	1070	48	1230	42
0.5	720	NR	850	60	1000	51	1140	45
0.6	660	NR	780	NR	870	59	1020	50
0.7	590	NR	700	NR	780	NR	890	57
0.8	450	NR	610	NR	690	NR	810	NR

PGA36C0702F								
UNIT STATIC	LOW		MED-LOW		MED-HIGH		HIGH	
	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
0.1	950	54	1100	46	1250	41	1410	36
0.2	910	56	1050	49	1200	43	1350	38
0.3	850	60	1000	51	1140	45	1290	40
0.4	770	NR	910	56	1060	48	1220	42
0.5	710	NR	820	60	960	53	1130	45
0.6	650	NR	760	NR	860	59	1000	51
0.7	590	NR	690	NR	770	NR	890	57
0.8	460	NR	590	NR	690	NR	800	NR

PGA36C0902F								
UNIT STATIC	LOW		MED-LOW		MED-HIGH		HIGH	
	CFM	RISE	CFM	RISE	CFM	RISE	CFM	RISE
0.1	940	72	1090	63	1230	55	1400	49
0.2	900	75	1050	65	1180	58	1330	51
0.3	860	NR	990	69	1130	60	1270	54
0.4	770	NR	930	73	1050	65	1190	57
0.5	710	NR	820	NR	980	70	1130	60
0.6	640	NR	760	NR	860	NR	1030	66
0.7	550	NR	670	NR	770	NR	890	NR
0.8	470	NR	550	NR	660	NR	780	NR

PGA42C0902F				
UNIT STATIC	LOW		HIGH	
	CFM	RISE	CFM	RISE
0.1	1180	58	1370	50
0.2	1130	60	1310	52
0.3	1070	64	1240	55
0.4	1020	67	1160	59
0.5	900	NR	1100	62
0.6	830	NR	980	70
0.7	760	NR	870	NR
0.8	660	NR	780	NR

* NR Not Recommended

BLOWER PERFORMANCE DATA

Dry Coil Data (Horizontal)

PGA48, 60C0902F									
UNIT STATIC	LOW			MEDIUM			HIGH		
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	RISE
0.2	1440	680	47	1725	800	NR	2270	1085	NR
0.3	1420	665	48	1685	775	NR	2185	1045	NR
0.4	1400	650	49	1630	745	NR	2095	1005	NR
0.5	1370	625	50	1570	715	NR	2000	970	NR
0.6	1325	610	51	1525	680	45	1920	930	NR
0.7	1275	590	53	1440	645	47	1815	885	NR
0.8	1225	555	56	1350	610	51	1705	840	NR

PGA48, 60C1152F									
UNIT STATIC	LOW			MEDIUM			HIGH		
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	RISE
0.2	1435	680	59	1720	800	50	2265	1085	NR
0.3	1415	665	60	1680	775	51	2180	1045	NR
0.4	1395	650	61	1625	745	52	2090	1005	NR
0.5	1365	625	62	1565	715	54	1995	970	NR
0.6	1320	610	65	1520	680	56	1915	930	45
0.7	1270	590	67	1435	645	59	1810	885	47
0.8	1220	555	70	1345	610	63	1700	840	50

* NR Not Recommended

Dry Coil Data (Downshot)

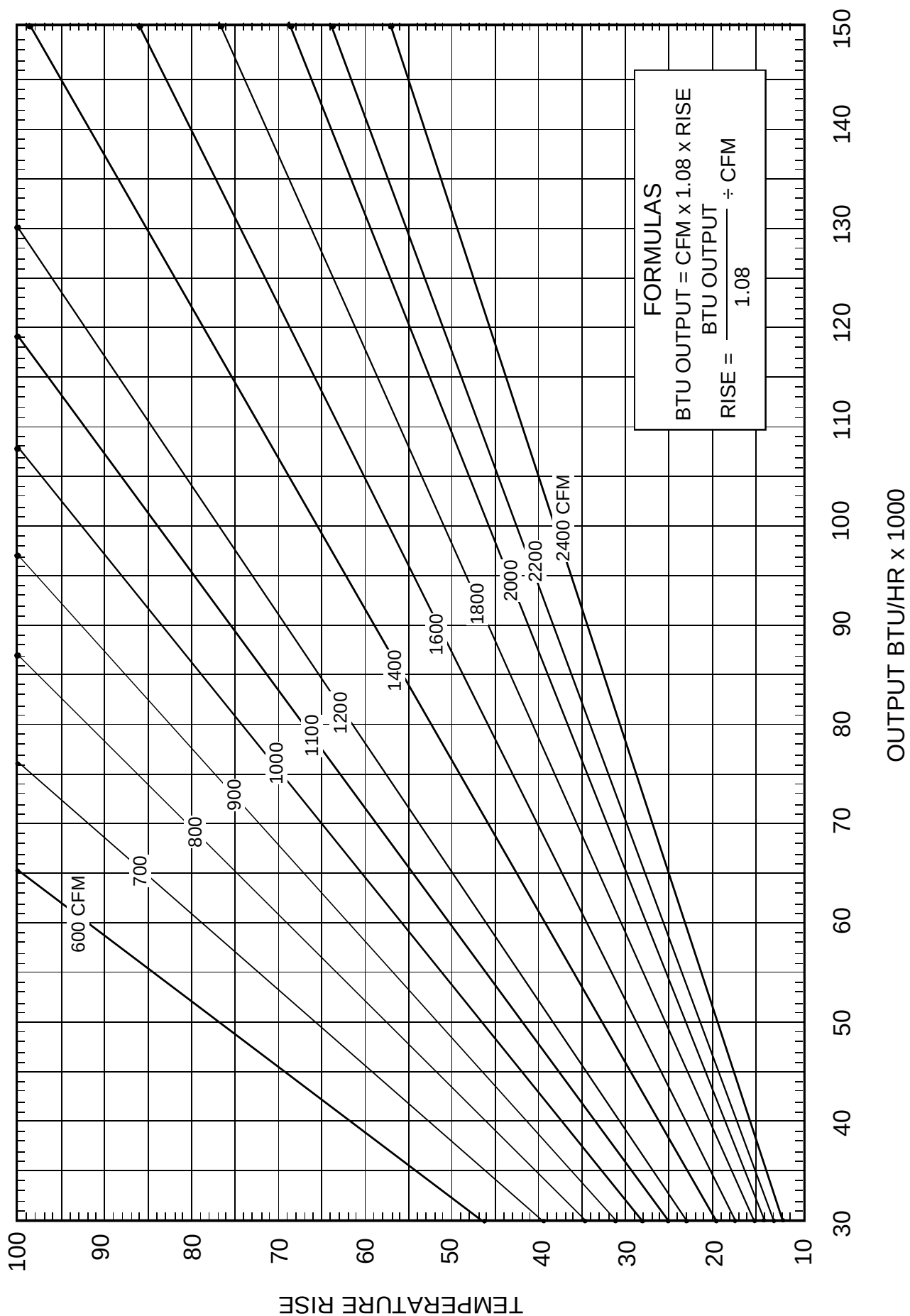
PGA48, 60C0902F									
UNIT STATIC	LOW			MEDIUM			HIGH		
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	RISE
0.2	1300	610	52	1490	665	46	1750	870	NR
0.3	1280	600	53	1420	645	48	1655	845	NR
0.4	1255	570	54	1350	630	51	1595	835	NR
0.5	1200	550	57	1300	600	52	1530	800	45
0.6	1145	540	60	1250	580	55	1445	775	47
0.7	1085	520	63	1200	565	57	1400	765	49
0.8	1025	505	67	1145	540	60	1330	735	51

PGA48, 60C1152F									
UNIT STATIC	LOW			MEDIUM			HIGH		
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	RISE
0.2	1295	610	66	1485	665	57	1745	870	49
0.3	1275	600	67	1415	645	60	1650	845	52
0.4	1250	570	68	1345	630	63	1590	835	54
0.5	1195	550	71	1295	600	66	1525	800	56
0.6	1140	540	75	1245	580	68	1440	775	59
0.7	1080	520	NR	1195	565	71	1395	765	61
0.8	1020	505	NR	1140	540	75	1325	735	64

* NR Not Recommended

BLOWER PERFORMANCE DATA

BTU OUTPUT vs TEMPERATURE RISE CHART



COOLING OPERATION

MODEL: PGA24C*2F**

* Entering Indoor Dry Bulb Temperature

* Entering Indoor Dry Bulb Temperature

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PGA24C***2F

		Outdoor Ambient Temperature																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		65								75								85								95								105								115																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
IDB*	Airflow	59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
80	900	MBh	23.7	24.3	25.9	27.7	23.2	23.7	25.3	27.1	22.6	23.1	24.7	26.4	22.1	22.6	24.1	25.8	21.0	21.4	22.9	24.5	19.4	19.9	21.2	22.7	0.90	0.85	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.75	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
		S/T	22	21	18	15	22	21	18	15	22	21	18	15	23	21	19	15	21	21	18	15	20	20	17	14																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PGA30C***2F

