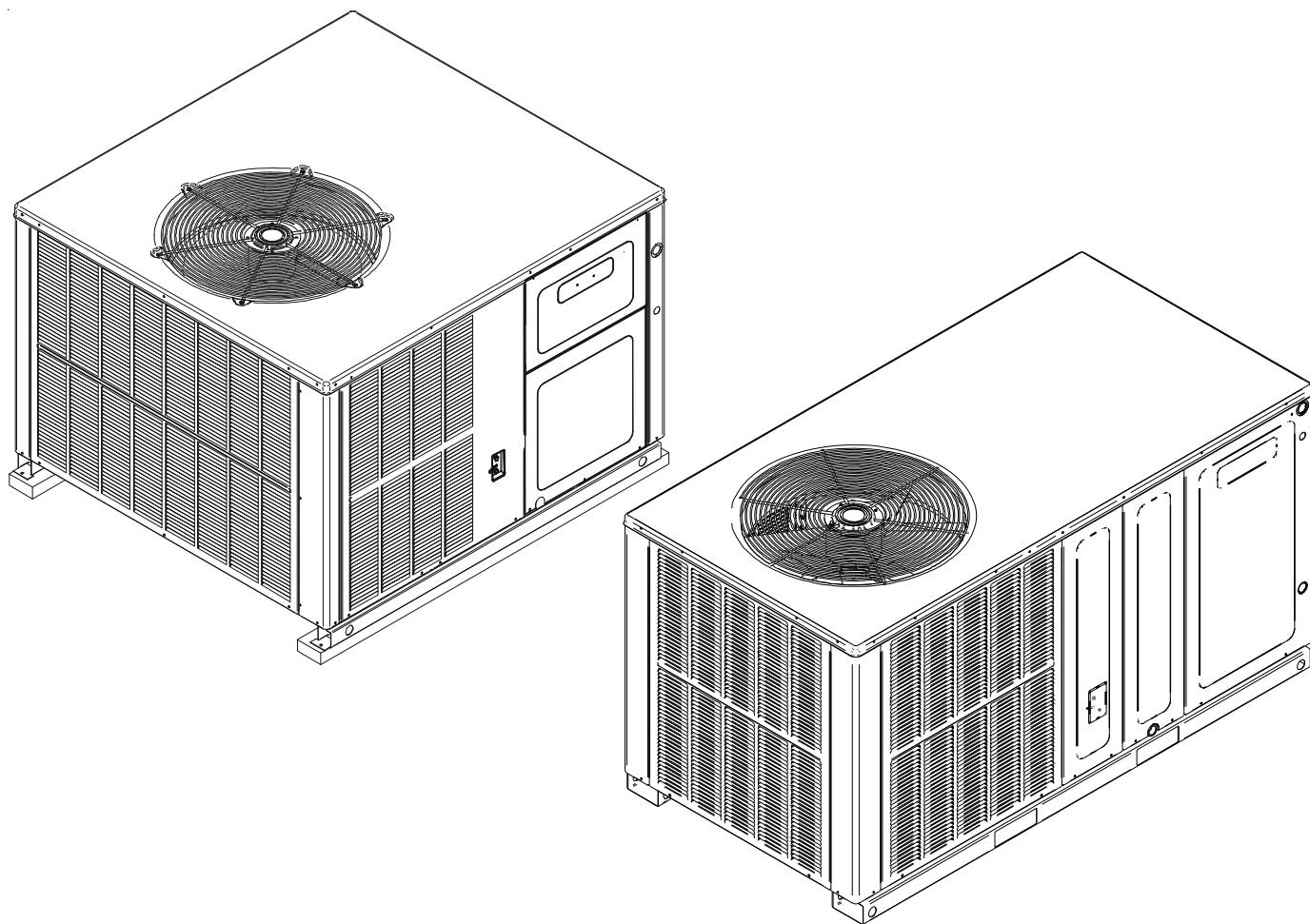




TECHNICAL MANUAL

GPH 13 SEER Package Heat Pump Units With R-22

- Refer to Service Manual RS6300009 (Horizontal) and RS6300010 (Multi Position) 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.

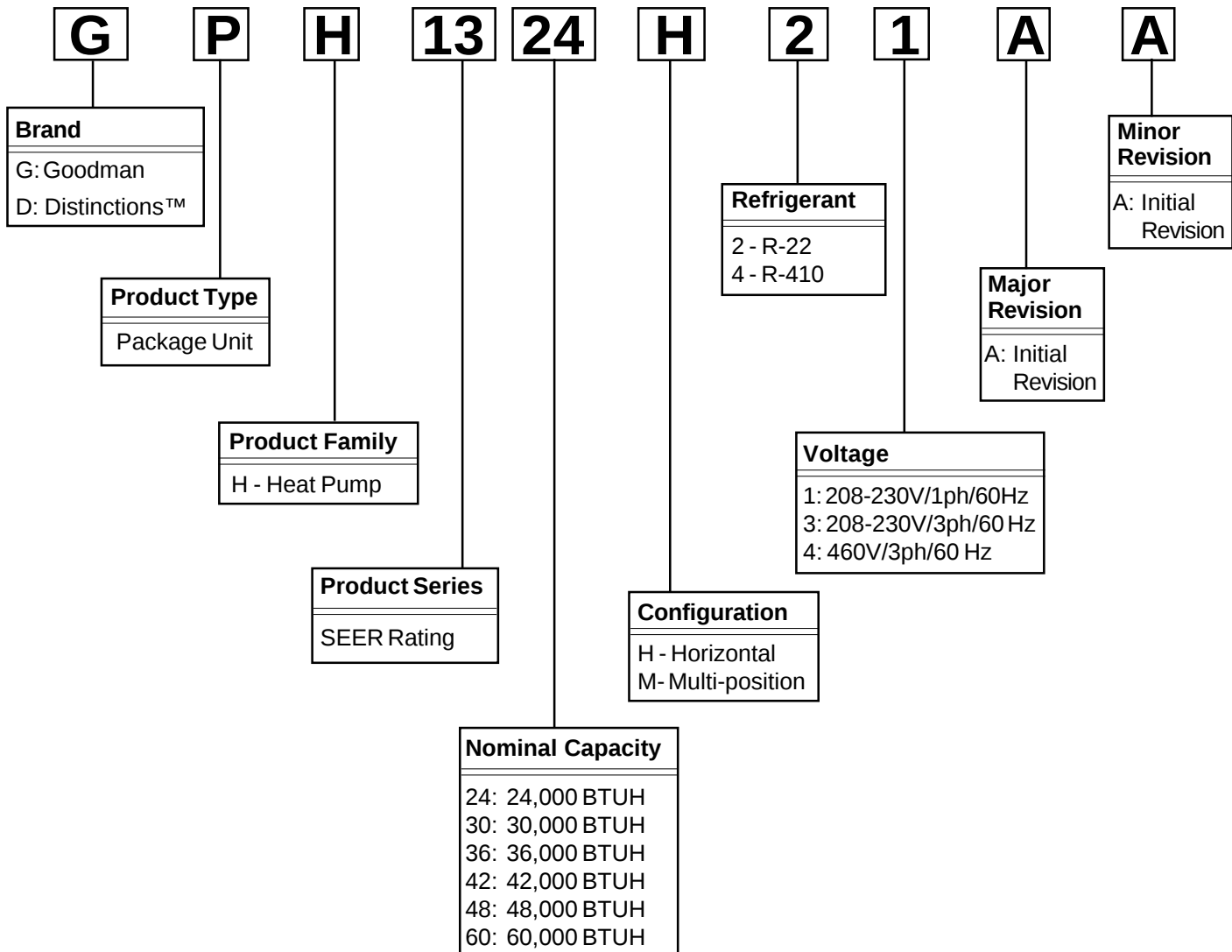


This manual is to be used by qualified, professionally trained HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures or services performed by an unqualified person.

RT6332003r11
September 2010

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 ONLY by individuals meeting (at a minimum) 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.

GPH1324H21*

GPH1324M21*

GPH1330H21*

GPH1330M21*

GPH1336H21*

GPH1336M21*

GPH1342H21*

GPH1348M21*

GPH1348H21*

GPH1360M21*

GPH1360H21*



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.



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.



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

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

The connecting ductwork (Supply and Return) can only be connected for horizontal airflow.

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 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.

Package Heat Pump models use a combination of restrictor orifices and thermostatic expansion valves for refrigerant flow control.

Some heat pump models also have a suction line accumulator installed between the reversing valve and the compressor. The object of the accumulator is to:

1. Provide a liquid refrigerant storage vessel during prolonged system off cycles.
2. Store excess liquid refrigerant not needed by the system while running.
3. Return oil and saturated vapor to the compressor at a controlled rate.
4. Retain stored excess refrigerant during a sudden system pressure fluctuation such as seen in defrost cycles.

Refrigerant flow control is achieved by use of restrictor orifices. GPH 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. **NOTE: The core must not be removed 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 not required for these units. A low microfarad 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. GPH1360H21* units have X-13 indoor blower motors that are energized by a 24V signal from the IBR and are constant torque motors with very low power consumption. The X-13 features an integral control module.

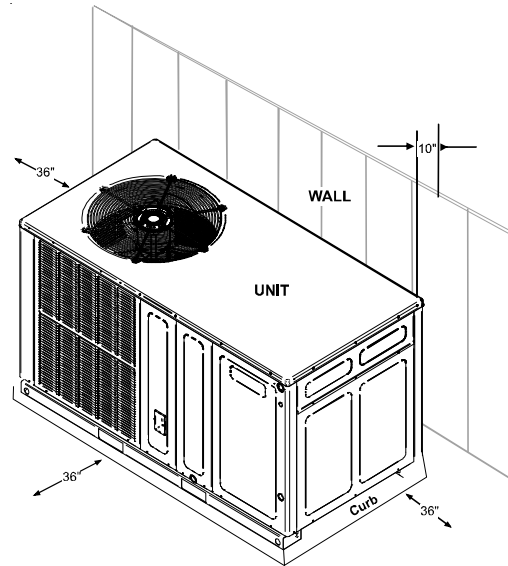
Air for condensing (cooling cycle) or evaporation (heating cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

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

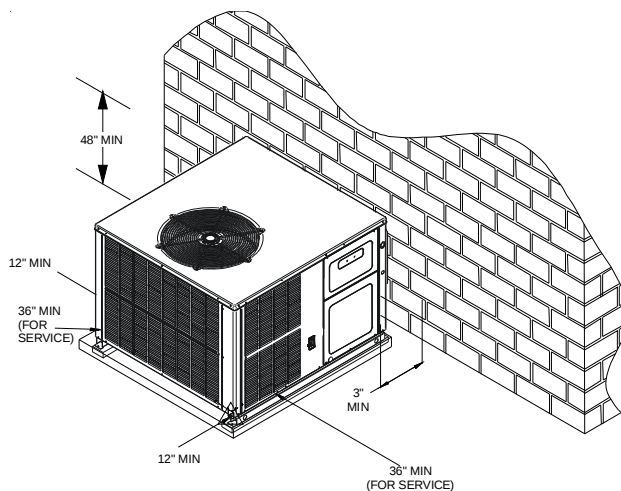
Package Heat Pump indoor sections are designed to accept optional components such as auxiliary electric heaters and circuit breakers. Provisions for these components have been made at time of manufacture.

Location and Clearances

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



Outside Slab Installation - Horizontal (H)

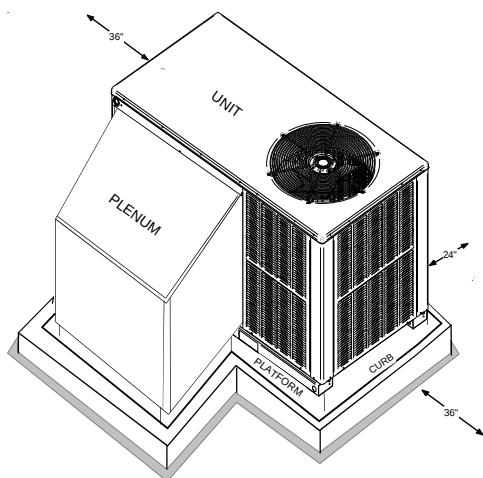


Outside Slab Installation -Multi-positional (M)

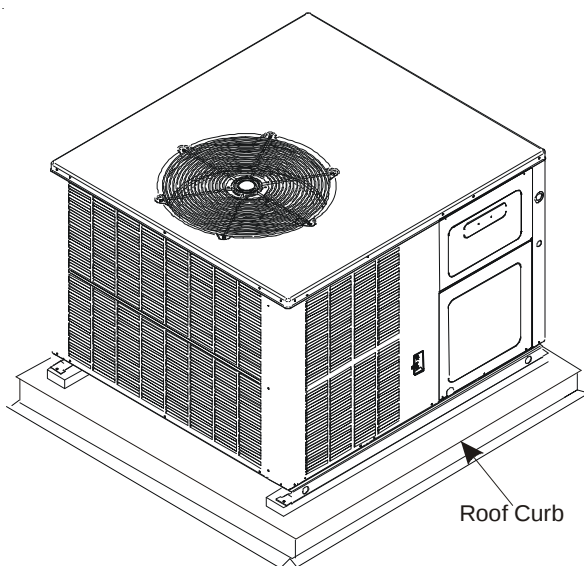
NOTE: Roof overhang should be no more than 36" and provisions made to deflect the warm discharge air out from the overhang.

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

PRODUCT DESIGN



Rooftop Installation - Horizontal (H)



Rooftop Installation - Multi-positional (M)

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

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 (and platform for leveling, where necessary) to utilize bottom discharge.

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.

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

GPH1324-1360H21*

ELECTRICAL DATA (*Blower Only, Heat Mode)

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	
GPH1324H21* / *B / *C					
HKR05A,CA	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	33 / 28	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	45 / 51	60 / 60	----	----	9.50 / 32,400
GPH1330H21* / *B / *C					
HKR05A,CA	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 39	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	45 / 52	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1336H21* / *B / *C / *D					
HKR05A,CA	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 39	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	45 / 52	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1342H21* / *B / *C / *D					
HKR05A,CA	25 / 27	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 39	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	46 / 52	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20A,CA	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
GPH1348H21* / *B / *C					
HKR05A,CA	25 / 28	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 40	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	46 / 53	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20A,CA	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
GPH1360H21* / *B / *C					
HKR05A,CA	26 / 30	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	36 / 40	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	48 / 54	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	48 / 54	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20A,CA	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 DESIGN

GPH1324-1360M21*

ELECTRICAL DATA (*Blower Only, Heat Mode)

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	
GPH1324M21* / A* / *B					
HKR05A,CA	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	33 / 28	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	45 / 51	60 / 60	----	----	9.50 / 32,400
GPH1330M21* / A* / *B					
HKR05A,CA	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	33 / 28	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	45 / 51	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1336M21* / A* / *B					
HKR05A,CA	24 / 27	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 39	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	45 / 52	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
GPH1348M21* / A* / *B					
HKR05A,CA	25 / 28	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	34 / 40	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	46 / 53	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20A,CA	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
GPH1360M21* / A* / *B					
HKR05A,CA	26 / 30	30 / 30	----	----	4.75 / 16,200
HKR08A,CA	36 / 40	40 / 40	----	----	7.00 / 23,800
HKR10A,CA	48 / 54	60 / 60	----	----	9.50 / 32,400
HKR15A,CA	48 / 54	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR20A,CA	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.

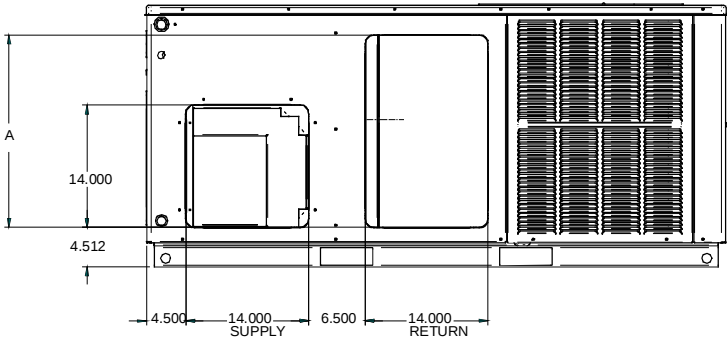
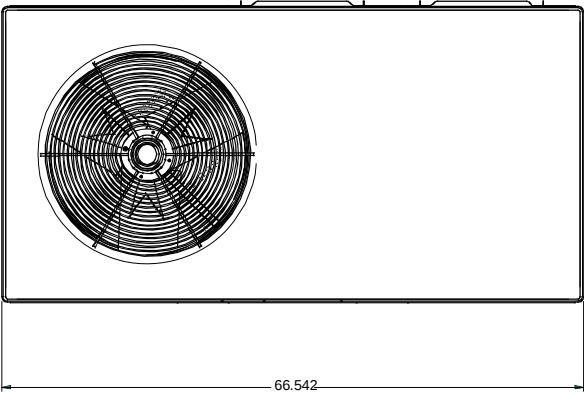


WARNING

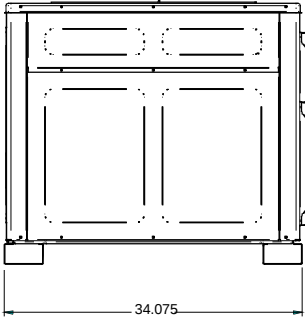
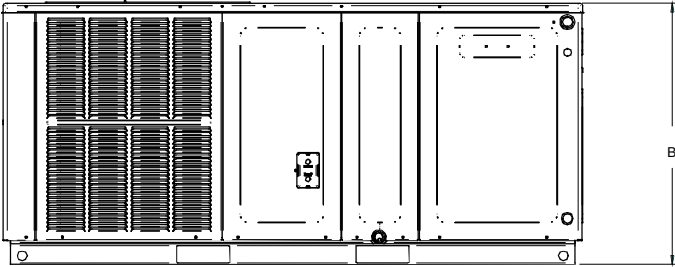
All wires and overcurrent protection devices are sized for use with electric heaters only and without refrigeration. If heaters are not installed with above wire size, overheating and fire could occur. See PACKAGE COOLING SPECIFICATIONS section for minimum circuit ampacity and maximum overcurrent protection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

PRODUCT DIMENSIONS

GPH1324-60]H21*



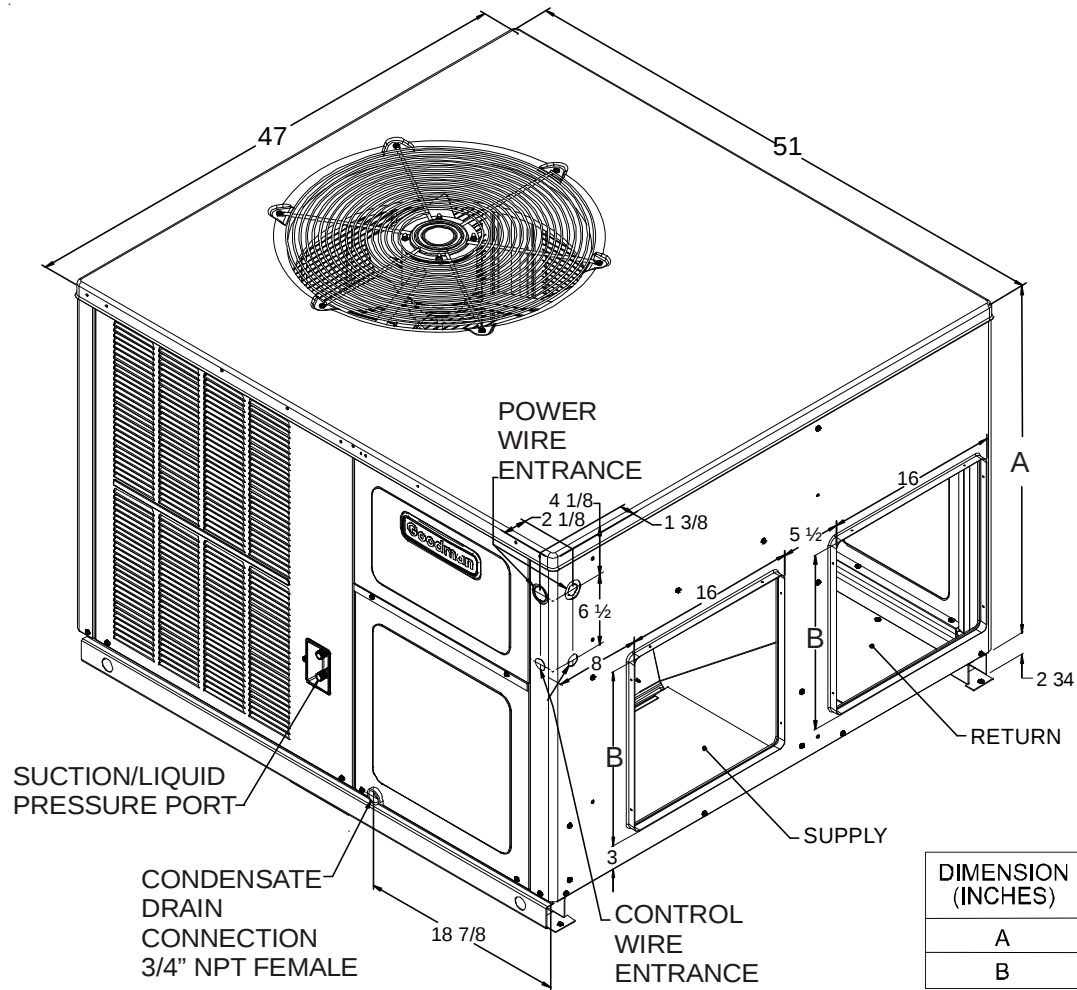
BACK VIEW
(DUCT OPENINGS)



Chassis	Model	A	B
Small	GPH1324H21*	22.000	29.932
	GPH1330H21*	22.000	29.932
Medium	GPH1336H21*	24.000	34.932
	GPH1342H21*	24.000	34.932
Large	GPH1348H21*	24.000	38.682
	GPH1360H21*	24.000	38.682

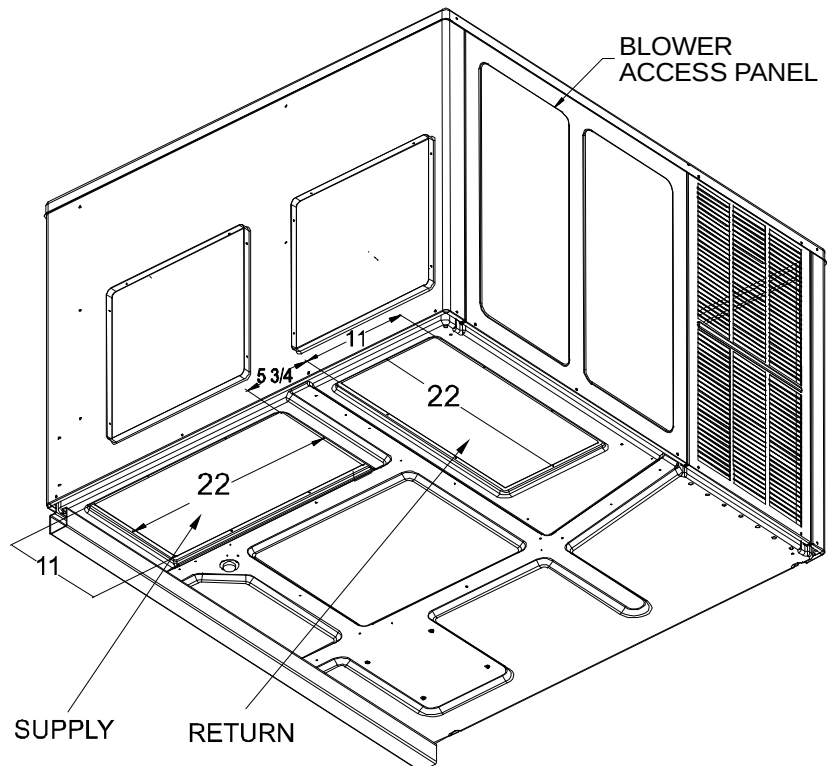
PRODUCT DIMENSIONS

GPH1324-60]M21*



DIMENSION (INCHES)	MEDIUM	LARGE
A	32	40
B	16	18

MEDIUM CHASSIS
GPH1324M21*
GPH1330M21*
GPH1336M21*
LARGE CHASSIS
GPH1348M21*
GPH1360M21*



PACKAGE HEAT PUMP SPECIFICATIONS GPH13[24-30]H21*

		GPH1324H21 A*	GPH1324H21 AD	GPH1330H21 A*	GPH1330H21 AD
COOLING CAPACITY	COOLING CAPACITY, BTUH	25,000	24,000	28,600	28,600
	SEER	13.00	13.00	13.00	13.00
HEATING RATING	47°/43°F	24,000	24,000	27,400	27,400
	35°/33°F	17,600	17,600	20,400	20,400
	17°/15°F	13,600	13,600	15,800	15,800
	HSPF	7.7	7.7	7.7	7.7
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	16.2	16.2	15.7	15.7
	MIN CIRCUIT AMPACITY	19.6	19.6	18.7	18.7
	MAX OVERCURRENT PROTECTION ⁽²⁾	30	30	30	30
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	13.6	13.6	12.2	12.2
	LOCKED ROTOR AMPS	63	63	67	67
CONDENSER FAN MOTOR	HORSEPOWER	1/6	1/6	1/6	1/6
	RPM	840	840	840	840
	FULL LOAD AMPS	1.1	1.1	1.1	1.1
	LOCKED ROTOR AMPS	1.7	1.7	1.7	1.7
CONDENSER FAN	BLADE DIAMETER (INCHES) / NUMBER OF BLADES	22 / 3	22 / 3	22 / 3	22 / 3
CONDENSER COIL	FACE AREA (SQ. FT.)	15.2	13.4	14.6	14.2
	NUMBER OF ROWS	1	1	2	1
	FINS PER INCH	19	24	16	22
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/4 - 3	1/4 - 3	1/3 - 3	1/3 - 3
	FULL LOAD AMPS	1.5	1.5	2.4	2.4
	LOCKED ROTOR AMPS	2.2	2.2	3.2	3.2
	MOTOR SPEED TAP - COOLING	MEDIUM	MEDIUM	LOW	LOW
	RPM	1,075	1,075	1,075	1,075
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	9 x 6	9 x 6	9 x 6	9 x 6
	RATED SCFM COOLING	815	815	1080	1080
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	4.6	4.6	4.6	4.6
	NUMBER OF ROWS	3	3	3	3
	FINS PER INCH	14	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	20 x 20 x 1	20 x 20 x 1	20 x 25 x 1	20 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"	3/4"
	EXPANSION DEVICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE
	REFRIGERANT CHARGE R-22 (OZS.)	102	94	146	115
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES)	3/4, 1, 1-1/4	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	1/2
	PRESSURE SWITCH - OPENS / CLOSES PSIG	7 / 25	7 / 25	7 / 25	7 / 25
	SHIPPING WEIGHT (LBS.)	325	326	325	325
	OPERATING WEIGHT (LBS.)	315	316	315	315

⁽²⁾ 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.

PACKAGE HEAT PUMP SPECIFICATIONS

GPH1336H21*

		GPH1336H21 A/AB	GPH1336H21 AC/AD	GPH1336H21 AE
COOLING CAPACITY	COOLING CAPACITY, BTUH	35,000	35,000	35,000
	SEER	13.00	13.00	13.00
HEATING RATING	47°/43°F	33,600	33,600	33,600
	35°/33°F	27,000	27,000	27,000
	17°/15°F	18,000	18,000	18,000
	HSPF	7.7	7.7	7.7
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	18.5	18.5	18.5
	MIN CIRCUIT AMPACITY	22.1	22.1	22.1
	MAX OVERCURRENT PROTECTION	30	30	30
COMPRESSOR	TYPE	RECIP	RECIP	RECIP
	RATED LOAD AMPS	14.5	14.5	14.5
	LOCKED ROTOR AMPS	82	82	82
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1075	830	830
	FULL LOAD AMPS	1.4	1.5	1.5
	LOCKED ROTOR AMPS	2.9	3.0	3.0
CONDENSER FAN	BLADE DIAMETER (INCHES) / NUMBER OF BLADES	22 / 3	22 / 4	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	16.1	16.1	17
	NUMBER OF ROWS	2	2	1
	FINS PER INCH	16	16	22
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/3 - 3	1/3 - 3	1/3 - 3
	FULL LOAD AMPS	2.4	2.4	2.4
	LOCKED ROTOR AMPS	3.2	3.2	3.2
	MOTOR SPEED TAP - COOLING	MEDIUM	MEDIUM	MEDIUM
	RPM	1,075	1,075	1,075
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	9 x 8	9 x 8	9 x 8
	RATED SCFM COOLING	1205	1205	1205
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	6.2	6.2	6.2
	NUMBER OF ROWS	3	3	3
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	25 x 25 x 1	25 x 25 x 1	25 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE	ORIFICE	ORIFICE	ORIFICE
	REFRIGERANT CHARGE R-22 (OZS.)	164	164	145
	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
	PRESSURE SWITCH - OPENS / CLOSES PSIG	7 / 25	7 / 25	7 / 25
	SHIPPING WEIGHT (LBS.)	385	385	385
	OPERATING WEIGHT (LBS.)	375	375	375

(2) 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.

PACKAGE HEAT PUMP SPECIFICATIONS

GPH1342H21*

		GPH1342H21 A/AB	GPH1342H21 AC/AD	GPH1342H21 AE
COOLING CAPACITY	COOLING CAPACITY, BTUH	41,000	41,000	41,000
	SEER	13.00	13.00	13.00
HEATING RATING	47°/43°F	38,000	38,000	38,000
	35°/33°F	30,000	30,000	30,000
	17°/15°F	21,800	21,800	21,800
	HSPF	7.8	7.8	7.8
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	22	22	22
	MIN CIRCUIT AMPACITY	26.1	26.1	26.1
	MAX OVERCURRENT PROTECTION	40	40	40
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	16.5	16.5	16.5
	LOCKED ROTOR AMPS	95	95	95
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1075	830	830
	FULL LOAD AMPS	1.4	1.5	1.5
	LOCKED ROTOR AMPS	2.9	3.0	3.0
CONDENSER FAN	BLADE DIAMETER (INCHES) / NUMBER OF BLADES	22 / 3	22 / 4	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	17.2	17.2	17.2
	NUMBER OF ROWS	2	2	1
	FINS PER INCH	16	16	24
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NUMBER OF SPEEDS	1/2 - 3	1/2 - 3	1/2 - 3
	FULL LOAD AMPS	3.9	3.9	3.9
	LOCKED ROTOR AMPS	4.9	4.9	4.9
	MOTOR SPEED TAP - COOLING	MEDIUM	MEDIUM	MEDIUM
	RPM	1,075	1,075	1,075
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 x 8	10 x 8	10 x 8
	RATED SCFM COOLING	1,410	1,410	1,410
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	6.2	6.2	6.2
	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 20 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE	ORIFICE	ORIFICE	ORIFICE
	REFRIGERANT CHARGE R-22 (OZS.)	168	168	137
	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
	PRESSURE SWITCH - OPENS / CLOSES PSIG	7 / 25	7 / 25	7 / 25
	SHIPPING WEIGHT (LBS.)	385	385	385
	OPERATING WEIGHT (LBS.)	375	375	375

⁽²⁾ 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.

