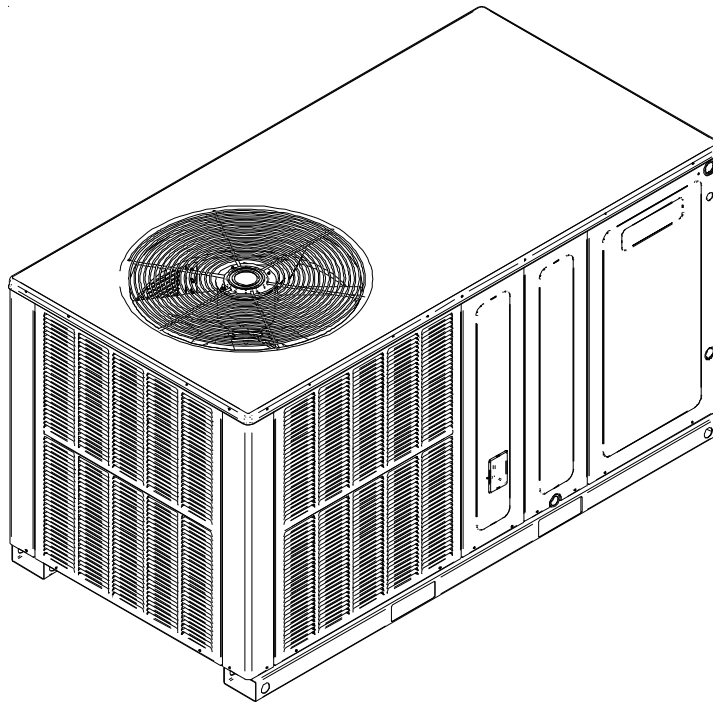


TECHNICAL MANUAL

*PH 14 SEER R-410A Package Heat Pump Units

- Refer to Service Manual RS6300014 (Horizontal) for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.
- Models listed on page 3.



The models contained in this tech manual are for AB revision level and up.

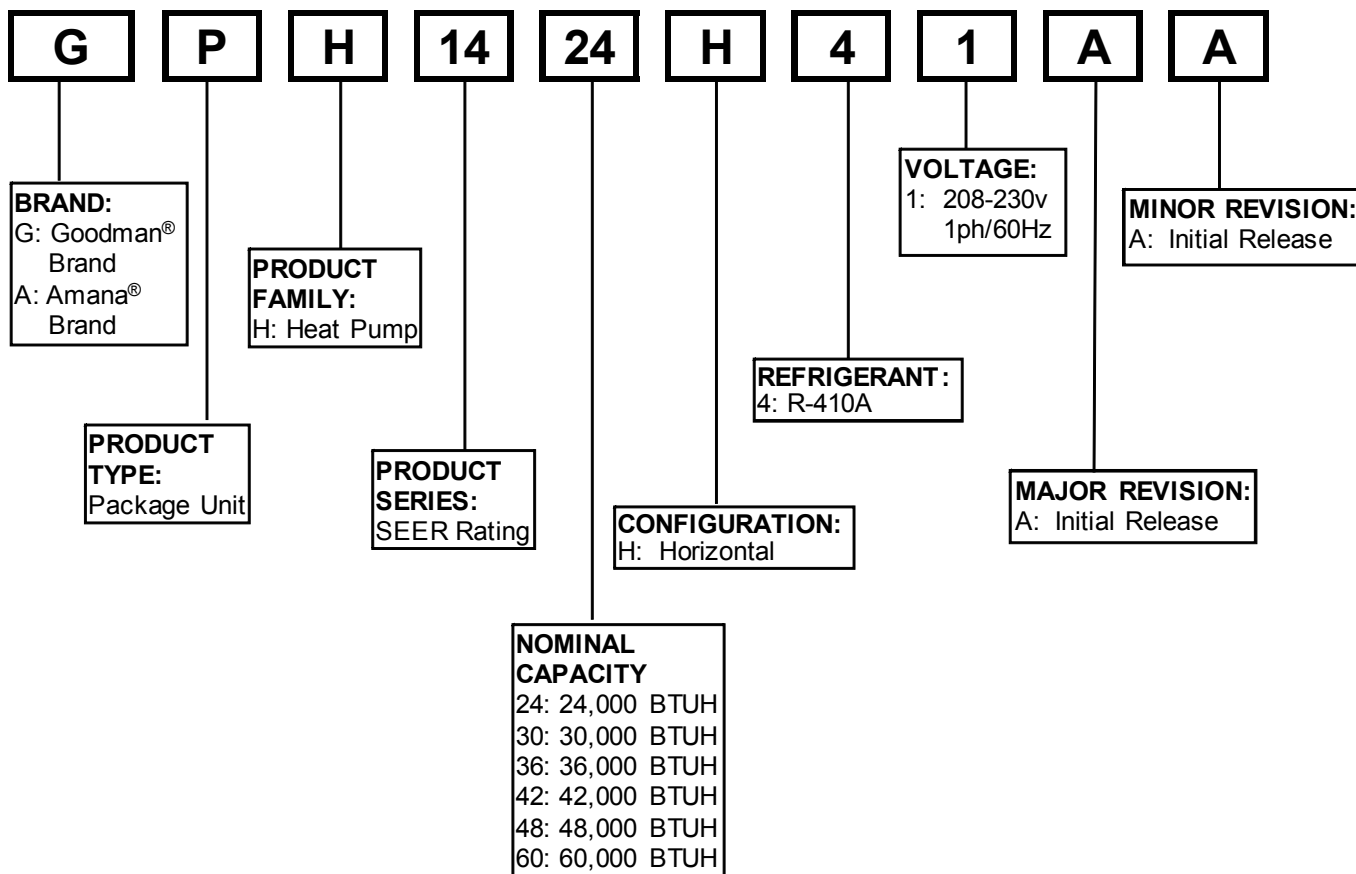
*AA revision level models can be found in RT6332008**

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.

RT6332012r9
September 2014

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.

GPH1424H41A*	*PH1424H41D*
GPH1430H41A*	*PH1430H41D*
GPH1436H41A*	*PH1436H41D*
GPH1442H41A*	*PH1442H41D*
GPH1448H41A*	*PH1448H41D*
GPH1460H41A*	*PH1460H41D*
GPH1460H41B*	*PH1442H41E*
	PH1448H41E
GPH1424H41C*	*PH1460H41E*
GPH1430H41C*	
GPH1436H41C*	
GPH1442H41C*	
GPH1448H41C*	
GPH1460H41C*	

The models contained in this tech manual are for AB revision level and up.

*AA revision level models can be found in RT6332008**



WARNING

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



WARNING

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



WARNING

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

PRODUCT DESIGN

*PH14 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. *PH14 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.

PH14[24-60]H41 units have EEM indoor blower motors that are energized by a 24V signal from the thermostat and are constant torque motors with very low power consumption. The EEM motor features an integral control module.

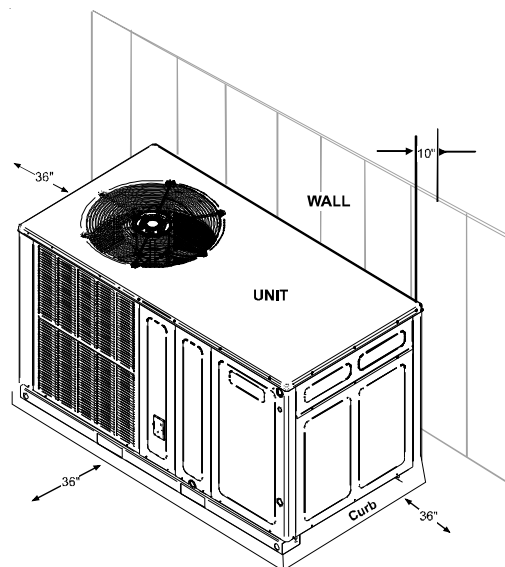
Air for condensing (cooling cycle) or evaporation (heating cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

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.

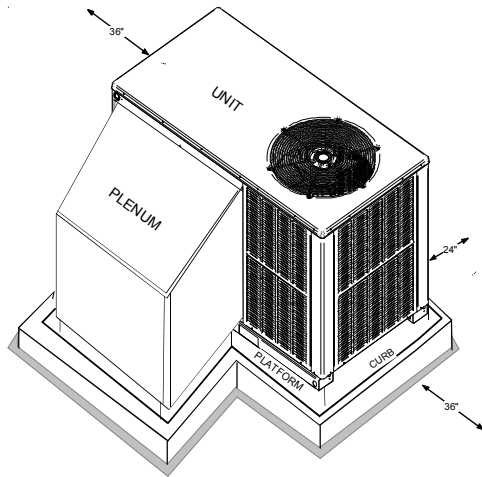


Outside Slab Installation - Horizontal (H)

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)

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.

WARNING

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

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

PRODUCT DESIGN

PH14[24-60]H41*

HKR ELECTRICAL DATA

Model and Heat Kit Usage	Circuit #1		Circuit #2		Actual kW & BTU at 240V
	Minimum Circuit Ampacity at 208 / 240V	Maximum Overcurrent Protection (amps) at 208 / 240V	Minimum Circuit Ampacity at 208 / 240V	Maximum Overcurrent Protection (amps) at 208 / 240V	
*PH1424H41**					
HKR/P05*,C*	24 / 27	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	33 / 28	40 / 40	---	---	7.00 / 23,800
HKR/P10*,C*	45 / 51	60 / 60	---	---	9.50 / 32,400
*PH1430H41**					
HKR//P05*,C*	24 / 27	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	---	---	7.00 / 23,800
HKR/P10*,C*	45 / 52	60 / 60	---	---	9.50 / 32,400
HKR/P15*,C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
*PH1436H41**					
HKR/P05*,C*	24 / 27	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	---	---	7.00 / 23,800
HKR/P10*,C*	45 / 52	60 / 60	---	---	9.50 / 32,400
HKR/P15*,C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
*PH1442H41**					
HKR/P05*,C*	25 / 27	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	---	---	7.00 / 23,800
HKR/P10*,C*	46 / 52	60 / 60	---	---	9.50 / 32,400
HKR/P15*,C*	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR/P20*,C*	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
*PH1448H41**					
HKR/P05*,C*	25 / 28	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	34 / 40	40 / 40	---	---	7.00 / 23,800
HKR/P10*,C*	46 / 53	60 / 60	---	---	9.50 / 32,400
HKR/P15*,C*	46 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR/P20*,C*	46 / 52	60 / 60	43 / 49	60 / 60	19.50 / 66,500
*PH1460H41**					
HKR/P05*,C*	26 / 30	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	36 / 40	40 / 40	---	---	7.00 / 23,800
HKR/P10*,C*	48 / 54	60 / 60	---	---	9.50 / 32,400
HKR/P15*,C*	48 / 54	60 / 60	22 / 25	30 / 30	14.25 / 48,600
HKR/P20*,C*	48 / 54	60 / 60	43 / 49	60 / 60	19.50 / 66,500

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



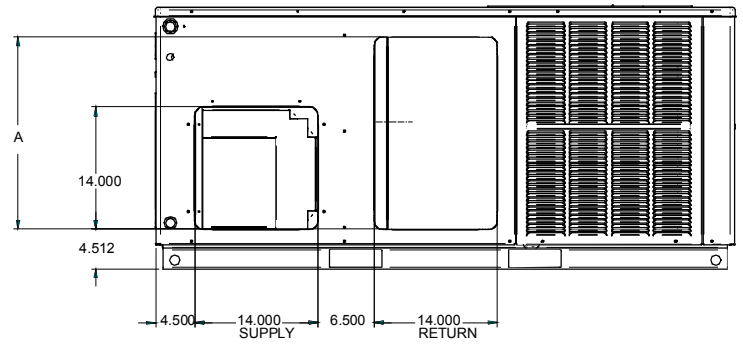
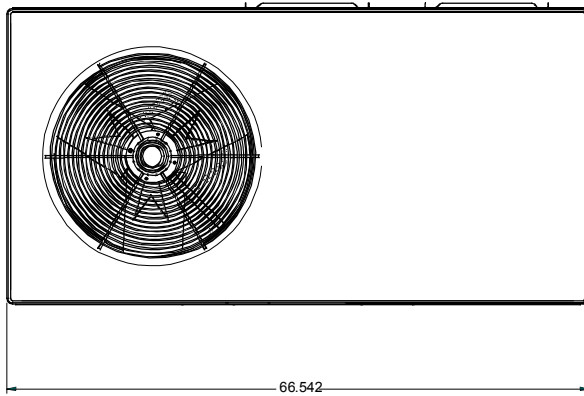
WARNING

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

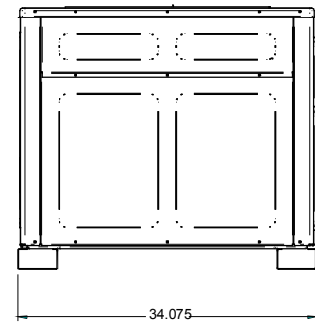
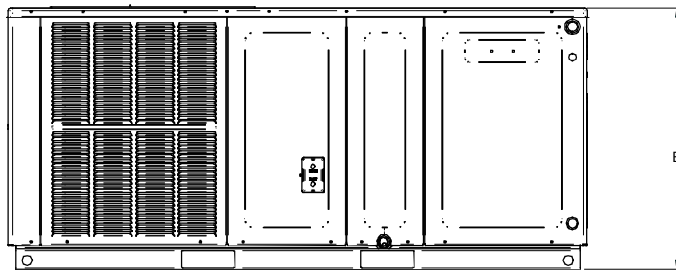
PRODUCT DIMENSIONS

PH14[24-60]H41*

PH1448H41E



BACK VIEW
(DUCT OPENINGS)



Chassis	Model	A	B
Small	*PH1424H41**	22.000	29.932
	*PH1430H41**	22.000	29.932
Medium	*PH1436H41**	24.000	34.932
	*PH1442H41**	24.000	34.932
	PH1448H41E	24.000	34.932
Large	*PH1448H41**	24.000	38.682
	*PH1460H41**	24.000	38.682

PACKAGE HEAT PUMP SPECIFICATIONS

GPH14[24-36]H41A*

		GPH1424H41**	GPH1430H41**	GPH1436H41**
COOLING CAPACITY	COOLING CAPACITY, BTUH	24,000	28,400	36,000
	SEER / EER	14.5 / 12.0	14.0 / 12.0	14.0 / 12.0
HEATING RATING	47°/43°F	22,800	27,600	32,200
	35°/33°F	15,500	18,600	26,000
	17°/15°F	13,000	15,400	21,400
	HSPF	8.0	8.0	8.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	15.4	17.1	20.1
	MIN CIRCUIT AMPACITY	12.5	15.6	24.2
	MAX OVERCURRENT PROTECTION ⁽²⁾	20	25	40
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	12.8	14.1	16.7
	LOCKED ROTOR AMPS	58.3	73	79
CONDENSER FAN MOTOR	HORSEPOWER	1/6	1/6	1/4
	RPM	815	815	1075
	FULL LOAD AMPS	1.1	1.1	1.5
	LOCKED ROTOR AMPS	1.7	1.7	3.0
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 3	22 / 3	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	13.4	13.4	17
	NUMBER OF ROWS	1	1	1
	FINS PER INCH	24	24	24
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	1/2 - 5	1/2 - 5
	FULL LOAD AMPS	1.50	1.86	1.86
	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1,050	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	10 X 8
	RATED SCFM COOLING	850	1,050	1,200
	HI EFFICIENCY COOLING CFM	850	1,050	1,200
	FAN ONLY COOLING CFM	800	950	1,100
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	5.25	4.67	5.20
	NUMBER OF ROWS	3	4	3
	FINS PER INCH	16	16	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	20 x 20 x 1	20 x 25 x 1	25 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE (INDOOR / OUTDOOR)	ORIFICE (0.057 / 0.049)	ORIFICE (0.065 / 0.047)	ORIFICE (0.068 / 0.067)
	REFRIGERANT CHARGE R-410A (OZS.)	85	105	125
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (")	3/4, 1, 1-1/4	3/4, 1, 1-1/4	3/4, 1, 1-1/4
	LOW VOLTAGE CONDUIT KNOCKOUT SIZE (")	1/2	1/2	1/2
	LO PRESSURE SWITCH			
	OPENS / CLOSES PSIG	22 / 50	22 / 50	22 / 50
	HI PRESSURE SWITCH - OPENS PSIG			
	OPENS / CLOSES PSIG	660 / 420	660 / 420	660 / 420
	SHIPPING WEIGHT (LBS.)	325	325	385
	OPERATING WEIGHT (LBS.)	315	315	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