		Outdoor Ambient Temperature																															
		65								75				85				95								105				115			
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	59	63	67	71				
	1100	MBh	27.0	28.0	30.7	-	26.4	27.4	30.0	-	25.8	26.7	29.3	-	25.2	26.1	28.6	-	23.9	24.8	27.1	-	22.1	22.9	25.1	-	0.86	0.72	0.50	-			
		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	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-	16	14	10	-			
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	16	14	10	-			
		KW	2.53	2.58	2.66	-	2.72	2.78	2.86	-	2.89	2.95	3.05	-	3.04	3.10	3.20	-	3.16	3.23	3.34	-	3.27	3.35	3.46	-	3.27	3.35	3.46	-			
		AMPS	10.6	10.9	11.2	-	11.4	11.6	12.0	-	12.2	12.5	12.9	-	13.0	13.3	13.7	-	13.7	14.0	14.4	-	14.4	14.8	15.2	-	14.4	14.8	15.2	-			
	1000	HI PR	176	190	200	-	198	213	225	-	225	242	256	-	256	276	291	-	288	310	328	-	318	343	362	-	318	343	362	-			
		LO PR	60	64	70	-	64	68	74	-	66	71	77	-	70	74	81	-	73	78	85	-	76	80	88	-	76	80	88	-			
		MBh	26.6	27.6	30.3	-	26.0	27.0	29.5	-	25.4	26.3	28.8	-	24.8	25.7	28.1	-	23.5	24.4	26.7	-	21.8	22.6	24.8	-	21.8	22.6	24.8	-			
		S/T	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.76	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.82	0.69	0.48	-	0.82	0.68	0.47	-			
		Delta T	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-	17	14	11	-			
900	KW	2.51	2.57	2.65	-	2.70	2.76	2.85	-	2.87	2.93	3.03	-	3.02	3.09	3.19	-	3.15	3.22	3.32	-	3.25	3.33	3.44	-	3.25	3.33	3.44	-				
	AMPS	10.6	10.8	11.1	-	11.3	11.6	11.9	-	12.2	12.4	12.8	-	12.9	13.2	13.6	-	13.6	13.9	14.4	-	14.4	14.7	15.1	-	14.4	14.7	15.1	-				
	HI PR	175	188	199	-	196	211	223	-	223	240	254	-	254	274	289	-	286	308	325	-	316	340	359	-	316	340	359	-				
	LO PR	60	64	70	-	63	67	74	-	66	70	77	-	69	74	80	-	73	77	84	-	75	80	87	-	75	80	87	-				
	MBh	26.2	27.2	29.8	-	25.6	26.6	29.1	-	25.0	25.9	28.4	-	24.4	25.3	27.7	-	23.2	24.0	26.3	-	21.5	22.3	24.4	-	21.5	22.3	24.4	-				
	1100	S/T	0.69	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.61	0.43	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.80	0.66	0.46	-	0.80	0.66	0.46	-			
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-			
		KW	2.48	2.53	2.61	-	2.67	2.72	2.81	-	2.83	2.89	2.99	-	2.98	3.04	3.14	-	3.10	3.17	3.27	-	3.21	3.28	3.39	-	3.21	3.28	3.39	-			
		AMPS	10.4	10.7	11.0	-	11.2	11.4	11.7	-	12.0	12.3	12.6	-	12.7	13.0	13.4	-	13.4	13.7	14.2	-	14.2	14.5	14.9	-	14.2	14.5	14.9	-			
		HI PR	172	185	196	-	193	208	219	-	220	236	250	-	250	269	284	-	281	303	320	-	311	335	353	-	311	335	353	-			
	LO PR	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	83	-	74	78	86	-	74	78	86	-				
		1100	MBh	27.5	28.3	30.6	32.9	26.9	27.7	29.9	32.1	26.2	27.0	29.2	31.4	25.6	26.3	28.5	30.6	24.3	25.0	27.1	29.1	22.5	23.2	25.1	26.9	22.5	23.2	25.1	26.9		
			S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.61	0.39	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43	0.98	0.88	0.66	0.43		
			Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10	18	17	14	10		
			KW	2.55	2.60	2.68	2.77	2.74	2.80	2.89	2.98	2.91	2.98	3.07	3.17	3.06	3.13	3.23	3.34	3.19	3.26	3.37	3.48	3.30	3.37	3.49	3.60	3.30	3.37	3.49	3.60		
AMPS			10.7	10.9	11.3	11.6	11.5	11.7	12.0	12.4	12.3	12.6	13.0	13.4	13.1	13.4	13.8	14.2	13.8	14.1	14.6	15.1	14.6	14.9	15.3	15.9	14.6	14.9	15.3	15.9			
1000		HI PR	178	192	202	211	200	215	227	237	227	245	258	269	259	279	294	307	291	313	331	345	322	346	366	381	322	346	366	381			
		LO PR	61	65	71	75	64	69	75	80	67	71	78	83	70	75	82	87	74	78	86	91	76	81	89	94	76	81	89	94			
		MBh	27.1	27.9	30.2	32.4	26.5	27.2	29.5	31.6	25.8	26.6	28.8	30.9	25.2	25.9	28.1	30.1	23.9	24.6	26.7	28.6	22.2	22.8	24.7	26.5	22.2	22.8	24.7	26.5			
		S/T	0.82	0.73	0.55	0.36	0.85	0.76	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.94	0.84	0.63	0.41	0.94	0.84	0.63	0.41			
		Delta T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	20	19	15	11	19	18	14	10	19	18	14	10			
	1100	KW	2.53	2.59	2.67	2.75	2.73	2.78	2.87	2.97	2.90	2.96	3.05	3.15	3.05	3.11	3.21	3.32	3.17	3.24	3.35	3.46	3.28	3.36	3.47	3.58	3.28	3.36	3.47	3.58			
		AMPS	10.7	10.9	11.2	11.6	11.4	11.6	12.0	12.4	12.3	12.5	12.9	13.3	13.0	13.3	13.7	14.1	13.8	14.1	14.5	15.0	14.5	14.8	15.3	15.8	14.5	14.8	15.3	15.8			
		HI PR	177	190	201	210	198	214	225	235	226	243	256	267	257	277	292	305	289	311	329	343	319	344	363	379	319	344	363	379			
		LO PR	61	64	70	75	64	68	74	79	67	71	77	82	70	74	81	86	73	78	85	91	76	81	88	94	76	81	88	94			
		MBh	26.7	27.5	29.7	31.9	26.1	26.8	29.0	31.2	25.4	26.2	28.4	30.4	24.8	25.6	27.7	29.7	23.6	24.3	26.3	28.2	21.8	22.5	24.3	26.1	21.8	22.5	24.3	26.1			
	1000	S/T	0.79	0.70	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.36	0.86	0.77	0.58	0.38	0.90	0.80	0.61	0.39	0.90	0.81	0.61	0.39	0.90	0.81	0.61	0.39			
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	17	11	22	20	16	11	20	19	15	11	20	19	15	11			
		KW	2.50	2.55	2.63	2.71	2.69	2.75	2.83	2.92	2.86	2.92	3.01	3.11	3.00	3.07	3.17	3.27	3.13	3.20	3.30	3.41	3.24	3.31	3.42	3.53	3.24	3.31	3.42	3.53			
		AMPS	10.5	10.7	11.0	11.4	11.3	11.5	11.8	12.2	12.1	12.4	12.7	13.1	12.8	13.1	13.5	13.9	13.6	13.9	14.3	14.8	14.3	14.6	15.0	15.6	14.3	14.6	15.0	15.6			
		HI PR	174	187	198	206	195	210	222	231	222	239	252	263	253	272	287	299	284	306	323	337	314	338	357	372	314	338	357	372			
LO PR	60	63	69	74	63	67	73	78	65	70	76	81	69	73	80	85	72	77	84	89	74	79	87	92	74	79	87	92					