PACKAGE HEAT PUMP SPECIFICATIONS GPH13[48-60]H21*

		GPH1348H21 A*	GPH1348H21 AD	GPH1360H21 A*	GPH1360H21 AD
COOLING CAPACITY	COOLING CAPACITY, BTUH	46,400	46,000	57,600	57,500
	SEER	13.00	13.00	13.00	13.00
HEATING RATING	47°/43°F	45,000	45,000	54,400	54,000
	35°/33°F	33,000	33,000	39,000	39,000
	17°/15°F	23,200	23,200	29,400	29,400
	HSPF	7.7	7.7	7.7	7.7
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	26.7	22.6	33.4	32.2
	MIN CIRCUIT AMPACITY	31.9	27.1	39.8	38.5
	MAX OVERCURRENT PROTECTION	50	45	60	60
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	20.4	18.3	25.0	25.0
	LOCKED ROTOR AMPS	109	109	148	148
CONDENSER FAN MOTOR	HORSEPOWER	1/3	1/4	1/3	1/4
	RPM	1075	1075	1075	1075
	FULL LOAD AMPS	2.4	1.4	2.4	1.4
	LOCKED ROTOR AMPS	5.2	2.9	5.2	2.9
CONDENSER FAN	BLADE DIAMETER (INCHES) / NUMBER OF BLADES	22 / 4	22 / 4	22 / 4	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	19.1	19.1	19.1	19.1
	NUMBER OF ROWS	2	2	2	2
	FINS PER INCH	16	16	16	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NUMBER OF SPEEDS	1/2 - 3	1/2 - 3	3/4 - 3	3/4 - 5
	FULL LOAD AMPS	3.9	2.87	6.0	5.8
	LOCKED ROTOR AMPS	4.9	4.59	8.0	NA
	MOTOR SPEED TAP - COOLING	HIGH	HIGH	MEDIUM	T2
	RPM	1,075	1,075	1,075	1,075
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 x 8	10 x 8	11 x 8	11 x 8
	RATED SCFM COOLING	1,585	1,585	1,985	1,985
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	6.2	6.2	7.0	7.0
	NUMBER OF ROWS	4	4	4	4
	FINS PER INCH	14	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	(2) 20 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"	3/4"
	EXPANSION DEVICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE
	REFRIGERANT CHARGE R-22 (OZS.)	228	195	245	230
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES)	3/4, 1, 1-1/4	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	1/2
	PRESSURE SWITCH - OPENS / CLOSES PSIG	7 / 25	7 / 25	7 / 25	7 / 25
	SHIPPING WEIGHT (LBS.)	415	428	415	483
	OPERATING WEIGHT (LBS.)	405	418	405	473

(2) 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.

PACKAGE HEAT PUMP SPECIFICATIONS GPH13[24-36]M21A*

		GPH1324M21A/AA	GPH1324M21AB	GPH1330M21A/AA	GPH1330M21AB	GPH1336M21*	GPH1336M21AB
COOLING CAPACITY	COOLING CAPACITY, BTUH	24,000	24,000	30,000	30,000	35,600	35,600
	SEER	13.00	13.00	13.00	13.00	13.00	13.00
HEATING RATING	47°/43°F	22,000	22,000	29,200	29,200	34,200	34,200
	35°/33°F	18,300	18,300	23,000	23,000	28,400	28,400
	17°/15°F	12,400	12,400	16,000	16,000	18,600	18,600
	HSPF	7.7	7.7	7.7	7.7	7.8	7.8
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	208/230-60-1
	AMPS	13.9	13.9	12.3	12.3	18.1	18.1
	MIN CIRCUIT AMPACITY	16.6	16.6	19.9	19.9	21.7	21.7
	MAX OVERCURRENT PROTECTION	20	20	30	30	30	30
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	10.9	10.9	13.5	13.5	14.7	14.7
	LOCKED ROTOR AMPS	54	54	73	73	83	83
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4	1/4	1/4	1/4
	RPM	1075	830	1075	830	1075	830
	FULL LOAD AMPS	1.5	1.5	1.5	1.5	1.5	1.5
	LOCKED ROTOR AMPS	3.0	3.0	3.0	3.0	3.0	3.0
CONDENSER FAN	BLADE DIAMETER (INCHES)	22	22	22	22	22	22
	NUMBER OF BLADES	3	3	3	3	3	3
CONDENSER COIL	FACE AREA (SQ. FT.)	17.2	17.2	15.9	15.9	17.2	17.2
	NUMBER OF ROWS	1	1	2	2	2	2
	FINS PER INCH	19	19	16	16	16	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NUMBER OF SPEEDS	1/4 - 3	1/4 - 3	1/3 - 3	1/3 - 3	1/3 - 4	1/3 - 4
	FULL LOAD AMPS	1.5	1.5	1.5	1.5	1.9	1.9
	LOCKED ROTOR AMPS	3	3	3.2	3.2	3.5	3.5
	MOTOR SPEED TAP - COOLING	MEDIUM	MEDIUM	LOW	LOW	MED-LOW	MED-LOW
	RPM	1,075	1,075	1,075	1,075	1,075	1,075
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9	10 x 9
	RATED SCFM COOLING	875	875	1050	1050	1,225	1,225
	MAX EXTERNAL STATIC PRESS (”w.c.)	0.5	0.5	0.5	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	4.5	4.5	4.5	4.5	4.5	4.5
	NUMBER OF ROWS	3	3	3	3	4	4
	FINS PER INCH	14	14	14	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)*	20 x 20 x 1	20 x 20 x 1	20 x 25 x 1	20 x 25 x 1	25 x 25 x 1	25 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"
	EXPANSION DEVICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE
	REFRIGERANT CHARGE R-22 (OZS.)	108	108	137	137	165	165
	POWER SUPPLY						
	CONDUIT KNOCKOUT SIZE (INCHES)	3/4, 1, 1-1/4	3/4, 1, 1-1/4	3/4, 1, 1-1/4	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	1/2	1/2	1/2
	PRESSURE SWITCH - OPENS / CLOSES PSIG	7 / 25	7 / 25	7 / 25	7 / 25	7 / 25	7 / 25
	SHIPPING WEIGHT (LBS.)	376	376	410	410	438	438
	OPERATING WEIGHT (LBS.)	354	354	388	388	416	416

(2) 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.

PACKAGE HEAT PUMP SPECIFICATIONS GPH13[48-60]M21A*

		GPH1348M21A/AA	GPH1348M21AB	GPH1360M21A/AA	GPH1360M21AB
COOLING CAPACITY	COOLING CAPACITY, BTUH	48,000	48,000	56,000	56,000
	SEER	13.00	13.00	13.00	13.00
HEATING RATING	47°/43°F	45,000	45,000	55,000	55,000
	35°/33°F	37,400	37,400	45,700	45,700
	17°/15°F	25,000	25,000	31,000	31,000
	HSPF	8.0	8.0	7.7	7.7
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	26.6	26.6	35.1	35.1
	MIN CIRCUIT AMPACITY	31.2	31.2	41.4	41.4
	MAX OVERCURRENT PROTECTION	40	40	60	60
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	18.3	18.3	25	25
	LOCKED ROTOR AMPS	109	109	148	148
CONDENSER FAN MOTOR	HORSEPOWER	1/3	1/4	1/3	1/4
	RPM	1075	1075	1075	1075
	FULL LOAD AMPS	2.4	1.4	2.4	1.4
	LOCKED ROTOR AMPS	5.2	2.9	5.2	3.0
CONDENSER FAN	BLADE DIAMETER (INCHES)	22	22	22	22
	NUMBER OF BLADES	4	4	4	4
CONDENSER COIL	FACE AREA (SQ. FT.)	21.2	21.2	21.2	21.2
	NUMBER OF ROWS	2	2	2	2
	FINS PER INCH	16	16	18	18
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NUMBER OF SPEEDS	3/4 - 5	3/4 - 5	1 - 5	1 - 5
	FULL LOAD AMPS	5.8	5.8	7.6	7.6
	LOCKED ROTOR AMPS	8.0	8.0	9.0	9.0
	MOTOR SPEED TAP - COOLING	T2	T2	T2	T2
	RPM	1,075	1,075	1,075	1,075
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 x 9	10 x 9	10 x 9	10 x 9
	RATED SCFM COOLING	1,750	1,750	1,900	1,900
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	6.2	6.2	6.2	6.2
	NUMBER OF ROWS	4	4	4	4
	FINS PER INCH	14	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	(2) 20 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"	3/4"
	EXPANSION DEVICE	ORIFICE	ORIFICE	ORIFICE	ORIFICE
	REFRIGERANT CHARGE R-22 (OZS.)	192	192	195	195
	POWER SUPPLY				
	CONDUIT KNOCKOUT SIZE (INCHES)	3/4, 1, 1-1/4	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	1/2
	PRESSURE SWITCH - OPENS / CLOSES PSIG	7 / 25	7 / 25	7 / 25	7 / 25
	SHIPPING WEIGHT (LBS.)	492	492	523	523
	OPERATING WEIGHT (LBS.)	469	469	500	500

⁽²⁾ 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.

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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.

ACCESSORIES

GPH13[24-60]H21A*

ACCESSORIES - GPC/GPH***H MODELS	
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

ACCESSORIES

GPH13[24-60]M21A*

ACCESSORIES - GPC/GPH****M MODELS	
Part Number	Description
OT18-60A	Outdoor Thermostat Kit w/Lockout Stat
OT/EHR18-60	Emergency Heat Relay Kit
HKR	Electric Heat Kit
PGC101/102/103	Roof Curb
PEHH101/102	Horizontal Economizer For Heat Pump, Small and Medium Chassis
PEHH103	Horizontal Economizer For Heat Pump, Large Chassis
PEHC101/102	Horizontal Economizer For A/C, Small and Medium Chassis
PEHC103	Horizontal Economizer For A/C, Large Chassis
PGMDD101/102	Manual 25% Fresh Air Damper Downflow Application, Small and Medium Chassis
PGMDD103	Manual 25% Fresh Air Damper Downflow Application, Large Chassis
PGMDH102	Manual 25% Fresh Air Damper Horizontal Application, Medium Chassis
PGMDH103	Manual 25% Fresh Air Damper Horizontal Application, Large Chassis
PGMDMD101/102	Motorized 25% Fresh Air Damper Downflow Application, Small and Medium Chassis
PGMDMD103	Motorized 25% Fresh Air Downflow Application, Large Chassis
PGMDMH102	Motorized 25% Fresh Air Damper Horizontal Application, Medium Chassis
PGMDMH103	Motorized 25% Fresh Air Damper Horizontal Application, Large Chassis
GPC13MED102	Downflow Economizer For A/C, Medium Chassis
GPC13MED103	Downflow Economizer For A/C, Large Chassis
GPH13MED102	Downflow Economizer For Heat Pump, Medium Chassis
GPH13MED103	Downflow Economizer For Heat Pump, Large Chassis
GPH13MFR102	Internal Filter Rack, Medium Chassis
GPH13MFR103	Internal Filter Rack, Large Chassis
GPGHFR101-103	External Horizontal Filter Rack for Goodman/Amana Gas/Electric and Multi-position Package Units All Chassis
SQRPG101/102	Square to Round Adapter w/ 16" Round Downflow Application, Medium Chassis
SQRPG103	Square to Round Adapter w/ 18" Round Downflow Application, Large Chassis
SQRPGH101/102	Square to Round Adapter w/ 16" Round Horizontal Application, Medium Chassis
SQRPGH103	Square to Round Adapter w/ 18" Round Horizontal Application, Large Chassis
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

GPH13[24-60]H21*

Dry Coil Data

Model	Speed	Volts	E.S.P (In. of H ₂ O)								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
GPH1324H21*	LOW	230	CFM	630	580	545	500	470	-	-	-
			WATTS	155	150	145	140	135	-	-	-
	MED	230	CFM	865	815	770	720	670	610	555	-
			WATTS	230	220	215	210	200	195	185	-
	HIGH	230	CFM	1,190	1,130	1,060	990	935	845	770	680
			WATTS	370	360	345	335	320	310	290	275
GPH1330H21*	LOW	230	CFM	1,150	1,080	1,025	975	925	845	-	-
			WATTS	340	330	315	305	295	280	-	-
	MED	230	CFM	1,335	1,275	1,205	1,135	1,075	985	910	845
			WATTS	425	415	400	385	370	350	330	310
	HIGH	230	CFM	1,435	1,355	1,290	1,210	1,130	1,040	960	885
			WATTS	485	465	455	435	415	400	385	370
GPH1336H21*	LOW	230	CFM	1,180	1,125	1,075	1,020	955	875	655	-
			WATTS	335	325	315	305	295	275	240	-
	MED	230	CFM	1,350	1,280	1,205	1,130	1,050	985	910	845
			WATTS	435	420	405	385	375	350	330	310
	HIGH	230	CFM	1,450	1,370	1,290	1,205	1,130	1,040	960	885
			WATTS	495	480	465	440	425	400	385	370
GPH1342H21*	LOW	230	CFM	1,425	1,410	1,355	1,310	1,245	1,170	1,080	-
			WATTS	450	445	430	420	405	390	370	-
	MED	230	CFM	1,620	1,595	1,545	1,485	1,425	1,345	1,250	1,160
			WATTS	550	540	525	510	495	475	450	425
	HIGH	230	CFM	1,945	1,935	1,875	1,800	1,730	1,635	1,535	1,440
			WATTS	765	755	735	715	695	670	640	615
GPH1348H21*	LOW	230	CFM	1,425	1,410	1,355	1,310	1,245	1,170	1,080	-
			WATTS	450	445	430	420	405	390	370	-
	MED	230	CFM	1,720	1,660	1,585	1,520	1,460	1,365	1,270	-
			WATTS	560	555	540	530	520	490	470	-
	HIGH	230	CFM	2,110	2,060	1,980	1,895	1,795	1,705	1,590	1,500
			WATTS	785	780	765	745	720	705	665	625
GPH1360H21*	T1 LOW	230	CFM	1,860	1,800	1,745	1,695	1,650	1,600	1,555	1,500
			WATTS	410	425	440	455	470	480	495	500
	T2 - T3 MED	230	CFM	1,990	1,945	1,885	1,835	1,785	1,740	1,695	1,645
			WATTS	510	520	530	545	555	570	585	590
	T4 - T5 HIGH	230	CFM	2,100	2,045	1,985	1,945	1,895	1,850	1,800	1,750
			WATTS	595	610	620	630	645	660	670	680

NOTES:

1. Data shown is Dry Coil. Wet Coil Pressure Drop is approximate.
2. 0.1" H₂O, for 2 row indoor coil; 0.2" H₂O, for 3 row indoor coil; and 0.3" H₂O, for 4 row indoor coil.
3. Data shown does not include filter pressure drop, approx. 0.08" H₂O.
4. ALL MODELS SHOULD RUN NO LESS THAN 350 CFM / TON, USE HIGHER SPEED TAP OR NEXT SIZE LARGER BLOWER ASM., SEE REPAIR PARTS LIST.
5. Reduce airflow by 2% for 208V operation.

BLOWER PERFORMANCE DATA

GPH13[24-60]M21*

Dry Coil Data

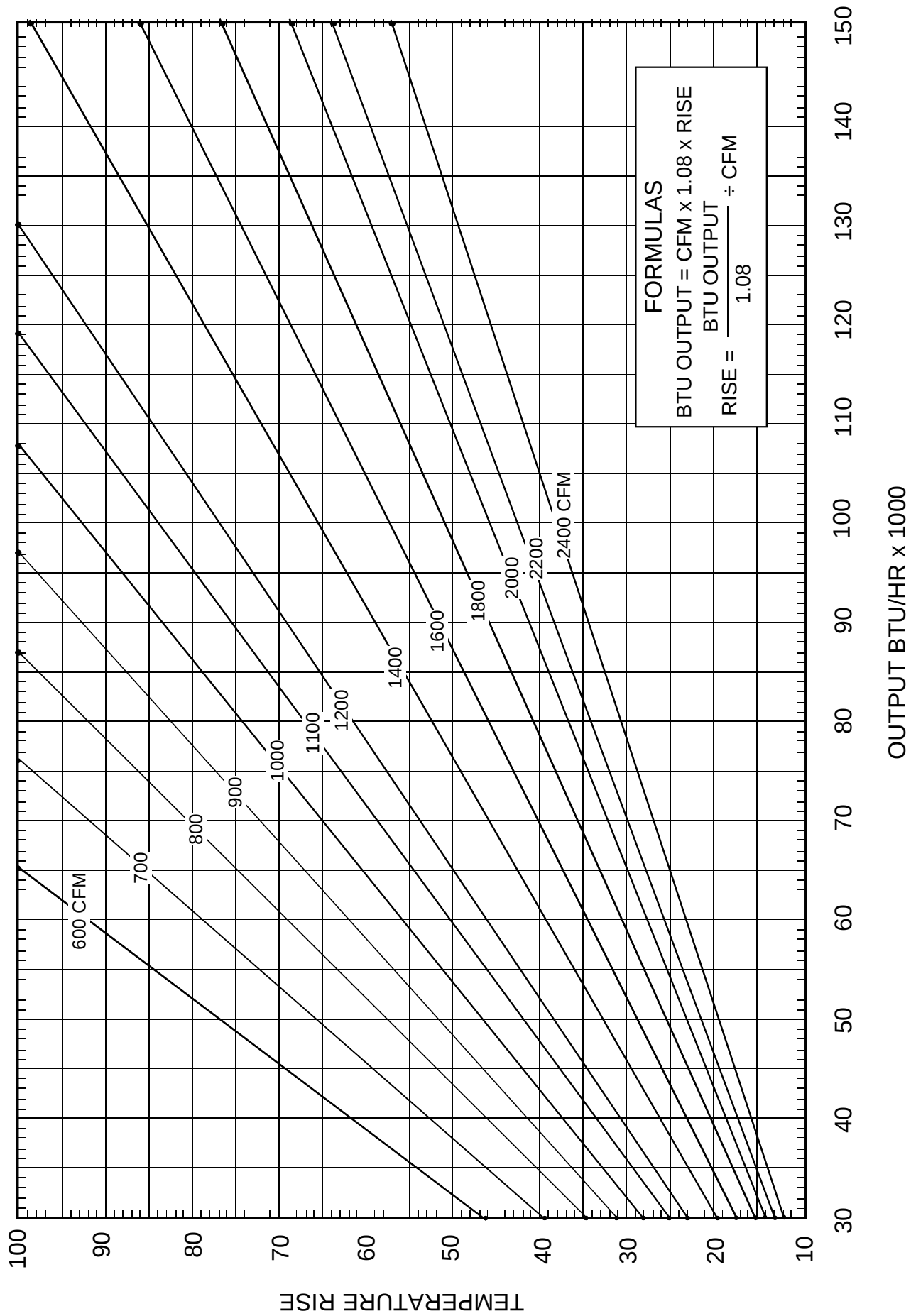
Model	Speed	Volts	E.S.P (In. of H ₂ O)								
				0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
GPH1324M21A*	Low	230	CFM	685	635	-	-	-	-	-	-
			WATTS	155	150	-	-	-	-	-	-
	Med	230	CFM	965	920	870	810	745	-	-	-
			WATTS	240	235	230	225	215	-	-	-
	High	230	CFM	1,320	1,290	1,240	1,180	1,115	1,040	950	820
			WATTS	390	380	370	360	350	340	325	305
GPH1330M21*	Low	230	CFM	1185	1155	1077	1015	970	881	709	601
			WATTS	333	323	314	306	296	283	263	251
	Med	230	CFM	1335	1291	1224	1158	1092	1012	908	778
			WATTS	388	378	367	358	347	334	314	299
	High	230	CFM	1535	1478	1408	1331	1250	1177	1074	962
			WATTS	478	474	463	449	435	422	409	393
GPH1336M21*	LOW	230	CFM	1,055	1,015	975	895	840	770	-	-
			WATTS	315	310	300	285	270	255	-	-
	M / L	230	CFM	1,285	1,240	1,190	1,120	1,040	950	850	-
			WATTS	385	375	365	350	335	315	295	-
	M / H	230	CFM	1,470	1,425	1,345	1,285	1,195	1,085	980	865
			WATTS	455	440	425	410	385	370	350	325
	HIGH	230	CFM	1,565	1,510	1,415	1,340	1,260	1,135	1,035	885
			WATTS	495	480	460	445	425	405	385	355
GPH1348M21*	T1 (G)	230	CFM	1,140	1,395	1,360	1,310	1,265	1,235	1,190	1,130
			WATTS	275	285	295	315	325	335	345	355
	T2 / T3 (W2)	230	CFM	1,795	1,765	1,715	1,695	1,650	1,600	1,500	1,375
			WATTS	475	490	505	520	530	535	510	475
	T4 / T5 (Y)	230	CFM	1,860	1,820	1,785	1,745	1,700	1,625	1,515	1,395
			WATTS	515	530	545	565	570	550	535	485
GPH1360M21A*	T1 (G)	230	CFM	1,755	1,720	1,685	1,645	1,615	1,570	1,530	1,465
			WATTS	420	435	455	460	475	490	500	500
	T2 / T3 W2	230	CFM	1,850	1,820	1,775	1,735	1,705	1,675	1,610	1,495
			WATTS	480	500	515	525	535	555	545	520
	T4 / T5 Y	230	CFM	2,180	2,125	2,050	1,975	1,875	1,800	1,655	1,530
			WATTS	770	755	725	700	675	640	575	540

NOTES:

1. Data shown is Dry Coil. Wet Coil Pressure Drop is approximate.
2. 0.1" H₂O, for 2 row indoor coil; 0.2" H₂O, for 3 row indoor coil; and 0.3" H₂O, for 4 row indoor coil.
3. Data shown does not include filter pressure drop, approx. 0.08" H₂O.
4. ALL MODELS SHOULD RUN NO LESS THAN 350 CFM / TON, USE HIGHER SPEED TAP OR NEXT SIZE LARGER BLOWER ASM., SEE REPAIR PARTS LIST.
5. Reduce airflow by 2% for 208V operation.

BLOWER PERFORMANCE DATA

BTU OUTPUT vs TEMPERATURE RISE CHART



COOLING PERFORMANCE DATA

GPH1324H21*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GPH1324H21*

IDB*			Airflow			Outdoor Ambient Temperature												Indoor Wet Bulb Temperature											
						65				75				85				95				105				115			
						59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
956	MBh	24.5	25.4	27.8	-	23.9	24.8	27.2	-	23.4	24.2	26.5	-	22.8	23.6	25.9	-	21.6	22.4	24.6	-	20.1	20.8	22.8	-				
	S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-				
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-				
	KW	1.86	1.90	1.95	-	2.00	2.04	2.10	-	2.12	2.16	2.23	-	2.23	2.27	2.35	-	2.32	2.37	2.44	-	2.40	2.45	2.53	-				
	AMPS	6.6	6.7	7.0	-	7.1	7.3	7.5	-	7.8	7.9	8.2	-	8.3	8.5	8.8	-	8.8	9.1	9.4	-	9.4	9.6	9.9	-				
	LO PR	153	164	174	-	171	185	195	-	195	210	222	-	222	239	252	-	250	269	284	-	276	297	314	-				
850	MBh	23.8	24.7	27.0	-	23.2	24.1	26.4	-	22.7	23.5	25.8	-	22.1	22.9	25.1	-	21.0	21.8	23.9	-	19.5	20.2	22.1	-				
	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	-				
	Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-				
	KW	1.84	1.88	1.94	-	1.98	2.02	2.09	-	2.10	2.15	2.21	-	2.21	2.26	2.33	-	2.30	2.35	2.42	-	2.38	2.43	2.51	-				
	AMPS	6.5	6.7	6.9	-	7.1	7.2	7.5	-	7.7	7.9	8.1	-	8.2	8.4	8.7	-	8.8	9.0	9.3	-	9.3	9.5	9.8	-				
	LO PR	151	163	172	-	170	183	193	-	193	208	219	-	220	237	250	-	247	266	281	-	273	294	311	-				
744	MBh	22.0	22.8	24.9	-	21.4	22.2	24.3	-	20.9	21.7	23.8	-	20.4	21.2	23.2	-	19.4	20.1	22.0	-	18.0	18.6	20.4	-				
	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	-				
	Delta T	19	16	12	-	19	16	13	-	19	16	13	-	19	17	13	-	19	16	12	-	18	15	12	-				
	KW	1.80	1.84	1.89	-	1.94	1.98	2.04	-	2.05	2.10	2.16	-	2.16	2.20	2.27	-	2.24	2.29	2.36	-	2.32	2.37	2.44	-				
	AMPS	6.3	6.5	6.7	-	6.9	7.0	7.3	-	7.5	7.7	7.9	-	8.0	8.2	8.5	-	8.5	8.7	9.0	-	9.0	9.2	9.6	-				
	LO PR	147	158	167	-	165	177	187	-	187	202	213	-	213	230	242	-	240	258	273	-	265	285	301	-				

COOLING OPERATION

MODEL: GPH1324H21*

IDB*	Airflow	Outdoor Ambient Temperature																																			
		65						75						85						95						105						115					
		Entering Indoor Wet Bulb Temperature																																			
80	956	MBh	25.4	25.9	27.7	29.6	24.8	25.3	27.0	28.9	24.2	24.7	26.4	28.2	23.6	24.1	25.8	27.5	22.4	22.9	24.5	26.2	20.8	21.2	22.7	24.2											
		S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62											
		Delta T	23	22	19	15	24	22	19	15	23	22	19	15	23	22	19	16	22	22	19	15	20	20	18	14											
		KW	1.89	1.93	1.99	2.05	2.03	2.07	2.14	2.20	2.15	2.20	2.27	2.34	2.26	2.31	2.39	2.46	2.36	2.41	2.48	2.57	2.44	2.49	2.57	2.66											
		AMPS	6.7	6.9	7.1	7.4	7.3	7.4	7.7	8.0	7.9	8.1	8.4	8.7	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.9	9.5	9.8	10.1	10.5											
		HIPR	156	168	177	185	175	188	199	207	199	214	226	236	227	244	258	269	255	274	290	302	282	303	320	334											
		LO PR	66	71	77	82	70	75	81	87	73	78	85	90	77	81	89	95	80	85	93	99	83	88	96	103											
		MBh	24.6	25.2	26.9	28.7	24.0	24.6	26.3	28.1	23.5	24.0	25.6	27.4	22.9	23.4	25.0	26.7	21.8	22.2	23.8	25.4	20.2	20.6	22.0	23.5											
850		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	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	19	15											
		KW	1.87	1.91	1.97	2.03	2.01	2.06	2.12	2.19	2.14	2.18	2.25	2.32	2.24	2.29	2.37	2.44	2.34	2.39	2.46	2.55	2.42	2.47	2.55	2.63											
		AMPS	6.6	6.8	7.0	7.3	7.2	7.4	7.6	7.9	7.8	8.0	8.3	8.6	8.4	8.6	8.9	9.2	8.9	9.1	9.5	9.8	9.5	9.7	10.0	10.4											
		HIPR	154	166	175	183	173	186	197	205	197	212	224	234	224	241	255	266	252	272	287	299	279	300	317	331											
		LO PR	66	70	76	81	69	74	81	86	72	77	84	89	76	81	88	94	79	84	92	98	82	87	95	102											
		MBh	22.7	23.2	24.8	26.5	22.2	22.7	24.2	25.9	21.7	22.1	23.7	25.3	21.1	21.6	23.1	24.7	20.1	20.5	21.9	23.4	18.6	19.0	20.3	21.7											
		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											
744		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	1.83	1.87	1.92	1.98	1.97	2.01	2.07	2.13	2.08	2.13	2.20	2.27	2.19	2.24	2.31	2.38	2.28	2.33	2.40	2.48	2.36	2.41	2.49	2.57											
		AMPS	6.5	6.6	6.8	7.1	7.0	7.2	7.4	7.7	7.6	7.8	8.1	8.4	8.1	8.3	8.6	8.9	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.1											
		HIPR	150	161	170	177	168	181	191	199	191	206	217	227	218	234	247	258	245	264	278	290	271	291	307	321											
		LO PR	64	68	74	79	67	72	78	83	70	74	81	87	73	78	85	91	77	82	89	95	80	85	93	99											

85	956	MBh	25.8	26.3	27.5	29.4	25.2	25.7	26.9	28.7	24.6	25.1	26.3	28.0	24.0	24.5	25.6	27.3	22.8	23.2	24.3	26.0	21.1	21.5	22.5	24.1
		S/T	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.98	0.79	1.00	1.00	0.98	0.79	1.00	1.00	0.98	0.80
		Delta T	24	24	23	20	24	24	23	20	24	24	23	20	23	24	23	20	22	22	23	20	20	21	21	18
		KW	1.90	1.94	2.00	2.06	2.04	2.09	2.15	2.22	2.17	2.22	2.29	2.36	2.28	2.33	2.40	2.48	2.37	2.43	2.51	2.59	2.46	2.51	2.59	2.68
		AMPS	6.8	6.9	7.2	7.4	7.3	7.5	7.8	8.1	8.0	8.2	8.4	8.8	8.5	8.7	9.0	9.4	9.1	9.3	9.6	10.0	9.6	9.9	10.2	10.6
	HIPR	157	169	179	187	177	190	201	209	201	216	228	238	229	246	260	271	271	258	277	293	305	285	306	323	337
	LO PR	67	71	78	83	71	75	82	88	74	78	85	91	77	82	90	96	81	86	94	100	84	89	97	104	
850	MBh	25.0	25.5	26.7	28.5	24.5	24.9	26.1	27.9	23.9	24.3	25.5	27.2	23.3	23.8	24.9	26.5	22.1	22.6	23.6	25.2	20.5	20.9	21.9	23.4	
	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	
	Delta T	25	25	24	20	26	25	24	21	26	25	24	21	25	26	24	21	24	24	24	21	22	23	22	19	
	KW	1.89	1.93	1.99	2.05	2.03	2.07	2.14	2.20	2.15	2.20	2.27	2.34	2.26	2.31	2.39	2.46	2.36	2.41	2.48	2.57	2.44	2.49	2.57	2.66	
	AMPS	6.7	6.9	7.1	7.4	7.3	7.4	7.7	8.0	7.9	8.1	8.4	8.7	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.9	9.5	9.8	10.1	10.5	
HIPR	156	168	177	185	175	188	199	207	199	214	226	236	227	244	258	269	255	274	290	302	282	303	320	334		
LO PR	66	71	77	82	70	75	81	87	73	78	85	90	77	81	89	95	80	85	93	99	83	88	96	103		
744	MBh	23.1	23.6	24.7	26.3	22.6	23.0	24.1	25.7	22.0	22.5	23.5	25.1	21.5	21.9	23.0	24.5	20.4	20.8	21.8	23.3	18.9	19.3	20.2	21.6	
	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	0.86	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	26	24	21	26	26	24	21	26	26	25	21	25	26	24	21	23	24	23	20	
	KW	1.84	1.88	1.94	2.00	1.98	2.02	2.08	2.15	2.10	2.15	2.21	2.28	2.21	2.25	2.33	2.40	2.30	2.35	2.42	2.50	2.38	2.43	2.51	2.59	
	AMPS	6.5	6.7	6.9	7.2	7.1	7.2	7.5	7.8	7.7	7.9	8.1	8.4	8.2	8.4	8.7	9.0	8.7	9.0	9.3	9.6	9.3	9.5	9.8	10.2	
HIPR	151	163	172	179	170	183	193	201	193	208	219	229	220	237	250	261	247	266	281	293	273	294	311	324		
LO PR	64	68	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	86	93	100		