GPH14[42-60]H41A*

		GPH1442H41**	GPH1448H41**	GPH1460H41**
COOLING CAPACITY	COOLING CAPACITY, BTUH	40,000	46,000	57,000
	SEER / EER	14.0 / 12.0	14.0 / 12.0	14.0 / 12.0
HEATING RATING	47°/43°F	37,600	44,000	54,500
	35°/33°F	27,500	32,000	43,000
	17°/15°F	21,600	26,000	33,800
	HSPF	8.0	8.0	8.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	22.2	24.2	30.7
	MIN CIRCUIT AMPACITY	26.6	29.2	40.2
	MAX OVERCURRENT PROTECTION ⁽²⁾	40	45	60
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	17.9	19.9	26.4
	LOCKED ROTOR AMPS	112	109	134
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1075	1075	1075
	FULL LOAD AMPS	1.4	1.4	1.4
	LOCKED ROTOR AMPS	2.9	2.9	2.9
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 4	22 / 4	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	17	19.1	19.1
	NUMBER OF ROWS	1	2	2
	FINS PER INCH	24	16	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	3/4 - 5	3/4 - 5
	FULL LOAD AMPS	2.9	2.9	2.9
	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1,050	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	11 X 8
	RATED SCFM COOLING	1,300	1,600	1,600
	HI EFFICIENCY COOLING CFM	1,300	1,600	1,600
	5 TON NOMINAL COOLING CFM	NA	NA	1,800
	FAN ONLY COOLING CFM	1,200	1,400	1,600
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL	FACE AREA (SQ. FT.)	6.2	6.2	7.0
	NUMBER OF ROWS	4	4	4
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	(2) 20 x 20 x 1	(2) 20 x 20 x 1	(2) 20 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE (INDOOR / OUTDOOR)	ORIFICE (0.072 / 0.065)	ORIFICE (0.076 / 0.065)	ORIFICE (0.088 / 0.071)
	REFRIGERANT CHARGE R-410A (OZS.)	150	190	200
	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
	LO PRESSURE SWITCH			
	OPENS / CLOSES PSIG	22 / 50	22 / 50	22 / 50
	HI PRESSURE SWITCH - OPENS PSIG			
	OPENS / CLOSES PSIG	660 / 420	660 / 420	660 / 420
	SHIPPING WEIGHT (LBS.)	385	415	415
	OPERATING WEIGHT (LBS.)	375	405	405

⁽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

GPH14[24-36]H41C*

		GPH1424H41C*	GPH1430H41C*	GPH1436H41C*
COOLING CAPACITY	COOLING CAPACITY, BTUH	24,000	28,400	36,000
	SEER / EER	14.5 / 12.0	14.0 / 12.0	14.0 / 12.0
HEATING RATING	47°/43°F	22,800	27,600	32,200
	35°/33°F	15,500	18,600	26,000
	17°/15°F	13,000	15,400	21,400
	HSPF	8.0	8.0	8.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	15.4	17.1	20.1
	MIN CIRCUIT AMPACITY	12.5	15.6	24.2
	MAX OVERCURRENT PROTECTION ⁽²⁾	20	25	40
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	12.8	14.1	16.7
	LOCKED ROTOR AMPS	58.3	73	79
CONDENSER FAN MOTOR	HORSEPOWER	1/6	1/6	1/4
	RPM	815	815	1075
	FULL LOAD AMPS	1.1	1.1	1.5
	LOCKED ROTOR AMPS	1.7	1.7	3.0
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 3	22 / 3	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	13.4	13.4	17
	NUMBER OF ROWS	1	1	1
	FINS PER INCH	24	24	24
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	1/2 - 5	1/2 - 5
	FULL LOAD AMPS	1.50	1.86	1.86
	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1,050	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	10 X 8
	RATED SCFM COOLING	850	1,050	1,200
	HI EFFICIENCY COOLING CFM	850	1,050	1,200
	FAN ONLY COOLING CFM	800	950	1,100
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL ALUMINUM	FACE AREA (SQ. FT.)	5.2	5.2	6.2
	NUMBER OF ROWS	3	4	3
	FINS PER INCH	16	16	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	20 x 20 x 1	20 x 25 x 1	25 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE (INDOOR / OUTDOOR)	ORIFICE (0.061 / 0.047)	ORIFICE (0.065 / 0.047)	ORIFICE (0.068 / 0.063)
	REFRIGERANT CHARGE R-410A (OZS.)	105	105	125
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (")	3/4, 1, 1-1/4	3/4, 1, 1-1/4	3/4, 1, 1-1/4
	LOW VOLTAGE CONDUIT KNOCKOUT SIZE (")	1/2	1/2	1/2
	LO PRESSURE SWITCH			
	OPENS / CLOSES PSIG	22 / 50	22 / 50	22 / 50
	HI PRESSURE SWITCH - OPENS PSIG			
	OPENS / CLOSES PSIG	660 / 420	660 / 420	660 / 420
	SHIPPING WEIGHT (LBS.)	325	325	385
	OPERATING WEIGHT (LBS.)	315	315	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 GPH14[42-60]H41B*/C*

		GPH1442H41C*	GPH1448H41C*	GPH1460H41B*/C*
COOLING CAPACITY	COOLING CAPACITY, BTUH	40,000	46,000	57,000
	SEER / EER	14.0 / 12.0	14.0 / 12.0	14.0 / 12.0
HEATING RATING	47°/43°F	37,600	44,000	54,500
	35°/33°F	27,500	32,000	43,000
	17°/15°F	21,600	26,000	33,800
	HSPF	8.0	8.0	8.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	22.2	24.2	30.7
	MIN CIRCUIT AMPACITY	26.6	29.2	40.2
	MAX OVERCURRENT PROTECTION ⁽²⁾	40	45	60
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	17.9	19.9	26.4
	LOCKED ROTOR AMPS	112	109	134
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1075	1075	1075
	FULL LOAD AMPS	1.4	1.4	1.4
	LOCKED ROTOR AMPS	2.9	2.9	2.9
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 4	22 / 4	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	17	19.1	19.1
	NUMBER OF ROWS	1	2	2
	FINS PER INCH	24	16	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	3/4 - 5	3/4 - 5
	FULL LOAD AMPS	2.9	2.9	2.9
	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1,050	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	11 X 8
	RATED SCFM COOLING	1,300	1,600	1,600
	HI EFFICIENCY COOLING CFM	1,300	1,600	1,600
	5 TON NOMINAL COOLING CFM	NA	NA	1,800
	FAN ONLY COOLING CFM	1,200	1,400	1,600
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.5	0.5	0.5
EVAPORATOR COIL ALUMINUM	FACE AREA (SQ. FT.)	6.2	6.2	7.0
	NUMBER OF ROWS	4	4	4
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	(2) 20 x 20 x 1	(2) 20 x 20 x 1	(2) 20 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE (INDOOR / OUTDOOR)	ORIFICE (0.074 / 0.065)	ORIFICE (0.076 / 0.062)	ORIFICE (0.061 / 0.065)
	REFRIGERANT CHARGE R-410A (OZS.)	140	190	200
	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
	LO PRESSURE SWITCH			
	OPENS / CLOSES PSIG	22 / 50	22 / 50	22 / 50
	HI PRESSURE SWITCH - OPENS PSIG			
	OPENS / CLOSES PSIG	660 / 420	660 / 420	660 / 420
	SHIPPING WEIGHT (LBS.)	385	415	415
	OPERATING WEIGHT (LBS.)	375	405	405

⁽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

PH14[24-36]H41D

		PH1424H41D	*PH1430H41D*	*PH1436H41D*
COOLING CAPACITY	COOLING CAPACITY, BTUH	24,000	28,400	36,000
	SEER / EER	14.5 / 12.0	14.0 / 12.0	14.0 / 12.0
HEATING RATING	47°/43°F	22,800	27,600	32,200
	35°/33°F	15,500	18,600	26,000
	17°/15°F	13,000	15,400	21,400
	HSPF	8.0	8.0	8.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	17.7	19.0	22.0
	MIN CIRCUIT AMPACITY	21	23	26
	MAX OVERCURRENT PROTECTION ⁽²⁾	30	35	40
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	12.8	14.1	16.7
	LOCKED ROTOR AMPS	58.3	73	79
CONDENSER FAN MOTOR	HORSEPOWER	1/6	1/6	1/4
	RPM	815	815	1075
	FULL LOAD AMPS	1.1	1.1	1.5
	LOCKED ROTOR AMPS	1.7	1.7	3.0
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 3	22 / 3	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	13.4	13.4	17
	NUMBER OF ROWS	1	1	1
	FINS PER INCH	24	24	24
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	1/2 - 5	1/2 - 5
	FULL LOAD AMPS	3.8	3.8	3.8
	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1,050	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	10 X 8
	RATED SCFM COOLING	850	1,050	1,200
	HI EFFICIENCY COOLING CFM	850	1,050	1,200
	FAN ONLY COOLING CFM	800	950	1,100
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.8	0.8	0.8
EVAPORATOR COIL ALUMINUM	FACE AREA (SQ. FT.)	5.2	5.2	6.2
	NUMBER OF ROWS	3	4	3
	FINS PER INCH	16	16	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	20 x 20 x 1	20 x 25 x 1	25 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE (INDOOR / OUTDOOR)	ORIFICE (0.061 / 0.047)	ORIFICE (0.065 / 0.047)	ORIFICE (0.068 / 0.063)
	REFRIGERANT CHARGE R-410A (OZS.)	105	105	125
	POWER SUPPLY CONDUIT KNOCKOUT SIZE (")	3/4, 1, 1-1/4	3/4, 1, 1-1/4	3/4, 1, 1-1/4
	LOW VOLTAGE CONDUIT KNOCKOUT SIZE (")	1/2	1/2	1/2
	LO PRESSURE SWITCH			
	OPENS / CLOSES PSIG	22 / 50	22 / 50	22 / 50
	HI PRESSURE SWITCH - OPENS PSIG			
	OPENS / CLOSES PSIG	660 / 420	660 / 420	660 / 420
	SHIPPING WEIGHT (LBS.)	325	325	385
	OPERATING WEIGHT (LBS.)	315	315	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

PH14[42-60]H41D

		PH1442H41D	*PH1448H41D*	*PH1460H41D*
COOLING CAPACITY	COOLING CAPACITY, BTUH	40,000	46,000	57,000
	SEER / EER	14.0 / 12.0	14.0 / 12.0	14.0 / 12.0
HEATING RATING	47°/43°F	37,600	44,000	54,500
	35°/33°F	27,500	32,000	43,000
	17°/15°F	21,600	26,000	33,800
	HSPF	8.0	8.0	8.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	23.1	26.7	33.2
	MIN CIRCUIT AMPACITY	28	32	40
	MAX OVERCURRENT PROTECTION ⁽²⁾	45	50	60
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	17.9	19.9	26.4
	LOCKED ROTOR AMPS	112	109	134
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1075	1075	1075
	FULL LOAD AMPS	1.4	1.4	1.4
	LOCKED ROTOR AMPS	2.9	2.9	2.9
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 4	22 / 4	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	17	19.1	19.1
	NUMBER OF ROWS	1	2	2
	FINS PER INCH	24	16	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	3/4 - 5	3/4 - 5
	FULL LOAD AMPS	3.8	5.4	5.4
	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1,050	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	11 X 8
	RATED SCFM COOLING	1,300	1,600	1,600
	HI EFFICIENCY COOLING CFM	1,300	1,600	1,600
	5 TON NOMINAL COOLING CFM	NA	NA	1,800
	FAN ONLY COOLING CFM	1,200	1,400	1,600
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.8 / 0.5**	0.8 / 0.5**	0.8 / 0.5**
EVAPORATOR COIL ALUMINUM	FACE AREA (SQ. FT.)	6.2	6.2	7.0
	NUMBER OF ROWS	4	4	4
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	(2) 20 x 20 x 1	(2) 20 x 20 x 1	(2) 20 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE (INDOOR / OUTDOOR)	ORIFICE (0.074 / 0.065)	ORIFICE (0.076 / 0.062)	ORIFICE (0.061 / 0.065)
	REFRIGERANT CHARGE R-410A (OZS.)	140	190	200
	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
	LO PRESSURE SWITCH			
	OPENS / CLOSES PSIG	22 / 50	22 / 50	22 / 50
	HI PRESSURE SWITCH - OPENS PSIG			
	OPENS / CLOSES PSIG	660 / 420	660 / 420	660 / 420
	SHIPPING WEIGHT (LBS.)	385	415	415
	OPERATING WEIGHT (LBS.)	375	405	405

** When using a 20kW electric heater, unit is rated for 0.5 E.S.P. For all other electric heat sizes as well as units with no heater installed, the max E.S.P is 0.8.

⁽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

PH14[42-60]H41E

		PH1442H41E	*PH1448H41E*	*PH1460H41E*
COOLING CAPACITY	COOLING CAPACITY, BTUH	40,000	46,000	57,000
	SEER / EER	14.0 / 12.0	14.0 / 12.0	14.0 / 11.5
HEATING RATING	47°/43°F	37,600	44,000	54,500
	35°/33°F	27,500	32,000	43,000
	17°/15°F	21,600	26,000	33,800
	HSPF	8.0	8.0	8.0
UNIT ELECTRICAL SPECIFICATION	VOLTAGE (NAMEPLATE)	208/230-60-1	208/230-60-1	208/230-60-1
	AMPS	23.1	26.7	33.2
	MIN CIRCUIT AMPACITY	28	32	40
	MAX OVERCURRENT PROTECTION ⁽²⁾	45	50	60
COMPRESSOR	TYPE	SCROLL	SCROLL	SCROLL
	RATED LOAD AMPS	17.9	19.9	26.4
	LOCKED ROTOR AMPS	112	109	134
CONDENSER FAN MOTOR	HORSEPOWER	1/4	1/4	1/4
	RPM	1075	1075	1075
	FULL LOAD AMPS	1.4	1.4	1.4
	LOCKED ROTOR AMPS	2.9	2.9	2.9
CONDENSER FAN	BLADE DIAMETER (INCHES) / # OF BLADES	22 / 4	22 / 4	22 / 4
CONDENSER COIL	FACE AREA (SQ. FT.)	17	17	19.1
	NUMBER OF ROWS	1	2	2
	FINS PER INCH	24	16	16
EVAPORATOR BLOWER MOTOR	HORSEPOWER - NO. OF SPEEDS	1/2 - 5	3/4 - 5	3/4 - 5
	FULL LOAD AMPS	3.8	5.4	5.4
	LOCKED ROTOR AMPS	NA	NA	NA
	MOTOR SPEED TAP - COOLING	T2	T2	T2
	RPM	1,050	1,050	1,050
EVAPORATOR BLOWER	DIAMETER X WIDTH (INCHES)	10 X 8	10 X 8	11 X 8
	RATED SCFM COOLING	1,300	1,600	1,600
	HI EFFICIENCY COOLING CFM	1,300	1,600	1,600
	5 TON NOMINAL COOLING CFM	NA	NA	1,800
	FAN ONLY COOLING CFM	1,200	1,400	1,600
	MAX EXTERNAL STATIC PRESS ("w.c.)	0.8 / 0.5**	0.8 / 0.5**	0.8 / 0.5**
EVAPORATOR COIL ALUMINUM	FACE AREA (SQ. FT.)	6.2	6.2	7.0
	NUMBER OF ROWS	4	4	4
	FINS PER INCH	14	14	14
GENERAL INFORMATION	FILTER SIZE (SQ. FT.)	(2) 20 x 20 x 1	(2) 20 x 20 x 1	(2) 20 x 25 x 1
	DRAIN SIZE (INCHES)	3/4"	3/4"	3/4"
	EXPANSION DEVICE (INDOOR / OUTDOOR)	ORIFICE (0.074 / 0.065)	ORIFICE (0.074 / 0.065)	ORIFICE (0.086 / 0.071)
	REFRIGERANT CHARGE R-410A (OZS.)	132	170	175
	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
	LO PRESSURE SWITCH			
	OPENS / CLOSES PSIG	22 / 50	22 / 50	22 / 50
	HI PRESSURE SWITCH - OPENS PSIG			
	OPENS / CLOSES PSIG	660 / 420	660 / 420	660 / 420
	SHIPPING WEIGHT (LBS.)	385	410	415
	OPERATING WEIGHT (LBS.)	375	400	405

** When using a 20kW electric heater, unit is rated for 0.5 E.S.P. For all other electric heat sizes as well as units with no heater installed, the max E.S.P is 0.8.