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PGA30C***2F

IDB*		Outdoor Ambient Temperature																																																																								
		65										75					85					95					105					115																																										
		59					63					67					71					75					79					83					87					91					95					99					103					107					111					115		
Airflow		Entering Indoor Wet Bulb Temperature																																																																								
80	1100	MBh	28.0	28.6	30.6	32.7	27.3	27.9	29.8	31.9	26.7	27.3	29.1	31.1	26.0	26.6	28.4	30.4	24.7	25.3	27.0	28.9	22.9	23.4	25.0	26.7																																																
		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	22	21	18	15	22	21	18	15	22	21	18	15	22	21	19	15	21	21	18	15	19	20	17	14																																																
		KW	2.57	2.62	2.70	2.79	2.76	2.82	2.91	3.01	2.94	3.00	3.10	3.20	3.09	3.16	3.26	3.37	3.22	3.29	3.40	3.51	3.33	3.40	3.52	3.63																																																
		AMPS	10.8	11.0	11.3	11.7	11.6	11.8	12.1	12.5	12.4	12.7	13.1	13.5	13.2	13.5	13.9	14.4	13.9	14.3	14.7	15.2	14.7	15.0	15.5	16.0																																																
	1000	HI PR	180	194	204	213	202	217	229	239	230	247	261	272	261	281	297	310	294	316	334	349	325	350	369	385																																																
		LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95																																																
		MBh	27.6	28.2	30.1	32.2	26.9	27.5	29.4	31.4	26.3	26.9	28.7	30.7	25.6	26.2	28.0	29.9	24.4	24.9	26.6	28.4	22.6	23.1	24.6	26.3																																																
		S/T	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.59																																																
		Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	20	18	14																																																
900	KW	2.55	2.61	2.69	2.77	2.75	2.81	2.90	2.99	2.92	2.98	3.08	3.18	3.07	3.14	3.24	3.35	3.20	3.27	3.38	3.49	3.31	3.38	3.50	3.61																																																	
	AMPS	10.7	11.0	11.3	11.6	11.5	11.7	12.1	12.5	12.4	12.6	13.0	13.4	13.1	13.4	13.8	14.3	13.9	14.2	14.6	15.1	14.6	14.9	15.4	15.9																																																	
	HI PR	179	192	203	212	200	216	228	238	228	245	259	270	260	279	295	308	292	314	332	346	323	347	367	382																																																	
	LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	87	74	79	86	92	77	81	89	95																																																	
	MBh	27.2	27.8	29.6	31.7	26.5	27.1	29.0	31.0	25.9	26.5	28.3	30.2	25.3	25.8	27.6	29.5	24.0	24.5	26.2	28.0	22.2	22.7	24.3	25.9																																																	
85	1100	S/T	0.86	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.76	0.57																																																
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	19	15																																																
		KW	2.52	2.57	2.65	2.74	2.71	2.77	2.86	2.95	2.88	2.94	3.04	3.14	3.03	3.09	3.19	3.30	3.15	3.22	3.33	3.44	3.26	3.34	3.45	3.56																																																
		AMPS	10.6	10.8	11.1	11.5	11.3	11.6	11.9	12.3	12.2	12.5	12.8	13.2	12.9	13.2	13.6	14.1	13.7	14.0	14.4	14.9	14.4	14.7	15.2	15.7																																																
		HI PR	176	189	200	208	197	212	224	233	224	241	255	266	255	275	290	302	287	309	326	340	317	341	360	376																																																
	1000	LO PR	60	64	70	74	64	68	74	79	66	70	77	82	69	74	81	86	73	77	84	90	75	80	87	93																																																
		MBh	28.5	29.0	30.4	32.4	27.8	28.4	29.7	31.7	27.1	27.7	29.0	30.9	26.5	27.0	28.3	30.2	25.2	25.7	26.9	28.7	23.3	23.8	24.9	26.5																																																
		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	23	23	22	19	23	23	22	19	23	23	22	19	22	23	22	19	21	21	22	19	19	20	20	18																																																
		KW	2.59	2.64	2.73	2.81	2.79	2.85	2.94	3.03	2.96	3.02	3.12	3.22	3.11	3.18	3.29	3.40	3.24	3.32	3.43	3.54	3.36	3.43	3.55	3.67																																																
900	AMPS	10.9	11.1	11.4	11.8	11.7	11.9	12.2	12.6	12.5	12.8	13.2	13.6	13.3	13.6	14.0	14.5	14.1	14.4	14.8	15.3	14.8	15.1	15.6	16.1																																																	
	HI PR	182	195	206	215	204	219	232	242	232	249	263	275	264	284	300	313	297	320	338	352	328	353	373	389																																																	
	LO PR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	90	96																																																	
	MBh	28.1	28.6	29.9	32.0	27.4	27.9	29.3	31.2	26.7	27.3	28.6	30.5	26.1	26.6	27.9	29.7	24.8	25.3	26.5	28.2	23.0	23.4	24.5	26.2																																																	
	S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.94	0.76																																																	
80	1100	Delta T	24	24	23	19	25	24	23	20	25	24	23	20	24	24	23	20	23	23	20	21	22	21	18																																																	
		KW	2.57	2.63	2.71	2.80	2.77	2.83	2.92	3.01	2.94	3.01	3.10	3.21	3.10	3.16	3.27	3.38	3.23	3.30	3.41	3.52	3.34	3.41	3.53	3.64																																																
		AMPS	10.8	11.1	11.4	11.7	11.6	11.8	12.2	12.6	12.5	12.7	13.1	13.5	13.2	13.5	13.9	14.4	14.0	14.3	14.7	15.2	14.7	15.1	15.5	16.1																																																
		HI PR	180	194	205	214	202	218	230	240	230	248	262	273	262	282	298	311	295	317	335	350	326	351	370	386																																																
		LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	80	87	92	77	82	90	96																																																
	1000	MBh	27.6	28.2	29.5	31.5	27.0	27.5	28.8	30.7	26.3	26.9	28.1	30.0	25.7	26.2	27.4	29.3	24.4	24.9	26.1	27.8	22.6	23.1	24.1	25.8																																																
		S/T	0.91	0.87	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.87	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73																																																
		Delta T	26	25	24	21	26	25	24	21	26	25	24	21	26	26	24	21	25	25	24	21	23	24	22	19																																																
		KW	2.54	2.59	2.67	2.76	2.73	2.79	2.88	2.97	2.90	2.97	3.06	3.16	3.05	3.12	3.22	3.33	3.18	3.25	3.36	3.47	3.29	3.36	3.47	3.59																																																
		AMPS	10.7	10.9	11.2	11.6	11.4	11.7	12.0	12.4	12.3	12.6	12.9	13.4	13.0	13.3	13.7	14.2	13.8	14.1	14.5	15.0	14.5	14.8	15.3	15.8																																																
900	HI PR	177	191	202	210	199	214	226	236	226	244	257	268	258	277	293	305	290	312	329	344	320	345	364	380																																																	
	LO PR	61	65	71	75	64	68	75	79	67	71	78	83	70	75	81	87	73	78	85	91	76	81	88	94																																																	