* Entering Indoor Dry Bulb Temperature

* Entering Indoor Dry Bulb Temperature

* Entering Indoor Dry Bulb Temperature

NOTE: Shadlow

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

GPH1330H21*

COOLING OPERATION

MODEL: GPH1330H21*

IDB*	Airflow	Outdoor Ambient Temperature																																			
		65						75						85						95						105						115					
		Entering Indoor Wet Bulb Temperature																																			
	1181	MBh	28.0	29.0	31.8	-	27.4	28.4	31.1	-	26.7	27.7	30.3	-	26.1	27.0	29.6	-	24.8	25.7	28.1	-	22.9	23.8	26.1	-											
		ST	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-											
		Delta T	16	14	11	-	17	14	11	-	17	14	11	-	17	15	11	-	17	14	11	-	15	13	10	-											
		KW	2.06	2.10	2.17	-	2.22	2.26	2.33	-	2.35	2.41	2.48	-	2.48	2.53	2.61	-	2.58	2.64	2.72	-	2.67	2.73	2.82	-											
		AMPS	7.5	7.7	8.0	-	8.2	8.4	8.6	-	8.9	9.1	9.4	-	9.5	9.7	10.1	-	10.1	10.4	10.7	-	10.7	11.0	11.4	-											
70	1050	HI PR	156	168	177	-	175	188	199	-	199	214	226	-	226	244	257	-	255	274	290	-	281	303	320	-											
		LO PR	64	68	75	-	68	72	79	-	71	75	82	-	74	79	86	-	78	83	90	-	80	86	93	-											
		MBh	27.2	28.2	30.9	-	26.6	27.5	30.2	-	25.9	26.9	29.5	-	25.3	26.2	28.7	-	24.0	24.9	27.3	-	22.3	23.1	25.3	-											
		ST	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	-											
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-											
	919	KW	2.04	2.08	2.15	-	2.20	2.24	2.32	-	2.33	2.39	2.46	-	2.46	2.51	2.59	-	2.56	2.62	2.70	-	2.65	2.71	2.80	-											
		AMPS	7.5	7.6	7.9	-	8.1	8.3	8.6	-	8.8	9.0	9.3	-	9.4	9.6	10.0	-	10.0	10.3	10.6	-	10.6	10.9	11.3	-											
		HI PR	154	166	175	-	173	186	197	-	197	212	224	-	224	241	255	-	252	271	287	-	279	300	317	-											
		LO PR	64	68	74	-	67	72	78	-	70	74	81	-	73	78	85	-	77	82	89	-	80	85	92	-											
		MBh	25.1	26.0	28.5	-	24.5	25.4	27.9	-	23.9	24.8	27.2	-	23.4	24.2	26.5	-	22.2	23.0	25.2	-	20.6	21.3	23.3	-											

1181	MBh	28.5	29.3	31.8	34.1	27.8	28.7	31.0	33.3	27.2	28.0	30.3	32.5	26.5	27.3	29.5	31.7	25.2	25.9	28.1	30.1	23.3	24.0	26.0	27.9
	S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.67	0.43
	Delta T	19	17	14	10	19	18	15	10	19	18	15	10	19	18	15	10	19	18	14	10	18	16	13	9
	KW	2.07	2.12	2.18	2.25	2.23	2.28	2.35	2.43	2.37	2.43	2.50	2.59	2.50	2.55	2.64	2.72	2.60	2.66	2.75	2.84	2.69	2.75	2.84	2.94
	AMPS	7.6	7.8	8.0	8.4	8.2	8.4	8.7	9.1	9.0	9.2	9.5	9.9	9.6	9.8	10.2	10.6	10.2	10.5	10.8	11.3	10.8	11.1	11.5	12.0
	HI PR	157	169	179	187	177	190	201	209	201	216	228	238	229	246	260	271	257	277	292	305	284	306	323	337
	LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	84	91	97	81	86	94	100
	MBh	27.7	28.5	30.8	33.1	27.0	27.8	30.1	32.3	26.4	27.2	29.4	31.6	25.7	26.5	28.7	30.8	24.5	25.2	27.3	29.2	22.7	23.3	25.2	27.1
1050	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
	Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	11	20	18	15	10	19	17	14	10
	KW	2.06	2.10	2.17	2.24	2.22	2.26	2.34	2.41	2.35	2.41	2.48	2.57	2.48	2.53	2.61	2.70	2.58	2.64	2.73	2.82	2.67	2.73	2.82	2.92
	AMPS	7.5	7.7	8.0	8.3	8.2	8.4	8.6	9.0	8.9	9.1	9.4	9.8	9.5	9.7	10.1	10.5	10.1	10.4	10.7	11.2	10.7	11.0	11.4	11.8
	HI PR	156	168	177	185	175	188	199	207	199	214	226	236	227	244	257	268	255	274	290	302	282	303	320	334
	LO PR	64	68	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	86	93	99
	MBh	25.5	26.3	28.5	30.5	24.9	25.7	27.8	29.8	24.4	25.1	27.1	29.1	23.8	24.5	26.5	28.4	22.6	23.2	25.2	27.0	20.9	21.5	23.3	25.0
	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
919	Delta T	20	19	15	10	20	19	15	11	20	19	15	11	21	19	15	11	20	19	15	11	19	17	14	10
	KW	2.01	2.05	2.12	2.18	2.16	2.21	2.28	2.35	2.30	2.35	2.42	2.50	2.42	2.47	2.55	2.63	2.52	2.57	2.66	2.75	2.60	2.66	2.75	2.84
	AMPS	7.3	7.5	7.8	8.0	7.9	8.1	8.4	8.7	8.6	8.8	9.1	9.5	9.2	9.5	9.8	10.2	9.8	10.1	10.4	10.8	10.4	10.7	11.1	11.5
	HI PR	151	163	172	179	170	183	193	201	193	208	219	229	220	236	250	260	247	266	281	293	273	294	310	324
	LO PR	62	66	72	77	66	70	77	82	68	73	80	85	72	77	84	89	75	80	88	93	78	83	91	96
	MBh	24.9	25.7	27.8	29.8	24.4	25.1	27.1	29.1	23.8	24.5	26.5	28.4	22.6	23.2	25.2	27.0	20.9	21.5	23.3	25.0	22.7	23.3	25.2	27.1
	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
	Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	11	20	18	15	10	19	17	14	10

NOTE: Shaded area is ACCA (TVA) conditions

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

COOLING OPERATION

MODEL: GPH1330H21*

IDB*	Airflow	Outdoor Ambient Temperature																																			
		65						75						85						95						105						115					
		Entering Indoor Wet Bulb Temperature																																			
		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								
80	1181	MBh	29.0	29.6	31.7	33.9	28.3	29.0	30.9	33.1	27.7	28.3	30.2	32.3	27.0	27.6	29.5	31.5	25.6	26.2	28.0	29.9	23.7	24.3	25.9	27.7											
		S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62											
		Delta T	21	20	18	14	22	21	18	14	22	21	18	14	21	21	18	14	20	20	18	14	18	19	17	13											
		KW	2.09	2.14	2.20	2.27	2.25	2.30	2.37	2.45	2.39	2.45	2.52	2.61	2.52	2.57	2.66	2.75	2.62	2.68	2.77	2.86	2.72	2.78	2.87	2.97											
	AMPS	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.3	9.6	10.0	9.7	9.9	10.3	10.7	10.3	10.6	10.9	11.4	11.0	11.2	11.6	12.1												
	HIPR	159	171	181	188	178	192	203	211	203	218	231	240	231	249	263	274	260	280	295	308	287	309	326	340												
	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												
1050	1181	MBh	28.2	28.8	30.7	32.9	27.5	28.1	30.0	32.1	26.9	27.4	29.3	31.3	26.2	26.8	28.6	30.6	24.9	25.4	27.2	29.0	23.1	23.6	25.2	26.9											
		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	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	2.07	2.12	2.19	2.25	2.23	2.28	2.35	2.43	2.37	2.43	2.50	2.59	2.50	2.55	2.64	2.72	2.60	2.66	2.75	2.84	2.69	2.75	2.85	2.94											
	AMPS	7.6	7.8	8.0	8.4	8.2	8.4	8.7	9.1	9.0	9.2	9.5	9.9	9.6	9.8	10.2	10.6	10.2	10.5	10.8	11.3	10.8	11.1	11.5	12.0												
	HIPR	157	169	179	187	177	190	201	209	201	216	228	238	229	246	260	271	257	277	293	305	284	306	323	337												
	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												
919	1181	MBh	26.0	26.6	28.4	30.3	25.4	25.9	27.7	29.6	24.8	25.3	27.1	28.9	24.2	24.7	26.4	28.2	23.0	23.5	25.1	26.8	21.3	21.7	23.2	24.8											
		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	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	2.03	2.07	2.13	2.20	2.18	2.23	2.30	2.37	2.32	2.37	2.44	2.52	2.44	2.49	2.57	2.66	2.54	2.59	2.68	2.77	2.63	2.68	2.77	2.87											
	AMPS	7.4	7.6	7.8	8.1	8.0	8.2	8.5	8.8	8.7	8.9	9.2	9.6	9.3	9.6	9.9	10.3	9.9	10.2	10.5	10.9	10.5	10.8	11.2	11.6												
	HIPR	153	164	174	181	171	184	195	203	195	210	221	231	222	239	252	263	250	269	284	296	276	297	313	327												
	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												

	1181	MBh	29.5	30.1	31.5	33.6	28.8	29.4	30.8	32.8	28.1	28.7	30.0	32.1	27.5	28.0	29.3	31.3	26.1	26.6	27.8	29.7	24.2	24.6	25.8	27.5	
		S/T	0.98	0.95	0.86	0.70	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	0.98	0.79	1.00	1.00	0.98	0.80	
		Delta T	23	22	21	18	22	23	21	18	22	22	21	18	21	21	22	21	19	20	21	21	18	19	19	20	17
		KW	2.11	2.15	2.22	2.29	2.27	2.32	2.39	2.47	2.41	2.47	2.55	2.63	2.54	2.59	2.68	2.77	2.65	2.71	2.79	2.89	2.74	2.80	2.89	2.99	
		AMPS	7.7	7.9	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.4	9.7	10.1	9.8	10.0	10.4	10.8	10.4	10.7	11.0	11.5	11.1	11.3	11.7	12.2	
		HIPR	161	173	182	190	180	194	205	214	205	221	233	243	233	251	265	277	263	283	298	311	290	312	330	344	
		LO PR	66	70	77	82	70	74	81	87	73	77	84	90	76	81	89	95	80	85	93	99	83	88	96	102	
	1050	MBh	28.7	29.2	30.6	32.6	28.0	28.5	29.9	31.9	27.3	27.9	29.2	31.1	26.7	27.2	28.5	30.4	25.3	25.8	27.0	28.8	23.5	23.9	25.0	26.7	
		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	
		Delta T	24	23	22	19	24	23	22	19	24	23	22	19	23	24	22	19	22	23	22	19	21	21	21	18	
		KW	2.09	2.14	2.20	2.27	2.25	2.30	2.37	2.45	2.39	2.45	2.52	2.61	2.52	2.57	2.66	2.75	2.62	2.68	2.77	2.86	2.72	2.78	2.87	2.97	
		AMPS	7.7	7.9	8.1	8.4	8.3	8.5	8.8	9.1	9.0	9.3	9.6	10.0	9.7	9.9	10.3	10.7	10.3	10.6	10.9	11.4	11.0	11.2	11.6	12.1	
		HIPR	159	171	181	188	178	192	203	211	203	218	231	240	231	249	263	274	260	280	295	308	287	309	326	340	
		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	
	919	MBh	26.4	27.0	28.2	30.1	25.8	26.3	27.6	29.4	25.2	25.7	26.9	28.7	24.6	25.1	26.3	28.0	23.4	23.8	25.0	26.6	21.7	22.1	23.1	24.7	
		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	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73	
		Delta T	24	24	22	19	24	24	23	20	24	24	23	20	24	24	24	23	20	23	24	22	19	22	22	21	18
		KW	2.04	2.08	2.15	2.22	2.20	2.24	2.32	2.39	2.33	2.39	2.46	2.54	2.46	2.51	2.59	2.68	2.56	2.62	2.70	2.79	2.65	2.71	2.80	2.89	
		AMPS	7.5	7.6	7.9	8.3	7.1	7.3	8.6	8.9	8.8	9.0	9.3	9.7	9.4	9.6	10.0	10.4	10.0	10.3	10.6	11.0	10.6	10.9	11.3	11.7	
		HIPR	154	166	175	182	143	186	197	205	197	212	224	233	224	241	255	266	252	271	287	299	279	300	317	330	
		LO PR	64	68	74	79	67	72	78	83	70	74	81	86	73	78	85	91	77	82	89	95	80	85	92	98	

* Entering Indoor Dry Bulb Temperature

* Entering Indoor Dry Bulb Temperature

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

NOTE: Shaded area is AHRI Rating Conditions

COOLING PERFORMANCE DATA

GPH1336H21*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GPH1336H21*

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		
70	1406	MBh	34.3	35.5	38.9	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.9	33.1	36.2	-	30.3	31.4	34.4	-	
		S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	
		KW	2.35	2.40	2.48	-	2.54	2.59	2.68	-	2.70	2.76	2.86	-	2.85	2.91	3.01	-	2.97	3.04	3.14	-	
		AMPS	9.3	9.5	9.8	-	10.0	10.3	10.7	-	11.0	11.2	11.6	-	11.7	12.0	12.4	-	12.5	12.8	13.3	-	
	1250	HI PR	150	161	170	-	168	181	191	-	191	206	217	-	218	234	247	-	245	264	278	-	
		LO PR	63	67	73	-	66	71	77	-	69	73	80	-	72	77	84	-	76	81	88	-	
		MBh	33.3	34.5	37.8	-	32.5	33.7	36.9	-	31.7	32.9	36.1	-	31.0	32.1	35.2	-	29.4	30.5	33.4	-	
		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	-	
		Delta T	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	
1094	KW	2.33	2.38	2.46	-	2.52	2.57	2.66	-	2.68	2.74	2.83	-	2.82	2.89	2.98	-	2.95	3.01	3.11	-		
	AMPS	9.2	9.4	9.7	-	10.0	10.2	10.6	-	10.9	11.1	11.5	-	11.6	11.9	12.3	-	12.4	12.7	13.2	-		
	HI PR	148	160	169	-	166	179	189	-	189	204	215	-	216	232	245	-	243	261	276	-		
	LO PR	62	66	72	-	66	70	76	-	68	73	79	-	72	76	83	-	75	80	87	-		
	MBh	30.7	31.9	34.9	-	30.0	31.1	34.1	-	29.3	30.4	33.3	-	28.6	29.6	32.5	-	27.2	28.2	30.8	-		
1094	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	-		
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-		
	KW	2.28	2.33	2.40	-	2.46	2.51	2.59	-	2.61	2.67	2.76	-	2.75	2.81	2.91	-	2.87	2.93	3.03	-		
	AMPS	8.9	9.1	9.5	-	9.7	9.9	10.3	-	10.5	10.8	11.2	-	11.3	11.6	12.0	-	12.0	12.3	12.8	-		
	HI PR	144	155	164	-	161	174	183	-	184	198	209	-	209	225	238	-	235	253	267	-		
LO PR	60	64	70	-	64	68	74	-	66	70	77	-	70	74	81	-	73	78	85	-			

75	1406	MBh	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.3	34.2	37.1	39.8	32.4	33.4	36.2	38.8	30.8	31.7	34.4	36.9	28.6	29.4	31.8	34.2
		S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.67	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
		KW	2.37	2.42	2.50	2.59	2.56	2.62	2.70	2.79	2.73	2.79	2.88	2.98	2.87	2.94	3.04	3.14	3.00	3.06	3.17	3.28	3.10	3.17	3.28	3.40
		AMPS	9.4	9.6	9.9	10.3	10.1	10.4	10.8	11.2	11.1	11.3	11.7	12.2	11.8	12.1	12.6	13.1	12.6	13.0	13.4	13.9	13.4	13.8	14.2	14.8
	1250	HI PR	151	163	172	179	170	183	193	201	193	208	219	229	220	237	250	261	247	266	281	293	273	294	311	324
		LO PR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	84	92	98
		MBh	33.9	34.9	37.7	40.5	33.1	34.1	36.9	39.6	32.3	33.2	36.0	38.6	31.5	32.4	35.1	37.7	29.9	30.8	33.3	35.8	27.7	28.5	30.9	33.2
		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
		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
1094	1250	KW	2.35	2.40	2.48	2.56	2.54	2.60	2.68	2.77	2.70	2.76	2.86	2.95	2.85	2.91	3.01	3.11	2.97	3.04	3.14	3.25	3.08	3.15	3.25	3.37
		AMPS	9.3	9.5	9.8	10.2	10.1	10.3	10.7	11.1	11.0	11.2	11.6	12.1	11.7	12.0	12.5	12.9	12.5	12.8	13.3	13.8	13.3	13.6	14.1	14.7
		HI PR	150	161	170	178	168	181	191	199	191	206	217	227	218	234	248	258	245	264	278	290	271	291	308	321
		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	31.3	32.2	34.8	37.4	30.5	31.4	34.0	36.5	29.8	30.7	33.2	35.6	29.1	29.9	32.4	34.8	27.6	28.4	30.8	33.0	25.6	26.3	28.5	30.6
	1094	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
		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	2.30	2.35	2.42	2.50	2.48	2.53	2.61	2.70	2.64	2.69	2.78	2.88	2.78	2.84	2.93	3.03	2.89	2.96	3.06	3.17	3.00	3.07	3.17	3.28
		AMPS	9.0	9.2	9.5	9.9	9.8	10.0	10.4	10.8	10.6	10.9	11.3	11.7	11.4	11.7	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2
		HI PR	145	156	165	172	163	176	185	193	185	200	211	220	211	227	240	250	238	256	270	282	263	283	298	311
		LO PR	61	65	71	75	64	68	75	80	67	71	78	83	70	75	82	87	74	78	86	91	76	81	88	94

* 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.

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GPH1336H21*

Outdoor Ambient Temperature											
65						75					
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63
Entering Indoor Wet Bulb Temperature											
1406											
	MBh	35.5	36.3	38.8	41.4	34.7	35.4	37.9	40.5	33.8	34.6
	S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94
	Delta T	22	21	18	15	23	21	18	15	22	21
	KW	2.39	2.44	2.52	2.61	2.58	2.64	2.73	2.82	2.75	2.81
	AMPS	9.4	9.7	10.0	10.4	10.2	10.5	10.9	11.3	11.2	11.4
	HI PR	153	165	174	181	172	185	195	203	195	210
	LO PR	64	68	74	79	68	72	79	84	70	75
80	MBh	34.5	35.2	37.6	40.2	33.7	34.4	36.8	39.3	32.9	33.6
	S/T	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.95	0.89
	Delta T	23	22	19	15	23	22	19	15	23	22
	KW	2.37	2.42	2.50	2.59	2.56	2.62	2.70	2.79	2.73	2.79
	AMPS	9.4	9.6	9.9	10.3	10.1	10.4	10.8	11.2	11.1	11.3
	HI PR	151	163	172	179	170	183	193	201	193	208
1094	LO PR	63	68	74	78	67	71	78	83	70	74
	MBh	31.8	32.5	34.7	37.1	31.1	31.7	33.9	36.3	30.3	31.0
	S/T	0.86	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.92	0.86
	Delta T	23	22	19	15	23	22	19	16	23	22
	KW	2.31	2.36	2.44	2.52	2.50	2.55	2.64	2.72	2.66	2.72
	AMPS	9.1	9.3	9.6	10.0	9.9	10.1	10.5	10.9	10.7	11.0

Outdoor Ambient Temperature											
85						95					
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63
Entering Indoor Wet Bulb Temperature											
1406											
	MBh	36.1	36.8	38.6	41.1	35.3	36.0	37.7	40.2	34.4	35.1
	S/T	0.98	0.95	0.86	0.70	1.00	0.98	0.89	0.72	1.00	0.90
	Delta T	23	23	22	19	23	23	22	19	22	22
	KW	2.41	2.46	2.54	2.63	2.60	2.66	2.75	2.84	2.77	2.83
	AMPS	9.5	9.8	10.1	10.5	10.3	10.6	11.0	11.4	11.3	11.6
	HI PR	154	166	175	183	173	186	197	205	197	212
	LO PR	65	69	75	80	68	73	79	85	71	76
85	MBh	35.1	35.7	37.4	39.9	34.3	34.9	36.6	39.0	33.4	34.1
	S/T	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	1.00	0.96
	Delta T	24	24	23	19	25	24	23	20	24	23
	KW	2.39	2.44	2.52	2.61	2.58	2.64	2.73	2.82	2.75	2.81
	AMPS	9.4	9.7	10.0	10.4	10.2	10.5	10.9	11.3	11.2	11.4
	HI PR	153	165	174	181	172	185	195	203	195	210
1094	LO PR	64	68	74	79	68	72	79	84	70	75
	MBh	32.4	33.0	34.6	36.9	31.6	32.2	33.8	36.0	30.9	31.5
	S/T	0.91	0.87	0.79	0.64	0.94	0.91	0.82	0.66	0.96	0.93
	Delta T	25	24	23	20	25	25	23	20	25	25
	KW	2.33	2.38	2.46	2.54	2.52	2.57	2.66	2.75	2.68	2.74
	AMPS	9.2	9.4	9.7	10.1	10.0	10.2	10.6	11.0	10.8	11.1

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

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

GPH1342H21*

COOLING OPERATION

MODEL: GPH1342H21*

IDB*		Outdoor Ambient Temperature																							
		65				75				85				95				105				115			
		Entering Indoor Wet Bulb Temperature																							
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	
1631	MBh	40.2	41.6	45.6	-	39.2	40.7	44.6	-	38.3	39.7	43.5	-	37.4	38.7	42.4	-	35.5	36.8	40.3	-	32.9	34.1	37.3	-
	S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-
	Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	11	-
	KW	2.44	2.50	2.58	-	2.64	2.69	2.78	-	2.81	2.87	2.97	-	2.96	3.03	3.13	-	3.09	3.16	3.27	-	3.20	3.27	3.38	-
	AMPS	9.3	9.5	9.8	-	10.0	10.3	10.7	-	11.0	11.2	11.6	-	11.7	12.0	12.4	-	12.5	12.8	13.3	-	13.3	13.6	14.1	-
1450	HI PR	144	155	163	-	161	174	183	-	184	198	209	-	209	225	238	-	235	253	267	-	260	280	295	-
	LO PR	64	68	74	-	67	71	78	-	70	74	81	-	73	78	85	-	77	82	89	-	79	85	92	-
	MBh	39.0	40.4	44.3	-	38.1	39.5	43.3	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	34.5	35.7	39.1	-	31.9	33.1	36.3	-
	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	-
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-
1269	KW	2.42	2.47	2.56	-	2.61	2.67	2.76	-	2.78	2.85	2.94	-	2.93	3.00	3.10	-	3.06	3.13	3.24	-	3.17	3.24	3.35	-
	AMPS	9.2	9.4	9.7	-	10.0	10.2	10.6	-	10.9	11.1	11.5	-	11.6	11.9	12.3	-	12.4	12.7	13.2	-	13.2	13.5	14.0	-
	HI PR	142	153	162	-	160	172	182	-	182	196	207	-	207	223	235	-	233	251	265	-	257	277	292	-
	LO PR	63	67	73	-	66	71	77	-	69	73	80	-	73	77	84	-	76	81	88	-	79	84	91	-
	MBh	36.0	37.3	40.9	-	35.2	36.4	39.9	-	34.3	35.6	39.0	-	33.5	34.7	38.0	-	31.8	33.0	36.1	-	29.5	30.5	33.5	-
70	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	-
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
	KW	2.36	2.41	2.49	-	2.55	2.60	2.69	-	2.71	2.77	2.87	-	2.86	2.92	3.02	-	2.98	3.05	3.15	-	3.09	3.16	3.27	-
	AMPS	8.9	9.1	9.5	-	9.7	9.9	10.3	-	10.5	10.8	11.2	-	11.3	11.6	12.0	-	12.0	12.3	12.8	-	12.8	13.1	13.6	-
	HI PR	138	149	157	-	155	167	176	-	176	190	200	-	201	216	228	-	226	243	257	-	250	269	284	-
LO PR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-	

1631	MBh	40.9	42.1	45.5	48.9	39.9	41.1	44.5	47.7	39.0	40.1	43.4	46.6	38.0	39.1	42.4	45.5	36.1	37.2	40.2	43.2	33.4	34.4	37.3	40.0
	S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.67	0.43
	Delta T	20	18	15	10	20	18	15	10	20	18	15	10	20	19	15	10	20	18	15	10	19	17	14	10
	KW	2.46	2.52	2.60	2.68	2.66	2.72	2.81	2.90	2.83	2.90	2.99	3.09	2.98	3.05	3.16	3.26	3.11	3.19	3.29	3.41	3.23	3.30	3.41	3.53
	HIPR	9.4	9.6	9.9	10.3	10.1	10.4	10.8	11.2	11.1	11.3	11.7	12.2	11.8	12.1	12.6	13.1	12.6	13.0	13.4	13.9	13.4	13.8	14.2	14.8
	HI PR	145	156	165	172	163	175	185	193	185	200	211	220	211	227	240	250	238	256	270	282	262	282	298	311
	LO PR	64	68	75	79	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99
	MBh	39.7	40.8	44.2	47.4	38.7	39.9	43.2	46.3	37.8	38.9	42.2	45.2	36.9	38.0	41.1	44.1	35.1	36.1	39.1	41.9	32.5	33.4	36.2	38.8
1450	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
	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	2.44	2.50	2.58	2.66	2.64	2.69	2.78	2.88	2.81	2.87	2.97	3.07	2.96	3.03	3.13	3.24	3.09	3.16	3.27	3.38	3.20	3.27	3.38	3.50
	AMPS	9.3	9.5	9.8	10.2	10.1	10.3	10.7	11.1	11.0	11.2	11.6	12.1	11.7	12.0	12.5	12.9	12.5	12.8	13.3	13.8	13.3	13.6	14.1	14.7
	HI PR	144	155	163	170	161	174	183	191	184	198	209	218	209	225	238	248	235	263	267	279	260	280	295	308
	LO PR	64	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98
	MBh	36.6	37.7	40.8	43.8	35.8	36.8	39.9	42.8	34.9	35.9	38.9	41.8	34.1	35.1	38.0	40.7	32.4	33.3	36.1	38.7	30.0	30.9	33.4	35.8
	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
1269	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10
	KW	2.38	2.43	2.51	2.60	2.57	2.63	2.71	2.80	2.74	2.80	2.89	2.99	2.88	2.95	3.05	3.15	3.01	3.08	3.18	3.29	3.12	3.19	3.30	3.41
	AMPS	9.0	9.2	9.5	9.9	9.8	10.0	10.4	10.8	10.6	10.9	11.3	11.7	11.4	11.7	12.1	12.6	12.2	12.5	12.9	13.4	12.9	13.2	13.7	14.2
	HI PR	140	150	159	165	157	168	178	186	178	192	202	211	203	218	230	240	228	246	259	270	252	271	286	299
	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	33.3	34.4	37.3	40.0	32.3	33.4	36.2	38.8	30.0	30.9	33.4	35.8	27.1	28.6	31.1	33.6	24.8	26.3	28.8	31.3	22.9	24.4	26.9	29.4
	S/T	0.76	0.67	0.49	0.31	0.78	0.69	0.50	0.31	0.79	0.70	0.51	0.32	0.80	0.71	0.52	0.33	0.81	0.71	0.52	0.33	0.82	0.72	0.53	0.34
	Delta T	22	20	17	12	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	12	21	19	16	11

* 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.