⁽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.

ACCESSORIES

PH14[24-60]H41*

ACCESSORIES - *PC/*PH****H MODELS	
Part Number	Description
OT18-60A	Outdoor Thermostat Kit w/Lockout Stat
OT/EHR18-60	Emergency Heat Relay Kit
HKR/P	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
SPK30-60	Single Point Wiring Kit

BLOWER PERFORMANCE DATA

GPH14[24-60]H41A*

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
GPH1424H41A*	T1	230	CFM	934	759	755	638	581	489	-	-
			WATTS	95	77	76	73	83	90	-	-
	T2, T3	230	CFM	990	837	801	744	696	652	601	-
			WATTS	107	94	105	110	119	133	142	-
	T4, T5	230	CFM	1061	989	947	925	876	-	-	-
			WATTS	126	134	146	158	169	-	-	-
GPH1430H41A*	T1	230	CFM	1022	929	894	829	797	748	695	643
			WATTS	116	114	126	134	144	156	168	173
	T2, T3	230	CFM	1103	1063	1012	962	937	-	-	-
			WATTS	142	154	165	173	185	-	-	-
	T4, T5	230	CFM	1285	1240	1202	1163	1124	1076	1046	1003
			WATTS	205	218	231	244	257	268	280	288
GPH1436H41A*	T1	230	CFM	1234	1111	1071	1024	933	922	-	-
			WATTS	144	140	152	164	179	183	-	-
	T2, T3	230	CFM	1287	1232	1186	1133	1099	1053	-	-
			WATTS	162	175	187	201	213	221	-	-
	T4, T5	230	CFM	1381	1325	1277	1233	1181	1144	-	-
			WATTS	195	203	217	233	247	258	-	-
GPH1442H41A*	T1	230	CFM	1272	1197	1145	1106	1055	998	947	906
			WATTS	160	168	183	191	211	220	230	243
	T2, T3	230	CFM	1357	1297	1244	1194	1147	1099	1049	1008
			WATTS	188	202	213	228	245	255	267	284
	T4, T5	230	CFM	1537	1478	1431	1386	1336	1293	1253	1208
			WATTS	244	258	274	288	303	317	329	341
GPH1448H41A*	T1	230	CFM	1418	1383	1349	1312	1275	1228	1178	1141
			WATTS	242	258	273	282	299	308	320	338
	T2, T3	230	CFM	1175	1635	1645	1515	1510	1450	1430	1400
			WATTS	395	420	435	445	455	465	470	475
	T4, T5	230	CFM	1845	1790	1715	1685	1590	1580	1530	1500
			WATTS	490	505	520	535	550	560	570	575
GPH1460H41A*	T1, T2, T3	230	CFM	1775	1635	1645	1515	1510	1450	1430	1400
			WATTS	395	420	435	445	455	465	470	475
	T4, T5	230	CFM	2025	1900	1840	1780	1725	1650	1620	1580
			WATTS	575	595	620	630	645	655	660	670

NOTES:

1. Data shown is dry coil. Wet coil pressure drop is approx.
2. 0.1" 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. Reduce airflow by 2% for 208V operation.

BLOWER PERFORMANCE DATA

GPH1460H41BA
GPH14[24-48]H41CA

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
GPH1460H41BA	T1	230	CFM	1507	1459	1410	1362	1314	1266	1218	1169
			Watts	168	175	183	191	199	207	214	222
	T2 / T3	230	CFM	1793	1745	1697	1649	1600	1552	1504	1456
			Watts	363	371	379	387	394	402	410	418
	T4 / T5	230	CFM	1965	1917	1869	1821	1773	1724	1676	1628
			Watts	481	489	496	504	512	520	528	535
GPH1424HCA	T1	230	CFM	914	866	818	770	722	674	626	578
			Watts	69	80	91	102	114	125	136	147
	T2 / T3	230	CFM	914	866	818	770	722	674	626	578
			Watts	69	80	91	102	114	125	136	147
	T4 / T5	230	CFM	1064	1016	968	920	872	824	776	728
			Watts	97	108	120	131	142	153	165	176
GPH1430HCA	T1	230	CFM	1005	961	918	874	831	787	744	700
			Watts	91	102	114	125	137	149	160	172
	T2 / T3	230	CFM	1110	1067	1023	980	936	893	849	806
			Watts	120	132	144	155	167	178	190	202
	T4 / T5	230	CFM	1287	1244	1200	1157	1113	1070	1026	983
			Watts	170	182	194	205	217	228	240	252
GPH1436H41CA	T1	230	CFM	1151	1097	1042	988	933	879	824	770
			Watts	132	144	156	169	181	194	206	219
	T2 / T3	230	CFM	1261	1215	1169	1123	1076	1030	984	937
			Watts	131	144	157	169	182	194	207	220
	T4 / T5	230	CFM	1376	1330	1284	1237	1191	1145	1099	1052
			Watts	170	182	195	207	220	233	245	258
GPH1442H41CA	T1	230	CFM	1165	1122	1080	1037	995	953	910	868
			Watts	118	130	142	154	166	178	190	202
	T2 / T3	230	CFM	1365	1322	1280	1237	1195	1153	1110	1068
			Watts	188	200	212	224	236	248	260	272
	T4 / T5	230	CFM	1511	1469	1427	1384	1342	1299	1257	1214
			Watts	239	251	263	275	287	299	311	323
GPH1448H41CA	T1	230	CFM	1421	1367	1314	1260	1206	1152	1099	1045
			Watts	170	182	195	208	220	233	246	258
	T2 / T3	230	CFM	1696	1643	1589	1535	1481	1428	1374	1320
			Watts	287	299	312	325	337	350	363	375
	T4 / T5	230	CFM	1859	1805	1751	1698	1644	1590	1536	1483
			Watts	356	368	381	394	406	419	432	444

BLOWER PERFORMANCE DATA

GPH1460H41BB
PH14[24-48]H41D

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
GPH1460H41BB	T1	230	CFM	1507	1459	1410	1362	1314	1266	1218	1169
			Watts	168	175	183	191	199	207	214	222
	T2 / T3	230	CFM	1793	1745	1697	1649	1600	1552	1504	1456
			Watts	363	371	379	387	394	402	410	418
	T4 / T5	230	CFM	1919	1870	1822	1774	1726	1678	1629	1581
			Watts	449	457	465	472	480	488	496	503
PH1424HD	T1	230	CFM	914	866	818	770	722	674	626	578
			Watts	69	80	91	102	114	125	136	147
	T2 / T3	230	CFM	914	866	818	770	722	674	626	578
			Watts	69	80	91	102	114	125	136	147
	T4 / T5	230	CFM	1231	1179	1127	1074	1022	969	917	865
			Watts	168	180	193	205	218	230	243	255
PH1430HD	T1	230	CFM	1005	961	918	874	831	787	744	700
			Watts	91	102	114	125	137	149	160	172
	T2 / T3	230	CFM	1110	1067	1023	980	936	893	849	806
			Watts	120	132	144	155	167	178	190	202
	T4 / T5	230	CFM	1462	1409	1357	1305	1252	1200	1147	1095
			Watts	241	253	266	278	291	303	315	328
PH1436H41D	T1	230	CFM	1151	1097	1042	988	933	879	824	770
			Watts	132	144	156	169	181	194	206	219
	T2 / T3	230	CFM	1261	1215	1169	1123	1076	1030	984	937
			Watts	131	144	157	169	182	194	207	220
	T4 / T5	230	CFM	1577	1525	1472	1420	1367	1315	1263	1210
			Watts	277	290	302	314	327	339	352	364
PH1442H41D	T1	230	CFM	1165	1122	1080	1037	995	953	910	868
			Watts	118	130	142	154	166	178	190	202
	T2 / T3	230	CFM	1365	1322	1280	1237	1195	1153	1110	1068
			Watts	188	200	212	224	236	248	260	272
	T4 / T5	230	CFM	1645	1602	1560	1517	1475	1433	1390	1348
			Watts	285	297	309	321	333	346	358	370
PH1448H41D	T1	230	CFM	1421	1367	1314	1260	1206	1152	1099	1045
			Watts	170	182	195	208	220	233	246	258
	T2 / T3	230	CFM	1696	1643	1589	1535	1481	1428	1374	1320
			Watts	287	299	312	325	337	350	363	375
	T4 / T5	230	CFM	1983	1928	1873	1818	1763	1708	1652	1597
			Watts	553	565	578	591	603	616	629	641

BLOWER PERFORMANCE DATA

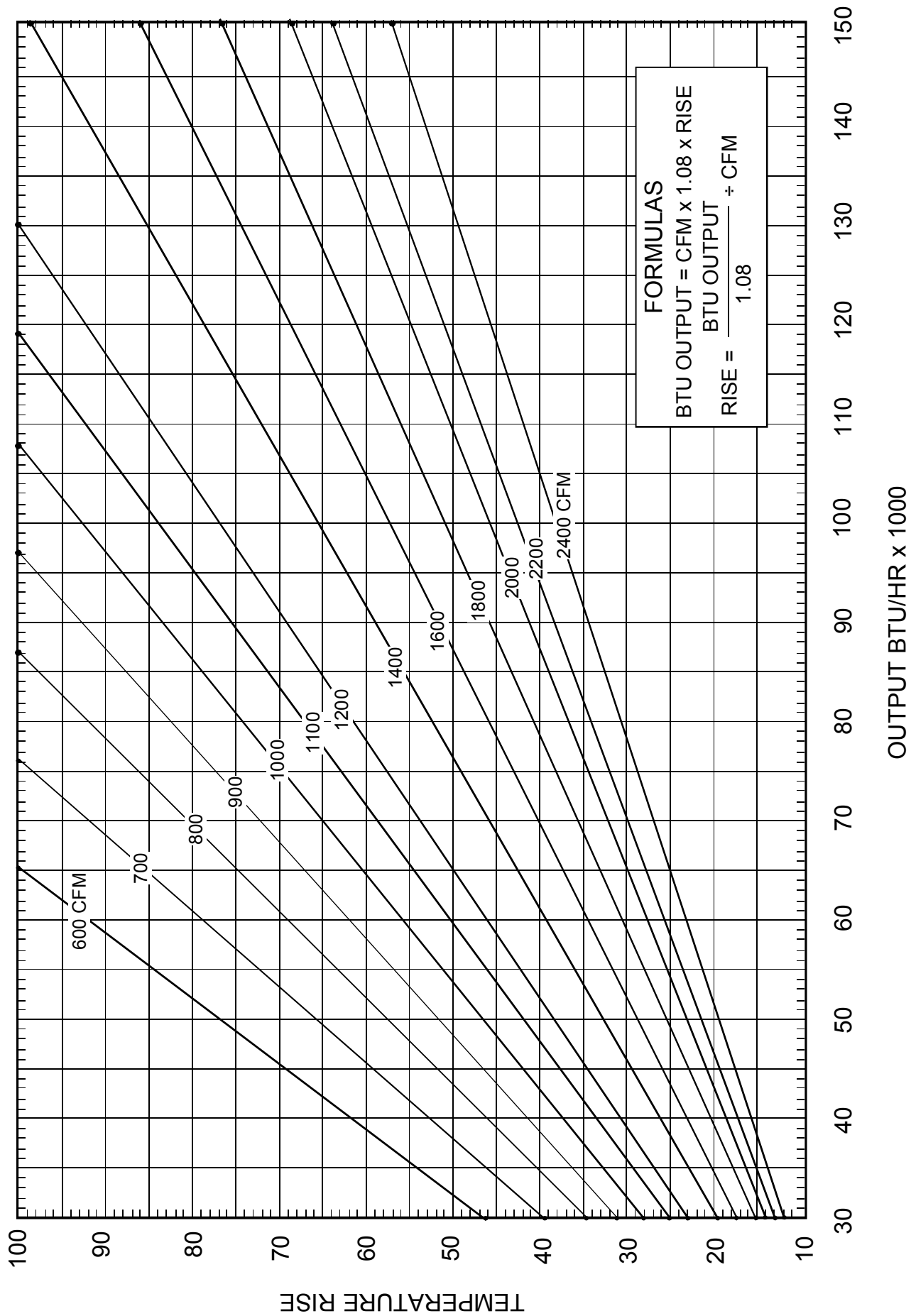
PH14[42-60]H41E

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
PH1442H41E	T1	230	CFM	1165	1122	1080	1037	995	953	910	868
			Watts	118	130	142	154	166	178	190	202
	T2 / T3	230	CFM	1365	1322	1280	1237	1195	1153	1110	1068
			Watts	188	200	212	224	236	248	260	272
	T4 / T5	230	CFM	1645	1602	1560	1517	1475	1433	1390	1348
			Watts	285	297	309	321	333	346	358	370
PH1448H41E	T1	230	CFM	1337	1297	1218	1155	1118	1088	1022	989
			Watts	179	190	203	210	225	243	249	268
	T2 / T3	230	CFM	1711	1640	1605	1537	1496	1441	1397	1347
			Watts	330	341	358	370	377	394	408	418
	T4 / T5	230	CFM	2002	1935	1885	1827	1767	1732	1669	1618
			Watts	498	521	516	534	551	567	571	574
PH1460H41E	T1	230	CFM	1507	1459	1410	1362	1314	1266	1218	1169
			Watts	168	175	183	191	199	207	214	222
	T2 / T3	230	CFM	1793	1745	1697	1649	1600	1552	1504	1456
			Watts	363	371	379	387	394	402	410	418
	T4 / T5	230	CFM	1919	1870	1822	1774	1726	1678	1629	1581
			Watts	449	457	465	472	480	488	496	503

BLOWER PERFORMANCE DATA

BTU OUTPUT vs TEMPERATURE RISE CHART



COOLING PERFORMANCE DATA

*PH1424H41**

MODEL: *PH1424H41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

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

Outdoor Ambient Temperature																																			
65						75						85						95						105						115					
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	59	63	67	71		
	MBh	23.9	24.8	27.2	-	23.4	24.2	26.5	-	22.8	23.6	25.9	-	22.2	23.1	25.3	-	21.1	21.9	24.0	-	19.6	20.3	22.2	-										
	S/T	0.75	0.62	0.43	-	0.77	0.65	0.45	-	0.79	0.66	0.46	-	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-										
	Delta T	17	15	11	-	17	15	11	-	17	15	11	-	18	15	12	-	17	15	11	-	16	14	11	-										
	KW	1.54	1.57	1.62	-	1.66	1.70	1.75	-	1.77	1.81	1.87	-	1.86	1.91	1.97	-	1.95	1.99	2.06	-	2.02	2.06	2.13	-										
	AMPS	6.4	6.5	6.7	-	6.8	7.0	7.2	-	7.4	7.6	7.8	-	7.9	8.0	8.3	-	8.3	8.5	8.8	-	8.8	9.0	9.3	-										
	HI PR	236	253	268	-	264	284	300	-	301	323	342	-	342	368	389	-	385	414	438	-	425	458	484	-										
	LO PR	111	118	129	-	117	125	136	-	122	129	141	-	128	136	148	-	134	143	156	-	139	147	161	-										
	MBh	23.2	24.1	26.4	-	22.7	23.5	25.7	-	22.1	22.9	25.1	-	21.6	22.4	24.5	-	20.5	21.3	23.3	-	19.0	19.7	21.6	-										
	S/T	0.71	0.59	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	-										
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-										
70	KW	1.52	1.56	1.61	-	1.65	1.68	1.74	-	1.75	1.79	1.85	-	1.85	1.89	1.96	-	1.93	1.97	2.04	-	2.00	2.05	2.12	-										
	AMPS	6.3	6.5	6.6	-	6.8	6.9	7.1	-	7.3	7.5	7.7	-	7.8	8.0	8.2	-	8.3	8.5	8.7	-	8.7	8.9	9.2	-										
	HI PR	233	251	265	-	262	282	297	-	298	320	338	-	339	365	385	-	381	410	433	-	421	453	479	-										
	LO PR	110	117	127	-	116	123	135	-	120	128	140	-	127	135	147	-	133	141	154	-	137	146	159	-										
	MBh	21.4	22.2	24.3	-	20.9	21.7	23.8	-	20.4	21.2	23.2	-	19.9	20.7	22.6	-	18.9	19.6	21.5	-	17.5	18.2	19.9	-										
	S/T	0.69	0.57	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.79	0.66	0.46	-										
	Delta T	18	16	12	-	18	16	12	-	18	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-										
	KW	1.49	1.52	1.57	-	1.60	1.64	1.69	-	1.71	1.75	1.81	-	1.80	1.84	1.90	-	1.88	1.92	1.99	-	1.95	1.99	2.06	-										
	AMPS	6.2	6.3	6.5	-	6.6	6.8	7.0	-	7.1	7.3	7.5	-	7.6	7.8	8.0	-	8.1	8.2	8.5	-	8.5	8.7	9.0	-										
	HI PR	226	243	257	-	254	273	288	-	289	311	328	-	329	354	374	-	370	398	420	-	409	440	464	-										
	LO PR	106	113	124	-	112	120	131	-	117	124	136	-	123	131	143	-	129	137	149	-	133	142	155	-										