NOTE: Shaded area is ARI Rating Conditions

* Entering Indoor Dry Bulb Temperature

COOLING OPERATION

MODEL: PGA36C***2F

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PGA36C***2F

		Outdoor Ambient Temperature										105										115								
		65					75					85					95					105					115			
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					
	1300	MBh	33.8	34.6	36.9	39.5	33.0	33.7	36.1	38.5	32.2	32.9	35.2	37.6	31.5	32.1	34.3	36.7	29.9	30.5	32.6	34.9	27.7	28.3	30.2	32.3				
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.98	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.99	0.80	0.60	1.00	1.00	0.81	0.61				
		Delta T	22	21	18	15	22	21	19	15	22	21	19	15	22	22	19	15	21	21	19	15	20	20	17	14				
		KW	2.77	2.82	2.91	3.00	2.97	3.04	3.13	3.23	3.16	3.22	3.33	3.43	3.32	3.39	3.50	3.61	3.45	3.53	3.64	3.77	3.57	3.65	3.77	3.90				
		AMPS	12.3	12.6	13.0	13.4	13.2	13.5	13.9	14.3	14.2	14.5	14.9	15.4	15.1	15.4	15.8	16.4	15.9	16.3	16.8	17.3	16.8	17.1	17.7	18.3				
		HI PR	178	191	202	211	200	215	227	237	227	244	258	269	259	278	294	307	291	313	331	345	321	346	365	381				
		LO PR	65	69	76	81	69	73	80	85	72	76	83	88	75	80	87	93	79	84	91	97	81	87	95	101				
		MBh	33.5	34.2	36.6	39.1	32.7	33.4	35.7	38.2	31.9	32.6	34.9	37.3	31.1	31.8	34.0	36.3	29.6	30.2	32.3	34.5	27.4	28.0	29.9	32.0				
	1200	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	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.59				
		Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	21	21	18	15				
		KW	2.76	2.82	2.90	2.99	2.97	3.03	3.12	3.22	3.15	3.22	3.32	3.43	3.31	3.38	3.49	3.60	3.45	3.52	3.64	3.76	3.56	3.64	3.76	3.89				
		AMPS	12.3	12.6	12.9	13.3	13.2	13.5	13.8	14.3	14.2	14.5	14.9	15.4	15.0	15.3	15.8	16.3	15.9	16.2	16.7	17.3	16.7	17.1	17.6	18.2				
		HI PR	177	191	202	210	199	214	226	236	226	244	257	268	258	277	293	306	290	312	330	344	320	345	364	380				
		LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	79	84	91	97	81	86	94	100				
		MBh	33.0	33.7	36.0	38.5	32.2	32.9	35.2	37.6	31.4	32.1	34.3	36.7	30.7	31.3	33.5	35.8	29.1	29.8	31.8	34.0	27.0	27.6	29.5	31.5				
		S/T	0.88	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				
	1100	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	25	24	21	16	24	23	20	16	23	22	19	15				
		KW	2.72	2.78	2.87	2.95	2.93	2.99	3.08	3.18	3.11	3.17	3.27	3.38	3.26	3.33	3.44	3.55	3.40	3.47	3.58	3.70	3.51	3.59	3.71	3.83				
		AMPS	12.2	12.4	12.8	13.2	13.0	13.3	13.6	14.1	14.0	14.3	14.7	15.2	14.8	15.1	15.6	16.1	15.7	16.0	16.5	17.0	16.5	16.8	17.4	18.0				
		HI PR	174	188	198	207	196	211	222	232	223	239	253	264	253	273	288	300	285	307	324	338	315	339	358	373				
		LO PR	64	68	74	79	67	72	78	83	70	75	81	87	74	78	86	91	77	82	90	95	80	85	93	99				
		MBh	34.4	35.1	36.7	39.2	33.6	34.3	35.9	38.3	32.8	33.4	35.0	37.4	32.0	32.6	34.2	36.5	30.4	31.0	32.5	34.6	28.2	28.7	30.1	32.1				
		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	22	19	22	22	22	19	20	20	21	18				
	1300	KW	2.79	2.85	2.93	3.03	3.00	3.06	3.16	3.26	3.18	3.25	3.35	3.46	3.34	3.42	3.53	3.64	3.48	3.56	3.68	3.80	3.60	3.68	3.80	3.93				
		AMPS	12.4	12.7	13.1	13.5	13.3	13.6	14.0	14.4	14.3	14.6	15.0	15.5	15.2	15.5	16.0	16.5	16.0	16.4	16.9	17.5	16.9	17.3	17.8	18.4				
		HI PR	180	193	204	213	202	217	229	239	229	247	261	272	261	281	297	310	294	316	334	348	325	349	369	385				
		LO PR	66	70	76	81	70	74	81	86	72	77	84	89	76	81	88	94	80	85	92	98	82	88	96	102				
		MBh	34.1	34.7	36.4	38.8	33.3	33.9	35.5	37.9	32.5	33.1	34.7	37.0	31.7	32.3	33.8	36.1	30.1	30.7	32.1	34.3	27.9	28.4	29.8	31.8				
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.95	0.77				
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	24	25	24	20	23	24	23	20	21	22	22	19				
		KW	2.78	2.84	2.93	3.02	2.99	3.05	3.15	3.25	3.17	3.24	3.35	3.45	3.34	3.41	3.52	3.63	3.47	3.55	3.67	3.79	3.59	3.67	3.79	3.92				
	1200	AMPS	12.4	12.7	13.0	13.4	13.3	13.6	13.9	14.4	14.3	14.6	15.0	15.5	15.1	15.5	15.9	16.5	16.0	16.4	16.8	17.4	16.9	17.2	17.8	18.4				
		HI PR	179	193	204	212	201	216	228	238	229	246	260	271	260	280	296	309	293	315	333	347	324	348	368	384				
		LO PR	66	70	76	81	69	74	80	86	72	77	84	89	76	80	88	94	79	84	92	98	82	87	95	101				
		MBh	33.6	34.2	35.8	38.2	32.8	33.4	35.0	37.3	32.0	32.6	34.2	36.4	31.2	31.8	33.3	35.6	29.7	30.2	31.7	33.8	27.5	28.0	29.3	31.3				
		S/T	0.92	0.89	0.80	0.65	0.95	0.92	0.83	0.67	0.98	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	24	21	25	25	24	21	23	23	22	19				
		KW	2.75	2.80	2.89	2.98	2.95	3.01	3.11	3.21	3.13	3.20	3.30	3.41	3.29	3.36	3.47	3.58	3.43	3.50	3.61	3.73	3.54	3.62	3.74	3.86				
		AMPS	12.3	12.5	12.9	13.3	13.1	13.4	13.8	14.2	14.1	14.4	14.8	15.3	14.9	15.3	15.7	16.2	15.8	16.1	16.6	17.2	16.6	17.0	17.5	18.1				
	1100	HI PR	176	190	200	209	198	213	225	234	225	242	255	266	256	275	291	303	288	310	327	341	318	342	362	377				
		LO PR	64	69	75	80	68	72	79	84	71	75	82	88	74	79	86	92	78	83	91	96	81	86	94	100				