COOLING OPERATION

MODEL: GPH1342H21*

IDB*	Airflow	Outdoor Ambient Temperature																																									
		65							75							85							95							105							115						
		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	59	63	67	71										
80	1631	MBh	41.6	42.5	45.4	48.5	40.6	41.5	44.3	47.4	39.6	40.5	43.3	46.3	38.7	39.5	42.2	45.1	36.7	37.6	40.1	42.9	34.0	34.8	37.2	39.7	31.0	31.8	34.3	37.1	39.9	32.7	33.5	36.0	38.8								
		S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62	0.99	0.99	0.82	0.61	0.99	0.99	0.82	0.62									
		Delta T	22	21	18	15	23	21	19	15	22	21	19	15	22	22	19	15	21	21	18	15	19	20	17	14	17	16	13	12	10	9	7	6									
		KW	2.48	2.54	2.62	2.71	2.68	2.74	2.83	2.93	2.86	2.92	3.02	3.12	3.01	3.08	3.18	3.29	3.14	3.21	3.32	3.44	3.25	3.33	3.44	3.56	3.36	3.44	3.56	3.68	3.80	3.92	4.04	4.16									
		AMPS	9.4	9.7	10.0	10.4	10.2	10.5	10.9	11.3	11.2	11.4	11.8	12.3	12.0	12.3	12.7	13.2	12.8	13.1	13.5	14.1	13.5	13.9	14.4	14.9	14.1	14.9	16.1	17.3	18.5	19.7	20.9	22.1									
	HI PR	147	158	167	174	165	177	187	195	187	202	213	222	213	230	242	253	240	258	273	284	265	285	301	314	284	301	314	327	339	351	363	375	387									
	LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100	86	94	100	112	124	136	148	160	172									
	1450	MBh	40.4	41.3	44.1	47.1	39.4	40.3	43.1	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	35.7	36.5	39.0	41.6	33.0	33.8	36.1	38.6	30.0	30.8	33.3	36.1	38.9	31.7	32.5	35.0	37.8								
		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	0.99	0.99	0.82	0.61	0.99	0.99	0.82	0.62									
		Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	16	23	22	19	15	21	21	18	14	17	16	13	12	10	9	7	6									
KW		2.46	2.52	2.60	2.68	2.66	2.72	2.81	2.90	2.83	2.90	2.99	3.10	2.98	3.05	3.16	3.26	3.11	3.19	3.29	3.41	3.23	3.30	3.41	3.53	3.34	3.42	3.54	3.66	3.78	3.90	4.02	4.14	4.26									
AMPS		9.4	9.6	9.9	10.3	10.1	10.4	10.8	11.2	11.1	11.3	11.7	12.2	11.9	12.2	12.6	13.1	12.6	13.0	13.4	13.9	13.4	13.8	14.2	14.8	14.0	14.8	16.0	17.2	18.4	19.6	20.8	22.0	23.2									
1269	HI PR	145	156	165	172	163	175	185	193	185	200	211	220	211	227	240	250	238	256	270	282	263	283	298	311	282	298	311	323	335	347	359	371	383									
	LO PR	64	68	75	79	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99	80	85	93	99	112	124	136	148	160	172								
	MBh	37.3	38.1	40.7	43.5	36.4	37.2	39.7	42.5	35.5	36.3	38.8	41.5	34.7	35.4	37.8	40.5	32.9	33.6	36.0	38.4	30.5	31.2	33.3	35.6	27.0	27.8	30.3	33.1	35.9	28.7	29.5	32.0	34.8									
	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	0.99	0.99	0.82	0.61	0.99	0.99	0.82	0.62										
	Delta T	23	22	19	16	24	23	20	16	24	23	20	16	24	23	20	16	23	22	20	16	22	21	18	15	17	16	13	12	10	9	7	6										

1631	MBh	42.3	43.1	45.2	48.2	41.3	42.1	44.1	47.1	40.3	41.1	43.1	45.9	39.4	40.1	42.0	44.8	37.4	38.1	39.9	42.6	34.6	35.3	37.0	39.4
	S/T	0.98	0.95	0.86	0.70	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	0.98	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	20	20	21	18
	KW	2.50	2.56	2.64	2.73	2.70	2.76	2.86	2.95	2.88	2.95	3.04	3.15	3.04	3.11	3.21	3.32	3.17	3.24	3.35	3.47	3.28	3.36	3.47	3.60
	AMPS	9.5	9.8	10.1	10.5	10.3	10.6	11.0	11.4	11.3	11.6	12.0	12.4	12.1	12.4	12.8	13.3	12.9	13.2	13.7	14.2	13.7	14.0	14.5	15.1
	HI PR	148	160	168	176	166	179	189	197	189	204	215	224	215	232	245	255	242	261	275	287	268	288	304	317
	LO PR	65	70	76	81	69	74	80	86	72	77	84	89	76	80	88	93	79	84	92	98	82	87	95	101
1450	MBh	41.1	41.9	43.9	46.8	40.1	40.9	42.8	45.7	39.2	39.9	41.8	44.6	38.2	39.0	40.8	43.5	36.3	37.0	38.8	41.3	33.6	34.3	35.9	38.3
	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
	Delta T	24	24	23	20	25	24	23	20	25	24	23	20	24	25	23	20	23	23	23	20	21	22	21	18
	KW	2.48	2.54	2.62	2.71	2.68	2.74	2.83	2.93	2.86	2.92	3.02	3.12	3.01	3.08	3.18	3.29	3.14	3.21	3.32	3.44	3.25	3.33	3.44	3.56
	AMPS	9.4	9.7	10.0	10.4	10.2	10.5	10.9	11.3	11.2	11.4	11.8	12.3	12.0	12.3	12.7	13.2	12.8	13.1	13.5	14.1	13.5	13.9	14.4	14.9
	HI PR	147	158	167	174	165	177	187	195	187	202	213	222	213	230	242	253	240	258	273	284	265	285	301	314
	LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100
1269	MBh	37.9	38.6	40.5	43.2	37.0	37.7	39.5	42.2	36.2	36.9	38.6	41.2	35.3	36.0	37.7	40.2	33.5	34.2	35.8	38.2	31.0	31.6	33.1	35.4
	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	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73
	Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	24	20	24	25	23	20	22	23	22	19
	KW	2.42	2.47	2.55	2.64	2.61	2.67	2.76	2.85	2.78	2.85	2.94	3.04	2.93	3.00	3.10	3.21	3.06	3.13	3.24	3.35	3.17	3.24	3.35	3.47
	AMPS	9.2	9.4	9.7	10.1	10.0	10.2	10.6	11.0	10.8	11.1	11.5	12.0	11.6	11.9	12.3	12.8	12.4	12.7	13.1	13.7	13.2	13.5	14.0	14.5
	HI PR	142	153	162	169	160	172	182	189	182	196	206	215	207	223	235	245	233	250	265	276	257	277	292	305
	LO PR	63	67	73	78	66	71	77	82	69	73	80	85	73	77	84	90	76	81	88	94	79	84	91	97

* Entering Indoor Dry Bulb Temperature

* Entering Indoor Dry Bulb Temperature

* Entering Indoor Dry Bulb Temperature	NOTE: Shad
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High and low pressures are measured at the liquid and suction access fittings.

COOLING PERFORMANCE DATA

GPH1348H21*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: GPH1348H21*

IDB*		Outdoor Ambient Temperature																								
		65				75				85				95				105				115				
		Entering Indoor Wet Bulb Temperature																								
	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	1856	MBh	45.5	47.1	51.6	-	44.4	46.0	50.4	-	43.4	44.9	49.2	-	42.3	43.8	48.0	-	40.2	41.6	45.6	-	37.2	38.6	42.3	-
		S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-
		Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-
		KW	2.80	2.86	2.95	-	3.02	3.09	3.20	-	3.23	3.30	3.41	-	3.40	3.48	3.60	-	3.56	3.64	3.76	-	3.69	3.77	3.90	-
		AMPS	10.7	11.0	11.4	-	11.6	11.9	12.3	-	12.7	13.0	13.5	-	13.6	13.9	14.4	-	14.5	14.9	15.4	-	15.4	15.8	16.4	-
		HI PR	147	158	167	-	165	177	187	-	187	202	213	-	213	230	243	-	240	258	273	-	265	285	301	-
70	1650	LO PR	64	68	74	-	67	71	78	-	70	74	81	-	73	78	85	-	77	82	89	-	79	85	92	-
		MBh	44.1	45.8	50.1	-	43.1	44.7	49.0	-	42.1	43.6	47.8	-	41.1	42.6	46.6	-	39.0	40.4	44.3	-	36.1	37.5	41.0	-
		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	-
		Delta T	18	15	12	-	18	15	12	-	18	15	12	-	18	16	12	-	18	15	12	-	17	14	11	-
		KW	2.77	2.83	2.93	-	3.00	3.07	3.17	-	3.20	3.27	3.38	-	3.37	3.45	3.57	-	3.52	3.61	3.73	-	3.65	3.74	3.87	-
		AMPS	10.6	10.9	11.3	-	11.5	11.8	12.2	-	12.6	12.9	13.3	-	13.5	13.8	14.3	-	14.4	14.7	15.3	-	15.3	15.7	16.2	-
70	1444	HI PR	145	156	165	-	163	176	185	-	186	200	211	-	211	227	240	-	238	256	270	-	263	283	298	-
		LO PR	63	67	73	-	66	71	77	-	69	73	80	-	73	77	84	-	76	81	88	-	79	84	91	-
		MBh	40.7	42.2	46.3	-	39.8	41.2	45.2	-	38.8	40.3	44.1	-	37.9	39.3	43.0	-	36.0	37.3	40.9	-	33.4	34.6	37.9	-
		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	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	2.70	2.76	2.85	-	2.92	2.99	3.09	-	3.12	3.19	3.30	-	3.29	3.36	3.48	-	3.43	3.51	3.63	-	3.56	3.64	3.77	-
70	1444	AMPS	10.3	10.6	10.9	-	11.2	11.5	11.9	-	12.2	12.5	12.9	-	13.1	13.4	13.9	-	14.0	14.3	14.8	-	14.8	15.2	15.7	-
		HI PR	141	152	160	-	158	170	180	-	180	194	204	-	205	221	233	-	231	248	262	-	255	274	289	-
		LO PR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-

75	1856	MBh	46.2	47.6	51.5	55.3	45.2	46.5	50.3	54.0	44.1	45.4	49.1	52.7	43.0	44.3	47.9	51.4	40.9	42.1	45.5	48.9	37.9	39.0	42.2	45.3
		S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.67	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
		KW	2.82	2.88	2.98	3.08	3.05	3.12	3.23	3.34	3.25	3.33	3.44	3.56	3.43	3.51	3.64	3.76	3.59	3.67	3.80	3.93	3.72	3.81	3.94	4.08
		AMPS	10.8	11.1	11.5	11.9	11.7	12.0	12.5	12.9	12.8	13.1	13.6	14.1	13.7	14.1	14.6	15.1	14.6	15.0	15.5	16.2	15.6	16.0	16.5	17.2
		HI PR	148	160	169	176	166	179	189	197	189	204	215	224	216	232	245	256	243	261	276	287	268	288	305	318
75	1650	LO PR	64	68	75	79	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99
		MBh	44.9	46.2	50.0	53.7	43.8	45.1	48.9	52.4	42.8	44.1	47.7	51.2	41.8	43.0	46.5	49.9	39.7	40.8	44.2	47.5	36.7	37.8	41.0	44.0
		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
		Delta T	20	19	15	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	14	10
		KW	2.80	2.86	2.95	3.06	3.02	3.09	3.20	3.31	3.23	3.30	3.41	3.53	3.40	3.48	3.60	3.73	3.56	3.64	3.77	3.90	3.69	3.77	3.90	4.04
		AMPS	10.7	11.0	11.4	11.8	11.6	11.9	12.3	12.8	12.7	13.0	13.5	14.0	13.6	13.9	14.4	15.0	14.5	14.9	15.4	16.0	15.4	15.8	16.4	17.0
75	1444	HI PR	147	158	167	174	165	177	187	195	187	202	213	222	213	230	243	253	240	258	273	285	265	286	301	314
		LO PR	64	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98
		MBh	41.4	42.7	46.2	49.6	40.5	41.7	45.1	48.4	39.5	40.7	44.0	47.3	38.5	39.7	43.0	46.1	36.6	37.7	40.8	43.8	33.9	34.9	37.8	40.6
		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
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	21	19	16	11	20	18	15	10
		KW	2.73	2.79	2.88	2.98	2.95	3.01	3.12	3.22	3.14	3.21	3.32	3.44	3.32	3.39	3.51	3.63	3.46	3.54	3.67	3.79	3.59	3.67	3.80	3.94
75	1444	AMPS	10.4	10.7	11.0	11.5	11.3	11.6	12.0	12.5	12.3	12.6	13.1	13.6	13.2	13.5	14.0	14.6	14.1	14.5	15.0	15.5	15.0	15.3	15.9	16.5
		HI PR	142	153	162	169	160	172	182	189	182	196	207	215	207	223	235	245	233	251	265	276	257	277	292	305
		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

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

NOTE: Shaded area is ACCA (TVA) conditions

COOLING OPERATION

MODEL: GPH1348H21*

IDB* Airflow			Outdoor Ambient Temperature																																			
			65						75						85						95						105						115					
			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								
		MBh	47.1	48.1	51.4	54.9	46.0	47.0	50.2	53.6	44.9	45.9	49.0	52.4	43.8	44.7	47.8	51.1	41.6	42.5	45.4	48.5	38.5	39.4	42.1	45.0												
		S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62												
		Delta T	22	21	18	15	23	21	18	15	22	21	18	15	22	21	19	15	21	21	18	15	19	19	17	14												
		KW	2.84	2.91	3.01	3.11	3.08	3.15	3.25	3.37	3.28	3.36	3.47	3.60	3.46	3.55	3.67	3.80	3.62	3.70	3.83	3.97	3.75	3.84	3.98	4.12												
		AMPS	10.9	11.2	11.6	12.0	11.9	12.2	12.6	13.1	12.9	13.3	13.7	14.3	13.9	14.2	14.7	15.3	14.8	15.2	15.7	16.3	15.7	16.1	16.7	17.3												
80		Hi/PR	150	161	170	178	168	181	191	199	191	206	217	227	218	234	247	258	245	264	278	290	271	291	308	321												
		LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100												
		MBh	45.7	46.7	49.9	53.3	44.6	45.6	48.7	52.1	43.6	44.5	47.6	50.8	42.5	43.4	46.4	49.6	40.4	41.3	44.1	47.1	37.4	38.2	40.8	43.6												
		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	21	18	14												
	1650	KW	2.82	2.88	2.98	3.08	3.05	3.12	3.23	3.34	3.25	3.33	3.44	3.56	3.43	3.51	3.64	3.76	3.59	3.67	3.80	3.93	3.72	3.81	3.94	4.08												
		AMPS	10.8	11.1	11.5	11.9	11.7	12.0	12.5	12.9	12.8	13.1	13.6	14.1	13.7	14.1	14.6	15.1	14.7	15.0	15.6	16.2	15.6	16.0	16.5	17.2												
		Hi/PR	148	160	169	176	166	179	189	197	189	204	215	224	216	232	245	256	243	261	276	287	268	288	305	318												
		LO PR	64	68	75	79	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99												
		Delta T	23	22	19	15	23	22	19	15	23	22	19	15	23	22	19	15	22	22	19	15	21	21	18	14												
	1444	KW	2.75	2.81	2.90	3.00	2.97	3.04	3.14	3.25	3.17	3.24	3.35	3.47	3.34	3.42	3.54	3.66	3.49	3.57	3.70	3.83	3.62	3.71	3.83	3.97												
		AMPS	10.5	10.8	11.1	11.6	11.4	11.7	12.1	12.6	12.4	12.8	13.2	13.7	13.3	13.7	14.2	14.7	14.2	14.6	15.1	15.7	15.1	15.5	16.0	16.7												
		Hi/PR	144	155	164	171	161	174	183	191	184	198	209	218	209	225	238	248	235	253	267	279	260	280	295	308												
		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												
		Delta T	23	22	19	15	23	22	20	16	24	23	20	16	24	23	20	16	23	22	19	16	22	21	18	15												

85	1856	MBh	47.9	48.8	51.1	54.5	46.8	47.7	49.9	53.3	45.7	46.5	48.7	52.0	44.5	45.4	47.6	50.7	42.3	43.1	45.2	48.2	39.2	40.0	41.8	44.6
		S/T	0.98	0.95	0.86	0.70	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	0.98	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	22	22	19	21	21	22	19	19	20	20	18
		KW	2.87	2.93	3.03	3.13	3.10	3.17	3.28	3.40	3.31	3.39	3.50	3.63	3.49	3.58	3.70	3.83	3.65	3.74	3.87	4.00	3.79	3.87	4.01	4.15
		AMPS	11.0	11.3	11.7	12.2	12.0	12.3	12.7	13.2	13.1	13.4	13.9	14.4	14.0	14.4	14.9	15.4	14.9	15.3	15.9	16.5	15.9	16.3	16.8	17.5
	HI PR	151	163	172	179	170	183	193	201	193	208	219	229	220	237	250	261	247	266	281	293	273	294	311	324	
	LO PR	65	70	76	81	69	74	80	86	72	77	84	89	76	80	88	93	79	84	92	98	82	87	95	101	
	1650	MBh	46.5	47.4	49.6	52.9	45.4	46.3	48.5	51.7	44.3	45.2	47.3	50.5	43.2	44.1	46.2	49.3	41.1	41.9	43.9	46.8	38.1	38.8	40.6	43.3
		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
		Delta T	24	24	23	20	25	24	23	20	25	24	23	20	24	24	23	20	23	23	23	20	21	22	21	18
KW		2.84	2.91	3.01	3.11	3.08	3.15	3.25	3.37	3.28	3.36	3.47	3.60	3.46	3.55	3.67	3.80	3.62	3.70	3.83	3.97	3.75	3.84	3.98	4.12	
AMPS		10.9	11.2	11.6	12.0	11.9	12.2	12.6	13.1	12.9	13.3	13.7	14.3	13.9	14.2	14.7	15.3	14.8	15.2	15.7	16.3	15.7	16.1	16.7	17.3	
HI PR	150	161	170	178	168	181	191	199	191	206	217	227	218	234	247	258	245	264	278	290	271	291	308	321		
LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100		
1444	MBh	42.9	43.7	45.8	48.9	41.9	42.7	44.7	47.7	40.9	41.7	43.7	46.6	39.9	40.7	42.6	45.5	37.9	38.7	40.5	43.2	35.1	35.8	37.5	40.0	
	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	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73	
	Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	24	24	23	20	22	23	22	19	
	KW	2.77	2.83	2.93	3.03	3.00	3.07	3.17	3.28	3.20	3.27	3.38	3.50	3.37	3.45	3.57	3.70	3.52	3.61	3.73	3.86	3.65	3.74	3.87	4.01	
	AMPS	10.6	10.9	11.3	11.7	11.5	11.8	12.2	12.7	12.6	12.9	13.3	13.8	13.5	13.8	14.3	14.8	14.4	14.7	15.2	15.8	15.3	15.6	16.2	16.8	
HI PR	145	156	165	172	163	175	185	193	185	200	211	220	211	227	240	250	238	256	270	282	263	283	298	311		
LO PR	63	67	73	78	66	71	77	82	69	73	80	85	73	77	84	90	76	81	88	94	79	84	91	97		

* Entering Indoor Dry Bulb Temperature

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

GPH1360H21*

COOLING OPERATION

MODEL: GPH1360H21*

IDB*			Outdoor Ambient Temperature																																			
			65						75						85						95						105						115					
			Entering Indoor Wet Bulb Temperature																																			
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										
2138	MBh	56.4	58.5	64.1	-	55.1	57.1	62.6	-	53.8	55.8	61.1	-	52.5	54.4	59.6	-	49.9	51.7	56.6	-	46.2	47.9	52.5	-	0.86	0.72	0.50	-									
	S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-									
	Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-									
	KW	3.65	3.74	3.87	-	3.96	4.06	4.20	-	4.24	4.34	4.49	-	4.48	4.59	4.75	-	4.69	4.80	4.97	-	4.86	4.98	5.16	-	4.86	4.98	5.16	-									
	AMPS	14.1	14.5	15.0	-	15.3	15.7	16.3	-	16.8	17.2	17.8	-	18.0	18.4	19.1	-	19.2	19.7	20.4	-	20.4	20.9	21.7	-	20.4	20.9	21.7	-									
	HI PR	159	171	180	-	178	192	202	-	203	218	230	-	231	248	262	-	260	279	295	-	287	309	326	-	287	309	326	-									
1900	LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-	77	82	89	-									
	MBh	54.8	56.8	62.2	-	53.5	55.5	60.8	-	52.3	54.2	59.3	-	51.0	52.8	57.9	-	48.4	50.2	55.0	-	44.9	46.5	50.9	-	44.9	46.5	50.9	-									
	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	0.69	0.48	-									
	Delta T	19	16	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-	18	15	12	-									
	KW	3.62	3.70	3.83	-	3.93	4.02	4.16	-	4.20	4.30	4.45	-	4.44	4.55	4.71	-	4.64	4.76	4.93	-	4.82	4.94	5.11	-	4.82	4.94	5.11	-									
	AMPS	14.0	14.3	14.8	-	15.2	15.6	16.1	-	16.6	17.0	17.6	-	17.8	18.3	18.9	-	19.0	19.5	20.2	-	20.2	20.7	21.4	-	20.2	20.7	21.4	-									
1663	HI PR	157	169	179	-	176	190	200	-	201	216	228	-	229	246	260	-	257	277	292	-	284	306	323	-	284	306	323	-									
	LO PR	61	65	71	-	64	68	75	-	67	71	77	-	70	75	81	-	73	78	85	-	76	81	88	-	76	81	88	-									
	MBh	50.6	52.4	57.4	-	49.4	51.2	56.1	-	48.2	50.0	54.8	-	47.1	48.8	53.4	-	44.7	46.3	50.8	-	41.4	42.9	47.0	-	41.4	42.9	47.0	-									
	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	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-	18	16	12	-									
	KW	3.52	3.61	3.73	-	3.82	3.91	4.05	-	4.09	4.18	4.33	-	4.32	4.42	4.58	-	4.52	4.63	4.79	-	4.69	4.80	4.97	-	4.69	4.80	4.97	-									
1663	AMPS	13.6	13.9	14.4	-	14.8	15.1	15.7	-	16.1	16.5	17.1	-	17.3	17.7	18.3	-	18.4	18.9	19.6	-	19.6	20.1	20.8	-	19.6	20.1	20.8	-									
	HI PR	153	164	173	-	171	184	194	-	195	209	221	-	222	239	252	-	249	268	283	-	276	297	313	-	276	297	313	-									
	LO PR	59	63	68	-	62	66	72	-	65	69	75	-	68	72	79	-	71	76	83	-	74	78	86	-	74	78	86	-									

2138	MBh	57.4	59.1	64.0	68.7	56.1	57.7	62.5	67.1	54.7	56.4	61.0	65.5	53.4	55.0	59.5	63.9	50.7	52.2	56.5	60.7	47.0	48.4	52.4	56.2
	S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.67	0.43
	Delta T	21	19	16	11	21	20	16	11	21	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
	KW	3.68	3.77	3.90	4.04	4.00	4.09	4.24	4.39	4.28	4.38	4.53	4.70	4.52	4.63	4.80	4.97	4.73	4.84	5.02	5.20	4.91	5.03	5.21	5.40
	AMPS	14.3	14.6	15.1	15.7	15.5	15.9	16.4	17.1	16.9	17.4	18.0	18.7	18.1	18.6	19.3	20.0	19.4	19.9	20.6	21.1	20.6	21.1	21.9	22.7
	HI PR	160	173	182	190	180	194	205	213	205	220	233	243	233	251	265	276	262	282	298	311	290	312	329	344
	LO PR	62	66	72	77	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	93	77	82	90	96
1900	MBh	55.7	57.4	62.1	66.7	54.4	56.0	60.7	65.1	53.1	54.7	59.2	63.6	51.8	53.4	57.8	62.0	49.2	50.7	54.9	58.9	45.6	47.0	50.8	54.6
	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
	Delta T	22	20	17	11	22	21	17	12	22	21	17	12	22	21	17	12	22	20	17	12	21	19	16	11
	KW	3.65	3.74	3.87	4.00	3.96	4.06	4.20	4.35	4.24	4.34	4.49	4.66	4.48	4.59	4.75	4.93	4.69	4.80	4.97	5.15	4.86	4.98	5.16	5.35
	AMPS	14.1	14.5	15.0	15.6	15.3	15.7	16.3	16.9	16.8	17.2	17.8	18.5	18.0	18.4	19.1	19.8	19.2	19.7	20.4	21.2	20.4	20.9	21.7	22.5
	HI PR	159	171	180	188	178	192	203	211	203	218	230	240	231	248	262	274	260	280	295	308	287	309	326	340
	LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	95
1663	MBh	51.4	53.0	57.3	61.5	50.2	51.7	56.0	60.1	49.0	50.5	54.7	58.7	47.8	49.3	53.3	57.2	45.5	46.8	50.7	54.4	42.1	43.4	46.9	50.4
	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
	Delta T	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11
	KW	3.55	3.64	3.76	3.90	3.86	3.95	4.09	4.23	4.12	4.22	4.37	4.53	4.36	4.46	4.62	4.79	4.56	4.67	4.84	5.01	4.73	4.85	5.02	5.20
	AMPS	13.7	14.1	14.6	15.1	14.9	15.3	15.8	16.4	16.3	16.7	17.3	18.0	17.5	17.9	18.5	19.3	18.6	19.1	19.8	20.6	19.8	20.3	21.0	21.9
	HI PR	154	166	175	183	173	186	196	205	197	212	223	233	224	241	254	263	252	271	286	299	278	300	316	330
	LO PR	59	63	69	74	63	67	73	78	65	70	76	81	69	73	80	85	72	77	84	89	74	79	86	92

* Entering Indoor Dry Bulb Temperature

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

COOLING OPERATION

MODEL: GPH1360H21*

IDB*			Outdoor Ambient Temperature																																															
			65								75								85								95								105								115							
			Entering Indoor Wet Bulb Temperature																																															
			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	59	63	67	71																
80	2138	MBh	58.4	59.7	63.8	68.2	57.1	58.3	62.3	66.6	55.7	56.9	60.8	65.0	54.3	55.5	59.3	63.4	51.6	52.8	56.4	60.3	47.8	48.9	52.2	55.8																								
		ST	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62																								
		Delta T	24	23	20	16	25	23	20	16	24	23	20	16	23	23	20	16	22	23	20	16	21	21	18	15																								
		KW	3.72	3.80	3.94	4.08	4.03	4.13	4.28	4.43	4.31	4.42	4.58	4.74	4.56	4.67	4.84	5.02	4.77	4.89	5.06	5.25	4.95	5.07	5.26	5.45																								
		AMPS	14.4	14.8	15.3	15.9	15.6	16.0	16.6	17.3	17.1	17.5	18.1	18.9	18.3	18.8	19.5	20.2	19.6	20.1	20.8	21.6	20.8	21.3	22.1	23.0																								
	1900	HiPR	162	174	184	192	182	196	207	216	207	223	235	245	236	253	268	279	265	285	301	314	293	315	333	347																								
		LOPR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	80	88	94	78	83	91	97																								
		MBh	56.7	58.0	61.9	66.2	55.4	56.6	60.5	64.7	54.1	55.3	59.0	63.1	52.8	53.9	57.6	61.6	50.1	51.2	54.7	58.5	46.4	47.4	50.7	54.2																								
		ST	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																								
		1663	Delta T	25	24	20	16	25	24	21	17	25	24	21	17	25	24	21	17	24	24	21	16	22	22	19	15																							
KW	3.68		3.77	3.90	4.04	4.00	4.09	4.24	4.39	4.28	4.38	4.53	4.70	4.52	4.63	4.80	4.97	4.73	4.84	5.02	5.20	4.91	5.03	5.21	5.40																									
AMPS	14.3		14.6	15.1	15.7	15.5	15.9	16.4	17.1	16.9	17.4	18.0	18.7	18.1	18.6	19.3	20.0	19.4	19.9	20.6	21.4	20.6	21.1	21.9	22.7																									
HiPR	160		173	182	190	180	194	205	213	205	220	233	243	233	251	265	276	262	282	298	311	290	312	329	344																									
LOPR	62		66	72	77	65	70	76	81	68	72	79	84	71	76	83	88	75	80	87	93	77	82	90	96																									

2138	MBh	59.4	60.6	63.5	67.7	58.1	59.2	62.0	66.1	56.7	57.8	60.5	64.6	55.3	56.4	59.0	63.0	52.5	53.5	56.1	59.8	48.7	49.6	51.9	55.4
	ST	0.98	0.95	0.86	0.70	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	0.98	0.79	1.00	1.00	0.98	0.80
	Delta T	25	25	23	20	25	25	24	21	24	25	24	21	24	24	24	21	23	23	24	20	21	21	22	19
	KW	3.75	3.84	3.97	4.11	4.07	4.17	4.31	4.47	4.35	4.46	4.62	4.78	4.60	4.71	4.88	5.06	4.82	4.93	5.11	5.30	5.00	5.12	5.31	5.50
	AMPS	14.5	14.9	15.4	16.0	15.8	16.2	16.8	17.4	17.2	17.7	18.3	19.0	18.5	19.0	19.6	20.4	19.8	20.3	21.0	21.8	21.0	21.5	22.3	23.2
	HiPR	164	176	186	194	184	198	209	218	209	225	237	248	238	256	270	282	268	288	304	317	296	318	336	350
	LO PR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	94	79	84	92	98
1900	MBh	57.7	58.8	61.6	65.7	56.4	57.5	60.2	64.2	55.0	56.1	58.7	62.7	53.7	54.7	57.3	61.1	51.0	52.0	54.4	58.1	47.2	48.2	50.4	53.8
	ST	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
	Delta T	26	26	24	21	27	26	25	21	27	26	25	21	26	26	25	22	25	25	25	21	23	23	23	20
	KW	3.72	3.80	3.94	4.08	4.03	4.13	4.28	4.43	4.31	4.42	4.58	4.74	4.56	4.67	4.84	5.02	4.77	4.89	5.06	5.25	4.95	5.07	5.26	5.45
	AMPS	14.4	14.8	15.3	15.9	15.6	16.0	16.6	17.3	17.1	17.5	18.1	18.9	18.3	18.8	19.5	20.2	19.6	20.1	20.8	21.6	20.8	21.3	22.1	23.0
	HiPR	162	174	184	192	182	196	207	216	207	223	235	245	236	253	268	279	265	285	301	314	293	315	333	347
	LO PR	63	67	73	77	66	70	77	82	69	73	80	85	72	77	84	89	76	80	88	94	78	83	91	97
1663	MBh	53.3	54.3	56.9	60.7	52.0	53.0	55.5	59.3	50.8	51.8	54.2	57.8	49.5	50.5	52.9	56.4	47.1	48.0	50.3	53.6	43.6	44.4	46.6	49.7
	ST	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	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73
	Delta T	27	26	25	21	27	27	25	22	27	27	25	22	27	27	25	22	26	26	25	22	24	25	23	20
	KW	3.62	3.70	3.83	3.97	3.93	4.02	4.16	4.31	4.20	4.30	4.45	4.61	4.44	4.55	4.71	4.88	4.64	4.75	4.93	5.10	4.82	4.94	5.11	5.30
	AMPS	14.0	14.3	14.8	15.4	15.2	15.6	16.1	16.8	16.6	17.0	17.6	18.3	17.8	18.2	18.9	19.6	19.0	19.5	20.2	21.0	20.2	20.7	21.4	22.3
	HiPR	157	169	179	186	176	190	200	209	201	216	228	238	228	246	260	271	257	277	292	305	284	306	323	337
	LO PR	61	65	71	75	64	68	74	79	67	71	77	82	70	74	81	87	73	78	85	91	76	81	88	94

* Entering Indoor Dry Bulb Temperature

* Entering Indoor Dry Bulb Temperature

* Entering Indoor Dry Bulb Temperature NOTE: Shading
High and low pressures are measured at the liquid and suction access fittings.