955	MBh	24.3	25.0	27.1	29.1	23.7	24.5	26.5	28.4	23.2	23.9	25.8	27.7	22.6	23.3	25.2	27.1	21.5	22.1	23.9	25.7	19.9	20.5	22.2	23.8
	S/T	0.85	0.76	0.57	0.37	0.88	0.79	0.60	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.41	0.97	0.86	0.65	0.42	0.97	0.87	0.66	0.42
	Delta T	20	18	15	10	20	19	15	10	20	19	15	10	20	19	15	11	20	18	15	10	19	17	14	10
	KW	1.55	1.58	1.64	1.69	1.67	1.71	1.77	1.83	1.78	1.82	1.89	1.95	1.88	1.92	1.99	2.06	1.96	2.01	2.08	2.15	2.03	2.08	2.15	2.23
	AMPS	6.4	6.6	6.8	7.0	6.9	7.1	7.3	7.5	7.5	7.6	7.9	8.1	7.9	8.1	8.4	8.7	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.7
850	HI PR	238	256	270	282	267	287	303	316	304	327	345	360	346	372	393	410	389	419	442	461	430	463	488	509
	LO PR	112	119	130	138	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	163	173
	MBh	23.6	24.3	26.3	28.2	23.1	23.7	25.7	27.6	22.5	23.2	25.1	26.9	22.0	22.6	24.5	26.3	20.9	21.5	23.2	25.0	19.3	19.9	21.5	23.1
	S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.37	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.93	0.83	0.63	0.40
	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	19	18	15	10
745	KW	1.54	1.57	1.62	1.68	1.66	1.70	1.75	1.81	1.77	1.81	1.87	1.93	1.86	1.91	1.97	2.04	1.95	1.99	2.06	2.13	2.02	2.06	2.13	2.21
	AMPS	6.4	6.5	6.7	6.9	6.8	7.0	7.2	7.5	7.4	7.6	7.8	8.1	7.9	8.0	8.3	8.6	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.6
	HI PR	236	253	268	279	264	284	300	313	301	323	342	356	342	368	389	406	385	415	438	457	426	458	484	504
	LO PR	111	118	129	137	117	125	136	145	122	129	141	151	128	136	149	158	134	143	156	166	139	147	161	171
	MBh	21.8	22.4	24.3	26.1	21.3	21.9	23.7	25.5	20.8	21.4	23.2	24.8	20.3	20.9	22.6	24.2	19.3	19.8	21.5	23.0	17.8	18.4	19.9	21.3

* 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

MODEL: *PH1424H41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 10 ± 2 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 9 ± 2°F @ the compressor suction access fitting connection.

Outdoor Ambient Temperature										105										115									
65					75					85					95					105					115				
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	MBh	24.7	25.3	27.0	28.9	24.2	24.7	26.4	28.2	23.6	24.1	25.8	27.5	23.0	23.5	25.1	26.9	21.9	22.3	23.9	25.5	20.3	20.7	22.1	23.6	20.3	20.7	22.1	23.6
	S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.74	0.55	1.00	0.93	0.76	0.56	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.82	0.61	1.00	1.00	0.82	0.61
	Delta T	22	21	18	15	22	22	19	15	23	22	19	15	22	22	19	15	21	22	19	15	19	20	17	14	20.5	2.10	2.17	2.25
	KW	1.56	1.60	1.65	1.71	1.69	1.73	1.78	1.84	1.80	1.84	1.90	1.97	1.90	1.94	2.01	2.08	1.98	2.03	2.10	2.17	2.05	2.10	2.17	2.25	2.05	2.10	2.17	2.25
	AMPS	6.5	6.6	6.8	7.1	7.0	7.1	7.3	7.6	7.5	7.7	7.9	8.2	8.0	8.2	8.4	8.7	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8	9.0	9.2	9.5	9.8
	Hi PR	240	259	273	285	270	290	306	320	307	330	349	363	349	376	397	414	393	423	447	466	434	467	493	515	434	467	493	515
	LO PR	113	120	131	140	119	127	139	148	124	132	144	154	130	139	152	161	137	145	159	169	141	150	164	175	141	150	164	175
	MBh	24.0	24.6	26.2	28.0	23.5	24.0	25.6	27.4	22.9	23.4	25.0	26.7	22.4	22.8	24.4	26.1	21.2	21.7	23.2	24.8	19.7	20.1	21.5	23.0	19.7	20.1	21.5	23.0
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.58
	Delta T	23	22	19	15	23	22	19	16	23	22	19	16	24	23	20	16	23	22	19	15	21	21	18	14	21	21	18	14
	KW	1.55	1.58	1.64	1.69	1.67	1.71	1.77	1.83	1.78	1.82	1.89	1.95	1.88	1.92	1.99	2.06	1.96	2.01	2.08	2.15	2.03	2.08	2.15	2.23	2.03	2.08	2.15	2.23
85	AMPS	6.4	6.6	6.8	7.0	6.9	7.1	7.3	7.5	7.5	7.6	7.9	8.1	7.9	8.1	8.4	8.7	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.7	8.9	9.1	9.4	9.7
	Hi PR	238	256	270	282	267	287	303	316	304	327	345	360	346	372	393	410	389	419	442	461	430	463	488	510	430	463	488	510
	LO PR	112	119	130	139	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	163	173	140	149	163	173
	MBh	22.2	22.7	24.2	25.9	21.7	22.1	23.6	25.3	21.1	21.6	23.1	24.7	20.6	21.1	22.5	24.1	19.6	20.0	21.4	22.9	18.2	18.6	19.8	21.2	18.2	18.6	19.8	21.2
	S/T	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.85	0.69	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.56	0.98	0.92	0.75	0.56	0.98	0.92	0.75	0.56
	Delta T	23	22	20	16	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	22	21	18	15	22	21	18	15
	KW	1.51	1.54	1.60	1.65	1.63	1.67	1.72	1.78	1.74	1.78	1.84	1.90	1.83	1.87	1.94	2.00	1.91	1.96	2.02	2.09	1.98	2.03	2.10	2.17	1.98	2.03	2.10	2.17
	AMPS	6.3	6.4	6.6	6.8	6.7	6.9	7.1	7.3	7.3	7.4	7.7	7.9	7.7	7.9	8.2	8.4	8.2	8.4	8.6	8.9	8.7	8.9	9.1	9.5	8.7	8.9	9.1	9.5
	Hi PR	231	248	262	274	259	279	294	307	295	317	335	349	335	361	381	398	377	406	429	447	417	449	474	494	417	449	474	494
	LO PR	109	116	126	134	115	122	133	142	119	127	139	148	125	133	146	155	131	140	152	162	136	144	158	168	136	144	158	168

NOTE: Shaded area reflects ARI rating conditions

85	955	MBh	25.2	25.7	26.9	28.7	24.6	25.1	26.3	28.0	24.0	24.5	25.6	27.3	23.4	23.9	25.0	26.7	22.3	22.7	23.8	25.3	20.6	21.0	22.0	23.5
		S/T	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79
		Delta T	24	23	22	19	24	24	22	19	23	24	22	19	23	23	22	19	21	22	22	19	20	20	21	18
		KW	1.58	1.61	1.66	1.72	1.70	1.74	1.80	1.86	1.81	1.86	1.92	1.98	1.91	1.96	2.02	2.09	2.00	2.04	2.11	2.19	2.07	2.12	2.19	2.27
		AMPS	6.5	6.7	6.9	7.1	7.0	7.2	7.4	7.7	7.6	7.8	8.0	8.3	8.1	8.3	8.5	8.8	8.6	8.8	9.0	9.4	9.0	9.3	9.5	9.9
		Hi PR	243	261	276	288	272	293	309	323	310	333	352	367	353	380	401	418	397	427	451	470	439	472	498	520
		LO PR	114	122	133	141	121	128	140	149	125	133	146	155	132	140	153	163	138	147	160	171	143	152	166	177
		MBh	24.4	24.9	26.1	27.8	23.9	24.3	25.5	27.2	23.3	23.8	24.9	26.5	22.7	23.2	24.3	25.9	21.6	22.0	23.1	24.6	20.0	20.4	21.4	22.8
		S/T	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.76
		Delta T	25	24	23	20	25	25	23	20	25	25	23	20	25	25	23	20	23	24	23	20	22	22	22	19
850		KW	1.56	1.60	1.65	1.71	1.69	1.73	1.78	1.84	1.80	1.84	1.90	1.97	1.90	1.94	2.01	2.08	1.98	2.03	2.10	2.17	2.05	2.10	2.17	2.25
		AMPS	6.5	6.6	6.8	7.1	7.0	7.1	7.3	7.6	7.5	7.7	7.9	8.2	8.0	8.2	8.4	8.7	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.8
		Hi PR	240	259	273	285	270	290	306	320	307	330	349	363	349	376	397	414	393	423	447	466	434	467	493	515
		LO PR	113	120	131	140	119	127	139	148	124	132	144	154	130	139	152	161	137	145	159	169	141	150	164	175
		MBh	22.6	23.0	24.1	25.7	22.0	22.5	23.5	25.1	21.5	21.9	23.0	24.5	21.0	21.4	22.4	23.9	19.9	20.3	21.3	22.7	18.5	18.8	19.7	21.0
		S/T	0.90	0.87	0.78	0.63	0.93	0.90	0.81	0.66	0.95	0.92	0.83	0.67	0.98	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	0.99	0.90	0.73
		Delta T	25	25	23	20	25	25	24	20	25	25	24	20	26	25	24	21	25	25	23	20	23	23	22	19
		KW	1.52	1.56	1.61	1.66	1.65	1.68	1.74	1.80	1.75	1.79	1.85	1.92	1.85	1.89	1.95	2.02	1.93	1.97	2.04	2.11	2.00	2.04	2.11	2.19
		AMPS	6.3	6.5	6.6	6.9	6.8	6.9	7.1	7.4	7.3	7.5	7.7	8.0	7.8	8.0	8.2	8.5	8.3	8.5	8.7	9.0	8.7	8.9	9.2	9.5
		Hi PR	233	251	265	276	262	281	297	310	297	320	338	353	339	365	385	402	381	410	433	452	421	453	479	499
LO PR	110	117	127	136	116	123	135	143	120	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170		

COOLING PERFORMANCE DATA

*PH1430H41**

MODEL: *PH1430H41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 8 ± 2 °F @ the liquid access fitting connection AHR 95 test conditions. Design Superheat 5 ± 2 °F @ the compressor suction access fitting connection.

			65										75										85										95										105										115									
			Outdoor Ambient Temperature																																																											
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																				
	1180	MBh	29.0	30.1	32.9	-	28.3	29.4	32.2	-	27.7	28.7	31.4	-	27.0	28.0	30.6	-	25.6	26.6	29.1	-	25.6	26.6	29.1	-	23.7	24.6	27.0	-	23.7	24.6	27.0	-	23.7	24.6	27.0	-	23.7	24.6	27.0	-																				
		S/T	0.80	0.67	0.46	-	0.83	0.69	0.48	-	0.85	0.71	0.49	-	0.87	0.73	0.51	-	0.91	0.76	0.53	-	0.91	0.76	0.53	-	0.92	0.76	0.53	-	0.92	0.76	0.53	-	0.92	0.76	0.53	-	0.92	0.76	0.53	-																				
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-																				
		KW	1.88	1.92	1.98	-	2.03	2.07	2.14	-	2.16	2.21	2.28	-	2.27	2.32	2.40	-	2.37	2.42	2.51	-	2.37	2.42	2.51	-	2.46	2.51	2.60	-	2.46	2.51	2.60	-	2.46	2.51	2.60	-	2.46	2.51	2.60	-																				
		AMPS	7.8	8.0	8.2	-	8.4	8.6	8.8	-	9.1	9.3	9.6	-	9.6	9.9	10.2	-	10.2	10.5	10.8	-	10.2	10.5	10.8	-	10.8	11.0	11.4	-	10.8	11.0	11.4	-	10.8	11.0	11.4	-	10.8	11.0	11.4	-																				
		HPR	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	396	426	450	-	437	471	497	-	437	471	497	-	437	471	497	-	437	471	497	-																				
		LO PR	116	123	135	-	123	130	142	-	127	136	148	-	134	142	155	-	140	149	163	-	140	149	163	-	145	154	168	-	145	154	168	-	145	154	168	-	145	154	168	-																				
	1050	MBh	28.2	29.2	32.0	-	27.5	28.5	31.2	-	26.9	27.8	30.5	-	26.2	27.2	29.7	-	24.9	25.8	28.3	-	24.9	25.8	28.3	-	23.1	23.9	26.2	-	23.1	23.9	26.2	-	23.1	23.9	26.2	-	23.1	23.9	26.2	-																				
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.87	0.72	0.50	-	0.87	0.72	0.50	-	0.87	0.73	0.50	-	0.87	0.73	0.50	-	0.87	0.73	0.50	-	0.87	0.73	0.50	-																				
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	17	13	-	19	16	12	-	19	16	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-																				
		KW	1.87	1.91	1.97	-	2.01	2.06	2.12	-	2.14	2.19	2.26	-	2.25	2.30	2.38	-	2.35	2.40	2.48	-	2.35	2.40	2.48	-	2.43	2.49	2.57	-	2.43	2.49	2.57	-	2.43	2.49	2.57	-	2.43	2.49	2.57	-																				
		AMPS	7.8	7.9	8.2	-	8.3	8.5	8.8	-	9.0	9.2	9.5	-	9.6	9.8	10.1	-	10.1	10.4	10.7	-	10.1	10.4	10.7	-	10.7	10.9	11.3	-	10.7	10.9	11.3	-	10.7	10.9	11.3	-	10.7	10.9	11.3	-																				
		HPR	240	258	272	-	269	289	306	-	306	329	348	-	348	375	396	-	392	422	445	-	392	422	445	-	433	466	492	-	433	466	492	-	433	466	492	-	433	466	492	-																				
		LO PR	115	122	133	-	121	129	141	-	126	134	146	-	132	141	154	-	139	148	161	-	139	148	161	-	144	153	167	-	144	153	167	-	144	153	167	-	144	153	167	-																				
	920	MBh	26.0	26.9	29.5	-	25.4	26.3	28.8	-	24.8	25.7	28.1	-	24.2	25.1	27.5	-	23.0	23.8	26.1	-	23.0	23.8	26.1	-	21.3	22.1	24.2	-	21.3	22.1	24.2	-	21.3	22.1	24.2	-	21.3	22.1	24.2	-																				
		S/T	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.78	0.65	0.45	-	0.80	0.67	0.47	-	0.83	0.70	0.48	-	0.83	0.70	0.48	-	0.84	0.70	0.49	-	0.84	0.70	0.49	-	0.84	0.70	0.49	-	0.84	0.70	0.49	-																				
		Delta T	19	16	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-																				
		KW	1.82	1.86	1.92	-	1.96	2.00	2.07	-	2.09	2.13	2.20	-	2.20	2.25	2.32	-	2.29	2.34	2.42	-	2.29	2.34	2.42	-	2.37	2.43	2.51	-	2.37	2.43	2.51	-	2.37	2.43	2.51	-	2.37	2.43	2.51	-																				
		AMPS	7.6	7.7	8.0	-	8.1	8.3	8.6	-	8.8	9.0	9.2	-	9.3	9.5	9.8	-	9.9	10.1	10.4	-	9.9	10.1	10.4	-	10.4	10.7	11.0	-	10.4	10.7	11.0	-	10.4	10.7	11.0	-	10.4	10.7	11.0	-																				
		HPR	233	250	264	-	261	281	296	-	297	319	337	-	338	364	384	-	380	409	432	-	380	409	432	-	420	452	477	-	420	452	477	-	420	452	477	-	420	452	477	-																				
		LO PR	111	119	129	-	118	125	137	-	122	130	142	-	128	137	149	-	135	143	156	-	135	143	156	-	139	148	162	-	139	148	162	-	139	148	162	-	139	148	162	-																				