NOTE: Shaded area is ARI Rating Conditions

* Entering Indoor Dry Bulb Temperature

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PGA42C***2F

		Outdoor Ambient Temperature																																													
		65								75								85								95								105								115					
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	59	63	67	71																		
	1450	MBh	38.4	39.8	43.6	-	37.5	38.9	42.6	-	36.6	38.0	41.6	-	35.8	37.1	40.6	-	34.0	35.2	38.6	-	31.5	32.6	35.7	-	31.5	32.6	35.7	-																	
		S/T	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.88	0.73	0.51	-	0.89	0.74	0.51	-	0.89	0.74	0.51	-																	
		Delta T	19	16	12	-	19	16	13	-	19	16	13	-	19	17	13	-	19	16	12	-	18	15	12	-	18	15	12	-																	
		KW	3.28	3.34	3.45	-	3.52	3.60	3.71	-	3.74	3.82	3.94	-	3.93	4.01	4.14	-	4.09	4.18	4.31	-	4.23	4.32	4.46	-	4.23	4.32	4.46	-																	
		AMPS	14.3	14.6	15.0	-	15.3	15.6	16.1	-	16.4	16.8	17.3	-	17.4	17.8	18.3	-	18.4	18.8	19.4	-	19.4	19.8	20.4	-	19.4	19.8	20.4	-																	
		HI PR	178	191	202	-	200	215	227	-	227	244	258	-	259	278	294	-	291	313	331	-	321	346	365	-	321	346	365	-																	
	1350	LO PR	62	66	72	-	66	70	76	-	68	73	79	-	72	76	83	-	75	80	87	-	78	83	90	-	78	83	90	-																	
		MBh	38.1	39.4	43.2	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	35.4	36.7	40.2	-	33.6	34.9	38.2	-	31.2	32.3	35.4	-	31.2	32.3	35.4	-																	
		S/T	0.76	0.63	0.44	-	0.78	0.66	0.45	-	0.80	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-	0.87	0.73	0.50	-																	
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	18	16	12	-																	
		KW	3.27	3.34	3.44	-	3.51	3.59	3.70	-	3.73	3.81	3.93	-	3.92	4.00	4.13	-	4.08	4.17	4.30	-	4.22	4.31	4.45	-	4.22	4.31	4.45	-																	
		AMPS	14.3	14.6	15.0	-	15.3	15.6	16.0	-	16.4	16.8	17.2	-	17.4	17.8	18.3	-	18.4	18.8	19.3	-	19.4	19.8	20.4	-	19.4	19.8	20.4	-																	
	1250	HI PR	177	191	202	-	199	214	226	-	226	244	257	-	258	277	293	-	290	312	330	-	321	345	364	-	321	345	364	-																	
		LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-	78	83	90	-	78	83	90	-																	
		MBh	37.5	38.9	42.6	-	36.6	37.9	41.6	-	35.7	37.0	40.6	-	34.9	36.1	39.6	-	33.1	34.3	37.6	-	30.7	31.8	34.8	-	30.7	31.8	34.8	-																	
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.84	0.70	0.48	-	0.84	0.70	0.48	-																	
		Delta T	20	17	13	-	20	18	13	-	20	18	13	-	21	18	13	-	20	18	13	-	19	16	12	-	19	16	12	-																	
		KW	3.23	3.29	3.39	-	3.47	3.54	3.65	-	3.68	3.76	3.87	-	3.86	3.95	4.07	-	4.02	4.11	4.24	-	4.16	4.25	4.39	-	4.16	4.25	4.39	-																	
	1450	AMPS	14.1	14.4	14.8	-	15.1	15.4	15.8	-	16.2	16.5	17.0	-	17.2	17.5	18.0	-	18.1	18.5	19.1	-	19.1	19.5	20.1	-	19.1	19.5	20.1	-																	
		HI PR	174	188	198	-	196	211	222	-	223	239	253	-	253	273	288	-	285	307	324	-	315	339	358	-	315	339	358	-																	
		LO PR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-	76	81	89	-																	
		MBh	39.1	40.2	43.6	46.8	38.2	39.3	42.5	45.7	37.3	38.4	41.5	44.6	36.4	37.4	40.5	43.5	34.5	35.6	38.5	41.3	32.0	32.9	35.7	38.3	32.0	32.9	35.7	38.3																	
		S/T	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.93	0.83	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.89	0.68	0.43	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44																	
		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	20	19	15	11																	
	1350	KW	3.30	3.37	3.47	3.58	3.55	3.62	3.74	3.86	3.77	3.85	3.97	4.10	3.96	4.05	4.18	4.31	4.12	4.21	4.35	4.49	4.26	4.36	4.50	4.65	4.26	4.36	4.50	4.65																	
		AMPS	14.4	14.7	15.1	15.6	15.4	15.7	16.2	16.7	16.6	16.9	17.4	18.0	17.6	18.0	18.5	19.1	18.6	19.0	19.6	20.2	19.6	20.0	20.6	21.3	19.6	20.0	20.6	21.3																	
		HI PR	180	193	204	213	202	217	229	239	229	247	261	272	261	281	297	310	294	316	334	348	325	349	369	385	325	349	369	385																	
		LO PR	63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	90	76	81	88	94	79	84	91	97	79	84	91	97																	
		MBh	38.7	39.8	43.1	46.3	37.8	38.9	42.1	45.2	36.9	38.0	41.1	44.1	36.0	37.1	40.1	43.1	34.2	35.2	38.1	40.9	31.7	32.6	35.3	37.9	31.7	32.6	35.3	37.9																	
		S/T	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.91	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43	0.99	0.88	0.67	0.43																	
	1250	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	21	20	16	11																	
		KW	3.30	3.36	3.47	3.57	3.54	3.62	3.73	3.85	3.76	3.84	3.96	4.09	3.95	4.04	4.17	4.30	4.11	4.20	4.34	4.48	4.25	4.35	4.49	4.64	4.25	4.35	4.49	4.64																	
		AMPS	14.4	14.7	15.1	15.6	15.4	15.7	16.2	16.7	16.5	16.9	17.4	18.0	17.5	17.9	18.4	19.1	18.5	18.9	19.5	20.2	19.5	19.9	20.6	21.3	19.5	19.9	20.6	21.3																	
		HI PR	179	193	204	212	201	216	229	238	229	246	260	271	260	280	296	309	293	315	333	347	324	348	368	384	324	348	368	384																	
		LO PR	63	67	73	78	66	70	77	82	69	73	80	85	72	77	84	89	76	81	88	94	78	83	91	97	78	83	91	97																	
		MBh	38.1	39.2	42.5	45.6	37.2	38.3	41.5	44.5	36.3	37.4	40.5	43.5	35.5	36.5	39.5	42.4	33.7	34.7	37.5	40.3	31.2	32.1	34.8	37.3	31.2	32.1	34.8	37.3																	
	1450	S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41	0.95	0.85	0.64	0.41																	
		Delta T	23	21	18	12	24	22	18	12	24	22	18	12	24	22	18	12	23	22	18	12	22	20	16	11	22	20	16	11																	
		KW	3.25	3.32	3.42	3.53	3.49	3.57	3.68	3.80	3.71	3.79	3.91	4.03	3.90	3.98	4.11	4.24	4.06	4.14	4.28	4.42	4.19	4.29	4.43	4.57	4.19	4.29	4.43	4.57																	
		AMPS	14.2	14.5	14.9	15.4	15.2	15.5	15.9	16.5	16.3	16.7	17.1	17.7	17.3	17.7	18.2	18.8	18.3	18.7	19.2	19.9	19.2	19.7	20.3	21.0	19.2	19.7	20.3	21.0																	
		HI PR	176	190	200	209	198	213	225	234	225	242	255	266	256	276	291	303	288	310	327	341	318	343	362	377	318	343	362	377																	
		LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	74	79	86	92	77	82	89	95	77	82	89	95																	

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PGA42C***2F

		Outdoor Ambient Temperature										115														
		85										105														
		75										95														
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	1450	MBh	39.8	40.7	43.4	46.4	38.9	39.7	42.4	45.3	37.9	38.8	41.4	44.3	37.0	37.8	40.4	43.2	35.2	35.9	38.4	41.0	32.6	33.3	35.6	38.0
		S/T	0.96	0.90	0.73	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	0.99	0.81	0.60	1.00	1.00	0.84	0.62	1.00	1.00	0.84	0.63
		Delta T	24	23	20	16	25	24	20	16	24	24	20	16	23	24	21	16	22	23	20	16	21	21	19	15
		KW	3.33	3.40	3.50	3.61	3.58	3.65	3.77	3.89	3.80	3.88	4.00	4.13	3.99	4.08	4.21	4.35	4.16	4.25	4.39	4.53	4.30	4.39	4.54	4.69
		AMPS	14.5	14.8	15.3	15.7	15.5	15.9	16.3	16.9	16.7	17.1	17.6	18.2	17.7	18.1	18.6	19.3	18.7	19.1	19.7	20.4	19.7	20.2	20.8	21.5
		HI PR	182	195	206	215	204	219	232	241	232	249	263	275	264	284	300	313	297	320	337	352	328	353	373	389
	LO PR	63	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	84	92	98	
	1350	MBh	39.4	40.2	43.0	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	36.6	37.4	40.0	42.8	34.8	35.6	38.0	40.6	32.2	32.9	35.2	37.6
		S/T	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
		Delta T	25	24	21	17	26	25	21	17	26	25	21	17	25	25	22	17	24	24	21	17	22	22	20	16
KW		3.32	3.39	3.49	3.60	3.57	3.64	3.76	3.88	3.79	3.87	3.99	4.12	3.98	4.07	4.20	4.34	4.15	4.24	4.38	4.52	4.29	4.38	4.53	4.68	
AMPS		14.5	14.8	15.2	15.7	15.5	15.8	16.3	16.8	16.7	17.0	17.5	18.1	17.7	18.1	18.6	19.2	18.7	19.1	19.7	20.3	19.7	20.1	20.7	21.4	
HI PR		181	195	206	215	203	219	231	241	231	249	263	274	263	283	299	312	296	319	336	351	327	352	372	388	
1250	LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90	77	81	89	95	79	84	92	98	
	MBh	38.8	39.6	42.4	45.3	37.9	38.7	41.4	44.2	37.0	37.8	40.4	43.2	36.1	36.9	39.4	42.1	34.3	35.0	37.4	40.0	31.8	32.5	34.7	37.1	
	S/T	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	0.98	0.80	0.60	
	Delta T	26	25	22	17	26	25	22	18	26	25	22	18	26	25	22	18	25	25	22	17	23	23	20	16	
	KW	3.28	3.34	3.45	3.55	3.52	3.60	3.71	3.83	3.74	3.82	3.94	4.07	3.93	4.01	4.14	4.28	4.09	4.18	4.31	4.46	4.23	4.32	4.46	4.61	
	AMPS	14.3	14.6	15.0	15.5	15.3	15.6	16.1	16.6	16.4	16.8	17.3	17.9	17.4	17.8	18.3	19.0	18.4	18.8	19.4	20.1	19.4	19.8	20.4	21.1	
85	HI PR	178	191	202	211	200	215	227	237	227	244	258	269	259	278	294	307	291	313	331	345	321	346	365	381	
	LO PR	62	66	72	77	66	70	76	81	68	73	79	85	72	76	83	89	75	80	87	93	78	83	90	96	
	1450	MBh	40.5	41.3	43.2	46.1	39.5	40.3	42.2	45.0	38.6	39.3	41.2	44.0	37.7	38.4	40.2	42.9	35.8	36.5	38.2	40.7	33.1	33.8	35.4	37.7
		S/T	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.93	0.76	1.00	1.00	0.96	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82
		Delta T	26	25	24	21	25	26	24	21	24	25	24	21	24	24	25	21	23	23	24	21	21	21	22	20
		KW	3.35	3.42	3.53	3.64	3.61	3.68	3.80	3.92	3.83	3.91	4.04	4.17	4.02	4.11	4.24	4.38	4.19	4.28	4.42	4.57	4.34	4.43	4.58	4.73
AMPS		14.6	15.0	15.4	15.9	15.7	16.0	16.5	17.0	16.8	17.2	17.7	18.3	17.9	18.3	18.8	19.4	18.9	19.3	19.9	20.6	19.9	20.3	21.0	21.7	
HI PR		183	197	208	217	206	221	234	244	234	252	266	277	267	287	303	316	300	323	341	355	331	357	376	393	
1350	LO PR	64	68	74	79	68	72	79	84	70	75	82	87	74	79	86	91	78	82	90	96	80	85	93	99	
	MBh	40.1	40.9	42.8	45.6	39.1	39.9	41.8	44.6	38.2	39.0	40.8	43.5	37.3	38.0	39.8	42.5	35.4	36.1	37.8	40.3	32.8	33.4	35.0	37.4	
	S/T	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80	
	Delta T	27	27	25	22	27	27	25	22	26	27	25	22	25	26	26	22	24	25	25	22	22	23	24	20	
	KW	3.35	3.42	3.52	3.63	3.60	3.67	3.79	3.91	3.82	3.90	4.03	4.16	4.02	4.10	4.23	4.37	4.18	4.27	4.41	4.56	4.33	4.42	4.57	4.72	
	AMPS	14.6	14.9	15.3	15.8	15.6	16.0	16.4	17.0	16.8	17.2	17.7	18.3	17.8	18.2	18.8	19.4	18.8	19.3	19.8	20.5	19.8	20.3	20.9	21.6	
1250	HI PR	183	197	208	217	205	221	233	243	233	251	265	277	266	286	302	315	299	322	340	354	330	355	375	392	
	LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96	80	85	93	99	
	MBh	39.5	40.2	42.1	45.0	38.6	39.3	41.2	43.9	37.6	38.4	40.2	42.9	36.7	37.4	39.2	41.8	34.9	35.6	37.2	39.7	32.3	32.9	34.5	36.8	
	S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.95	0.77	
	Delta T	28	27	26	22	28	28	26	23	28	28	26	23	27	28	26	23	26	26	26	22	24	24	24	21	
	KW	3.30	3.37	3.47	3.58	3.55	3.62	3.74	3.86	3.77	3.85	3.97	4.10	3.96	4.05	4.18	4.31	4.12	4.21	4.35	4.49	4.26	4.36	4.50	4.65	
85	AMPS	14.4	14.7	15.1	15.6	15.4	15.7	16.2	16.7	16.6	16.9	17.4	18.0	17.6	18.0	18.5	19.1	18.6	19.0	19.6	20.2	19.6	20.0	20.6	21.3	
	HI PR	180	193	204	213	202	217	229	239	229	247	261	272	261	281	297	310	294	316	334	348	325	349	369	385	
	LO PR	63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	90	76	81	88	94	79	84	91	97	