GPH1324M21A*

MODEL: GPH1324M21A

COOLING OPERATION

IDB*			Airflow			Outdoor Ambient Temperature																																			
						65						75						85						95						105						115					
						Entering Indoor Wet Bulb Temperature																																			
70			1013	MBh	23.5	24.4	26.7	-	-	23.0	23.8	26.1	-	-	22.4	23.2	25.5	-	-	21.9	22.7	24.8	-	-	20.8	21.5	23.6	-	-	19.3	20.0	21.9	-								
				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	16	14	11	-	-	16	14	11	-	-	16	14	11	-	-	17	14	11	-	-	16	14	11	-	-	15	13	10	-								
				KW	1.78	1.81	1.86	-	-	1.90	1.93	1.99	-	-	2.00	2.04	2.10	-	-	2.09	2.13	2.20	-	-	2.17	2.22	2.28	-	-	2.24	2.28	2.35	-								
				AMPS	7.1	7.2	7.4	-	-	7.5	7.7	7.9	-	-	8.1	8.3	8.5	-	-	8.6	8.8	9.0	-	-	9.1	9.3	9.5	-	-	9.5	9.8	10.0	-								
				Hi PR	141	152	160	-	-	158	170	180	-	-	180	193	204	-	-	205	220	233	-	-	230	248	262	-	-	254	274	289	-								
				LO PR	64	68	74	-	-	67	71	78	-	-	70	74	81	-	-	73	78	85	-	-	77	82	89	-	-	79	85	92	-								
				MBh	22.8	23.7	25.9	-	-	22.3	23.1	25.3	-	-	21.8	22.6	24.7	-	-	21.2	22.0	24.1	-	-	20.2	20.9	22.9	-	-	18.7	19.4	21.2	-								
				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	17	15	11	-	-	17	15	11	-	-	17	15	11	-	-	17	15	11	-	-	17	15	11	-	-	16	14	10	-								
KW	1.77	1.80	1.85	-	-	1.88	1.92	1.97	-	-	1.99	2.03	2.08	-	-	2.08	2.12	2.18	-	-	2.16	2.20	2.26	-	-	2.22	2.27	2.34	-												
AMPS	7.0	7.2	7.3	-	-	7.5	7.6	7.9	-	-	8.0	8.2	8.4	-	-	8.5	8.7	9.0	-	-	9.0	9.2	9.5	-	-	9.5	9.7	10.0	-												
Hi PR	139	150	158	-	-	156	168	178	-	-	178	191	202	-	-	203	218	230	-	-	228	245	259	-	-	252	271	286	-												
LO PR	63	67	73	-	-	66	71	77	-	-	69	73	80	-	-	73	77	84	-	-	76	81	88	-	-	79	84	91	-												
				MBh	21.1	21.8	23.9	-	-	20.6	21.3	23.4	-	-	20.1	20.8	22.8	-	-	19.6	20.3	22.3	-	-	18.6	19.3	21.1	-	-	17.3	17.9	19.6	-								
				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	17	15	11	-	-	17	15	11	-	-	17	15	11	-	-	18	15	12	-	-	17	15	11	-	-	16	14	11	-								
				KW	1.73	1.76	1.81	-	-	1.84	1.88	1.93	-	-	1.94	1.98	2.04	-	-	2.03	2.07	2.13	-	-	2.11	2.15	2.21	-	-	2.17	2.22	2.28	-								
				AMPS	6.9	7.0	7.2	-	-	7.3	7.5	7.7	-	-	7.8	8.0	8.2	-	-	8.3	8.5	8.7	-	-	8.8	9.0	9.2	-	-	9.2	9.4	9.7	-								
788				Hi PR	135	146	154	-	-	152	163	172	-	-	173	186	196	-	-	197	212	223	-	-	221	238	251	-	-	244	263	278	-								
				LO PR	61	65	71	-	-	64	69	75	-	-	67	71	78	-	-	70	75	82	-	-	74	78	86	-	-	76	81	89	-								

75	1013	MBh	23.9	24.6	26.7	28.6	23.4	24.1	26.0	27.9	22.8	23.5	25.4	27.3	22.2	22.9	24.8	26.6	21.1	21.8	23.6	25.3	19.6	20.2	21.8	23.4
		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	19	17	14	10	19	18	14	10	19	18	14	10	19	18	14	10	19	17	14	10	18	16	13	9
		KW	1.79	1.82	1.87	1.93	1.91	1.95	2.00	2.06	2.02	2.05	2.11	2.18	2.11	2.15	2.21	2.28	2.19	2.23	2.30	2.37	2.26	2.30	2.37	2.44
		AMPS	7.1	7.3	7.5	7.7	7.6	7.8	8.0	8.2	8.2	8.3	8.6	8.9	8.7	8.8	9.1	9.4	9.1	9.3	9.6	9.9	9.6	9.8	10.1	10.5
		HI PR	142	153	162	169	160	172	181	189	182	195	206	215	207	223	235	245	233	250	264	276	257	277	292	305
	LO PR	64	68	75	79	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99	
	900	MBh	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	22.8	24.7	26.5	21.6	22.2	24.1	25.8	20.5	21.1	22.9	24.5	19.0	19.6	21.2	22.7
		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	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	10
		KW	1.78	1.81	1.86	1.91	1.90	1.93	1.99	2.04	2.00	2.04	2.10	2.16	2.09	2.13	2.20	2.26	2.17	2.22	2.28	2.35	2.24	2.29	2.35	2.43
		AMPS	7.1	7.2	7.4	7.6	7.5	7.7	7.9	8.2	8.1	8.3	8.5	8.8	8.6	8.8	9.0	9.3	9.1	9.3	9.5	9.9	9.5	9.8	10.0	10.4
HI PR		141	152	160	167	158	170	180	187	180	193	204	213	205	220	233	243	230	248	262	273	254	274	289	302	
LO PR	64	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98		
788	MBh	21.4	22.1	23.9	25.6	20.9	21.6	23.3	25.0	20.4	21.0	22.8	24.4	19.9	20.5	22.2	23.8	18.9	19.5	21.1	22.7	17.5	18.1	19.6	21.0	
	S/T	0.80	0.71	0.54	0.35	0.82	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	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	1.74	1.77	1.82	1.87	1.86	1.89	1.94	2.00	1.96	2.00	2.05	2.11	2.05	2.09	2.15	2.21	2.12	2.17	2.23	2.30	2.19	2.23	2.30	2.37	
	AMPS	6.9	7.0	7.2	7.5	7.4	7.5	7.7	8.0	7.9	8.1	8.3	8.6	8.4	8.6	8.8	9.1	8.8	9.0	9.3	9.6	9.3	9.5	9.8	10.1	
	HI PR	137	147	155	162	153	165	174	182	174	188	198	207	199	214	226	235	223	240	254	265	247	266	281	293	
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		

Shaded area is ACCA (TVA) conditions

IDB: Entering Indoor Dry Bulb Temperature	KW=Total system power
72.0	1.00
73.0	1.00
74.0	1.00
75.0	1.00
76.0	1.00
77.0	1.00
78.0	1.00
79.0	1.00
80.0	1.00
81.0	1.00
82.0	1.00
83.0	1.00
84.0	1.00
85.0	1.00
86.0	1.00
87.0	1.00
88.0	1.00
89.0	1.00
90.0	1.00
91.0	1.00
92.0	1.00
93.0	1.00
94.0	1.00
95.0	1.00
96.0	1.00
97.0	1.00
98.0	1.00
99.0	1.00
100.0	1.00

Shaded area is ACCA (TVA) conditions
High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPH1324M21A

COOLING OPERATION

1013	MBh	24.8	25.2	26.4	28.2	24.2	24.7	25.8	27.6	23.6	24.1	25.2	26.9	23.0	23.5	24.6	26.2	21.9	22.3	23.4	24.9	20.3	20.7	21.6	23.1
	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	0.99	0.81
	Delta T	22	22	21	18	22	22	21	18	21	22	21	18	21	21	21	18	20	20	21	18	18	19	20	17
	KW	1.82	1.85	1.90	1.95	1.94	1.97	2.03	2.09	2.05	2.09	2.15	2.21	2.14	2.18	2.25	2.32	2.22	2.27	2.33	2.40	2.29	2.34	2.41	2.48
	AMPS	7.2	7.4	7.6	7.8	7.7	7.9	8.1	8.4	8.3	8.5	8.7	9.0	8.8	9.0	9.2	9.6	9.3	9.5	9.8	10.1	9.8	10.0	10.3	10.7
	HIPR	145	156	165	172	163	175	185	193	185	199	210	220	211	227	240	250	237	255	270	281	262	282	298	311
	LO PR	65	70	76	81	69	74	80	86	72	77	84	89	76	80	88	93	79	84	92	98	82	87	95	101
900	MBh	24.0	24.5	25.7	27.4	23.5	23.9	25.1	26.8	22.9	23.4	24.5	26.1	22.4	22.8	23.9	25.5	21.2	21.7	22.7	24.2	19.7	20.1	21.0	22.4
	S/T	0.95	0.92	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	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
	Delta T	23	23	22	19	24	23	22	19	23	23	22	19	23	23	22	19	22	22	22	19	20	20	20	18
	KW	1.80	1.84	1.89	1.94	1.92	1.96	2.02	2.07	2.03	2.07	2.13	2.19	2.12	2.17	2.23	2.30	2.21	2.25	2.32	2.39	2.27	2.32	2.39	2.46
	AMPS	7.2	7.3	7.5	7.8	7.7	7.8	8.0	8.3	8.2	8.4	8.7	8.9	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.0	9.7	9.9	10.2	10.6
	HIPR	144	155	163	170	161	174	183	191	183	197	208	217	209	225	237	248	235	253	267	279	260	279	295	308
	LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100
788	MBh	22.2	22.6	23.7	25.3	21.7	22.1	23.1	24.7	21.2	21.6	22.6	24.1	20.6	21.0	22.0	23.5	19.6	20.0	20.9	22.3	18.2	18.5	19.4	20.7
	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	0.91	0.74
	Delta T	24	23	22	19	24	24	22	19	24	24	22	19	24	24	22	19	23	23	22	19	21	22	21	18
	KW	1.77	1.80	1.85	1.90	1.88	1.92	1.97	2.03	1.99	2.02	2.08	2.14	2.08	2.12	2.18	2.25	2.16	2.20	2.26	2.33	2.22	2.27	2.33	2.41
	AMPS	7.0	7.1	7.3	7.6	7.5	7.6	7.9	8.1	8.0	8.2	8.4	8.7	8.5	8.7	8.9	9.2	9.0	9.2	9.5	9.8	9.5	9.7	10.0	10.3
	HIPR	139	150	158	165	156	168	178	185	178	191	202	211	203	218	230	240	228	245	259	270	252	271	286	298
	LO PR	63	67	73	78	66	71	77	82	69	73	80	85	73	77	84	90	76	81	88	94	79	84	91	97

Shaded area is AHRI rating conditions

IDB: Entering Indoor Dry Bulb Temperature

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

COOLING PERFORMANCE DATA

GPH1330M21*

EXPANDED PERFORMANCE DATA

MODEL: GPH1330M21AA

COOLING OPERATION

		Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
IDB*	Airflow	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	
	1181	MBh	29.4	30.5	33.4	-	28.7	29.8	32.6	-	28.0	29.1	31.8	-	27.3	28.3	31.1	-	26.0	26.9	29.5	-	24.1	24.9	27.3	-	24.1	24.9	27.3	-	
		S/T	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.52	-	0.89	0.74	0.52	-	
		DT	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-	17	14	11	-	
		KW	2.14	2.19	2.25	-	2.30	2.35	2.42	-	2.44	2.49	2.57	-	2.57	2.62	2.70	-	2.67	2.73	2.82	-	2.76	2.82	2.91	-	2.76	2.82	2.91	-	
		AMPS	7.9	8.1	8.4	-	8.6	8.8	9.1	-	9.3	9.5	9.9	-	10.0	10.2	10.5	-	10.6	10.9	11.2	-	11.2	11.5	11.9	-	11.2	11.5	11.9	-	
		HI PR	146	157	166	-	164	176	186	-	186	200	212	-	212	228	241	-	239	257	271	-	264	284	300	-	264	284	300	-	
	LO PR	62	66	72	-	66	70	76	-	68	72	79	-	72	76	83	-	75	80	87	-	78	82	90	-	78	82	90	-		
70	1050	MBh	28.5	29.6	32.4	-	27.9	28.9	31.7	-	27.2	28.2	30.9	-	26.6	27.5	30.2	-	25.2	26.1	28.6	-	23.4	24.2	26.5	-	23.4	24.2	26.5	-	
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	
		DT	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-	
		KW	2.13	2.17	2.24	-	2.29	2.33	2.40	-	2.42	2.47	2.55	-	2.55	2.60	2.68	-	2.65	2.71	2.79	-	2.74	2.80	2.89	-	2.74	2.80	2.89	-	
		AMPS	7.8	8.0	8.3	-	8.5	8.7	9.0	-	9.2	9.5	9.8	-	9.9	10.1	10.5	-	10.5	10.8	11.1	-	11.1	11.4	11.8	-	11.1	11.4	11.8	-	
		HI PR	144	155	164	-	162	174	184	-	184	198	210	-	210	226	239	-	236	254	268	-	261	281	297	-	261	281	297	-	
	LO PR	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-	77	82	89	-		
	919	MBh	26.3	27.3	29.9	-	25.7	26.7	29.2	-	25.1	26.0	28.5	-	24.5	25.4	27.8	-	23.3	24.1	26.4	-	21.6	22.4	24.5	-	21.6	22.4	24.5	-	
		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	0.68	0.47	-	0.82	0.68	0.47	-	
		DT	19	16	12	-	19	16	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-	18	15	12	-	
		KW	2.08	2.12	2.19	-	2.23	2.28	2.35	-	2.37	2.42	2.49	-	2.48	2.54	2.62	-	2.59	2.64	2.72	-	2.67	2.73	2.82	-	2.67	2.73	2.82	-	
		AMPS	7.6	7.8	8.1	-	8.3	8.5	8.7	-	9.0	9.2	9.5	-	9.6	9.8	10.2	-	10.2	10.5	10.8	-	10.8	11.1	11.5	-	10.8	11.1	11.5	-	
		HI PR	140	151	159	-	157	169	179	-	179	192	203	-	204	219	231	-	229	247	260	-	253	272	288	-	253	272	288	-	
	LO PR	60	63	69	-	63	67	73	-	65	70	76	-	69	73	80	-	72	77	84	-	74	79	86	-	74	79	86	-		

EXPANDED PERFORMANCE DATA

MODEL: GPH1330M21AA

COOLING OPERATION

		Outdoor Ambient Temperature										105										115									
		65					75					85					95														
IDB*	Airflow	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
80	1181	MBh	30.4	31.1	33.2	35.5	29.7	30.4	32.4	34.7	37.0	29.0	29.6	31.7	33.9	36.2	28.3	28.9	30.9	33.0	35.3	26.9	27.5	29.4	31.4	33.7	24.9	25.5	27.2	29.1	31.4
		S/T	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	0.37	1.00	0.97	0.79	0.59	0.39	1.00	1.00	0.81	0.61	0.41	1.00	1.00	0.84	0.63	0.43	1.00	1.00	0.85	0.63	0.43
		DT	23	22	19	15	23	22	19	15	11	23	22	19	15	11	22	23	20	16	12	21	21	19	15	19	20	18	14	14	14
		KW	2.18	2.22	2.29	2.36	2.34	2.39	2.46	2.54	2.62	2.48	2.53	2.61	2.70	2.78	2.61	2.66	2.75	2.84	2.92	2.72	2.77	2.86	2.96	3.04	2.81	2.87	2.96	3.06	3.14
		AMPS	8.1	8.3	8.5	8.9	8.7	8.9	9.2	9.6	10.0	9.5	9.7	10.0	10.4	10.8	10.1	10.4	10.7	11.2	11.6	10.8	11.1	11.5	11.9	11.5	11.7	12.1	12.6	13.1	13.6
		HIPR	149	160	169	176	167	180	190	198	206	190	204	216	225	234	216	233	246	257	266	243	262	277	289	299	269	290	306	319	332
		LO PR	63	67	73	78	67	71	78	83	89	69	74	81	86	91	73	78	85	90	95	76	81	89	95	79	84	92	98	103	108
	1050	MBh	29.5	30.2	32.3	34.5	28.9	29.5	31.5	33.7	35.9	28.2	28.8	30.8	32.9	35.1	27.5	28.1	30.1	32.1	34.1	26.1	26.7	28.5	30.5	32.5	24.2	24.7	26.4	28.2	30.2
		S/T	0.92	0.87	0.70	0.53	0.96	0.90	0.73	0.55	0.37	0.98	0.92	0.75	0.56	0.37	1.00	0.95	0.77	0.57	0.37	1.00	0.99	0.80	0.60	1.00	0.99	0.81	0.60	0.40	0.20
		DT	24	23	20	16	24	23	20	16	12	24	23	20	16	12	23	23	20	16	12	23	23	20	16	21	22	19	15	15	15
919		KW	2.16	2.21	2.27	2.34	2.32	2.37	2.44	2.52	2.60	2.46	2.51	2.59	2.68	2.76	2.59	2.64	2.73	2.82	2.90	2.69	2.75	2.84	2.93	3.01	2.78	2.85	2.94	3.03	3.11
		AMPS	8.0	8.2	8.5	8.8	8.6	8.9	9.2	9.5	9.9	9.4	9.6	10.0	10.3	10.7	10.1	10.3	10.7	11.1	11.5	10.7	11.0	11.3	11.8	11.4	11.6	12.0	12.5	13.0	13.5
		HIPR	147	159	168	175	165	178	188	196	204	188	202	214	223	232	214	231	244	254	263	241	259	274	286	296	266	287	303	316	329
		LO PR	63	67	73	77	66	70	77	82	87	69	73	80	85	90	72	77	84	89	94	76	81	88	94	78	83	91	97	102	107
		MBh	27.3	27.9	29.8	31.8	26.6	27.2	29.1	31.1	33.1	26.0	26.6	28.4	30.3	32.3	25.4	25.9	27.7	29.6	31.5	24.1	24.6	26.3	28.1	22.3	22.8	24.4	26.0	27.6	29.2
		S/T	0.89	0.84	0.68	0.51	0.92	0.87	0.70	0.53	0.35	0.95	0.89	0.72	0.54	0.36	0.98	0.92	0.75	0.56	0.38	1.01	0.95	0.77	0.58	1.02	0.96	0.78	0.58	0.38	0.18
		DT	24	23	20	16	25	24	20	16	12	25	24	21	16	12	25	24	21	17	13	24	23	20	16	23	22	19	15	15	15
		KW	2.11	2.15	2.22	2.29	2.27	2.31	2.39	2.46	2.54	2.40	2.45	2.53	2.61	2.69	2.52	2.58	2.66	2.75	2.83	2.63	2.68	2.77	2.86	2.72	2.78	2.86	2.96	3.06	3.16
		AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.6	9.1	9.4	9.7	10.0	10.4	9.8	10.0	10.4	10.7	11.0	10.4	10.7	11.0	11.4	11.0	11.3	11.7	12.1	12.6	13.1
		HIPR	143	154	163	169	160	173	182	190	198	183	196	207	216	225	208	224	236	246	255	234	252	266	277	258	278	294	306	319	332
		LO PR	61	65	71	75	64	68	75	79	83	67	71	78	83	87	70	75	81	87	91	73	78	85	91	76	81	88	94	99	104

1181	MBh	31.0	31.6	33.1	35.3	30.2	30.8	32.3	34.4	29.5	30.1	31.5	33.6	28.8	29.4	30.7	32.8	27.4	27.9	29.2	31.2	25.3	25.8	27.1	28.9
	S/T	1.00	0.98	0.88	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.82
	DT	24	24	23	20	24	24	23	20	23	23	23	20	22	23	23	20	21	22	23	20	20	20	21	18
	KW	2.19	2.24	2.31	2.38	2.36	2.41	2.48	2.56	2.50	2.56	2.64	2.72	2.63	2.69	2.77	2.86	2.74	2.80	2.89	2.98	2.83	2.89	2.99	3.09
	AMPS	8.1	8.3	8.6	8.9	8.8	9.0	9.3	9.7	9.6	9.8	10.1	10.5	10.2	10.5	10.8	11.3	10.9	11.2	11.6	12.0	11.6	11.9	12.3	12.7
	HIPR	150	162	171	178	169	182	192	200	192	207	218	227	219	235	248	259	246	265	279	291	272	292	309	322
	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
1050	MBh	30.1	30.6	32.1	34.2	29.4	29.9	31.3	33.4	28.7	29.2	30.6	32.6	28.0	28.5	29.9	31.8	26.6	27.1	28.4	30.3	24.6	25.1	26.3	28.0
	S/T	0.97	0.93	0.84	0.68	1.00	0.97	0.87	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
	DT	25	25	24	21	26	25	24	21	25	25	24	21	24	25	24	21	23	24	24	21	22	22	22	19
	KW	2.18	2.22	2.29	2.36	2.34	2.39	2.46	2.54	2.48	2.53	2.61	2.70	2.61	2.66	2.75	2.84	2.72	2.77	2.86	2.96	2.81	2.87	2.96	3.06
	AMPS	8.1	8.3	8.5	8.9	8.7	8.9	9.2	9.6	9.5	9.7	10.0	10.4	10.1	10.4	10.7	11.2	10.8	11.1	11.5	11.9	11.5	11.7	12.1	12.6
	HIPR	149	160	169	176	167	180	190	198	190	204	216	225	216	233	246	257	243	262	277	289	269	290	306	319
	LO PR	63	67	73	78	67	71	78	83	69	74	81	86	73	78	85	90	76	81	89	95	79	84	92	98
919	MBh	27.7	28.3	29.6	31.6	27.1	27.6	28.9	30.9	26.5	27.0	28.2	30.1	25.8	26.3	27.6	29.4	24.5	25.0	26.2	27.9	22.7	23.1	24.2	25.9
	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
	DT	26	25	24	21	26	26	24	21	26	26	24	21	26	26	25	21	25	25	24	21	23	23	23	20
	KW	2.13	2.17	2.24	2.31	2.28	2.33	2.40	2.48	2.42	2.47	2.55	2.63	2.55	2.60	2.68	2.77	2.65	2.71	2.79	2.88	2.74	2.80	2.89	2.98
	AMPS	7.8	8.0	8.3	8.6	8.5	8.7	9.0	9.3	9.2	9.5	9.8	10.1	9.9	10.1	10.4	10.8	10.5	10.8	11.1	11.6	11.1	11.4	11.8	12.3
	HIPR	144	155	164	171	162	174	184	192	184	198	209	218	210	226	239	249	236	254	268	280	261	281	297	309
	LO PR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92	77	82	89	95

Shaded area is AHRI Rating Conditions
High and low pressures are measured at the liquid and suction access fittings.

IDB: Entering Indoor Dry Bulb Temperature

COOLING PERFORMANCE DATA

GPH1336M21*

EXPANDED PERFORMANCE DATA

MODEL: GPH1336M21A

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					
70	1350	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	-	28.6	29.6	32.4	-				
		S/T	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-				
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-				
		KW	2.49	2.54	2.61	-	2.67	2.72	2.80	-	2.83	2.88	2.97	-	2.97	3.03	3.12	-	3.09	3.15	3.25	-	3.19	3.26	3.36	-	3.19	3.26	3.36	-				
	AMPS	10.8	11.0	11.3	-	11.6	11.8	12.1	-	12.4	12.7	13.1	-	13.2	13.5	13.9	-	13.9	14.3	14.7	-	14.7	15.0	15.5	-	14.7	15.0	15.5	-					
	HIPR	147	158	167	-	165	177	187	-	187	202	213	-	213	230	243	-	240	258	273	-	265	285	301	-	265	285	301	-					
	LOPR	64	68	74	-	67	71	78	-	70	74	81	-	73	78	85	-	77	82	89	-	79	85	92	-	79	85	92	-					
1200	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	-	27.7	28.7	31.5	-				
		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	0.69	0.48	-				
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	15	12	-	18	15	12	-				
		KW	2.47	2.52	2.59	-	2.65	2.70	2.78	-	2.80	2.86	2.95	-	2.94	3.01	3.10	-	3.06	3.13	3.23	-	3.16	3.23	3.33	-	3.16	3.23	3.33	-				
	AMPS	10.7	10.9	11.3	-	11.5	11.7	12.1	-	12.3	12.6	13.0	-	13.1	13.4	13.8	-	13.8	14.1	14.6	-	14.6	14.9	15.3	-	14.6	14.9	15.3	-					
	HIPR	145	156	165	-	163	176	185	-	186	200	211	-	211	227	240	-	238	256	270	-	263	283	298	-	263	283	298	-					
	LOPR	63	67	73	-	66	71	77	-	69	73	80	-	73	77	84	-	76	81	88	-	79	84	91	-	79	84	91	-					
1050	1050	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	-	25.6	26.5	29.1	-				
		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	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-	18	15	12	-				
		KW	2.41	2.46	2.53	-	2.59	2.64	2.72	-	2.74	2.79	2.88	-	2.87	2.93	3.03	-	2.99	3.05	3.15	-	3.09	3.15	3.25	-	3.09	3.15	3.25	-				
	AMPS	10.5	10.7	11.0	-	11.2	11.4	11.8	-	12.0	12.3	12.7	-	12.8	13.0	13.4	-	13.5	13.8	14.2	-	14.2	14.5	15.0	-	14.2	14.5	15.0	-					
	HIPR	141	152	160	-	158	170	180	-	180	194	204	-	205	221	233	-	231	248	262	-	255	274	289	-	255	274	289	-					
	LOPR	61	65	71	-	64	69	75	-	67	71	78	-	70	75	82	-	74	78	86	-	76	81	89	-	76	81	89	-					

75	1350	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	29.0	29.9	32.4	34.7	-
		S/T	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.67	0.43	0.98	0.88	0.67	0.43	-
		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	19	18	15	10	-
		KW	2.50	2.55	2.63	2.71	2.69	2.74	2.83	2.91	2.85	2.91	3.00	3.09	2.99	3.05	3.15	3.25	3.11	3.18	3.28	3.39	3.22	3.28	3.39	3.50	3.22	3.28	3.39	3.50	-
	1200	AMPS	10.9	11.1	11.4	11.8	11.7	11.9	12.2	12.7	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	16.2	14.8	15.1	15.6	16.2	-
		HIPR	148	160	169	176	166	179	189	197	189	204	215	224	216	232	245	256	243	261	276	287	268	288	305	318	268	288	305	318	-
		LOPR	64	68	75	79	68	72	79	84	70	75	82	87	74	79	86	92	78	83	90	96	80	85	93	99	80	85	93	99	-
75	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	28.2	29.0	31.4	33.7	-
		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	22	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	2.49	2.54	2.61	2.69	2.67	2.72	2.80	2.89	2.83	2.88	2.97	3.07	2.97	3.03	3.12	3.22	3.09	3.15	3.25	3.36	3.19	3.26	3.36	3.47	3.19	3.26	3.36	3.47	-
	1050	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	14.0	14.3	14.7	15.2	14.7	15.0	15.5	16.0	14.7	15.0	15.5	16.0	-
		HIPR	147	158	167	174	165	177	187	195	187	202	213	222	213	230	243	253	240	258	273	285	265	286	301	314	265	286	301	314	-
		LOPR	64	68	74	79	67	71	78	83	70	74	81	86	73	78	85	91	77	82	89	95	79	85	92	98	79	85	92	98	-
75	1050	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	26.0	26.8	29.0	31.1	-
		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	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	22	20	17	11	21	19	16	11	21	19	16	11	-
		KW	2.43	2.48	2.55	2.63	2.61	2.66	2.74	2.82	2.76	2.82	2.90	3.00	2.90	2.96	3.05	3.15	3.01	3.08	3.17	3.28	3.11	3.18	3.28	3.39	3.11	3.18	3.28	3.39	-
	1050	AMPS	10.6	10.8	11.1	11.4	11.3	11.5	11.9	12.2	12.1	12.4	12.8	13.2	12.9	13.1	13.5	14.0	13.6	13.9	14.3	14.8	14.3	14.6	15.1	15.6	14.3	14.6	15.1	15.6	-
		HIPR	142	153	162	169	160	172	182	189	182	196	207	215	207	223	235	245	233	251	265	276	257	277	292	305	257	277	292	305	-
		LOPR	62	66	72	76	65	69	76	81	68	72	79	84	71	76	83	88	75	79	87	92	77	82	90	95	77	82	90	95	-

Shaded area is ACCA (TVA) conditions
High and low pressures are measured at the liquid and suction access fittings.
IDB: Entering Indoor Dry Bulb Temperature

MODEL: GPH1336M21A

1350	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	0.98	0.95	0.86	0.70	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	0.98	0.79	1.00	1.00	0.98	0.80
	Delta T	25	24	23	20	24	25	23	20	24	24	23	20	23	24	23	20	22	23	23	23	20	21	22	19
	KW	2.54	2.59	2.67	2.75	2.73	2.78	2.87	2.96	2.89	2.95	3.05	3.14	3.04	3.10	3.20	3.30	3.16	3.23	3.33	3.44	3.27	3.34	3.45	3.56
	AMPS	11.1	11.3	11.6	12.0	11.8	12.1	12.4	12.9	12.7	13.0	13.4	13.9	13.5	13.8	14.2	14.7	14.3	14.6	15.1	15.6	15.1	15.4	15.9	16.4
	HI PR	151	163	172	179	170	183	193	201	193	208	219	229	220	237	250	261	247	266	281	293	273	294	311	324
LO PR	65	70	76	81	69	74	80	86	72	77	84	89	76	80	88	93	79	84	92	98	82	87	95	101	
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	0.94	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
	Delta T	26	25	24	21	26	26	24	21	26	26	24	21	25	26	24	21	24	25	24	21	22	23	22	19
	KW	2.52	2.57	2.65	2.73	2.71	2.76	2.85	2.94	2.87	2.93	3.02	3.12	3.01	3.08	3.18	3.28	3.14	3.20	3.31	3.41	3.24	3.31	3.42	3.53
	AMPS	11.0	11.2	11.5	11.9	11.8	12.0	12.3	12.8	12.6	12.9	13.3	13.7	13.4	13.7	14.1	14.6	14.2	14.5	14.9	15.5	14.9	15.3	15.7	16.3
	HI PR	150	161	170	178	168	181	191	199	191	206	217	227	218	234	247	258	245	264	278	290	271	291	308	321
LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	83	91	97	81	86	94	100	
1050	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	0.91	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	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.91	0.73
	Delta T	26	26	24	21	26	26	25	21	26	26	25	21	27	26	25	21	25	26	24	21	24	24	23	20
	KW	2.47	2.52	2.59	2.67	2.65	2.70	2.78	2.87	2.80	2.86	2.95	3.04	2.94	3.00	3.10	3.20	3.06	3.13	3.23	3.33	3.16	3.23	3.33	3.44
	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
	HI PR	145	156	165	172	163	175	185	193	185	200	211	220	211	227	240	250	238	256	270	282	263	283	298	311
LO PR	63	67	73	78	66	71	77	82	69	73	80	85	73	77	84	90	76	81	88	94	79	84	91	97	

Shaded area is AHRI Rating Conditions
High and low pressures are measured at the liquid and suction access fittings.
IDB: Entering Indoor Dry Bulb Temperature