75																																										
1180	MBh	29.5	30.4	32.9	35.3	28.8	29.7	32.1	34.5	28.1	29.0	31.3	33.6	27.4	28.3	30.6	32.8	26.1	26.8	29.1	31.2	24.1	24.9	26.9	28.9	21.9	22.8	25.3	27.7	21.9	22.8	25.3	27.7									
	S/T	0.91	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.96	0.86	0.65	0.42	0.99	0.89	0.67	0.43	1.00	0.92	0.70	0.45	1.00	0.93	0.70	0.45	1.00	0.93	0.70	0.45	1.00	0.93	0.70	0.45									
	Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	20	16	11	20	19	16	11	19	18	15	10	19	18	15	10	19	18	15	10									
	KW	1.90	1.94	2.00	2.07	2.05	2.09	2.16	2.23	2.30	2.18	2.23	2.30	2.38	2.29	2.34	2.42	2.51	2.39	2.45	2.53	2.61	2.48	2.53	2.62	2.71	2.59	2.65	2.73	2.61	2.67	2.75	2.63									
	AMPS	7.9	8.1	8.3	8.6	8.5	8.7	8.9	9.2	9.1	9.4	9.6	10.0	9.7	9.9	10.3	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9	11.3	11.6	12.0	11.4	11.8	12.2	11.6	12.0									
	H FPR	245	263	278	290	274	295	312	325	312	336	355	370	355	383	404	421	400	430	454	474	442	476	502	524	488	518	548	578	548	578	608	578	608								
	LO FPR	117	125	136	145	124	132	144	153	129	137	149	159	135	144	157	167	142	151	165	175	147	156	170	181	155	164	173	183	171	180	189	177	186								
1060	MBh	28.6	29.5	31.9	34.3	28.0	28.8	31.2	33.5	27.3	28.1	30.4	32.7	26.6	27.4	29.7	31.9	25.3	26.1	28.2	30.3	23.4	24.1	26.1	28.0	21.5	22.4	24.5	26.6	21.5	22.4	24.5	26.6	21.5	22.4	24.5	26.6					
	S/T	0.86	0.77	0.58	0.38	0.90	0.80	0.61	0.39	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.98	0.88	0.67	0.43	0.99	0.89	0.67	0.43	1.00	0.90	0.69	0.48	0.99	0.89	0.67	0.43	1.00	0.90	0.69	0.48					
	Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	12	22	20	16	11	20	19	15	11	19	18	14	19	17	13	18	16	12	17	13	18					
	KW	1.88	1.92	1.98	2.05	2.03	2.07	2.14	2.21	2.16	2.21	2.28	2.36	2.27	2.32	2.40	2.48	2.37	2.42	2.51	2.59	2.46	2.51	2.60	2.69	2.57	2.62	2.71	2.59	2.64	2.73	2.61	2.66	2.75	2.63	2.68						
	AMPS	7.8	8.0	8.2	8.5	8.4	8.6	8.9	9.2	9.1	9.3	9.6	9.9	9.6	9.9	10.2	10.5	10.2	10.5	10.8	11.2	10.8	11.0	11.4	11.8	11.1	11.4	11.8	12.1	11.5	11.9	12.2	11.6	12.0	12.3	11.7	12.1					
	H FPR	242	261	275	287	272	292	309	322	309	333	351	366	352	379	400	417	396	426	450	469	437	471	497	519	481	511	541	511	541	571	541	571	601	571	601						
	LO FPR	116	123	135	144	123	130	142	152	127	136	148	158	134	142	155	166	140	149	163	173	145	154	168	179	151	160	174	184	172	181	190	178	187	196	184	193					
920	MBh	26.4	27.2	29.5	31.6	25.8	26.6	28.8	30.9	25.2	25.9	28.1	30.1	24.6	25.3	27.4	29.4	23.4	24.1	26.0	27.9	21.6	22.3	24.1	25.9	20.1	20.8	22.6	24.4	20.1	20.8	22.6	24.4	20.1	20.8	22.6	24.4	20.1	20.8	22.6	24.4	
	S/T	0.83	0.75	0.56	0.36	0.86	0.77	0.58	0.38	0.89	0.79	0.60	0.39	0.91	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.45	0.98	0.88	0.66	0.44	0.99	0.89	0.67	0.43	1.00	0.91	0.70	0.46	
	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	19	18	14	19	17	13	18	16	12	17	13	18	16	12	17	13	18
	KW	1.84	1.87	1.93	2.00	1.98	2.02	2.09	2.16	2.10	2.15	2.22	2.30	2.22	2.27	2.34	2.42	2.31	2.36	2.44	2.53	2.39	2.45	2.53	2.62	2.50	2.56	2.64	2.72	2.60	2.66	2.74	2.62	2.68	2.76	2.64	2.70	2.78	2.66	2.72	2.80	
	AMPS	7.6	7.8	8.0	8.3	8.2	8.4	8.6	8.9	8.8	9.0	9.3	9.6	9.4	9.6	9.9	10.3	10.0	10.2	10.5	10.9	10.5	10.8	11.1	11.5	10.8	11.1	11.5	11.8	12.1	11.5	11.9	12.2	11.6	12.0	12.3	11.7	12.1	12.4	11.8	12.2	12.5
	H FPR	235	253	267	278	264	284	300	312	300	323	341	355	341	367	388	405	384	413	436	455	424	457	482	503	466	496	526	556	526	556	586	556	586	616	586	616	646	616	646		
	LO FPR	113	120	131	139	119	127	138	147	124	131	144	153	130	138	151	161	136	145	158	168	141	150	163	174	143	152	165	178	188	176	185	198	186	195	208	196	205	218	206	215	228

Design Subcooling, 8 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5 ± 2 °F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																105																115															
			65								75								85								95								105								115							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																
	1180	MBh	30.0	30.7	32.8	35.0	29.3	30.0	32.0	34.2	28.6	29.3	31.3	33.4	27.9	28.5	30.5	32.6	26.5	27.1	29.0	31.0	24.6	25.1	26.8	28.7																								
		S/T	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.81	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.86	0.65	1.00	1.00	0.87	0.65																								
		Delta T	23	22	19	15	23	23	20	16	22	23	20	16	22	22	20	16	21	21	19	16	19	20	18	15																								
		KW	1.91	1.95	2.02	2.08	2.06	2.11	2.18	2.25	2.19	2.24	2.32	2.40	2.31	2.36	2.44	2.53	2.41	2.47	2.55	2.64	2.50	2.56	2.64	2.73																								
		AMPS	8.0	8.1	8.4	8.7	8.5	8.7	9.0	9.3	9.2	9.4	9.7	10.1	9.8	10.0	10.3	10.7	10.4	10.6	11.0	11.4	11.0	11.2	11.6	12.0																								
		HPR	247	266	281	293	277	298	315	329	315	339	358	374	359	386	408	426	404	435	459	479	446	480	507	529																								
		LOPR	118	126	137	146	125	133	145	155	130	138	151	161	137	145	159	169	143	152	166	177	148	157	172	183																								
		MBh	29.1	29.8	31.8	34.0	28.5	29.1	31.1	33.2	27.8	28.4	30.3	32.4	27.1	27.7	29.6	31.6	25.8	26.3	28.1	30.1	23.9	24.4	26.0	27.8																								
		S/T	0.95	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	0.98	0.79	0.59	1.00	1.00	0.82	0.62	1.00	1.00	0.83	0.62																								
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	24	21	16	23	23	20	16	21	21	19	15																								
80	1050	KW	1.90	1.94	2.00	2.07	2.05	2.09	2.16	2.23	2.18	2.23	2.30	2.38	2.29	2.34	2.42	2.51	2.39	2.45	2.53	2.62	2.48	2.53	2.62	2.71																								
		AMPS	7.9	8.1	8.3	8.6	8.5	8.7	8.9	9.2	9.1	9.4	9.6	10.0	9.7	10.0	10.3	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9																								
		HPR	245	263	278	290	274	295	312	325	312	336	355	370	356	383	404	421	400	430	455	474	442	476	502	524																								
		LOPR	117	125	136	145	124	132	144	153	129	137	149	159	135	144	157	167	142	151	165	175	147	156	170	181																								
		MBh	26.9	27.5	29.4	31.4	26.3	26.9	28.7	30.7	25.7	26.2	28.0	29.9	25.0	25.6	27.3	29.2	23.8	24.3	26.0	27.7	22.0	22.5	24.0	25.7																								
	920	S/T	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.04	0.98	0.79	0.59	1.05	0.98	0.80	0.60																								
		Delta T	25	24	20	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	16	23	22	19	15																								
		KW	1.85	1.89	1.95	2.01	1.99	2.04	2.10	2.17	2.12	2.17	2.24	2.32	2.23	2.28	2.36	2.44	2.33	2.38	2.46	2.55	2.41	2.47	2.55	2.64																								
		AMPS	7.7	7.9	8.1	8.4	8.3	8.4	8.7	9.0	8.9	9.1	9.4	9.7	9.5	9.7	10.0	10.3	10.0	10.3	10.6	11.0	10.6	10.8	11.2	11.6																								
		HPR	237	255	270	281	266	286	303	316	303	326	344	359	345	371	392	409	388	417	441	460	429	461	487	508																								
		LOPR	114	121	132	141	120	128	139	149	125	133	145	154	131	139	152	162	137	146	160	170	142	151	165	176																								

NOTE: Shaded area reflects AHRI rating conditions																													
85	1180	MBh	30.5	31.1	32.6	34.8	29.8	30.4	31.9	34.0	29.1	29.7	31.1	33.2	28.4	29.0	30.3	32.4	27.0	27.5	28.8	30.7	25.0	25.5	26.7	28.5			
		S/T	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.96	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.84	1.00	1.00	1.00	0.85			
		Delta T	24	24	23	20	23	24	23	20	23	23	23	20	22	23	23	24	20	21	21	22	20	19	20	21	19		
		KW	1.93	1.97	2.03	2.10	2.08	2.13	2.19	2.27	2.21	2.26	2.34	2.42	2.33	2.38	2.46	2.55	2.43	2.49	2.57	2.66	2.52	2.58	2.66	2.76			
		AMPS	8.0	8.2	8.4	8.7	8.6	8.8	9.1	9.4	9.3	9.5	9.8	10.2	9.9	10.1	10.4	10.8	10.5	10.7	11.1	11.5	11.1	11.3	11.7	12.1			
	HPR	250	269	284	296	280	301	318	332	318	343	362	377	363	390	412	430	408	439	464	484	451	485	512	534				
	LOPR	120	127	139	148	126	134	147	156	131	140	152	162	138	147	160	171	145	154	168	179	149	159	174	185				
	MBh	29.0	30.2	31.7	33.8	29.0	29.5	30.9	33.0	28.3	28.8	30.2	32.2	27.6	28.1	29.5	31.4	26.2	26.7	28.0	29.8	24.3	24.7	25.9	27.7				
	S/T	0.99	0.96	0.87	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	0.99	0.81				
	Delta T	26	25	24	21	25	26	24	21	25	25	24	21	24	25	24	21	23	23	24	21	21	22	23	20				
1050	KW	1.91	1.95	2.02	2.08	2.06	2.11	2.18	2.25	2.19	2.24	2.32	2.40	2.31	2.36	2.44	2.53	2.41	2.47	2.55	2.64	2.50	2.56	2.64	2.73				
	AMPS	8.0	8.1	8.4	8.7	8.5	8.7	9.0	9.3	9.2	9.4	9.7	10.1	9.8	10.0	10.3	10.7	10.4	10.6	11.0	11.4	11.0	11.2	11.6	12.0				
	HPR	247	266	281	293	277	298	315	329	315	339	358	374	359	386	408	426	404	435	459	479	446	480	507	529				
	LOPR	118	126	137	146	125	133	145	155	130	138	151	161	137	145	159	169	143	152	166	177	148	157	172	183				
	MBh	27.4	27.9	29.2	31.2	26.7	27.3	28.5	30.5	26.1	26.6	27.9	29.7	25.5	26.0	27.2	29.0	24.2	24.7	25.8	27.6	22.4	22.8	23.9	25.5				
920	S/T	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78				
	Delta T	26	26	24	21	27	26	25	21	26	26	25	21	25	26	25	22	24	25	25	21	22	23	23	20				
	KW	1.87	1.91	1.97	2.03	2.01	2.06	2.12	2.19	2.14	2.19	2.26	2.34	2.25	2.30	2.38	2.46	2.35	2.40	2.48	2.57	2.43	2.49	2.57	2.66				
	AMPS	7.8	7.9	8.2	8.4	8.3	8.5	8.8	9.1	9.0	9.2	9.5	9.8	9.6	9.8	10.1	10.4	10.1	10.4	10.7	11.1	10.7	10.9	11.3	11.7				
	HPR	240	258	272	284	269	289	306	319	306	329	348	362	348	375	396	413	392	422	445	464	433	466	492	513				
LOPR	115	122	133	142	121	129	141	150	126	134	146	156	132	141	154	164	161	139	148	161	172	144	153	167	178				

COOLING PERFORMANCE DATA

*PH1436H41**

MODEL: *PH1436H41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 11± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5 ± 2°F @ the compressor suction access fitting connection.

		Outdoor Ambient Temperature										105										115																			
		65										75										85										95									
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71												
70	1350	MBh	35.3	36.6	40.1	-	34.5	35.7	39.1	-	33.6	34.9	38.2	-	32.8	34.0	37.3	-	31.2	32.3	35.4	-	28.9	29.9	32.8	-	28.9	29.9	32.8	-											
		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	-											
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-											
		KW	2.37	2.42	2.50	-	2.56	2.61	2.70	-	2.72	2.78	2.87	-	2.86	2.93	3.02	-	2.99	3.05	3.16	-	3.09	3.16	3.27	-	3.09	3.16	3.27	-											
		AMPS	9.9	10.1	10.4	-	10.7	10.9	11.2	-	11.5	11.7	12.1	-	12.2	12.5	12.9	-	12.9	13.2	13.6	-	13.6	14.0	14.4	-	13.6	14.0	14.4	-											
		HiPR	246	265	280	-	277	298	314	-	315	338	357	-	358	386	407	-	403	434	458	-	445	479	506	-	445	479	506	-											
		LOPR	112	120	131	-	119	126	138	-	123	131	143	-	130	138	151	-	136	145	158	-	141	149	163	-	141	149	163	-											
70	1200	MBh	34.2	35.5	38.9	-	33.5	34.7	38.0	-	32.7	33.8	37.1	-	31.9	33.0	36.2	-	30.3	31.4	34.4	-	28.0	29.1	31.8	-	28.0	29.1	31.8	-											
		S/T	0.73	0.61	0.42	-	0.76	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	-											
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-	18	16	12	-											
		KW	2.35	2.40	2.48	-	2.53	2.59	2.67	-	2.70	2.76	2.85	-	2.84	2.90	3.00	-	2.96	3.03	3.13	-	3.07	3.13	3.24	-	3.07	3.13	3.24	-											
		AMPS	9.9	10.1	10.4	-	10.6	10.8	11.1	-	11.4	11.6	12.0	-	12.1	12.4	12.8	-	12.8	13.1	13.5	-	13.5	13.8	14.3	-	13.5	13.8	14.3	-											
		HiPR	244	263	277	-	274	295	311	-	311	335	354	-	355	382	403	-	399	429	453	-	441	474	501	-	441	474	501	-											
		LOPR	111	118	129	-	118	125	137	-	122	130	142	-	128	137	149	-	134	143	156	-	139	148	162	-	139	148	162	-											
		MBh	31.6	32.8	35.9	-	30.9	32.0	35.1	-	30.1	31.2	34.2	-	29.4	30.5	33.4	-	27.9	29.0	31.7	-	25.9	26.8	29.4	-	25.9	26.8	29.4	-											
		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	-											
		Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	18	16	12	-											
		KW	2.29	2.34	2.42	-	2.47	2.53	2.61	-	2.63	2.69	2.78	-	2.77	2.83	2.92	-	2.89	2.95	3.05	-	2.99	3.05	3.16	-	2.99	3.05	3.16	-											
		AMPS	9.6	9.8	10.1	-	10.3	10.5	10.8	-	11.1	11.4	11.7	-	11.8	12.1	12.4	-	12.5	12.8	13.2	-	13.2	13.5	13.9	-	13.2	13.5	13.9	-											
		HiPR	237	255	269	-	266	286	302	-	302	325	343	-	344	370	391	-	387	417	440	-	428	460	486	-	428	460	486	-											
		LOPR	108	115	125	-	114	121	132	-	119	126	138	-	124	132	145	-	130	139	152	-	135	144	157	-	135	144	157	-											