NOTE: Shaded area is ARI Rating Conditions

* Entering Indoor Dry Bulb Temperature

EXPANDED PERFORMANCE DATA

MODEL: PGA48C***2F

COOLING OPERATION

		Outdoor Ambient Temperature																																			
		65						75						85						95						105						115					
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	59	63	67	71								
	1700	MBh	45.2	46.8	51.3	-	44.1	45.7	50.1	-	43.1	44.6	48.9	-	42.0	43.5	47.7	-	39.9	41.4	45.3	-	37.0	38.3	42.0	-											
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.45	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-											
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-											
		KW	4.25	4.34	4.47	-	4.56	4.65	4.79	-	4.83	4.93	5.08	-	5.07	5.17	5.34	-	5.27	5.38	5.55	-	5.45	5.56	5.74	-											
		AMPS	18.3	18.6	19.1	-	19.5	19.8	20.4	-	20.8	21.2	21.8	-	22.0	22.5	23.1	-	23.2	23.7	24.3	-	24.4	24.9	25.6	-											
	1600	HI PR	179	192	203	-	200	216	228	-	228	245	259	-	259	279	295	-	292	314	332	-	323	347	367	-											
		LO PR	62	66	72	-	66	70	77	-	68	73	80	-	72	77	84	-	75	80	88	-	78	83	91	-											
		MBh	44.7	46.3	50.8	-	43.7	45.3	49.6	-	42.6	44.2	48.4	-	41.6	43.1	47.2	-	39.5	41.0	44.9	-	36.6	37.9	41.6	-											
		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	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	15	12	-											
1500	KW	4.24	4.33	4.46	-	4.55	4.64	4.78	-	4.82	4.92	5.07	-	5.06	5.16	5.32	-	5.26	5.37	5.54	-	5.43	5.55	5.73	-												
	AMPS	18.2	18.6	19.1	-	19.4	19.8	20.3	-	20.8	21.2	21.8	-	22.0	22.4	23.0	-	23.1	23.6	24.3	-	24.3	24.8	25.5	-												
	HI PR	178	192	202	-	200	215	227	-	227	244	258	-	259	278	294	-	291	313	331	-	322	346	365	-												
	LO PR	62	66	72	-	66	70	76	-	68	73	79	-	72	76	83	-	75	80	87	-	78	83	90	-												
	MBh	44.0	45.7	50.0	-	43.0	44.6	48.9	-	42.0	43.5	47.7	-	41.0	42.5	46.5	-	38.9	40.3	44.2	-	36.1	37.4	40.9	-												
	1700	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	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-											
		KW	4.19	4.27	4.40	-	4.49	4.58	4.72	-	4.76	4.85	5.00	-	4.99	5.09	5.25	-	5.19	5.30	5.46	-	5.36	5.47	5.65	-											
		AMPS	18.0	18.4	18.8	-	19.2	19.5	20.1	-	20.5	20.9	21.5	-	21.7	22.1	22.7	-	22.8	23.3	24.0	-	24.0	24.5	25.2	-											
		HI PR	175	188	199	-	196	211	223	-	223	240	254	-	254	274	289	-	286	308	325	-	316	340	359	-											
	LO PR	61	65	71	-	65	69	75	-	67	71	78	-	71	75	82	-	74	79	86	-	76	81	89	-												
		1700	MBh	45.9	47.3	51.2	54.9	44.9	46.2	50.0	53.7	43.8	45.1	48.8	52.4	42.7	44.0	47.6	51.1	40.6	41.8	45.2	48.5	37.6	38.7	41.9	45.0										
			S/T	0.84	0.75	0.57	0.37	0.87	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	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	4.29	4.37	4.50	4.64	4.59	4.69	4.83	4.98	4.87	4.97	5.12	5.28	5.11	5.22	5.38	5.55	5.31	5.43	5.60	5.78	5.49	5.61	5.79	5.98										
AMPS			18.4	18.8	19.3	19.8	19.6	20.0	20.5	21.2	21.0	21.4	22.0	22.7	22.2	22.6	23.3	24.0	23.4	23.9	24.5	25.3	24.6	25.1	25.8	26.6											
1600		HI PR	180	194	205	214	202	218	230	240	230	248	262	273	262	282	298	311	295	317	335	350	326	351	370	386											
		LO PR	63	67	73	78	67	71	77	82	69	74	80	86	73	77	84	90	76	81	88	94	79	84	91	97											
		MBh	45.5	46.8	50.7	54.4	44.4	45.7	49.5	53.1	43.4	44.6	48.3	51.9	42.3	43.6	47.1	50.6	40.2	41.4	44.8	48.1	37.2	38.3	41.5	44.5											
		S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	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	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	11	22	20	16	11	20	19	15	11											
	1600	KW	4.28	4.36	4.49	4.63	4.58	4.68	4.82	4.97	4.86	4.96	5.11	5.27	5.10	5.20	5.37	5.54	5.30	5.41	5.58	5.76	5.48	5.60	5.77	5.96											
		AMPS	18.4	18.7	19.2	19.8	19.6	19.9	20.5	21.1	20.9	21.4	21.9	22.6	22.1	22.6	23.2	24.0	23.3	23.8	24.5	25.3	24.5	25.0	25.7	26.6											
		HI PR	180	194	204	213	202	217	229	239	229	247	261	272	261	281	297	310	294	316	334	348	325	350	369	385											
		LO PR	63	67	73	78	66	71	77	82	69	73	80	85	72	77	84	90	76	81	88	94	79	84	91	97											
		MBh	44.8	46.1	49.9	53.6	43.7	45.0	48.8	52.3	42.7	44.0	47.6	51.1	41.7	42.9	46.4	49.8	39.6	40.8	44.1	47.3	36.7	37.8	40.9	43.9											
	1500	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	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.92	0.82	0.62	0.40											
		Delta T	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11											
		KW	4.22	4.31	4.43	4.57	4.53	4.62	4.76	4.90	4.79	4.89	5.04	5.20	5.03	5.13	5.29	5.46	5.23	5.34	5.51	5.69	5.40	5.52	5.69	5.88											
		AMPS	18.1	18.5	19.0	19.5	19.3	19.7	20.2	20.8	20.7	21.1	21.7	22.3	21.8	22.3	22.9	23.6	23.0	23.5	24.2	24.9	24.2	24.7	25.4	26.2											
		HI PR	177	190	201	209	198	213	225	235	226	243	256	267	257	276	292	305	289	311	328	343	319	344	363	378											
LO PR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95													