COOLING PERFORMANCE DATA

GPH1348M21*

EXPANDED PERFORMANCE DATA

MODEL: GPH1348M21A

COOLING OPERATION

IDB*		Outdoor Ambient Temperature																																																																			
		65														75														85										95										105										115									
		Entering Indoor Wet Bulb Temperature														Entering Indoor Wet Bulb Temperature														Entering Indoor Wet Bulb Temperature										Entering Indoor Wet Bulb Temperature										Entering Indoor Wet Bulb Temperature										Entering Indoor Wet Bulb Temperature									
70	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	59	63	67	71																																				
	MBh	47.0	48.8	53.4	-	45.9	47.6	52.2	-	44.8	46.5	50.9	-	43.8	45.4	49.7	-	41.6	43.1	47.2	-	38.5	39.9	43.7	-	38.5	39.9	43.7	-	38.5	39.9	43.7	-																																				
	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	-	0.88	0.73	0.51	-	0.88	0.73	0.51	-																																				
	Delta T	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	16	14	10	-	16	14	10	-	16	14	10	-																																				
	KW	3.30	3.36	3.46	-	3.53	3.61	3.72	-	3.74	3.82	3.94	-	3.93	4.01	4.14	-	4.09	4.17	4.30	-	4.22	4.31	4.45	-	4.22	4.31	4.45	-	4.22	4.31	4.45	-																																				
	AMPS	16.3	16.6	17.0	-	17.3	17.6	18.0	-	18.4	18.8	19.3	-	19.4	19.8	20.3	-	20.4	20.8	21.4	-	21.4	21.9	22.5	-	21.4	21.9	22.5	-	21.4	21.9	22.5	-																																				
	HI PR	150	161	170	-	168	181	191	-	191	206	217	-	218	234	247	-	245	264	278	-	271	291	308	-	271	291	308	-	271	291	308	-																																				
1750	LO PR	64	68	75	-	68	72	79	-	71	75	82	-	74	79	86	-	78	83	90	-	80	86	93	-	80	86	93	-	80	86	93	-																																				
	MBh	45.7	47.3	51.9	-	44.6	46.2	50.7	-	43.5	45.1	49.4	-	42.5	44.0	48.2	-	40.4	41.8	45.8	-	37.4	38.7	42.5	-	37.4	38.7	42.5	-	37.4	38.7	42.5	-																																				
	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	-	0.84	0.70	0.48	-	0.84	0.70	0.48	-																																				
	Delta T	17	15	11	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	16	14	11	-	16	14	11	-	16	14	11	-																																				
	KW	3.27	3.34	3.44	-	3.51	3.58	3.69	-	3.72	3.79	3.91	-	3.90	3.98	4.10	-	4.05	4.14	4.27	-	4.19	4.28	4.41	-	4.19	4.28	4.41	-	4.19	4.28	4.41	-																																				
	AMPS	16.2	16.4	16.9	-	17.1	17.5	17.9	-	18.3	18.6	19.1	-	19.3	19.7	20.2	-	20.3	20.7	21.2	-	21.3	21.7	22.3	-	21.3	21.7	22.3	-	21.3	21.7	22.3	-																																				
	HI PR	148	160	169	-	166	179	189	-	189	204	215	-	216	232	245	-	243	261	276	-	268	288	305	-	268	288	305	-	268	288	305	-																																				
1531	LO PR	64	68	74	-	67	72	78	-	70	74	81	-	73	78	85	-	77	82	89	-	80	85	92	-	80	85	92	-	80	85	92	-																																				
	MBh	42.1	43.7	47.9	-	41.2	42.7	46.8	-	40.2	41.7	45.6	-	39.2	40.6	44.5	-	37.2	38.6	42.3	-	34.5	35.8	39.2	-	34.5	35.8	39.2	-	34.5	35.8	39.2	-																																				
	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	-	0.81	0.67	0.47	-	0.81	0.67	0.47	-																																				
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	15	12	-	17	14	11	-	17	14	11	-	17	14	11	-																																				
	KW	3.20	3.26	3.36	-	3.43	3.50	3.60	-	3.63	3.70	3.82	-	3.81	3.89	4.01	-	3.96	4.04	4.17	-	4.09	4.17	4.31	-	4.09	4.17	4.31	-	4.09	4.17	4.31	-																																				
	AMPS	15.8	16.1	16.5	-	16.8	17.1	17.5	-	17.9	18.2	18.7	-	18.9	19.2	19.7	-	19.8	20.2	20.8	-	20.8	21.2	21.8	-	20.8	21.2	21.8	-	20.8	21.2	21.8	-																																				
	HI PR	144	155	164	-	161	174	183	-	184	198	209	-	209	225	238	-	235	253	267	-	260	280	295	-	260	280	295	-	260	280	295	-																																				
	LO PR	62	66	72	-	65	69	76	-	68	72	79	-	71	76	83	-	75	79	87	-	77	82	90	-	77	82	90	-	77	82	90	-																																				

1531	MBh	47.8	49.2	53.3	57.2	46.7	48.1	52.1	55.9	45.6	47.0	50.8	54.6	44.5	45.8	49.6	53.2	42.3	43.5	47.1	50.6	39.2	40.3	43.6	46.8
	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	19	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	20	18	15	10	18	17	14	9
	KW	3.32	3.39	3.49	3.59	3.56	3.63	3.74	3.86	3.77	3.85	3.97	4.10	3.96	4.04	4.17	4.30	4.12	4.21	4.34	4.48	4.26	4.35	4.49	4.63
	AMPS	16.4	16.7	17.1	17.6	17.4	17.7	18.2	18.7	18.6	18.9	19.4	20.0	19.6	20.0	20.5	21.1	20.6	21.0	21.6	22.3	21.6	22.0	22.6	23.4
	HI PR	151	163	172	179	170	183	193	201	193	208	219	229	220	237	250	261	247	266	281	293	273	294	311	324
	LO PR	65	69	75	80	69	73	80	85	71	76	83	88	75	80	87	93	78	84	91	97	81	86	94	100
1750	MBh	46.4	47.8	51.8	55.5	45.4	46.7	50.6	54.3	44.3	45.6	49.3	53.0	43.2	44.5	48.1	51.7	41.0	42.3	45.7	49.1	38.0	39.1	42.4	45.5
	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	20	19	15	11	20	19	15	11	20	19	15	11	21	19	16	11	20	19	15	11	19	17	14	10
	KW	3.30	3.36	3.46	3.57	3.54	3.61	3.72	3.83	3.74	3.82	3.94	4.06	3.93	4.01	4.14	4.27	4.09	4.17	4.30	4.44	4.22	4.31	4.45	4.59
	AMPS	16.3	16.6	17.0	17.5	17.3	17.6	18.0	18.6	18.4	18.8	19.3	19.9	19.4	19.8	20.3	21.0	20.4	20.8	21.4	22.1	21.4	21.9	22.5	23.2
	HI PR	150	161	170	178	168	181	191	199	191	206	217	227	218	234	248	258	245	264	278	290	271	291	308	321
	LO PR	64	68	75	80	68	72	79	84	71	75	82	87	74	79	86	92	78	83	90	96	80	86	93	99
1531	MBh	42.9	44.1	47.8	51.3	41.9	43.1	46.7	50.1	40.9	42.1	45.5	48.9	39.9	41.1	44.4	47.7	37.9	39.0	42.2	45.3	35.1	36.1	39.1	42.0
	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	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	3.22	3.29	3.38	3.49	3.45	3.52	3.63	3.74	3.66	3.73	3.85	3.97	3.84	3.92	4.04	4.17	3.99	4.07	4.20	4.33	4.12	4.21	4.34	4.48
	AMPS	15.9	16.2	16.6	17.1	16.9	17.2	17.7	18.2	18.0	18.4	18.9	19.4	19.0	19.4	19.9	20.5	20.0	20.4	20.9	21.6	20.9	21.4	21.9	22.6
	HI PR	145	156	165	172	163	176	185	193	185	200	211	220	211	227	240	250	238	256	270	282	263	283	298	311
	LO PR	62	66	72	77	66	70	77	82	68	73	80	85	72	77	84	89	75	80	88	93	78	83	91	96

Shaded area is ACCA (TVA) conditions
IDB: Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPH1348M21A

1969	MBh	49.5	50.5	52.9	56.4	48.4	49.3	51.7	55.1	47.2	48.1	50.4	53.8	46.1	47.0	49.2	52.5	43.8	44.6	46.7	49.9	40.5	41.3	43.3	46.2
	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	23	23	21	19	23	23	22	19	22	22	22	19	22	22	22	19	20	21	22	19	19	19	20	17
	KW	3.37	3.44	3.54	3.65	3.62	3.69	3.80	3.92	3.83	3.91	4.03	4.16	4.02	4.11	4.24	4.37	4.19	4.27	4.41	4.55	4.32	4.42	4.56	4.71
	AMPS	16.6	16.9	17.3	17.8	17.6	18.0	18.4	19.0	18.8	19.2	19.7	20.3	19.9	20.3	20.8	21.5	20.9	21.3	21.9	22.6	21.9	22.4	23.0	23.7
	HI PR	154	166	175	183	173	186	197	205	197	212	224	234	224	242	255	266	252	272	287	299	279	300	317	331
LO PR	66	70	77	82	70	74	81	87	73	77	84	90	76	81	89	95	80	85	93	99	83	88	96	102	
1750	MBh	48.1	49.0	51.3	54.8	47.0	47.9	50.1	53.5	45.9	46.7	49.0	52.2	44.7	45.6	47.8	51.0	42.5	43.3	45.4	48.4	39.4	40.1	42.0	44.8
	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	24	24	22	19	24	24	23	20	24	24	23	20	24	24	23	20	22	23	22	19	21	21	21	18
	KW	3.35	3.41	3.52	3.62	3.59	3.66	3.77	3.89	3.80	3.88	4.00	4.13	3.99	4.08	4.20	4.34	4.15	4.24	4.37	4.52	4.29	4.38	4.52	4.67
	AMPS	16.5	16.8	17.2	17.7	17.5	17.8	18.3	18.8	18.7	19.1	19.6	20.2	19.7	20.1	20.7	21.3	20.7	21.2	21.7	22.4	21.8	22.2	22.8	23.5
	HI PR	153	165	174	181	172	185	195	203	195	210	222	231	222	239	253	263	250	269	284	296	276	297	314	327
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	
1531	MBh	44.4	45.2	47.4	50.6	43.4	44.2	46.3	49.4	42.3	43.1	45.2	48.2	41.3	42.1	44.1	47.0	39.2	40.0	41.9	44.7	36.3	37.0	38.8	41.4
	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	27	24	23	20	25	24	23	20	25	24	23	20	25	25	23	20	24	24	23	20	22	22	21	18
	KW	3.27	3.34	3.44	3.54	3.51	3.58	3.69	3.80	3.71	3.79	3.91	4.03	3.90	3.98	4.10	4.23	4.05	4.14	4.27	4.41	4.19	4.28	4.41	4.55
	AMPS	16.1	16.4	16.9	17.3	17.1	17.5	17.9	18.4	18.3	18.6	19.1	19.7	19.3	19.7	20.2	20.8	20.3	20.7	21.2	21.9	21.3	21.7	22.3	23.0
	HI PR	148	160	169	176	166	179	189	197	189	204	215	224	216	232	245	255	242	261	276	287	268	288	304	318
LO PR	64	68	74	79	67	72	78	83	70	74	81	86	73	78	85	91	77	82	89	95	80	85	92	98	

Shaded area is AHRI Rating Conditions
IDB: Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction access fittings.

COOLING PERFORMANCE DATA

GPH1360M21A*

EXPANDED PERFORMANCE DATA

MODEL: GPH1360M21A

COOLING OPERATION

IDB* Airflow			Outdoor Ambient Temperature																																			
			65						75						85						95						105						115					
			Entering				Indoor				Wet Bulb				Temperature				Entering				Indoor				Wet Bulb				Temperature							
70	2081	MBh	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								
		S/T	55.9	57.9	63.4	-	54.6	56.5	62.0	-	53.3	55.2	60.5	-	52.0	53.9	59.0	-	49.4	51.2	56.1	-	45.7	47.4	51.9	-	40.6	42.4	46.9	-								
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	14.5	12.5	9.5	-								
		KW	4.31	4.40	4.53	-	4.63	4.72	4.87	-	4.91	5.01	5.17	-	5.16	5.27	5.43	-	5.37	5.48	5.66	-	5.55	5.67	5.85	-	5.42	5.54	5.72	-								
		AMPS	18.3	18.7	19.2	-	19.6	20.0	20.6	-	21.1	21.5	22.2	-	22.3	22.8	23.5	-	23.6	24.1	24.9	-	24.9	25.4	26.2	-	24.8	25.3	26.1	-								
	1850	Hi P/R	156	168	177	-	175	188	199	-	199	214	226	-	226	244	257	-	255	274	290	-	281	303	320	-	279	299	317	-								
		LO P/R	62	66	72	-	66	70	76	-	68	73	79	-	72	76	83	-	75	80	87	-	78	83	90	-	77	82	89	-								
		MBh	54.2	56.2	61.6	-	53.0	54.9	60.1	-	51.7	53.6	58.7	-	50.4	52.3	57.3	-	47.9	49.7	54.4	-	44.4	46.0	50.4	-	40.6	42.4	46.9	-								
		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	-	0.79	0.66	0.46	-								
		DT	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-	14.5	12.5	9.5	-								
1619	KW	4.28	4.37	4.50	-	4.59	4.69	4.83	-	4.87	4.97	5.13	-	5.12	5.23	5.39	-	5.32	5.44	5.61	-	5.50	5.62	5.81	-	5.42	5.54	5.72	-									
	AMPS	18.2	18.6	19.1	-	19.5	19.9	20.4	-	20.9	21.4	22.0	-	22.2	22.6	23.3	-	23.4	23.9	24.6	-	24.7	25.2	26.0	-	24.8	25.3	26.1	-									
	Hi P/R	154	166	175	-	173	186	197	-	197	212	224	-	224	241	255	-	252	271	287	-	279	300	317	-	279	299	317	-									
	LO P/R	61	65	71	-	65	69	75	-	67	72	78	-	71	75	82	-	74	79	86	-	77	82	89	-	77	82	89	-									
	MBh	50.1	51.9	56.8	-	48.9	50.7	55.5	-	47.7	49.5	54.2	-	46.6	48.3	52.9	-	44.2	45.8	50.2	-	41.0	42.5	46.5	-	40.6	42.4	46.9	-									
1619	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	-	0.79	0.66	0.46	-									
	DT	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	16	12	-	14.5	12.5	9.5	-									
	KW	4.18	4.27	4.39	-	4.49	4.58	4.72	-	4.76	4.86	5.01	-	4.99	5.10	5.26	-	5.20	5.31	5.48	-	5.37	5.49	5.66	-	5.42	5.54	5.72	-									
	AMPS	17.8	18.1	18.6	-	19.0	19.4	19.9	-	20.4	20.8	21.4	-	21.6	22.1	22.7	-	22.8	23.3	24.0	-	24.0	24.6	25.3	-	24.8	25.3	26.1	-									
	Hi P/R	150	161	170	-	168	181	191	-	191	206	217	-	217	234	247	-	245	263	278	-	270	291	307	-	279	299	317	-									
1619	LO P/R	60	63	69	-	63	67	73	-	65	70	76	-	69	73	80	-	72	77	84	-	75	79	87	-	75	79	87	-									

EXPANDED PERFORMANCE DATA

MODEL: GPH1360M21A

COOLING OPERATION

		Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
IDB*	Airflow	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75					
		Entering Indoor Wet Bulb Temperature																													
	2081	MBh	57.8	59.1	63.1	67.5	56.5	57.7	61.6	65.9	55.1	56.3	60.2	64.3	53.8	55.0	58.7	62.8	51.1	52.2	55.8	59.6	47.3	48.4	51.7	55.2					
		S/T	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.94	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.62					
		DT	24	23	20	16	25	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	19	15					
		KW	4.38	4.47	4.60	4.75	4.70	4.80	4.95	5.11	4.99	5.09	5.25	5.42	5.24	5.35	5.52	5.70	5.46	5.57	5.75	5.94	5.64	5.76	5.95	6.15					
		AMPS	18.6	19.0	19.5	20.2	19.9	20.3	20.9	21.6	21.4	21.9	22.5	23.3	22.7	23.2	23.9	24.7	24.0	24.5	25.3	26.1	25.3	25.8	26.6	27.6					
		HIPR	159	171	181	188	178	192	203	211	203	218	231	240	231	249	263	274	260	280	295	308	287	309	326	340					
		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					
80		MBh	56.1	57.4	61.3	65.5	54.8	56.0	59.9	64.0	53.5	54.7	58.4	62.5	52.2	53.4	57.0	60.9	49.6	50.7	54.2	57.9	45.9	46.9	50.2	53.6					
		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					
		DT	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	23	20	16					
		KW	4.34	4.43	4.57	4.71	4.67	4.76	4.91	5.07	4.95	5.05	5.21	5.38	5.20	5.31	5.48	5.66	5.41	5.53	5.71	5.89	5.60	5.72	5.90	6.10					
		AMPS	18.5	18.9	19.4	20.0	19.8	20.2	20.8	21.4	21.2	21.7	22.3	23.1	22.5	23.0	23.7	24.5	23.8	24.3	25.1	25.9	25.1	25.6	26.4	27.3					
		HIPR	157	169	179	187	177	190	201	209	201	216	228	238	229	246	260	271	257	277	293	305	284	306	323	337					
		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					
		MBh	51.8	52.9	56.6	60.5	50.6	51.7	55.2	59.1	49.4	50.5	53.9	57.6	48.2	49.2	52.6	56.2	45.8	46.8	50.0	53.4	42.4	43.3	46.3	49.5					
1619		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					
		DT	25	24	21	17	26	25	21	17	26	25	21	17	26	25	22	17	26	25	21	17	24	23	20	16					
		KW	4.25	4.33	4.46	4.60	4.56	4.65	4.79	4.94	4.83	4.93	5.09	5.25	5.07	5.18	5.35	5.52	5.28	5.39	5.57	5.75	5.46	5.58	5.76	5.95					
		AMPS	18.1	18.4	18.9	19.5	19.3	19.7	20.3	20.9	20.7	21.2	21.8	22.5	22.0	22.5	23.1	23.9	23.2	23.7	24.4	25.3	24.5	25.0	25.7	26.6					
		HIPR	153	164	174	181	171	184	195	203	195	210	221	231	222	239	252	263	250	269	284	296	276	297	313	327					
		LO PR	61	65	71	75	64	68	75	79	67	71	78	83	70	75	81	87	74	78	85	91	76	81	88	94					

85	2081	MBh	58.8	60.0	62.8	67.0	57.5	58.6	61.3	65.4	56.1	57.2	59.9	63.9	54.7	55.8	58.4	62.3	52.0	53.0	55.5	59.2
		S/T	0.98	0.95	0.86	0.70	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	0.98	0.79
		DT	26	25	24	21	25	25	24	21	25	25	24	21	24	25	24	21	23	23	24	21
		KW	4.41	4.50	4.64	4.78	4.74	4.84	4.99	5.15	5.03	5.13	5.30	5.47	5.28	5.40	5.57	5.75	5.50	5.62	5.80	5.99
		AMPS	18.8	19.2	19.7	20.3	20.1	20.5	21.1	21.8	21.6	22.1	22.7	23.5	22.9	23.4	24.1	24.9	24.2	24.7	25.5	26.4
		HIPR	161	173	182	190	180	194	205	214	205	221	233	243	233	251	265	277	263	283	298	311
		LO PR	64	68	74	79	68	72	78	84	70	75	82	87	74	78	86	91	77	82	90	96
		LO PR	57.1	58.2	61.0	65.0	55.8	56.9	59.6	63.5	54.5	55.5	58.1	62.0	53.1	54.2	56.7	60.5	50.5	51.4	53.9	57.5
1850		MBh	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
		S/T	27	26	25	21	27	27	25	22	27	27	25	22	26	27	25	22	25	26	25	22
		DT	4.38	4.47	4.60	4.75	4.70	4.80	4.95	5.11	4.99	5.09	5.25	5.42	5.24	5.35	5.52	5.70	5.46	5.57	5.75	5.94
		KW	18.6	19.0	19.5	20.2	19.9	20.3	20.9	21.6	21.4	21.9	22.5	23.3	22.7	23.2	23.9	24.7	24.0	24.5	25.3	26.1
		AMPS	159	171	181	188	178	192	203	211	203	218	231	240	231	249	263	274	260	280	295	308
		HIPR	63	67	74	78	67	71	78	83	70	74	81	86	73	78	85	90	77	81	89	95
		LO PR	52.7	53.7	56.3	60.0	51.5	52.5	55.0	58.6	50.3	51.2	53.7	57.2	49.0	50.0	52.3	55.8	46.6	47.5	49.7	53.1
		LO PR	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	0.86	0.70	1.00	0.99	0.90	0.73
1619		MBh	27	27	25	22	27	27	26	22	27	27	26	22	28	27	26	22	26	27	25	22
		S/T	4.28	4.36	4.50	4.63	4.59	4.69	4.83	4.98	4.87	4.97	5.13	5.29	5.12	5.22	5.39	5.56	5.32	5.44	5.61	5.80
		DT	18.2	18.6	19.1	19.7	19.4	19.9	20.4	21.1	20.9	21.3	22.0	22.7	22.2	22.6	23.3	24.1	23.4	23.9	24.6	25.5
		KW	154	166	175	183	173	186	197	205	197	212	224	233	224	241	255	266	252	271	287	299
		AMPS	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92
		HIPR	61	65	71	76	65	69	75	80	67	72	78	83	71	75	82	88	74	79	86	92
		LO PR	52.7	53.7	56.3	60.0	51.5	52.5	55.0	58.6	50.3	51.2	53.7	57.2	49.0	50.0	52.3	55.8	46.6	47.5	49.7	53.1
		LO PR	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	0.86	0.70	1.00	0.99	0.90	0.73

Shaded area is AHRI Rating Conditions
High and low pressures are measured at the liquid and suction access fittings.

IDB: 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 (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 **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.

PACKAGE HEAT PUMP SPECIFICATIONS GPH13[24-36]H21*

EXPANDED PERFORMANCE DATA

MODEL: GPH1324H21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	30.2	28.6	26.9	25.1	24.0	23.3	21.6	19.9	16.9	15.6	14.4	13.6	13.1	11.8	10.4	9.1	7.8	6.4
DELTA T	32.9	31.1	29.3	27.4	26.1	25.3	23.5	21.7	18.5	17.0	15.7	14.8	14.3	12.8	11.3	9.9	8.4	6.9
KW	2.23	2.18	2.14	2.10	2.07	2.05	2.01	1.96	2.02	1.97	1.93	1.90	1.88	1.83	1.79	1.74	1.69	1.65
AMPS	11.1	10.4	9.8	9.3	9.0	8.9	8.4	8.0	7.8	7.5	7.2	7.0	6.9	6.7	6.3	6.0	5.6	5.2
COP	3.96	3.83	3.68	3.51	3.39	3.32	3.15	2.97	2.45	2.32	2.19	2.09	2.04	1.87	1.70	1.53	1.34	1.13
EER	13.5	13.1	12.6	12.0	11.6	11.3	10.8	10.1	8.4	7.9	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.9
HI PR	238	228	220	210	205	201	193	186	178	170	163	159	156	150	145	139	134	129
LO PR	78	73	68	62	59	57	52	46	42	37	33	31	30	25	22	18	16	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: GPH1330H21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	34.4	32.6	30.7	28.7	27.4	26.6	24.7	22.7	19.7	18.2	16.7	15.8	15.2	13.7	12.1	10.6	9.0	7.4
DELTA T	30.4	28.8	27.1	25.3	24.2	23.4	21.7	20.1	17.4	16.0	14.8	13.9	13.4	12.0	10.7	9.3	7.9	6.5
KW	2.70	2.65	2.59	2.54	2.51	2.49	2.44	2.38	2.34	2.28	2.23	2.20	2.18	2.12	2.07	2.02	1.97	1.91
AMPS	13.1	12.2	11.5	10.9	10.6	10.4	9.9	9.5	9.2	8.8	8.5	8.3	8.2	7.9	7.5	7.1	6.7	6.2
COP	3.73	3.60	3.46	3.30	3.19	3.12	2.96	2.79	2.46	2.33	2.19	2.10	2.04	1.88	1.71	1.53	1.34	1.13
EER	12.7	12.3	11.8	11.3	10.9	10.7	10.1	9.5	8.4	8.0	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.9
HI PR	244	234	225	215	210	206	198	190	182	174	167	163	160	154	148	142	137	132
LO PR	80	74	69	63	60	58	53	47	43	38	33	31	30	25	22	18	16	13

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: GPH1336H21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	42.2	40.0	37.6	35.2	33.6	32.6	30.2	27.9	22.4	20.7	19.1	18.0	17.3	15.6	13.8	12.0	10.3	8.4
DELTA T	31.3	29.6	27.9	26.1	24.9	24.1	22.4	20.7	16.6	15.3	14.1	13.3	12.8	11.5	10.2	8.9	7.6	6.2
KW	3.12	3.06	3.00	2.93	2.90	2.87	2.82	2.76	2.66	2.60	2.54	2.51	2.49	2.43	2.37	2.31	2.25	2.19
AMPS	12.2	11.4	10.8	10.3	10.0	9.8	9.4	9.0	8.7	8.4	8.1	8.0	7.9	7.6	7.2	6.9	6.5	6.1
COP	3.97	3.83	3.68	3.51	3.39	3.31	3.14	2.96	2.47	2.33	2.19	2.10	2.04	1.88	1.70	1.52	1.33	1.12
EER	13.6	13.1	12.6	12.0	11.6	11.3	10.7	10.1	8.4	8.0	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.8
HI PR	238	228	220	210	205	201	193	186	178	170	163	159	156	150	145	139	134	129
LO PR	81	75	70	65	61	59	54	48	43	39	34	32	31	26	22	19	16	13

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

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.

PACKAGE HEAT PUMP SPECIFICATIONS GPH13[42-60]H21*

EXPANDED PERFORMANCE DATA

MODEL: GPH1342H21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	47.8	45.2	42.6	39.8	38.0	36.8	34.2	31.5	27.2	25.1	23.1	21.8	21.0	18.8	16.7	14.6	12.4	10.2
DELTA T	30.5	28.9	27.2	25.4	24.3	23.5	21.8	20.1	17.3	16.0	14.7	13.9	13.4	12.0	10.7	9.3	7.9	6.5
KW	3.32	3.26	3.20	3.14	3.10	3.07	3.01	2.95	2.94	2.88	2.82	2.78	2.76	2.69	2.63	2.57	2.50	2.44
AMPS	12.9	12.1	11.5	10.9	10.6	10.4	10.0	9.6	9.3	9.0	8.6	8.5	8.4	8.1	7.7	7.4	7.0	6.5
COP	4.21	4.06	3.89	3.71	3.59	3.51	3.32	3.13	2.70	2.55	2.40	2.29	2.23	2.05	1.86	1.66	1.45	1.22
EER	14.4	13.9	13.3	12.7	12.3	12.0	11.3	10.7	9.2	8.7	8.2	7.8	7.6	7.0	6.4	5.7	5.0	4.2
HI PR	232	223	214	205	200	196	189	181	173	166	159	155	152	147	141	135	130	126
LO PR	80	74	69	63	60	58	53	47	43	38	33	31	30	25	22	18	16	13

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: GPH1348H21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	56.6	53.6	50.4	47.1	45.0	43.6	40.5	37.4	28.9	26.7	24.6	23.2	22.3	20.0	17.8	15.5	13.2	10.8
DELTA T	31.7	30.1	28.3	26.4	25.3	24.5	22.7	21.0	16.2	15.0	13.8	13.0	12.5	11.2	10.0	8.7	7.4	6.1
KW	4.27	4.19	4.12	4.04	4.00	3.97	3.90	3.82	3.58	3.51	3.44	3.40	3.37	3.30	3.23	3.16	3.09	3.02
AMPS	21.4	20.0	18.8	17.9	17.3	17.0	16.2	15.5	14.9	14.4	13.8	13.5	13.4	12.8	12.1	11.5	10.9	10.0
COP	3.88	3.74	3.58	3.41	3.29	3.22	3.04	2.86	2.36	2.22	2.09	2.00	1.94	1.78	1.61	1.43	1.25	1.05
EER	13.2	12.8	12.2	11.7	11.3	11.0	10.4	9.8	8.1	7.6	7.1	6.8	6.6	6.1	5.5	4.9	4.3	3.6
HI PR	244	234	225	215	210	206	198	190	182	174	167	163	160	154	148	142	137	132
LO PR	77	71	67	61	58	56	51	46	41	37	32	30	29	25	21	18	16	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: GPH1360H21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	68.4	64.7	60.9	57.0	54.4	52.7	49.0	45.2	36.6	33.8	31.1	29.4	28.3	25.4	22.5	19.6	16.8	13.7
DELTA T	33.3	31.5	29.7	27.8	26.5	25.7	23.9	22.0	17.9	16.5	15.2	14.3	13.8	12.4	11.0	9.6	8.2	6.7
KW	5.04	4.94	4.84	4.75	4.69	4.65	4.55	4.46	4.35	4.25	4.16	4.10	4.06	3.96	3.87	3.77	3.67	3.58
AMPS	22.1	20.7	19.5	18.6	18.0	17.7	16.9	16.2	15.6	15.1	14.5	14.2	14.1	13.5	12.8	12.2	11.6	10.7
COP	3.97	3.83	3.68	3.51	3.39	3.32	3.15	2.97	2.46	2.33	2.19	2.10	2.04	1.88	1.70	1.52	1.33	1.12
EER	13.6	13.1	12.6	12.0	11.6	11.3	10.8	10.1	8.4	8.0	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.8
HI PR	238	228	220	210	205	201	193	186	178	170	163	159	156	150	145	139	134	129
LO PR	74	69	65	59	56	54	50	44	40	36	31	29	28	24	20	17	15	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

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.

PACKAGE HEAT PUMP SPECIFICATIONS GPH13[24-36]M21A*

EXPANDED PERFORMANCE DATA

MODEL: GPH1324M21A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	27.7	26.2	24.6	23.0	22.0	21.3	19.8	18.3	15.5	14.3	13.1	12.4	11.9	10.7	9.5	8.3	7.1	5.8
Delta T	28.5	26.9	25.3	23.7	22.6	21.9	20.4	18.8	15.9	14.7	13.5	12.8	12.3	11.0	9.8	8.5	7.3	6.0
KW	2.01	1.98	1.94	1.91	1.89	1.88	1.84	1.81	1.82	1.79	1.75	1.73	1.72	1.68	1.64	1.61	1.57	1.54
AMPS	10.3	9.6	9.0	8.6	8.3	8.2	7.8	7.4	7.1	6.9	6.6	6.5	6.4	6.1	5.8	5.5	5.2	4.8
COP	4.02	3.87	3.71	3.53	3.41	3.33	3.15	2.96	2.48	2.34	2.19	2.10	2.04	1.87	1.69	1.51	1.32	1.10
EER	13.7	13.2	12.7	12.1	11.6	11.4	10.7	10.1	8.5	8.0	7.5	7.2	7.0	6.4	5.8	5.1	4.5	3.8
HI PR	232	223	214	205	200	196	189	181	173	166	159	155	152	147	141	135	130	126
LO PR	78	73	68	62	59	57	52	46	42	37	33	31	30	25	22	18	16	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: GPH1330M21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	36.7	34.7	32.7	30.6	29.2	28.3	26.3	24.2	19.9	18.4	16.9	16.0	15.4	13.8	12.3	10.7	9.1	7.5
Delta T	32.4	30.6	28.8	27.0	25.7	25.0	23.2	21.4	17.6	16.2	14.9	14.1	13.6	12.2	10.8	9.4	8.0	6.6
KW	2.87	2.81	2.76	2.70	2.67	2.65	2.59	2.54	2.37	2.31	2.26	2.23	2.21	2.16	2.10	2.05	2.00	1.95
AMPS	13.0	12.0	11.2	10.6	10.2	10.0	9.4	8.9	8.5	8.1	7.7	7.5	7.4	7.1	6.6	6.2	5.7	5.1
COP	3.74	3.61	3.47	3.31	3.20	3.13	2.97	2.80	2.47	2.33	2.19	2.10	2.04	1.88	1.70	1.52	1.33	1.12
EER	12.8	12.3	11.9	11.3	10.9	10.7	10.1	9.6	8.4	8.0	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.8
HI PR	260	250	240	229	224	220	211	203	194	186	178	174	171	164	158	151	146	141
LO PR	79	73	68	63	59	57	52	47	42	38	33	31	30	25	22	18	16	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: GPH1336M21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	43.0	40.7	38.3	35.8	34.2	33.1	30.8	28.4	23.2	21.4	19.7	18.6	17.9	16.1	14.2	12.4	10.6	8.7
Delta T	33.2	31.4	29.6	27.6	26.4	25.6	23.8	21.9	17.9	16.5	15.2	14.4	13.8	12.4	11.0	9.6	8.2	6.7
KW	3.16	3.10	3.04	2.98	2.95	2.92	2.86	2.80	2.75	2.69	2.63	2.60	2.57	2.51	2.45	2.39	2.33	2.27
AMPS	15.9	14.8	14.0	13.2	12.8	12.6	11.9	11.4	11.0	10.6	10.1	9.9	9.8	9.4	8.8	8.4	7.9	7.2
COP	3.98	3.84	3.69	3.52	3.40	3.32	3.15	2.97	2.47	2.33	2.19	2.10	2.04	1.87	1.70	1.52	1.33	1.12
EER	13.6	13.1	12.6	12.0	11.6	11.4	10.8	10.1	8.4	8.0	7.5	7.2	7.0	6.4	5.8	5.2	4.5	3.8
HI PR	244	234	225	215	210	206	198	190	182	174	167	163	160	154	148	142	137	132
LO PR	77	71	67	61	58	56	51	46	41	37	32	30	29	25	21	18	16	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

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.