		75																													
		1350																													
MBh	35.9	36.9	40.0	42.9	35.0	36.1	39.1	41.9	34.2	35.2	38.1	40.9	33.4	34.4	37.2	39.9	31.7	32.6	35.3	37.9	29.4	30.2	32.7	35.1	29.4	30.2	32.7	35.1			
S/T	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.92	0.83	0.62	0.40	0.95	0.85	0.65	0.41	0.99	0.88	0.67	0.43	1.00	0.89	0.68	0.43	1.00	0.89	0.68	0.43			
Delta T	21	20	16	11	21	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	20	18	15	10			
KW	2.39	2.44	2.52	2.60	2.58	2.63	2.72	2.81	2.74	2.80	2.90	2.99	2.89	2.95	3.05	3.15	3.01	3.08	3.18	3.29	3.12	3.19	3.30	3.41	3.12	3.19	3.30	3.41			
AMPS	10.0	10.2	10.5	10.9	10.7	11.0	11.3	11.7	11.6	11.8	12.2	12.6	12.3	12.6	13.0	13.4	13.0	13.3	13.8	14.2	13.8	14.1	14.5	15.0	13.8	14.1	14.5	15.0			
Hi PR	249	268	283	295	279	301	317	331	318	342	361	377	362	389	411	429	407	438	463	483	450	484	511	533	450	484	511	533			
LO PR	114	121	132	140	120	128	139	148	125	133	145	154	131	139	152	162	137	146	159	170	142	151	165	176	142	151	165	176			
MBh	34.8	35.9	38.8	41.7	34.0	35.0	37.9	40.7	33.2	34.2	37.0	39.7	32.4	33.4	36.1	38.8	30.8	31.7	34.3	36.8	28.5	29.4	31.8	34.1	28.5	29.4	31.8	34.1			
S/T	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.88	0.79	0.60	0.38	0.91	0.81	0.62	0.40	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41	0.95	0.85	0.64	0.41			
Delta T	22	20	17	12	22	21	17	12	22	21	17	12	23	21	17	12	22	20	17	12	21	19	16	11	21	19	16	11			
KW	2.37	2.42	2.50	2.58	2.56	2.61	2.70	2.79	2.72	2.78	2.87	2.97	2.86	2.93	3.03	3.13	2.99	3.05	3.16	3.26	3.09	3.16	3.27	3.38	3.09	3.16	3.27	3.38			
AMPS	9.9	10.1	10.4	10.8	10.7	10.9	11.2	11.6	11.5	11.7	12.1	12.5	12.2	12.5	12.9	13.3	12.9	13.2	13.6	14.1	13.6	14.0	14.4	14.9	13.6	14.0	14.4	14.9			
Hi PR	247	265	280	292	277	298	314	328	315	339	358	373	358	386	407	425	403	434	458	478	445	479	506	528	445	479	506	528			
LO PR	112	120	131	139	119	126	138	147	123	131	143	153	130	138	151	160	136	145	158	168	141	150	163	174	141	150	163	174			
MBh	32.1	33.1	35.8	38.5	31.4	32.3	35.0	37.6	30.7	31.6	34.2	36.7	29.9	30.8	33.3	35.8	28.4	29.3	31.7	34.0	26.3	27.1	29.3	31.5	26.3	27.1	29.3	31.5			
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	0.92	0.82	0.62	0.40			
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	21	19	16	11			
KW	2.31	2.36	2.44	2.52	2.49	2.55	2.63	2.72	2.65	2.71	2.80	2.89	2.79	2.85	2.95	3.05	2.91	2.98	3.08	3.18	3.01	3.08	3.18	3.29	3.01	3.08	3.18	3.29			
AMPS	9.7	9.9	10.2	10.5	10.4	10.6	10.9	11.3	11.2	11.5	11.8	12.2	11.9	12.2	12.5	13.0	12.6	12.9	13.3	13.8	13.3	13.6	14.0	14.5	13.3	13.6	14.0	14.5			
Hi PR	239	257	272	283	268	289	305	318	305	328	347	362	348	374	395	412	391	421	444	463	432	465	491	512	432	465	491	512			
LO PR	109	116	127	135	115	123	134	142	120	127	139	148	126	134	146	156	132	140	153	163	136	145	158	169	136	145	158	169			

COOLING OPERATION

		NOTE: Shaded area reflects ARI rating conditions																								
		1350		1200		1050																				
85	1350	MBh	37.2	37.9	39.7	42.3	36.3	37.0	38.7	41.3	35.4	36.1	37.8	40.3	34.6	35.2	36.9	39.4	32.8	33.5	35.0	37.4	30.4	31.0	32.5	34.6
		S/T	1.00	0.96	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.81
		Delta T	25	25	23	20	25	25	24	21	24	25	24	21	24	24	24	21	22	23	24	20	21	21	22	19
		KW	2.43	2.48	2.56	2.65	2.62	2.68	2.76	2.86	2.79	2.85	2.94	3.04	2.94	3.00	3.10	3.21	3.06	3.13	3.24	3.35	3.17	3.24	3.35	3.47
		AMPS	10.2	10.4	10.7	11.1	10.9	11.2	11.5	11.9	11.8	12.0	12.4	12.8	12.5	12.8	13.2	13.7	13.3	13.6	14.0	14.5	14.0	14.3	14.8	15.3
	1200	H IRR	254	273	289	301	285	307	324	338	324	349	368	384	369	397	420	438	415	447	472	492	459	494	522	544
		LO IRR	116	123	135	143	122	130	142	151	127	135	148	157	134	142	155	165	140	149	163	173	145	154	168	179
		MBh	36.1	36.8	38.5	41.1	35.2	35.9	37.6	40.1	34.4	35.1	36.7	39.2	33.6	34.2	35.8	38.2	31.9	32.5	34.0	36.3	29.5	30.1	31.5	33.6
		S/T	0.95	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.77	1.00	1.00	0.95	0.77
		Delta T	26	26	24	21	27	26	25	21	26	26	25	21	26	26	25	22	24	25	25	21	23	23	23	20
1050	KW	2.41	2.46	2.54	2.62	2.60	2.66	2.74	2.83	2.76	2.83	2.92	3.02	2.91	2.98	3.08	3.18	3.04	3.11	3.21	3.32	3.14	3.22	3.33	3.44	
	AMPS	10.1	10.3	10.6	11.0	10.8	11.1	11.4	11.8	11.7	11.9	12.3	12.7	12.4	12.7	13.1	13.6	13.2	13.5	13.9	14.4	13.9	14.2	14.7	15.2	
	H IRR	252	271	286	298	282	304	321	334	321	345	365	380	366	393	415	433	411	443	467	487	454	489	516	539	
	LO IRR	115	122	133	142	121	129	141	150	126	134	146	156	132	141	154	164	139	147	161	171	143	153	167	177	
	MBh	33.3	33.9	35.5	37.9	32.5	33.1	34.7	37.0	31.7	32.4	33.9	36.2	31.0	31.6	33.1	35.3	29.4	30.0	31.4	33.5	27.3	27.8	29.1	31.0	
	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	26	25	22	27	27	25	22	27	27	25	22	27	27	25	22	26	26	25	22	24	24	23	20	
	KW	2.35	2.40	2.48	2.56	2.53	2.59	2.67	2.76	2.70	2.76	2.85	2.94	2.84	2.90	3.00	3.10	2.96	3.03	3.13	3.23	3.06	3.13	3.24	3.35	
	AMPS	9.9	10.1	10.4	10.7	10.6	10.8	11.1	11.5	11.4	11.6	12.0	12.4	12.1												

AMPS: Unit amps (comp. + evaporator + condenser fan motors)

COOLING PERFORMANCE DATA

*PH1442H41**

MODEL: *PH1442H41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 11 ± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 7 ± 2°F @ the compressor suction access fitting connection.

			65										75										85										95										105										115																																							
			Outdoor Ambient Temperature																														Entering Indoor Wet Bulb Temperature																														Entering Indoor Dry Bulb Temperature																													
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																																																		
70	1461	MBh	39.2	40.6	44.5	-	38.3	39.7	43.5	-	37.4	38.7	42.4	-	36.5	37.8	41.4	-	34.6	35.9	39.3	-	32.1	33.3	36.4	-	32.1	33.3	36.4	-	30.6	31.8	35.2	-	28.1	29.3	32.6	-	25.6	26.8	30.1	-	23.1	24.3	27.6	-																																														
		S/T	0.75	0.62	0.43	-	0.78	0.65	0.45	-	0.79	0.66	0.46	-	0.82	0.69	0.47	-	0.85	0.71	0.49	-	0.86	0.72	0.50	-	0.86	0.72	0.50	-	0.81	0.68	0.47	-	0.81	0.68	0.47	-	0.76	0.63	0.42	-	0.71	0.58	0.39	-																																														
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-	16	14	10	-	16	14	10	-	15	13	9	-	14	12	8	-																																														
		KW	2.62	2.67	2.76	-	2.82	2.88	2.97	-	3.00	3.06	3.16	-	3.16	3.23	3.33	-	3.29	3.36	3.48	-	3.41	3.48	3.60	-	3.41	3.48	3.60	-	3.34	3.41	3.53	-	3.26	3.33	3.45	-	3.19	3.26	3.38	-	3.12	3.19	3.31	-																																														
	1300	AMPS	10.6	10.8	11.1	-	11.4	11.6	12.0	-	12.3	12.6	13.0	-	13.2	13.5	13.9	-	14.0	14.3	14.8	-	14.8	15.2	15.7	-	14.8	15.2	15.7	-	14.2	14.5	14.9	-	13.6	13.9	14.3	-	13.1	13.4	13.8	-	12.6	12.9	13.3	-																																														
		H1PR	240	258	272	-	269	289	305	-	306	329	347	-	348	375	396	-	392	422	445	-	433	466	492	-	433	466	492	-	418	448	478	-	403	433	463	-	388	417	441	-	373	402	426	-																																														
		LO PR	111	118	129	-	117	125	136	-	122	130	141	-	128	136	149	-	134	143	156	-	139	148	161	-	139	148	161	-	132	141	154	-	127	135	147	-	122	130	141	-	117	125	136	-																																														
		MBh	38.1	39.4	43.2	-	37.2	38.5	42.2	-	36.3	37.6	41.2	-	35.4	36.7	40.2	-	33.6	34.9	38.2	-	31.2	32.3	35.4	-	31.2	32.3	35.4	-	30.7	31.9	35.1	-	29.2	30.4	33.5	-	27.7	28.9	32.0	-	25.2	26.4	29.5	-																																														
	1139	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	-	0.77	0.64	0.43	-	0.77	0.64	0.43	-	0.72	0.59	0.39	-	0.67	0.54	0.35	-																																														
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	16	14	10	-	15	13	9	-																																														
75	1461	KW	2.60	2.65	2.73	-	2.80	2.86	2.95	-	2.97	3.04	3.14	-	3.13	3.20	3.30	-	3.26	3.34	3.45	-	3.38	3.45	3.57	-	3.38	3.45	3.57	-	3.29	3.36	3.48	-	3.18	3.25	3.36	-	3.18	3.25	3.36	-	3.09	3.16	3.27	-																																														
		AMPS	10.5	10.7	11.0	-	11.3	11.5	11.9	-	12.2	12.5	12.9	-	13.0	13.4	13.8	-	13.9	14.2	14.7	-	14.7	15.0	15.5	-	14.7	15.0	15.5	-	14.1	14.4	14.9	-	13.5	13.8	14.3	-	13.5	13.8	14.3	-	12.9	13.2	13.6	-																																														
		H1PR	237	255	270	-	266	286	302	-	303	326	344	-	345	371	392	-	388	417	441	-	429	461	487	-	429	461	487	-	414	444	474	-	400	429	458	-	385	414	443	-	370	399	428	-																																														
		LO PR	110	117	128	-	116	123	135	-	121	128	140	-	127	135	147	-	133	141	154	-	137	146	159	-	137	146	159	-	130	139	152	-	124	133	146	-	119	128	141	-	114	123	136	-																																														
	1139	MBh	35.1	36.4	39.9	-	34.3	35.6	39.0	-	33.5	34.7	38.0	-	32.7	33.9	37.1	-	31.0	32.2	35.2	-	28.8	29.8	32.7	-	28.8	29.8	32.7	-	27.3	28.5	31.6	-	25.8	27.0	30.1	-	23.3	24.5	27.6	-	20.8	22.0	25.1	-																																														
		S/T	0.69	0.57	0.40	-	0.71	0.60	0.41	-	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-	0.73	0.60	0.40	-	0.73	0.60	0.40	-	0.68	0.55	0.36	-	0.63	0.50	0.31	-																																														
		Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	16	14	10	-	15	13	9	-																																														
		KW	2.53	2.59	2.67	-	2.73	2.79	2.88	-	2.90	2.96	3.06	-	3.05	3.12	3.22	-	3.18	3.25	3.36	-	3.29	3.36	3.48	-	3.29	3.36	3.48	-	3.18	3.25	3.36	-	3.18	3.25	3.36	-	3.09	3.16	3.27	-	3.09	3.16	3.27	-																																														
	1461	AMPS	10.2	10.4	10.8	-	11.0	11.2	11.6	-	11.9	12.2	12.6	-	12.7	13.0	13.4	-	13.5	13.8	14.3	-	14.3	14.6	15.1	-	14.3	14.6	15.1	-	13.7	14.0	14.4	-	13.0	13.3	13.7	-	12.7	13.0	13.4	-	12.4	12.7	13.1	-																																														
		H1PR	230	248	261	-	258	278	293	-	294	316	334	-	334	360	380	-	376	405	428	-	416	447	472	-	416	447	472	-	409	430	451	-	392	413	434	-	375	396	417	-	358	379	400	-																																														
		LO PR	107	113	124	-	113	120	131	-	117	124	136	-	123	131	143	-	129	137	150	-	133	142	155	-	133	142	155	-	126	134	146	-	120	128	140	-	115	123	135	-	110	118	130	-																																														
		MBh	39.9	41.0	44.4	47.7	38.9	40.1	43.4	46.6	38.0	39.1	42.4	45.5	37.1	38.2	41.3	44.4	35.2	36.3	39.3	42.1	32.6	33.6	36.4	39.0	32.6	33.6	36.4	39.0	29.3	30.5	33.6	36.7	27.0	28.2	31.3	34.4	24.5	25.7	28.8	31.9																																																		
75	1300	S/T	0.85	0.76	0.58	0.37	0.88	0.79	0.60	0.38	0.90	0.81	0.61	0.39	0.93	0.83	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.87	0.66	0.43	0.98	0.87	0.66	0.43	0.87	0.78	0.59	0.39	0.87	0.78	0.59	0.39	0.82	0.73	0.54	0.34	0.79	0.70	0.51	0.31																																														
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10	20	18	15	10	19	17	14	11	16	13	10	7	4	1	-	-	-	-																																																
		KW	2.64	2.69	2.78	2.87	2.84	2.90	3.00	3.10	3.02	3.09	3.19	3.30	3.18	3.25	3.36	3.47	3.32	3.39	3.51	3.62	3.43	3.51	3.63	3.75	3.62	3.69	3.81	3.92	4.03	4.14	4.25	4.36	4.47	4.58	4.69	4.80	4.91	5.02	5.13	5.24	5.35	5.46	5.57																																															
		AMPS	10.6	10.9	11.2	11.6	11.5	11.7	12.1	12.6	12.4	12.7	13.2	13.6	13.3	13.6	14.0	14.6	14.1	14.5	14.9	15.5	14.9	15.3	15.8	16.4	15.5	15.8	16.4	15.1	15.4	15.7	16.0	16.3	16.6	16.9	17.2	17.5	17.8	18.1	18.4	18.7	19.0																																																	
	1139	H1PR	242	260	275	287	272	292	309	322	309	332	351	366	352	379	400	417	396	426	450	469	437	471	497	518	469	497	518	462	491	514	488	457	486	509	532	505	534	508	537	511	540	514																																																
		LO PR	112	119	130	139	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	168	140	149	163	173	168	173	162	171	184	177	166	155	144	153	164	137	146	157	168	140	149	163	173																																															
		MBh	38.7	39.8	43.1	46.3	37.8	38.9	42.1	45.2	36.9	38.0	41.1	44.1	36.0	37.1	40.1	43.1	34.2	35.2	38.1	40.9	31.7	32.6	35.3	37.9	32.6	33.6	36.4	39.0	30.2	31.4	34.5	37.6	29.3	30.5	33.6	36.7	27.0	28.2	31.3	34.4	24.5	25.7	28.8	31.9																																														
1461	S/T	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.83	0.62	0.40	0.93	0.83	0.63	0.41	0.93	0.83	0.63	0.41	0.87	0.78	0.59	0.39	0.87	0.78	0.59	0.39	0.82	0.73	0.54	0.34	0.79	0.70	0.51	0.31																																															
	Delta T	22	20	17	12	22	21	17	12	22	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11	21	19	16	11	20	18	15	10	19	17	14	11	16	13	10	7	4	1	-																																																
	KW	2.62	2.67	2.76</																																																																																								