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PGA48C***2F

		Outdoor Ambient Temperature																													
		65					75					85					95					105					115				

75	1850	MBh	56.7	58.4	63.2	67.8	55.4	57.0	61.7	66.2	54.0	55.6	60.2	64.6	52.7	54.3	58.8	63.1	50.1	51.6	55.8	59.9	46.4	47.8	51.7	55.5
		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	0.62	0.40	0.93	0.83	0.63	0.41
		Delta T	23	21	17	12	23	21	17	12	23	21	17	12	23	21	18	12	23	21	17	12	21	20	16	11
		KW	5.25	5.36	5.52	5.68	5.63	5.75	5.92	6.10	5.97	6.09	6.28	6.48	6.26	6.39	6.59	6.80	6.51	6.65	6.86	7.08	6.73	6.87	7.09	7.32
		AMPS	24.3	24.8	25.5	26.3	26.0	26.5	27.2	28.1	27.8	28.4	29.2	30.1	29.4	30.1	30.9	31.9	31.1	31.7	32.6	33.7	32.7	33.4	34.3	35.5
	HI PR	178	191	202	211	200	215	227	237	227	244	258	269	259	278	294	307	291	313	331	345	322	346	365	381	
	LO PR	59	62	68	72	62	66	72	77	64	68	75	80	68	72	78	84	71	75	82	88	73	78	85	91	
	1750	MBh	56.1	57.8	62.5	67.1	54.8	56.4	61.1	65.6	53.5	55.1	59.6	64.0	52.2	53.7	58.2	62.4	49.6	51.1	55.3	59.3	45.9	47.3	51.2	54.9
		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	23	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	22	20	17	11
KW		5.24	5.35	5.50	5.67	5.62	5.73	5.91	6.09	5.95	6.08	6.26	6.46	6.25	6.38	6.58	6.79	6.50	6.64	6.84	7.06	6.71	6.86	7.07	7.30	
AMPS		24.3	24.8	25.4	26.2	25.9	26.4	27.1	28.0	27.8	28.3	29.1	30.1	29.4	30.0	30.9	31.9	31.0	31.7	32.6	33.6	32.6	33.3	34.3	35.4	
HI PR	177	191	202	210	199	214	226	236	226	244	257	268	258	278	293	306	290	312	330	344	321	345	364	380		
LO PR	58	62	68	72	62	66	72	76	76	64	68	74	79	67	72	78	83	71	75	82	87	73	78	85	90	
1650	MBh	55.3	56.9	61.6	66.1	54.0	55.6	60.2	64.6	52.7	54.3	58.7	63.0	51.4	52.9	57.3	61.5	48.8	50.3	54.4	58.4	45.2	46.6	50.4	54.1	
	S/T	0.77	0.69	0.52	0.33	0.79	0.71	0.54	0.35	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.88	0.79	0.60	0.38	
	Delta T	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	13	24	22	18	12	22	20	17	12	
	KW	5.17	5.28	5.43	5.60	5.55	5.66	5.83	6.01	5.87	6.00	6.18	6.37	6.16	6.29	6.49	6.69	6.41	6.55	6.75	6.97	6.62	6.76	6.98	7.20	
	AMPS	24.0	24.4	25.1	25.9	25.6	26.1	26.8	27.6	27.4	28.0	28.7	29.7	29.0	29.6	30.4	31.4	30.6	31.2	32.1	33.2	32.1	32.8	33.8	34.9	
HI PR	174	18																								

NOTE: Shaded area is ACCA (TVA) conditions

COOLING PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PGA60C***2F

		Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
IDB*	Airflow	Entering Indoor Wet Bulb Temperature										85																			
		59	63	67	71	75	79	83	87	91	95	59	63	67	71	75	79	83	87	91	95	59	63	67	71	75	79	83	87	91	
1850	MBh	57.7	58.9	63.0	67.3	56.3	57.6	61.5	65.8	55.0	56.2	60.0	64.2	53.7	54.8	58.6	62.6	51.0	52.1	55.7	59.5	47.2	48.3	51.6	55.1	55.1	55.1	55.1	55.1	55.1	
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.98	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58	0.58	0.58	0.58	0.58	0.58	
	Delta T	25	24	21	17	26	25	21	17	26	25	22	17	26	25	22	17	25	25	21	17	23	23	20	16	16	16	16	16	16	
	KW	5.29	5.40	5.56	5.73	5.68	5.79	5.97	6.15	6.01	6.14	6.33	6.53	6.31	6.44	6.65	6.86	6.57	6.70	6.92	7.14	6.78	6.93	7.15	7.38	7.38	7.38	7.38	7.38	7.38	
	AMPS	24.5	25.0	25.7	26.5	26.2	26.7	27.4	28.3	28.0	28.6	29.4	30.4	29.7	30.3	31.2	32.2	31.3	32.0	32.9	34.0	32.9	33.6	34.6	35.8	35.8	35.8	35.8	35.8	35.8	
	HI PR	180	193	204	213	202	217	229	239	229	247	261	272	261	281	297	310	294	316	334	348	325	349	369	385	385	385	385	385	385	385
1750	LO PR	59	63	69	73	62	66	73	77	65	69	75	80	68	73	79	84	71	76	83	88	74	79	86	91	91	91	91	91	91	
	MBh	57.1	58.4	62.4	66.7	55.8	57.0	60.9	65.1	54.5	55.6	59.5	63.6	53.1	54.3	58.0	62.0	50.5	51.6	55.1	58.9	46.8	47.8	51.0	54.6	54.6	54.6	54.6	54.6	54.6	
	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	0.57	0.57	0.57	0.57	0.57	
	Delta T	26	25	22	17	26	25	22	18	27	25	22	18	27	26	22	18	26	25	22	18	25	24	20	16	16	16	16	16	16	
	KW	5.28	5.39	5.55	5.71	5.66	5.78	5.95	6.14	6.00	6.12	6.31	6.51	6.30	6.43	6.63	6.84	6.55	6.69	6.90	7.12	6.77	6.91	7.13	7.36	7.36	7.36	7.36	7.36	7.36	
	AMPS	24.5	24.9	25.6	26.4	26.1	26.6	27.4	28.2	28.0	28.6	29.4	30.3	29.6	30.2	31.1	32.1	31.2	31.9	32.8	33.9	32.9	33.6	34.5	35.7	35.7	35.7	35.7	35.7	35.7	
1650	HI PR	179	193	204	212	201	216	229	238	229	246	260	271	260	280	296	309	293	315	333	347	324	348	368	384	384	384	384	384	384	
	LO PR	59	63	68	73	62	66	72	77	65	69	75	80	68	72	79	84	71	76	83	88	74	78	86	91	91	91	91	91	91	
	MBh	56.3	57.5	61.4	65.7	54.9	56.1	60.0	64.1	53.6	54.8	58.6	62.6	52.3	53.5	57.1	61.1	49.7	50.8	54.3	58.0	46.1	47.1	50.3	53.7	53.7	53.7	53.7	53.7	53.7	
	S/T	0.84	0.79	0.64	0.48	0.87	0.82	0.67	0.50	0.89	0.84	0.68	0.51	0.92	0.87	0.70	0.53	0.96	0.90	0.73	0.55	0.97	0.91	0.74	0.55	0.55	0.55	0.55	0.55	0.55	
	Delta T	26	25	22	18	27	26	22	18	27	26	22	18	27	26	22	18	27	25	22	18	25	24	21	16	16	16	16	16	16	
	KW	5.21	5.32	5.47	5.64	5.59	5.70	5.87	6.06	5.92	6.04	6.23	6.42	6.21	6.34	6.54	6.75	6.46	6.60	6.81	7.02	6.68	6.82	7.03	7.26	7.26	7.26	7.26	7.26	7.26	
80	AMPS	24.2	24.6	25.3	26.1	25.8	26.3	27.0	27.8	27.6	28.2	29.0	29.9	29.2	29.8	30.7	31.7	30.8	31.5	32.4	33.5	32.4	33.1	34.1	35.2	35.2	35.2	35.2	35.2	35.2	
	HI PR	176	190	200	209	198	213	225	234	225	242	255	266	256	276	291	303	288	310	327	341	318	343	362	377	377	377	377	377	377	
	LO PR	58	62	67	72	61	65	71	76	64	68	74	79	67	71	78	83	70	75	81	87	72	77	84	90	90	90	90	90	90	
	MBh	57.1	58.4	62.4	66.7	55.8	57.0	60.9	65.1	54.5	55.6	59.5	63.6	53.1	54.3	58.0	62.0	50.5	51.6	55.1	58.9	46.8	47.8	51.0	54.6	54.6	54.6	54.6	54.6	54.6	
	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	0.57	0.57	0.57	0.57	0.57	
	Delta T	26	25	22	17	26	25	22	18	27	25	22	18	27	26	22	18	26	25	22	18	25	24	20	16	16	16	16	16	16	

NOTE: Shaded area is ARI Rating Conditions

* Entering Indoor Dry Bulb Temperature

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 (ΔT). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop (ΔT). A slight decrease will occur in low and high side pressures and power.