PACKAGE HEAT PUMP SPECIFICATIONS GPH13[48-60]M21A*

EXPANDED PERFORMANCE DATA

MODEL: GPH1348M21*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	56.6	53.6	50.4	47.1	45.0	43.6	40.5	37.4	31.2	28.8	26.5	25.0	24.1	21.6	19.2	16.7	14.3	11.7
Delta T	29.9	28.3	26.7	24.9	23.8	23.1	21.4	19.8	16.5	15.2	14.0	13.2	12.7	11.4	10.1	8.8	7.5	6.2
KW	4.04	3.97	3.89	3.81	3.77	3.74	3.66	3.59	3.53	3.45	3.37	3.33	3.30	3.22	3.15	3.07	3.00	2.92
AMPS	21.7	20.4	19.3	18.4	17.9	17.6	16.9	16.2	15.7	15.1	14.6	14.3	14.2	13.7	13.0	12.5	11.8	11.0
COP	4.10	3.95	3.79	3.62	3.49	3.41	3.23	3.05	2.59	2.44	2.30	2.20	2.13	1.96	1.78	1.59	1.39	1.17
EER	14.0	13.5	13.0	12.4	11.9	11.7	11.1	10.4	8.8	8.3	7.8	7.5	7.3	6.7	6.1	5.4	4.8	4.0
HI PR	232	223	214	205	200	196	189	181	173	166	159	155	152	147	141	135	130	126
LO PR	76	70	66	60	57	55	50	45	41	36	32	30	29	24	21	18	15	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: GPH1360M21A*

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	69.1	65.5	61.6	57.6	55.0	53.3	49.5	45.7	38.4	35.4	32.6	30.8	29.7	26.6	23.6	20.6	17.6	14.4
Delta T	34.6	32.8	30.8	28.8	27.5	26.7	24.8	22.8	19.2	17.7	16.3	15.4	14.8	13.3	11.8	10.3	8.8	7.2
KW	5.09	4.99	4.89	4.80	4.74	4.70	4.61	4.51	4.56	4.46	4.36	4.30	4.26	4.16	4.06	3.96	3.86	3.76
AMPS	26.3	24.5	23.1	21.9	21.2	20.8	19.8	18.9	18.2	17.5	16.8	16.5	16.3	15.6	14.7	14.0	13.1	12.1
COP	3.98	3.84	3.69	3.51	3.40	3.32	3.14	2.96	2.46	2.33	2.19	2.10	2.04	1.87	1.70	1.52	1.33	1.12
EER	13.6	13.1	12.6	12.0	11.6	11.3	10.7	10.1	8.4	7.9	7.5	7.2	7.0	6.4	5.8	5.2	4.5	3.8
HI PR	244	234	225	215	210	206	198	190	182	174	167	163	160	154	148	142	137	132
LO PR	73	68	63	58	55	53	49	43	39	35	31	29	28	23	20	17	15	12

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

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.
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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.

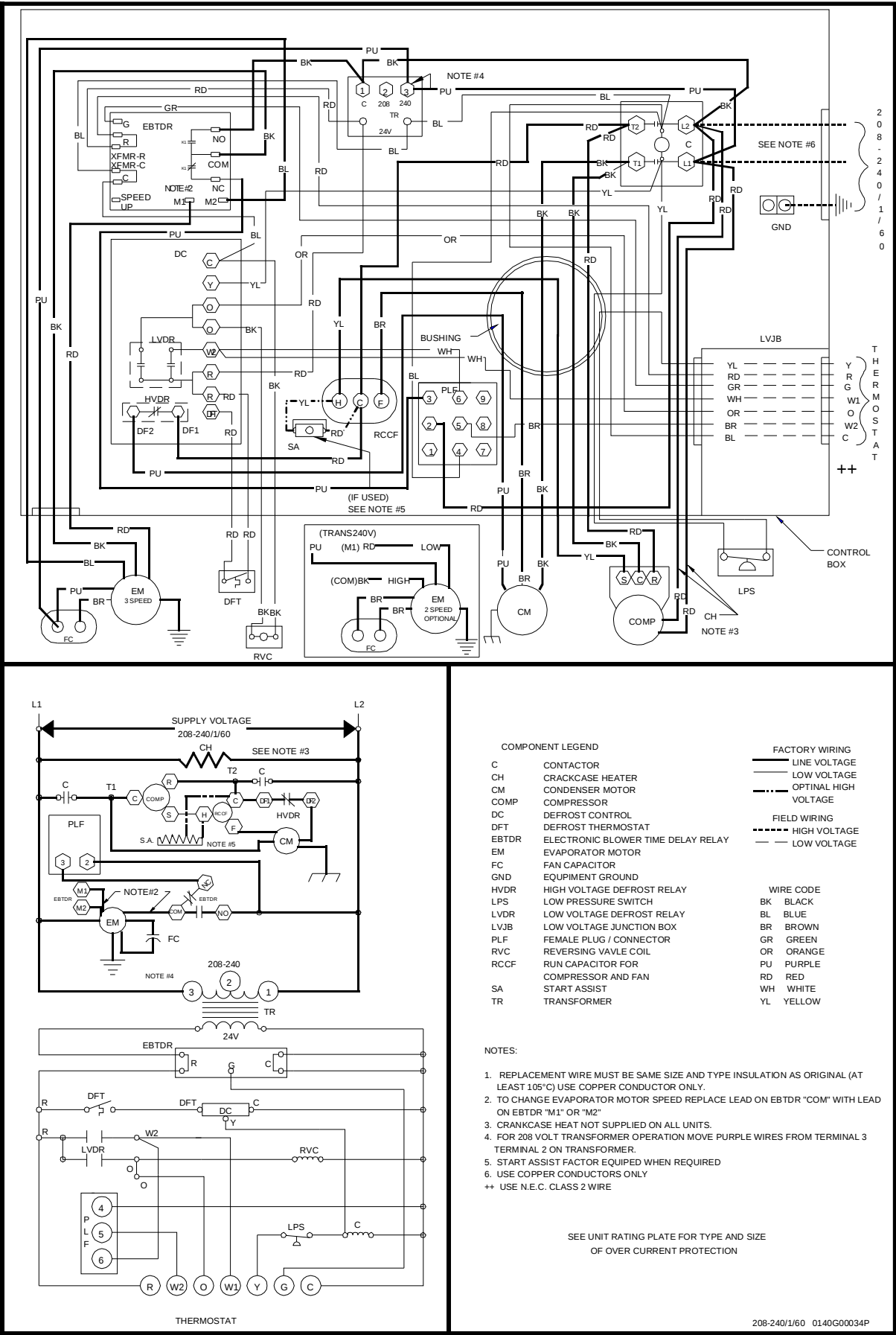
A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

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



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.

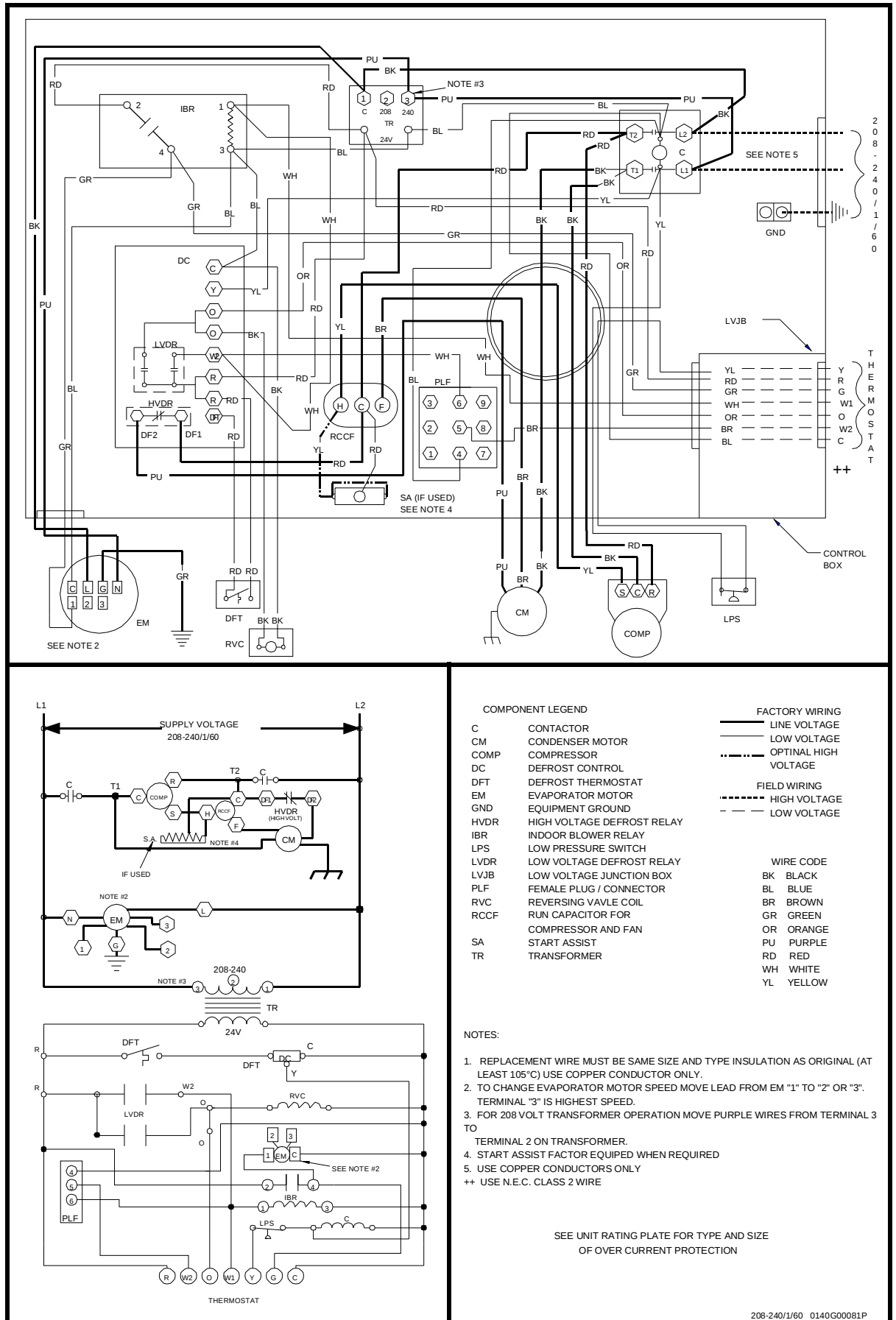
WARNING



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

WIRING DIAGRAMS

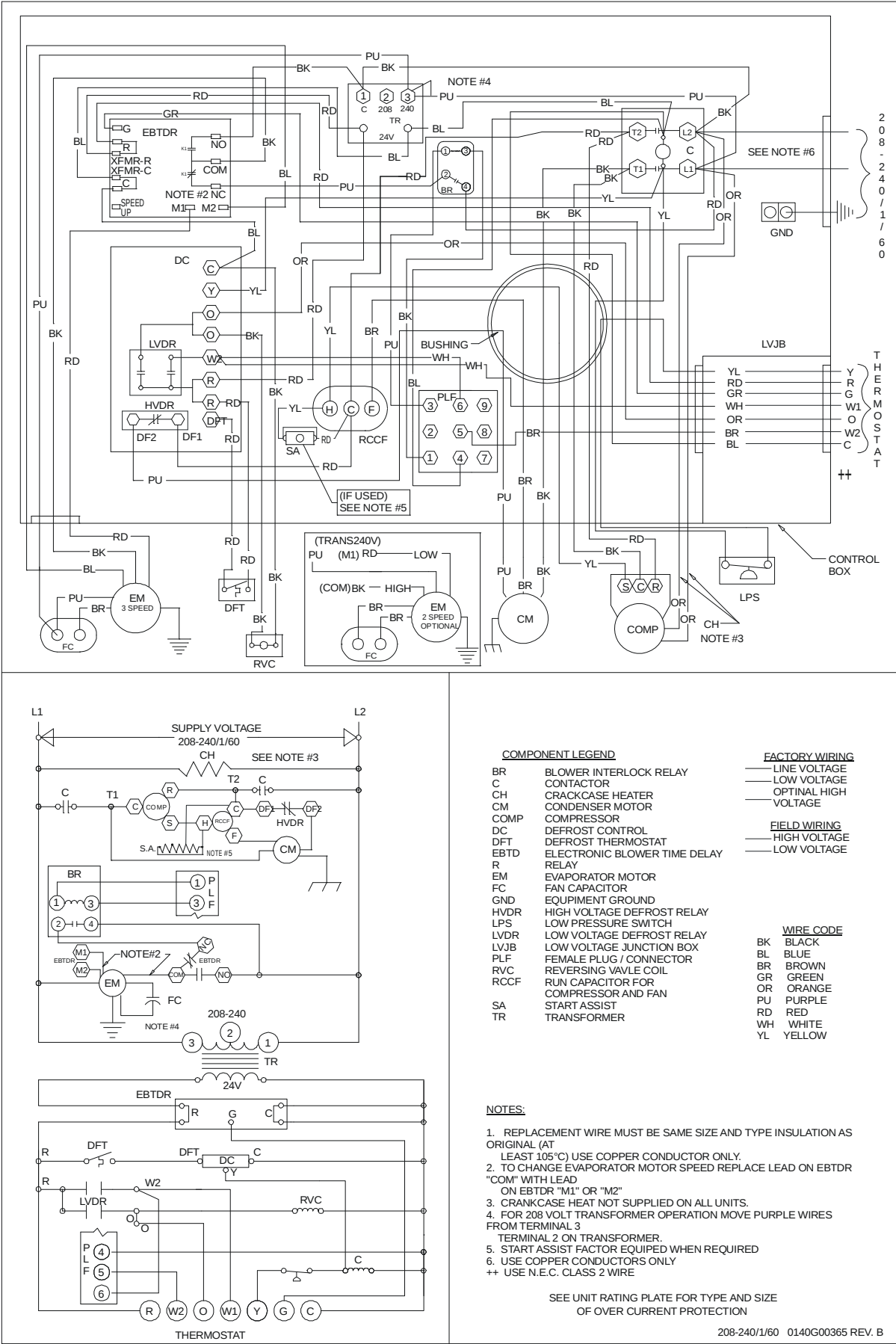
GPH1360H21*A*A



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

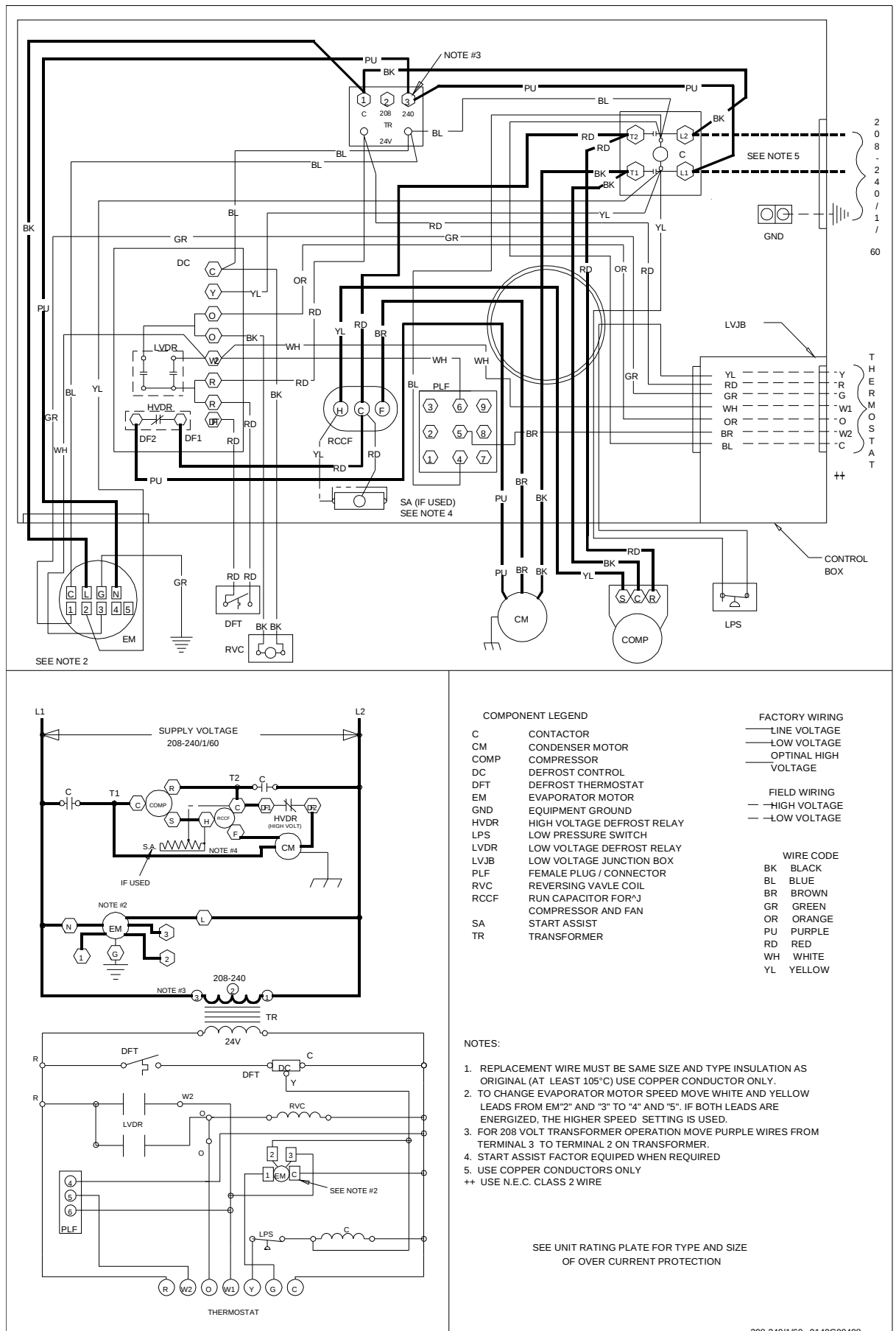
WARNING

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

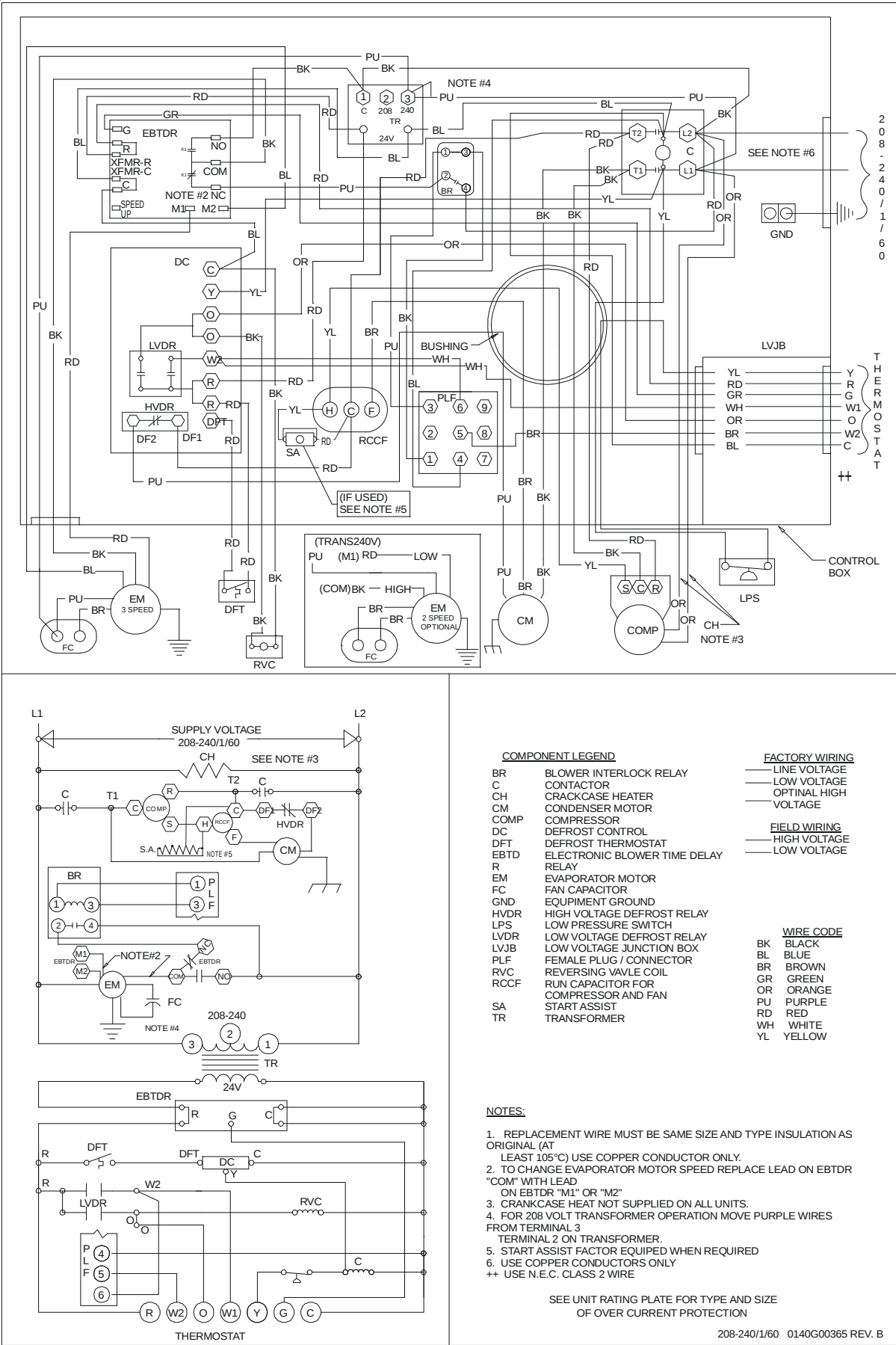
GPH1360H21AB-AD



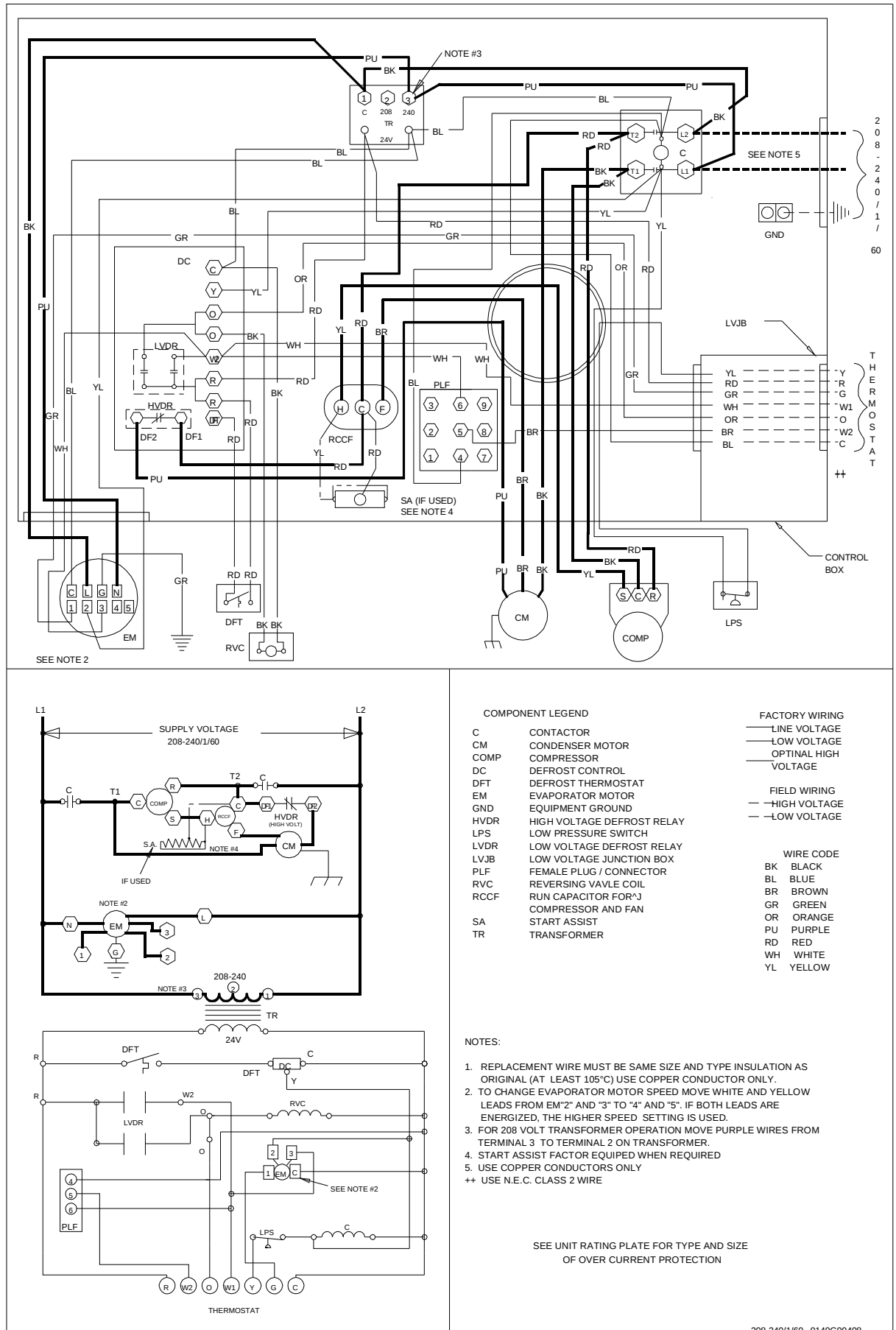
51

HIGH VOLTAGE!
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WARNING



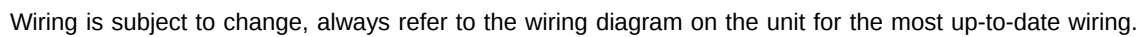
Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.



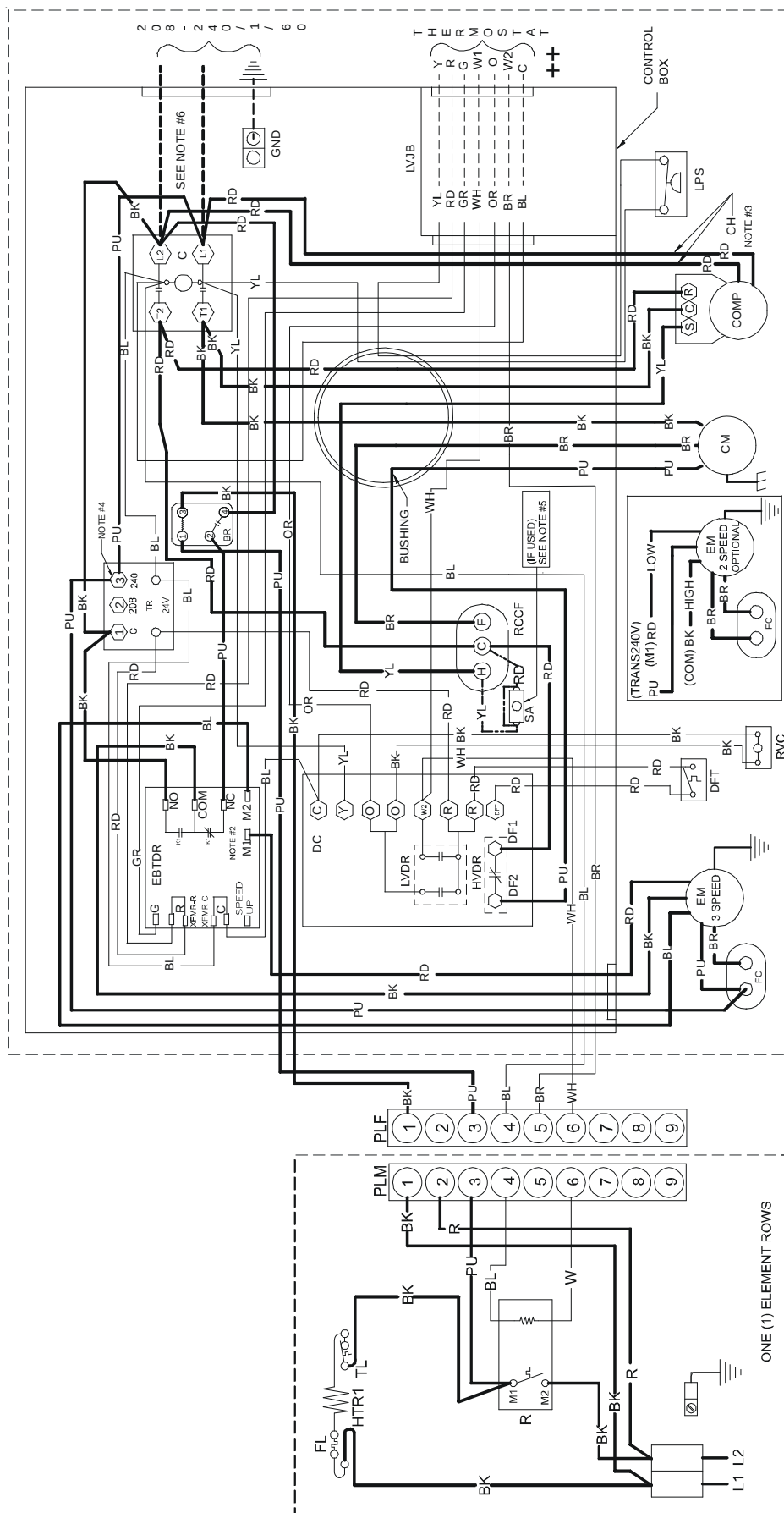
Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

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.