PH1442H41*

Outdoor Ambient Temperature

85	1461	MBh	41.3	42.1	44.1	47.0	40.3	41.1	43.0	45.9	39.4	40.1	42.0	44.8	38.4	39.1	41.0	43.7	36.5	37.2	38.9	41.5	33.8	34.4	36.1	38.5
		S/T	0.98	0.94	0.85	0.69	1.00	0.98	0.88	0.72	1.00	1.00	0.90	0.73	1.00	1.00	0.93	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.79
		Delta T	25	25	24	20	25	25	24	21	25	25	24	21	24	25	24	21	23	23	24	21	21	22	22	19
		KW	2.68	2.74	2.82	2.92	2.89	2.95	3.05	3.15	3.07	3.14	3.24	3.35	3.24	3.31	3.42	3.53	3.37	3.45	3.57	3.69	3.49	3.57	3.69	3.82
		AMPS	10.8	11.1	11.4	11.9	11.7	12.0	12.3	12.8	12.7	13.0	13.4	13.9	13.5	13.8	14.3	14.8	14.4	14.7	15.2	15.8	15.2	15.6	16.1	16.7
		HPR	247	266	281	293	277	298	315	328	315	339	358	373	359	386	408	425	404	434	459	478	446	480	507	529
	1300	LOPR	114	122	133	141	121	128	140	149	126	134	146	155	132	140	153	163	138	147	160	171	143	152	166	177
		MBh	40.1	40.9	42.8	45.6	39.1	39.9	41.8	44.6	38.2	39.0	40.8	43.5	37.3	38.0	39.8	42.5	35.4	36.1	37.8	40.3	32.8	33.4	35.0	37.4
		S/T	0.93	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	0.92	0.75	1.00	1.00	0.93	0.76
		Delta T	26	26	25	21	27	26	25	22	27	26	25	22	26	27	25	22	25	26	25	21	23	24	23	20
		KW	2.66	2.72	2.80	2.89	2.87	2.93	3.02	3.12	3.05	3.12	3.22	3.33	3.21	3.28	3.39	3.50	3.35	3.42	3.54	3.66	3.46	3.54	3.66	3.79
		AMPS	10.7	11.0	11.3	11.7	11.6	11.9	12.2	12.7	12.6	12.9	13.3	13.8	13.4	13.7	14.2	14.7	14.2	14.6	15.1	15.6	15.1	15.4	15.9	16.5
1139	HPR	244	263	278	290	274	295	312	325	312	336	354	370	355	382	404	421	400	430	454	474	442	475	502	523	
	LOPR	113	120	131	140	120	127	139	148	124	132	144	154	131	139	152	161	137	146	159	169	141	151	164	175	
	MBh	37.0	37.7	39.5	42.1	36.1	36.8	38.6	41.2	35.3	36.0	37.7	40.2	34.4	35.1	36.7	39.2	32.7	33.3	34.9	37.2	30.3	30.9	32.3	34.5	
	S/T	0.90	0.87	0.78	0.64	0.93	0.90	0.81	0.66	0.96	0.92	0.83	0.67	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.90	0.73	
	Delta T	27	26	25	22	27	27	25	22	27	27	25	22	27	27	25	22	26	27	25	22	24	25	23	20	
	KW	2.59	2.65	2.73	2.82	2.80	2.86	2.95	3.04	2.97	3.04	3.14	3.24	3.13	3.20	3.30	3.41	3.26	3.33	3.45	3.56	3.38	3.45	3.57	3.69	
1139	AMPS	10.5	10.7	11.0	11.4	11.3	11.5	11.9	12.3	12.2	12.5	12.9	13.4	13.0	13.3	13.8	14.3	13.9	14.2	14.7	15.2	14.7	15.0	15.5	16.1	
	HPR	237	255	269	281	266	286	302	315	303	326	344	359	345	371	392	408	388	417	441	460	428	461	487	508	
	LOPR	110	117	127	136	116	123	135	143	121	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170	

KW = Total system power
AMPS: Unit amps (comp. + evaporator + condenser fan motors)

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

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

COOLING PERFORMANCE DATA

*PH1448H41**

MODEL: *PH1448H41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 11 ± 2 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 7 ± 2 °F @ the compressor suction access fitting connection.

		65										75										85										95										105										115									
		Outdoor Ambient Temperature																																																											
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71																				
70	1798	MBh	45.1	46.7	51.2	-	44.0	45.6	50.0	-	43.0	44.5	48.8	-	41.9	43.5	47.6	-	39.8	41.3	45.2	-	36.9	38.2	41.9	-	36.9	38.2	41.9	-	36.9	38.2	41.9	-	36.9	38.2	41.9	-	36.9	38.2	41.9	-	36.9	38.2	41.9	-															
		S/T	0.77	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.74	0.51	-	0.89	0.74	0.51	-	0.89	0.74	0.51	-	0.89	0.74	0.51	-	0.89	0.74	0.51	-	0.89	0.74	0.51	-	0.89	0.74	0.51	-															
		Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-															
		KW	2.99	3.05	3.15	-	3.22	3.28	3.39	-	3.42	3.49	3.60	-	3.59	3.67	3.79	-	3.74	3.83	3.95	-	3.87	3.96	4.09	-	3.87	3.96	4.09	-	3.87	3.96	4.09	-	3.87	3.96	4.09	-	3.87	3.96	4.09	-	3.87	3.96	4.09	-															
		AMPS	12.9	13.1	13.5	-	13.8	14.1	14.5	-	14.9	15.2	15.6	-	15.8	16.1	16.6	-	16.7	17.1	17.6	-	17.6	18.0	18.5	-	17.6	18.0	18.5	-	17.6	18.0	18.5	-	17.6	18.0	18.5	-	17.6	18.0	18.5	-	17.6	18.0	18.5	-															
	1600	HI PR	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	437	471	497	-	437	471	497	-	437	471	497	-	437	471	497	-	437	471	497	-	437	471	497	-															
		LO PR	109	116	127	-	116	123	134	-	120	128	139	-	126	134	146	-	132	141	154	-	137	145	159	-	137	145	159	-	137	145	159	-	137	145	159	-	137	145	159	-	137	145	159	-															
		MBh	43.8	45.4	49.7	-	42.7	44.3	48.5	-	41.7	43.2	47.4	-	40.7	42.2	46.2	-	38.7	40.1	43.9	-	35.8	37.1	40.7	-	35.8	37.1	40.7	-	35.8	37.1	40.7	-	35.8	37.1	40.7	-	35.8	37.1	40.7	-	35.8	37.1	40.7	-															
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-	0.85	0.71	0.49	-															
		Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-	17	15	11	-															
1402	KW	2.97	3.03	3.12	-	3.19	3.26	3.36	-	3.39	3.46	3.57	-	3.56	3.64	3.76	-	3.71	3.80	3.92	-	3.84	3.93	4.06	-	3.84	3.93	4.06	-	3.84	3.93	4.06	-	3.84	3.93	4.06	-	3.84	3.93	4.06	-	3.84	3.93	4.06	-																
	AMPS	12.8	13.0	13.4	-	13.7	14.0	14.4	-	14.7	15.1	15.5	-	15.6	16.0	16.5	-	16.5	16.9	17.4	-	17.4	17.8	18.4	-	17.4	17.8	18.4	-	17.4	17.8	18.4	-	17.4	17.8	18.4	-	17.4	17.8	18.4	-	17.4	17.8	18.4	-																
	HI PR	240	258	272	-	269	289	306	-	306	329	348	-	348	375	396	-	392	422	445	-	433	466	492	-	433	466	492	-	433	466	492	-	433	466	492	-	433	466	492	-	433	466	492	-																
	LO PR	108	115	126	-	114	122	133	-	119	126	138	-	125	133	145	-	131	139	152	-	135	144	157	-	135	144	157	-	135	144	157	-	135	144	157	-	135	144	157	-	135	144	157	-																
	MBh	40.4	41.9	45.9	-	39.5	40.9	44.8	-	38.5	39.9	43.7	-	37.6	38.9	42.7	-	35.7	37.0	40.5	-	33.1	34.3	37.5	-	33.1	34.3	37.5	-	33.1	34.3	37.5	-	33.1	34.3	37.5	-	33.1	34.3	37.5	-	33.1	34.3	37.5	-																
75	1798	S/T	0.71	0.59	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	-	0.82	0.68	0.47	-	0.82	0.68	0.47	-	0.82	0.68	0.47	-	0.82	0.68	0.47	-															
		Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-	18	15	12	-															
		KW	2.90	2.96	3.05	-	3.11	3.18	3.28	-	3.31	3.38	3.49	-	3.48	3.55	3.67	-	3.62	3.70	3.82	-	3.75	3.83	3.96	-	3.75	3.83	3.96	-	3.75	3.83	3.96	-	3.75	3.83	3.96	-	3.75	3.83	3.96	-	3.75	3.83	3.96	-															
		AMPS	12.5	12.7	13.1	-	13.3	13.6	14.0	-	14.4	14.7	15.1	-	15.2	15.6	16.1	-	16.1	16.5	17.0	-	17.0	17.4	17.9	-	17.0	17.4	17.9	-	17.0	17.4	17.9	-	17.0	17.4	17.9	-	17.0	17.4	17.9	-	17.0	17.4	17.9	-															
		HI PR	233	250	264	-	261	281	296	-	297	319	337	-	338	364	384	-	380	409	432	-	420	452	477	-	420	452	477	-	420	452	477	-	420	452	477	-	420	452	477	-	420	452	477	-															
	1600	LO PR	105	112	122	-	111	118	129	-	115	123	134	-	121	129	141	-	127	135	147	-	131	140	153	-	131	140	153	-	131	140	153	-	131	140	153	-	131	140	153	-	131	140	153	-															
		MBh	45.8	47.2	51.1	54.8	44.8	46.1	49.9	53.6	43.7	45.0	48.7	52.3	42.6	43.9	47.5	51.0	40.5	41.7	45.1	48.5	37.5	38.6	41.8	44.9	37.5	38.6	41.8	44.9	37.5	38.6	41.8	44.9	37.5	38.6	41.8	44.9	37.5	38.6	41.8	44.9	37.5	38.6	41.8	44.9															
		S/T	0.88	0.79	0.60	0.38	0.91	0.82	0.62	0.40	0.94	0.84	0.63	0.41	0.97	0.86	0.65	0.42	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44	1.00	0.90	0.68	0.44															
		Delta T	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	15	10	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11	21	19	16	11														
		1402	KW	3.01	3.08	3.17	3.27	3.24	3.31	3.42	3.53	3.45	3.52	3.63	3.75	3.62	3.70	3.82	3.95	3.78	3.86	3.99	4.12	3.91	3.99	4.13	4.27	3.91	3.99	4.13	4.27	3.91	3.99	4.13	4.27	3.91	3.99	4.13	4.27	3.91	3.99	4.13	4.27	3.91	3.99	4.13	4.27														
AMPS	13.0		13.2	13.6	14.1	13.9	14.2	14.6	15.1	15.0	15.3	15.8	16.3	15.9	16.3	16.7	17.3	16.8	17.2	17.7	18.4	17.7	18.1	18.7	19.4	17.7	18.1	18.7	19.4	17.7	18.1	18.7	19.4	17.7	18.1	18.7	19.4	17.7	18.1	18.7	19.4	17.7	18.1	18.7	19.4																
HI PR	245		263	278	290	274	295	312	325	312	336	355	370	355	383	404	421	400	430	454	474	442	476	502	524	442	476	502	524	442	476	502	524	442	476	502	524	442	476	502	524	442	476	502	524																

Design Subcooling, 11 ± 2 °F @ the liquid access fitting connection AHR 95 test conditions. Design Superheat 7 ± 2 °F @ the compressor suction access fitting connection.

IDB*		65										75										85										95										105										115									
		Outdoor Ambient Temperature										Outdoor Ambient Temperature										Outdoor Ambient Temperature										Outdoor Ambient Temperature										Outdoor Ambient Temperature										Outdoor Ambient 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	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71												
80	1798	MBh	46.7	47.7	50.9	54.4	45.6	46.6	49.7	53.2	44.5	45.5	48.6	51.9	43.4	44.3	47.4	50.6	41.2	42.1	45.0	48.1	38.2	39.0	41.7	44.6	0.97	0.91	0.74	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.85	0.63											
		Delta T	23	22	19	15	23	22	19	16	23	22	19	16	22	23	20	16	21	22	19	15	20	20	18	14	3.04	3.10	3.20	3.30	3.27	3.34	3.45	3.56	3.47	3.55	3.66	3.78	3.65	3.73	3.86	3.99	3.81	3.89	4.02	4.16	3.94	4.03	4.16	4.30											
		AMPs	13.1	13.4	13.7	14.2	14.0	14.3	14.7	15.2	15.1	15.4	15.9	16.4	16.0	16.4	16.9	17.5	17.0	17.4	17.9	18.5	17.9	18.3	18.9	19.5	HI PR	247	266	281	293	277	298	315	329	315	339	358	374	359	386	408	426	404	435	459	479	446	480	507	529										
		LO PR	112	119	130	138	118	125	137	146	123	130	142	152	129	137	149	159	135	143	157	167	140	148	162	173	MBh	45.3	46.3	49.5	52.9	44.2	45.2	48.3	51.6	43.2	44.1	47.2	50.4	42.1	43.1	46.0	49.2	40.0	40.9	43.7	46.7	37.1	37.9	40.5	43.3										
		S/T	0.92	0.86	0.70	0.53	0.95	0.90	0.73	0.54	0.98	0.92	0.75	0.56	1.00	0.95	0.77	0.58	1.00	0.98	0.80	0.60	1.00	0.99	0.81	0.60	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	22	19	15	21	22	19	15										
	1600	MBh	41.8	42.7	45.6	48.8	40.8	41.7	44.6	47.7	39.9	40.7	43.5	46.5	38.9	39.7	42.5	45.4	36.9	37.8	40.3	43.1	34.2	35.0	37.4	39.9	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.01	0.95	0.77	0.58	1.02	0.96	0.78	0.58											
		Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	24	23	20	16	23	22	19	15	2.94	3.00	3.10	3.19	3.16	3.23	3.33	3.44	3.36	3.43	3.54	3.66	3.53	3.61	3.73	3.85	3.68	3.76	3.89	4.02	3.81	3.89	4.02	4.16											
		AMPs	12.7	12.9	13.3	13.7	13.6	13.9	14.3	14.7	14.6	14.9	15.4	15.9	15.5	15.8	16.3	16.9	16.4	16.8	17.3	17.9	17.3	17.7	18.2	18.9	HI PR	237	255	270	281	266	286	303	316	303	326	344	359	345	371	392	409	388	417	441	460	429	461	487	508										
		LO PR	107	114	124	133	113	120	132	140	118	125	137	146	124	132	144	153	130	138	150	160	134	143	156	166	MBh	41.8	42.7	45.6	48.8	40.8	41.7	44.6	47.7	39.9	40.7	43.5	46.5	38.9	39.7	42.5	45.4	36.9	37.8	40.3	43.1	34.2	35.0	37.4	39.9	1.02	0.96	0.78	0.58						
		S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.01	0.95	0.77	0.58	1.02	0.96	0.78	0.58	Delta T	24	23	20	16	25	24	21	16	25	24	21	17	24	23	20	16	23	22	19	15	21	22	19	15										
1402	MBh	41.8	42.7	45.6	48.8	40.8	41.7	44.6	47.7	39.9	40.7	43.5	46.5	38.9	39.7	42.5	45.4	36.9	37.8	40.3	43.1	34.2	35.0	37.4	39.9	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.01	0.95	0.77	0.58	1.02	0.96	0.78	0.58												
	Delta T	24	23	20	16	25	24	21	16	25	24	21	16	25	24	21	17	24	23	20	16	23	22	19	15	2.94	3.00	3.10	3.19	3.16	3.23	3.33	3.44	3.36	3.43	3.54	3.66	3.53	3.61	3.73	3.85	3.68	3.76	3.89	4.02	3.81	3.89	4.02	4.16												
	AMPs	12.7	12.9	13.3	13.7	13.6	13.9	14.3	14.7	14.6	14.9	15.4	15.9	15.5	15.8	16.3	16.9	16.4	16.8	17.3	17.9	17.3	17.7	18.2	18.9	HI PR	237	255	270	281	266	286	303	316	303	326	344	359	345	371	392	409	388	417	441	460	429	461	487	508											
	LO PR	107	114	124	133	113	120	132	140	118	125	137	146	124	132	144	153	130	138	150	160	134	143	156	166	MBh	41.8	42.7	45.6	48.8	40.8	41.7	44.6	47.7	39.9	40.7	43.5	46.5	38.9	39.7	42.5	45.4	36.9	37.8	40.3	43.1	34.2	35.0	37.4	39.9	1.02	0.96	0.78	0.58							
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.94	0.89	0.72	0.54	0.97	0.91	0.74	0.56	1.01	0.95	0.77	0.58	1.02	0.96	0.78	0.58	Delta T	24	23	20	16	25	24	21	16	25	24	21	17	24	23	20	16	23	22	19	15	21	22	19	15											

COOLING PERFORMANCE DATA

*PH1460H41**

MODEL: *PH1460H41** EXPANDED PERFORMANCE DATA COOLING OPERATION

Design Subcooling, 7 ± 2 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 7 ± 2 °F @ the compressor suction access fitting connection.