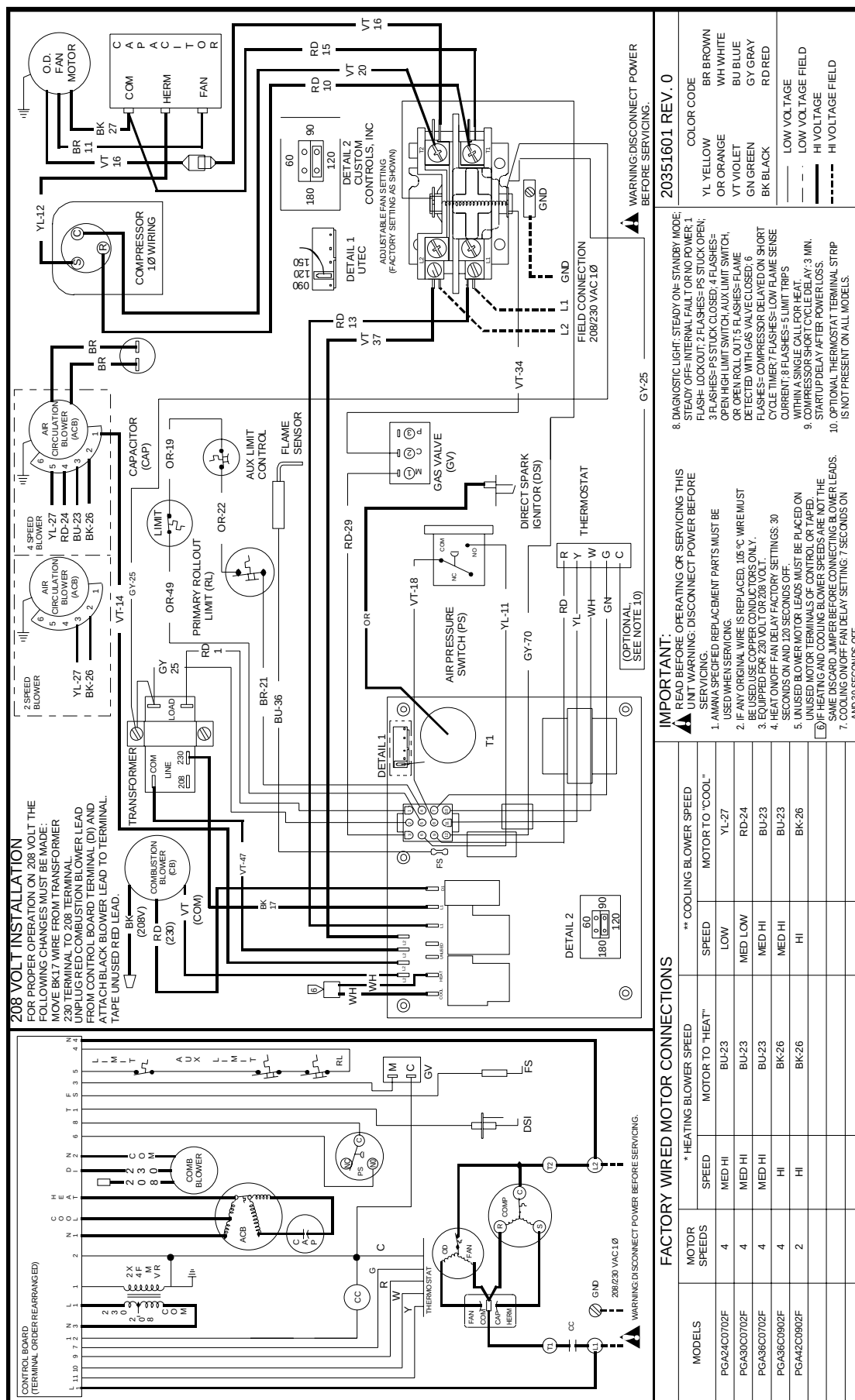
A properly operating unit should be within plus or minus **3 degrees** of the typical (ΔT) value shown.

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

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

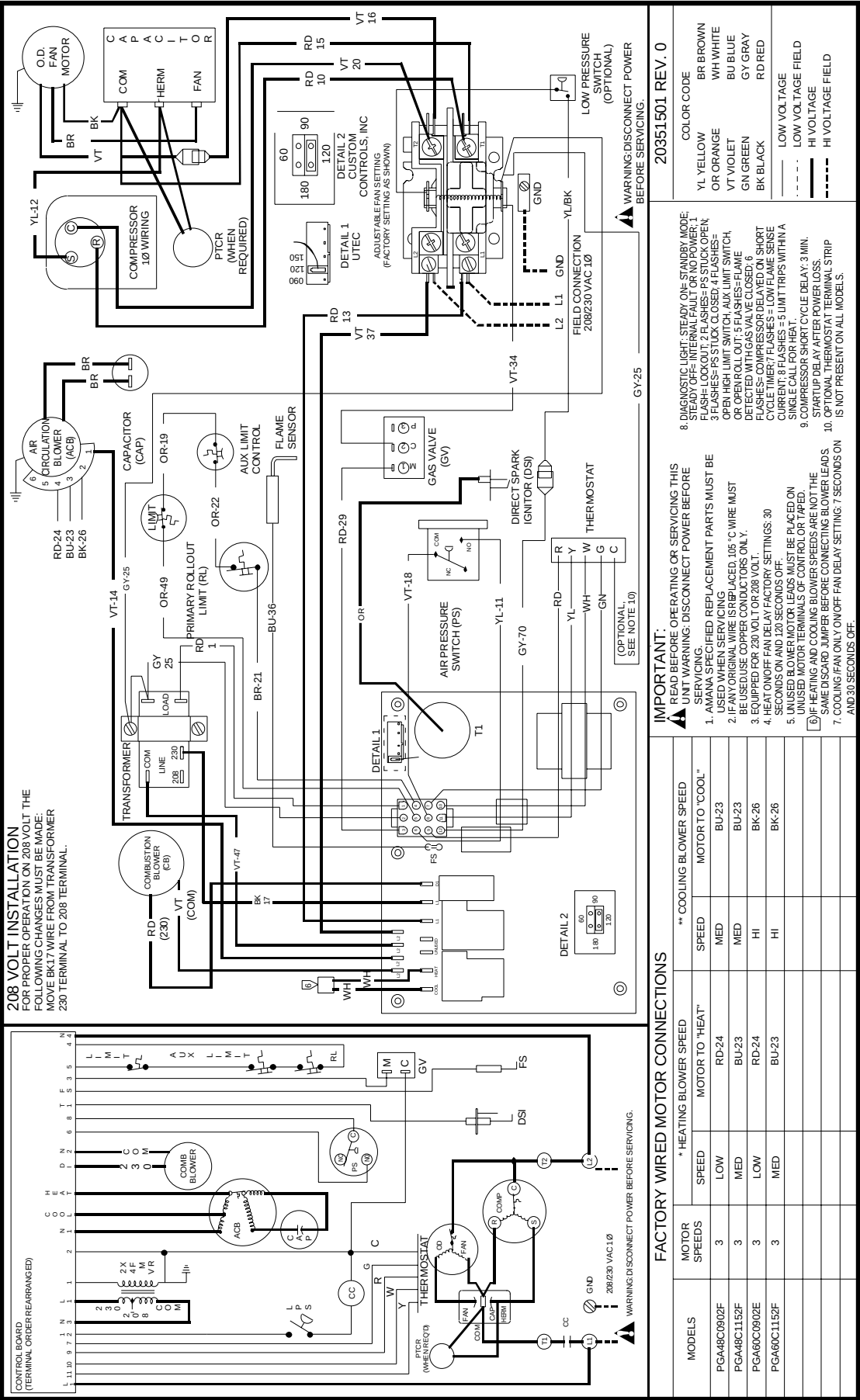
A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

WIRING DIAGRAMS



TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.

WIRING DIAGRAMS



PGA48-60C0902F (Manufacturing Numbers P1236408-11C)

WARNING

TO AVOID POSSIBLE ELECTRICAL SHOCK, PERSONAL INJURY, OR DEATH, DISCONNECT THE POWER BEFORE SERVICING.