54



GPH1324-48H21AB/AC/AD with HKR-05



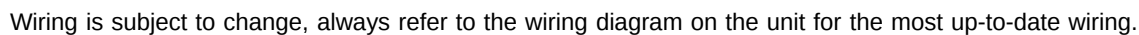
55

WARNING

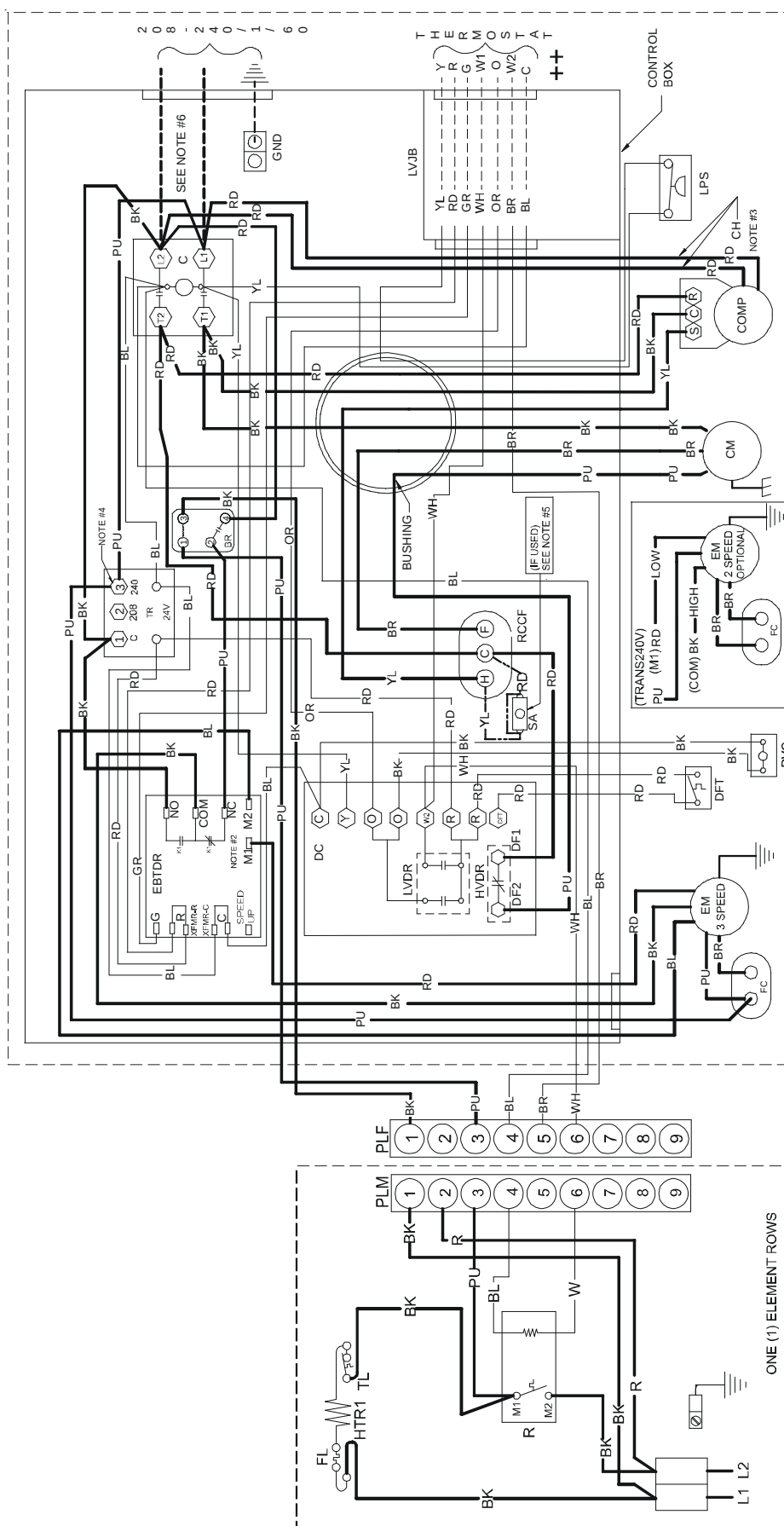
HIGH VOLTAGE!

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.

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GPH1324-36M21* with HKR-05



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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.

[illegible]

58

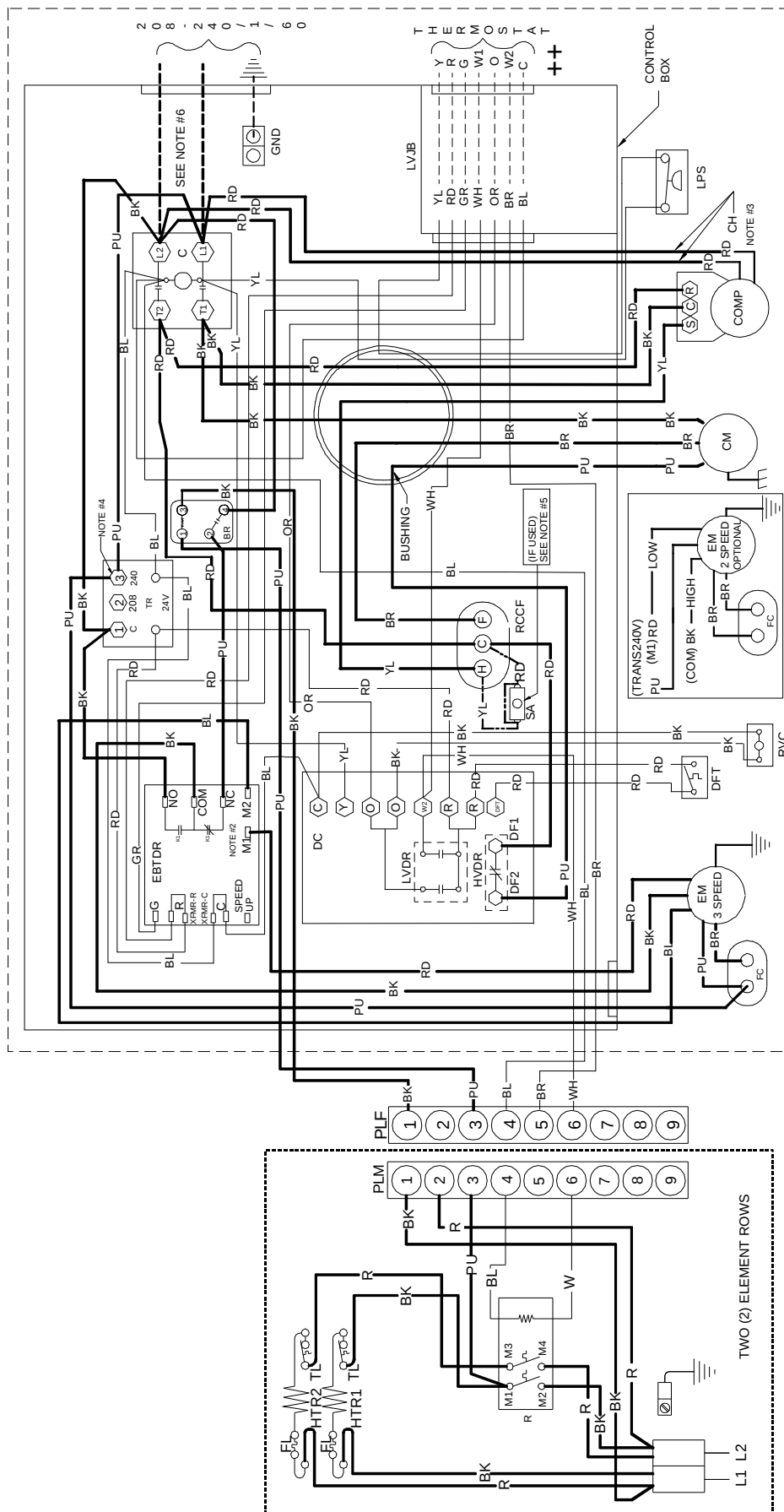
WARNING

HIGH VOLTAGE!

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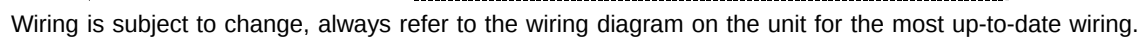
59

GPH1324-48H21AB/AC/AD with HKR-10



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

GPH1360H21AB-AD with HKR-10

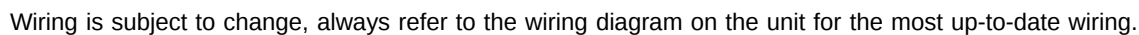


WARNING

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.

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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.

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

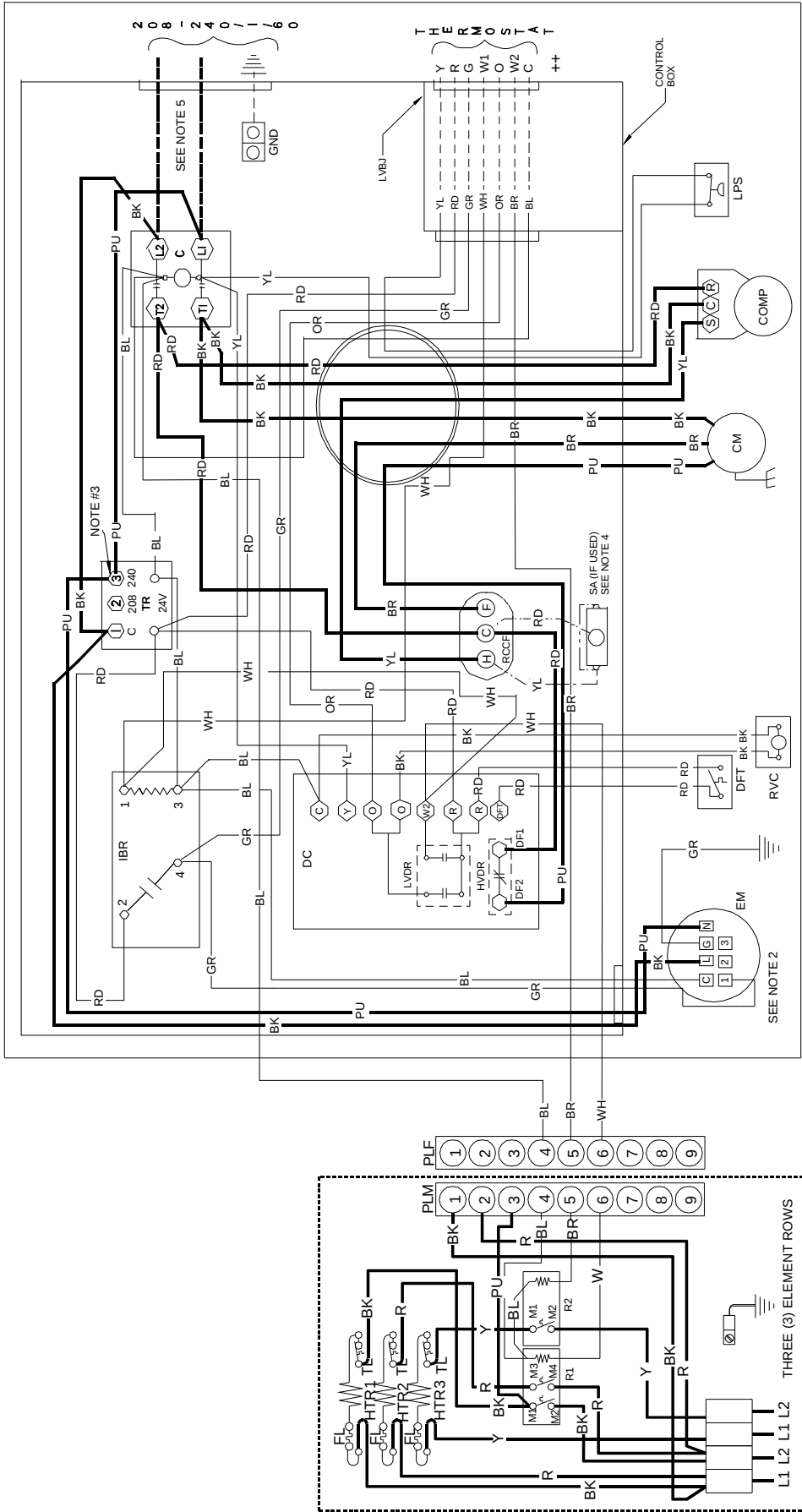
WIRING DIAGRAMS

GPH1360H21A/AA with HKR-15



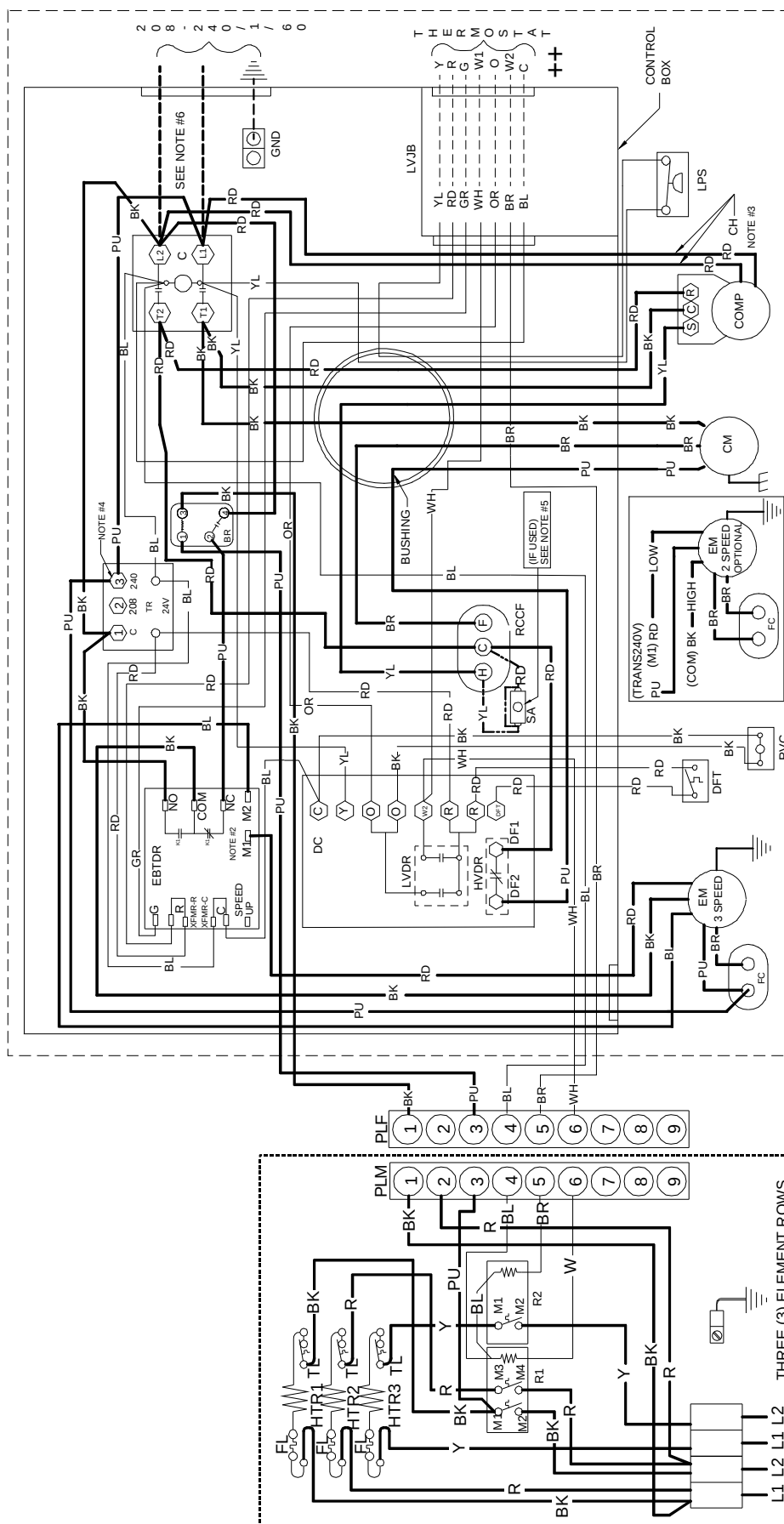
WARNING

HIGH VOLTAGE!
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Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

GPH1324-48H21AB/AC/AD with HKR-15



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WARNING

HIGH VOLTAGE!

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66

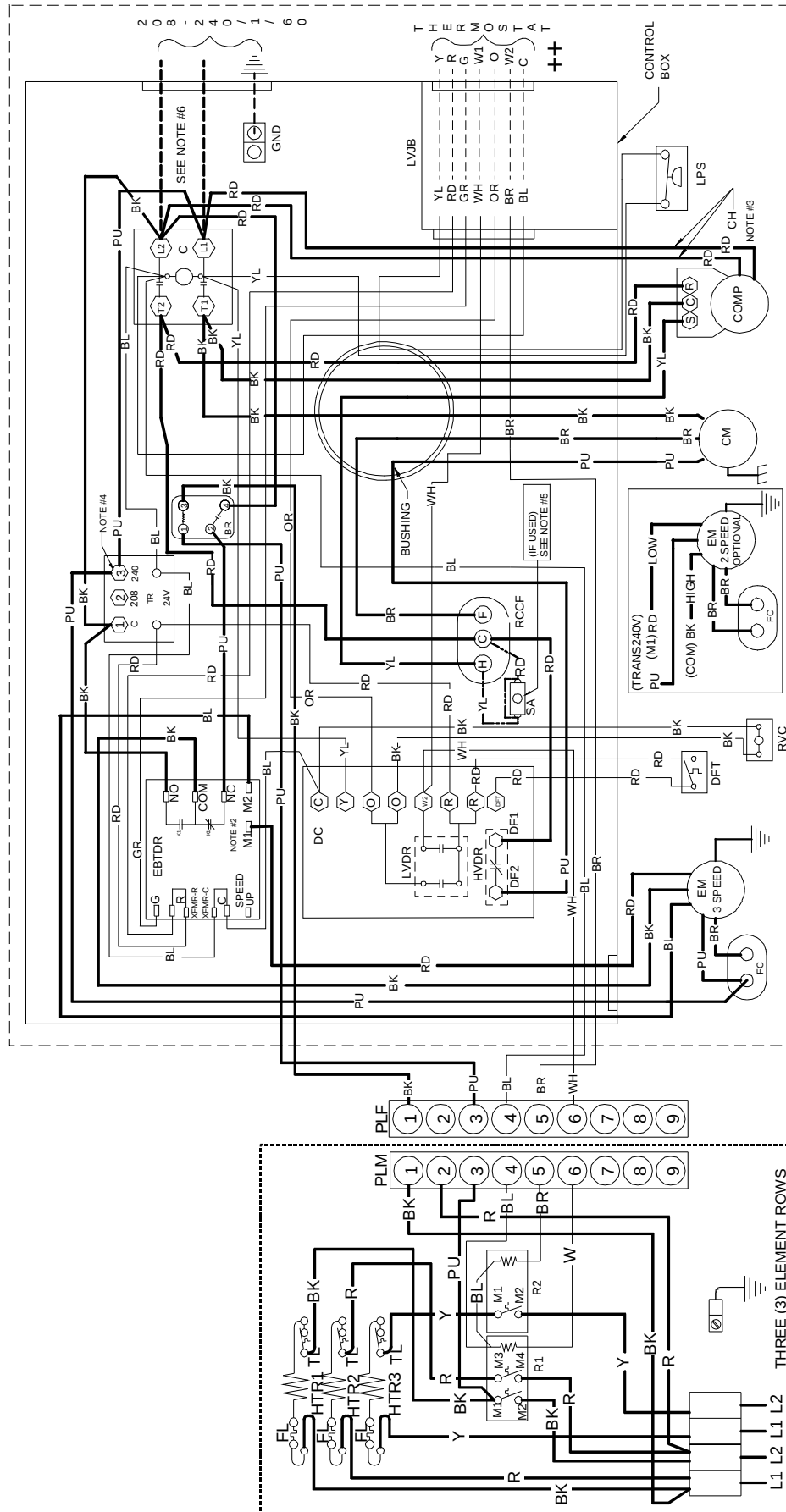
WIRING DIAGRAMS

GPH1324-36M21* with HKR-15



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.



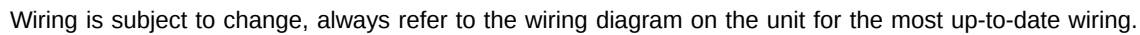
Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

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.

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WARNING

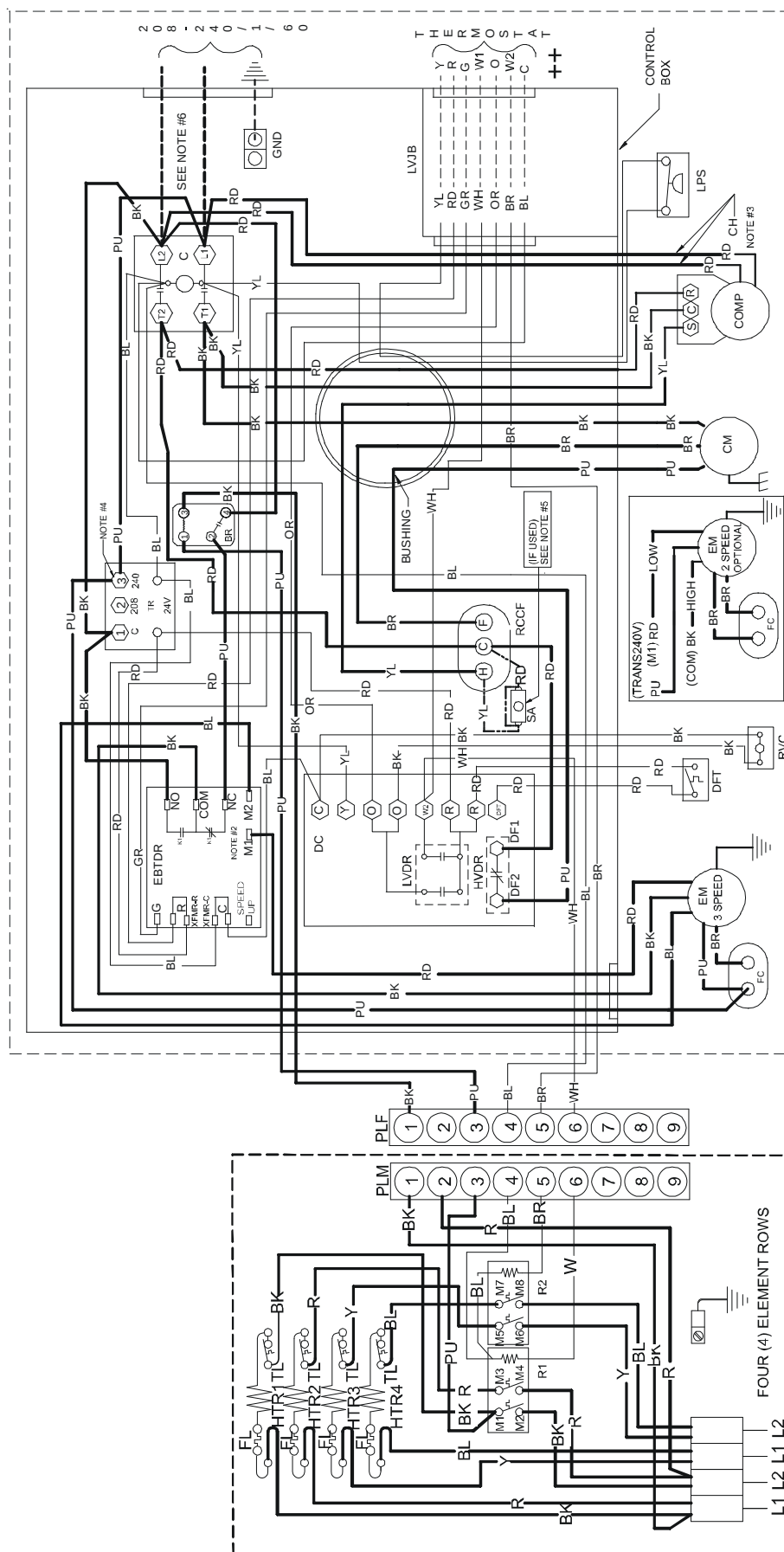
HIGH VOLTAGE!

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.

[illegible]

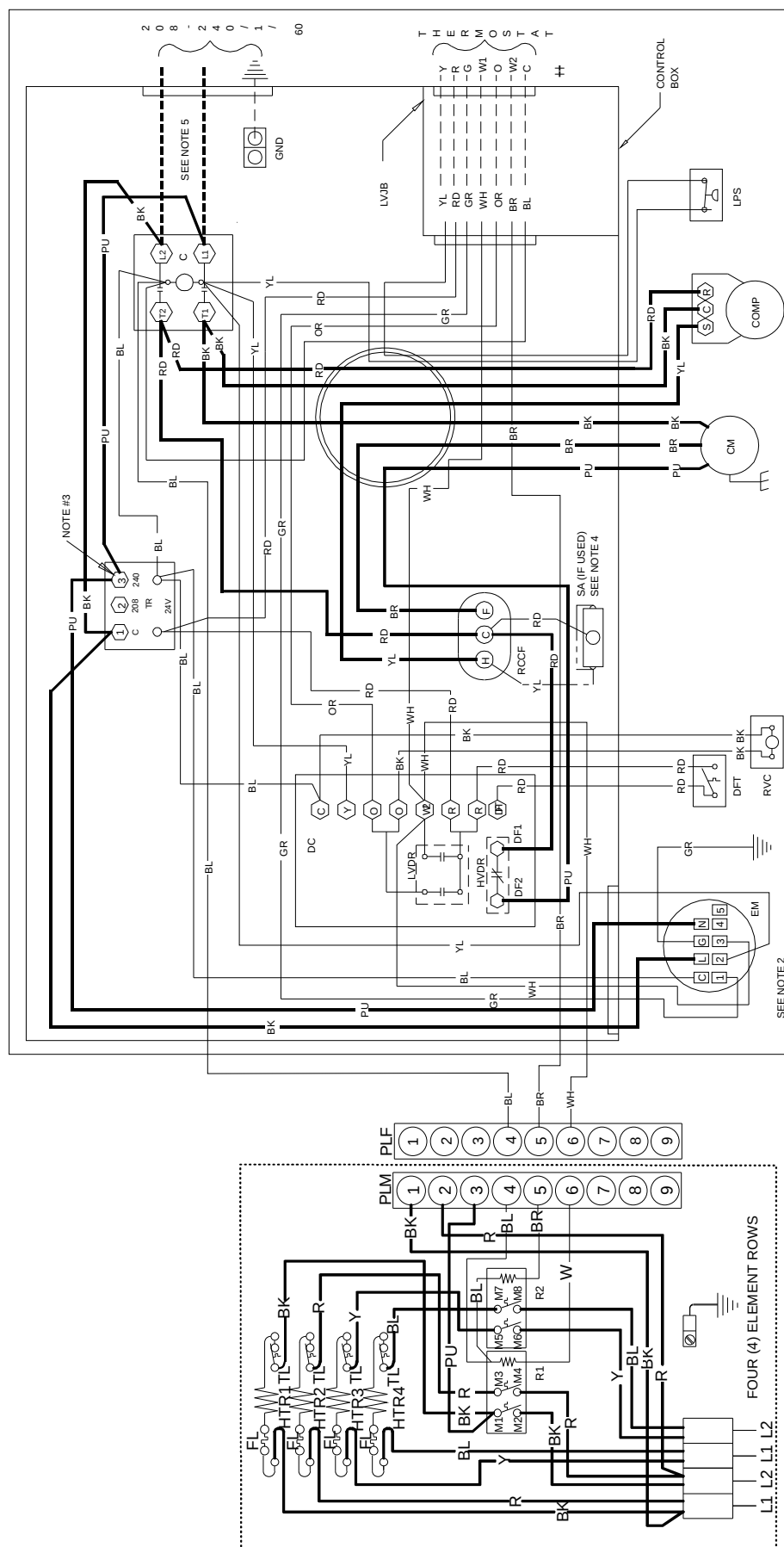
69

GPH1324-48H21AB/AC/AD with HKR-20



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

GPH1360H21AB-AD with HKR-20



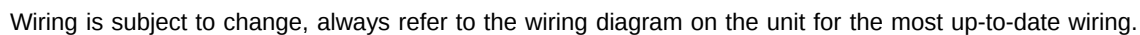
71

WARNING

HIGH VOLTAGE!

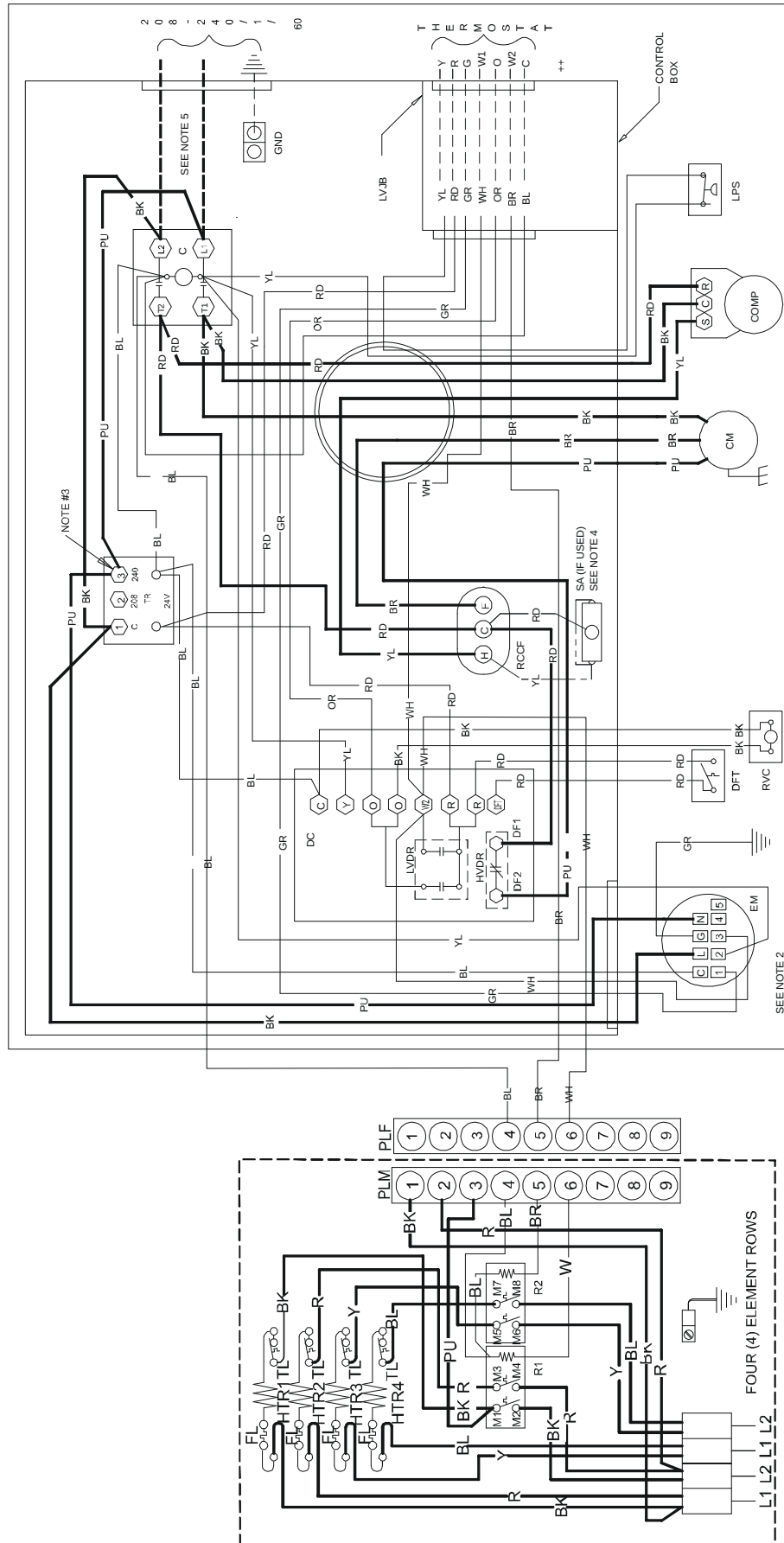
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

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WIRING DIAGRAMS

GPH1348-60M21* with HKR-20



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