		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	
70	1798	MBh	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	-
		S/T	0.71	0.59	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	-
		Delta T	20	18	13	-	21	18	14	-	21	18	14	-	21	18	14	-	20	18	13	-	19	17	13	-
		KW	3.69	3.77	3.90	-	3.99	4.08	4.22	-	4.25	4.35	4.49	-	4.48	4.58	4.74	-	4.68	4.79	4.95	-	4.85	4.96	5.13	-
		AMPS	15.6	15.9	16.4	-	16.8	17.1	17.7	-	18.1	18.5	19.1	-	19.3	19.7	20.4	-	20.5	20.9	21.6	-	21.6	22.1	22.8	-
		HI PR	237	255	269	-	266	286	302	-	302	325	343	-	344	370	391	-	387	417	440	-	428	460	486	-
		LO PR	107	114	124	-	113	120	131	-	118	125	137	-	124	131	144	-	130	138	150	-	134	143	156	-
		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	-
		S/T	0.68	0.57	0.39	-	0.70	0.59	0.41	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.65	0.45	-	0.78	0.65	0.45	-
		Delta T	21	18	14	-	21	19	14	-	21	19	14	-	22	19	14	-	21	18	14	-	20	17	13	-
1402	1600	KW	3.66	3.74	3.87	-	3.96	4.04	4.18	-	4.22	4.31	4.46	-	4.44	4.55	4.70	-	4.84	4.75	4.91	-	4.81	4.92	5.09	-
		AMPS	15.5	15.8	16.3	-	16.6	17.0	17.5	-	18.0	18.4	18.9	-	19.1	19.6	20.2	-	20.3	20.8	21.4	-	21.4	21.9	22.6	-
		HI PR	234	252	266	-	263	283	299	-	299	322	340	-	341	367	387	-	383	412	435	-	423	456	481	-
		LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-
		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	-
		S/T	0.65	0.55	0.38	-	0.68	0.57	0.39	-	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.75	0.62	0.43	-	0.75	0.63	0.43	-
		Delta T	21	19	14	-	22	19	14	-	22	19	14	-	22	19	14	-	22	19	14	-	20	17	13	-
		KW	3.57	3.65	3.77	-	3.86	3.94	4.07	-	4.11	4.20	4.34	-	4.33	4.43	4.58	-	4.52	4.62	4.78	-	4.68	4.79	4.95	-
		AMPS	15.1	15.4	15.9	-	16.2	16.6	17.1	-	17.5	17.9	18.5	-	18.6	19.1	19.7	-	19.8	20.2	20.8	-	20.9	21.3	22.0	-
		HI PR	227	245	258	-	255	275	290	-	290	312	330	-	330	356	375	-	372	400	422	-	411	442	467	-
LO PR	103	109	120	-	109	116	126	-	113	120	131	-	119	126	138	-	124	132	144	-	129	137	149	-		

Entering Indoor Wet Bulb Temperature											
95				105				115			
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63
75	Mbh	56.8	58.5	63.3	67.9	54.2	55.8	60.4	64.8	52.8	54.4
	S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.89	0.79
	Delta T	24	22	18	12	24	22	18	12	24	22
	KW	3.72	3.81	3.93	4.06	4.02	4.11	4.25	4.40	4.52	4.63
	AMPS	15.7	16.1	16.6	17.1	16.9	17.3	17.8	18.4	19.5	19.9
	HI PR	239	257	272	283	268	289	305	318	305	328
	LO PR	108	115	126	134	114	122	133	141	125	133
	Mbh	55.1	56.8	61.5	66.0	53.9	55.5	60.0	64.4	51.3	52.8
	S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.85	0.76
	Delta T	24	23	18	13	25	23	19	13	25	23
1600	KW	3.69	3.78	3.90	4.03	3.99	4.08	4.22	4.36	4.48	4.59
	AMPS	15.6	15.9	16.4	17.0	16.8	17.1	17.7	18.3	18.1	18.5
	HI PR	237	255	269	281	266	286	302	315	302	325
	LO PR	107	114	124	133	113	120	131	140	118	125
	Mbh	50.9	52.4	56.7	60.9	49.7	51.2	55.4	59.5	47.3	48.8
	S/T	0.74	0.67	0.50	0.32	0.77	0.69	0.52	0.34	0.82	0.73
	Delta T	25	23	19	13	25	23	19	13	25	23
	KW	3.60	3.68	3.80	3.93	3.89	3.98	4.11	4.25	4.37	4.47
	AMPS	15.2	15.5	16.0	16.6	16.3	16.7	17.2	17.8	18.8	19.2
	HI PR	230	247	261	272	258	277	293	305	334	359
1402	LO PR	104	111	121	129	110	117	128	136	120	128
	Mbh	56.8	58.5	63.3	67.9	54.2	55.8	60.4	64.8	52.8	54.4
	S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.37	0.89	0.79
	Delta T	24	22	18	12	24	22	18	12	24	22
	KW	3.72	3.81	3.93	4.06	4.02	4.11	4.25	4.40	4.52	4.63
	AMPS	15.7	16.1	16.6	17.1	16.9	17.3	17.8	18.4	19.5	19.9
	HI PR	239	257	272	283	268	289	305	318	305	328
	LO PR	108	115	126	134	114	122	133	141	125	133
	Mbh	55.1	56.8	61.5	66.0	53.9	55.5	60.0	64.4	51.3	52.8
	S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.85	0.76

* IDB: Entering Indoor Dry Bulb Temperature NOTE: Shaded area is ACOA (TVA) conditions

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

EXPANDED PERFORMANCE DATA

COOLING OPERATION

COOLING PERFORMANCE DATA

PH1460H41*

Design Subcooling, $7 \pm 2^\circ\text{F}$ @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat $7 \pm 2^\circ\text{F}$ @ the compressor suction access fitting connection.

ID#		Airflow	Outdoor Ambient Temperature															105															115																																												
			75															85															95															105															115														
			Entering Indoor Wet Bulb Temperature															105															115															125															135														
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																																														
1798	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	47.3	48.4	51.7	55.2	47.3	48.4	51.7	55.2																																												
	ST	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	1.00	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.58	1.00	0.96	0.78	0.58																																												
	Delta T	26	25	22	17	27	25	22	18	27	25	22	18	27	26	22	18	26	25	22	18	24	24	21	16	24	24	21	16	24	24	21	16																																												
	KW	3.76	3.84	3.97	4.10	4.06	4.15	4.29	4.43	4.33	4.42	4.57	4.73	4.56	4.67	4.83	4.99	4.76	4.87	5.04	5.22	4.93	5.05	5.22	5.41	4.93	5.05	5.22	5.41	4.93	5.05	5.22	5.41																																												
	AMPS	15.9	16.2	16.7	17.3	17.0	17.4	18.0	18.6	18.6	18.4	18.9	19.4	20.1	19.6	20.1	20.7	21.5	20.8	21.3	22.0	22.8	22.0	22.5	23.2	24.1	22.0	22.5	23.2	24.1	22.0	22.5	23.2	24.1																																											
	Hi FRR	242	260	274	286	271	292	308	321	308	332	350	365	351	378	399	416	395	425	449	468	436	470	496	517	436	470	496	517	436	470	496	517																																												
	LO FRR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169	137	145	159	169	137	145	159	169																																												
1600	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	45.9	46.9	50.2	53.6	45.9	46.9	50.2	53.6																																												
	ST	0.85	0.79	0.65	0.48	0.88	0.82	0.67	0.50	0.90	0.84	0.69	0.51	0.93	0.87	0.71	0.53	0.96	0.90	0.74	0.55	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.55	0.97	0.91	0.74	0.55																																												
	Delta T	27	26	23	18	28	26	23	18	28	27	23	18	28	27	23	19	27	26	23	18	26	25	21	17	26	25	21	17	26	25	21	17																																												
	KW	3.72	3.81	3.93	4.06	4.02	4.11	4.25	4.40	4.29	4.39	4.53	4.69	4.52	4.63	4.78	4.95	4.72	4.83	5.00	5.17	4.89	5.01	5.18	5.36	4.89	5.01	5.18	5.36	4.89	5.01	5.18	5.36																																												
	AMPS	15.7	16.1	16.6	17.1	16.9	17.3	17.8	18.4	18.3	18.7	19.3	20.0	19.5	19.9	20.5	21.3	20.6	21.1	21.8	22.6	21.8	22.3	23.0	23.9	21.8	22.3	23.0	23.9	21.8	22.3	23.0	23.9																																												
	Hi FRR	239	257	272	283	268	289	305	318	305	328	347	362	348	374	395	412	391	421	444	463	432	465	491	512	432	465	491	512	432	465	491	512																																												
	LO FRR	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	157	167	135	144	157	167	135	144	157	167																																												
1402	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	42.4	43.3	46.3	49.5	42.4	43.3	46.3	49.5																																												
	ST	0.82	0.77	0.62	0.47	0.85	0.79	0.65	0.48	0.87	0.81	0.66	0.49	0.90	0.84	0.68	0.51	0.93	0.87	0.71	0.53	0.94	0.88	0.72	0.53	0.94	0.88	0.72	0.53	0.94	0.88	0.72	0.53																																												
	Delta T	28	27	23	18	28	27	23	19	28	27	23	19	28	27	24	19	28	27	23	19	26	25	22	17	26	25	22	17	26	25	22	17																																												
	KW	3.63	3.71	3.83	3.96	3.92	4.01	4.14	4.28	4.18	4.27	4.42	4.57	4.41	4.51	4.66	4.82	4.60	4.70	4.86	5.03	4.76	4.87	5.04	5.22	4.76	4.87	5.04	5.22	4.76	4.87	5.04	5.22																																												
	AMPS	15.3	15.7	16.1	16.7	16.5	16.8	17.4	18.0	17.8	18.2	18.8	19.4	19.0	19.4	20.0	20.7	20.1	20.6	21.2	22.0	21.2	21.7	22.4	23.2	21.2	21.7	22.4	23.2	21.2	21.7	22.4	23.2																																												
	Hi FRR	232	250	264	275	260	280	296	309	296	319	336	351	337	363	383	400	379	408	431	450	419	451	476	497	419	451	476	497	419	451	476	497																																												
	LO FRR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	147	157	131	140	152	162	131	140	152	162	131	140	152	162																																												

NOTE: Shaded area reflects AHR rating conditions

85	1798	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	48.2	49.1	51.4	54.8
		ST	0.93	0.90	0.81	0.86	0.96	0.93	0.84	0.88	0.99	0.95	0.86	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		Delta T	28	28	26	23	28	28	26	23	28	28	26	23	28	28	27	23	27	27	26	23	25	25	24	21
		KW	3.79	3.87	4.00	4.13	4.09	4.18	4.32	4.47	4.36	4.46	4.61	4.77	4.60	4.71	4.87	5.04	4.80	4.91	5.08	5.26	4.98	5.09	5.27	5.45
		AMPS	16.0	16.3	16.8	17.4	17.2	17.6	18.1	18.8	18.6	19.0	19.6	20.3	19.8	20.3	20.9	21.7	21.0	21.5	22.2	23.0	22.2	22.7	23.5	24.3
		Hi FFR	244	263	277	289	274	295	311	324	311	335	354	369	355	382	403	420	399	429	453	473	441	474	501	522
	LO PR	110	117	128	137	117	124	135	144	121	129	141	150	127	135	148	158	133	142	155	165	138	147	160	171	
	1600	MBh	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	46.7	47.7	49.9	53.2
		ST	0.89	0.86	0.77	0.83	0.92	0.89	0.80	0.85	0.94	0.91	0.82	0.67	0.97	0.94	0.85	0.69	1.00	0.98	0.88	0.71	1.00	0.98	0.89	0.72
		Delta T	29	29	27	23	29	29	27	24	30	29	27	24	30	29	28	24	29	29	27	24	27	27	25	22
		KW	3.76	3.84	3.97	4.10	4.06	4.15	4.29	4.43	4.33	4.42	4.57	4.73	4.56	4.67	4.83	4.99	4.76	4.87	5.04	5.22	4.93	5.05	5.22	5.41
		AMPS	15.9	16.2	16.7	17.3	17.0	17.4	18.0	18.6	18.4	18.9	19.4	20.1	19.6	20.1	20.7	21.5	20.8	21.3	22.0	22.8	22.0	22.5	23.2	24.1
Hi FFR		242	260	274	286	271	292	308	321	308	332	350	365	351	378	399	416	395	425	449	468	436	470	496	517	
1402	LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	159	169	
	MBh	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	43.1	44.0	46.1	49.1	
	ST	0.86	0.83	0.75	0.80	0.89	0.86	0.77	0.83	0.91	0.88	0.79	0.64	0.94	0.91	0.82	0.66	0.97	0.94	0.85	0.69	0.98	0.95	0.86	0.69	
	Delta T	30	29	27	24	30	29	28	24	30	29	28	24	30	30	28	24	30	29	28	24	28	27	26	22	
	KW	3.66	3.74	3.87	3.99	3.96	4.04	4.18	4.32	4.21	4.31	4.46	4.61	4.44	4.54	4.70	4.86	4.64	4.74	4.91	5.08	4.81	4.92	5.09	5.26	
	AMPS	15.5	15.8	16.3	16.8	16.6	17.0	17.5	18.1	18.0	18.4	18.9	19.6	19.1	19.6	20.2	20.9	20.3	20.7	21.4	22.2	21.4	21.9	22.6	23.4	
1402	Hi FFR	234	252	266	278	263	283	299	312	299	322	340	354	341	366	387	404	383	412	435	454	423	456	481	502	
	LO PR	106	113	123	131	112	119	130	139	116	124	135	144	122	130	142	151	128	136	149	159	133	141	154	164	

* 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.

KW = Total system power

AMPS: Unit amps (comp. + evaporator + condenser fan motors)

PACKAGE HEAT PUMP SPECIFICATIONS

PH14[24-36]H41*

EXPANDED PERFORMANCE DATA

MODEL: *PH1424H41**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5		-5	-10
MBh	28.7	27.1	25.5	23.9	22.8	22.1	20.5	18.9	16.2	15.0	13.8	13.0	12.5	11.2	10.0	8.7	7.4	6.1
DELTA T	31.2	29.6	27.8	26.0	24.8	24.1	22.4	20.6	17.6	16.3	15.0	14.2	13.6	12.2	10.8	9.5	8.1	6.6
KW	1.86	1.82	1.78	1.75	1.73	1.71	1.67	1.63	1.65	1.61	1.58	1.55	1.54	1.50	1.46	1.42	1.38	1.34
AMPS	9.1	8.4	7.9	7.5	7.2	7.1	6.7	6.4	6.2	5.9	5.6	5.5	5.5	5.2	4.9	4.6	4.3	3.9
COP	4.51	4.36	4.19	4.00	3.87	3.78	3.59	3.39	2.87	2.71	2.56	2.45	2.38	2.19	2.00	1.79	1.57	1.32
EER	15.4	14.9	14.3	13.7	13.2	12.9	12.3	11.6	9.8	9.3	8.7	8.4	8.1	7.5	6.8	6.1	5.4	4.5
HI PR	367	352	338	324	316	310	298	286	274	262	251	245	241	232	223	214	206	199
LO PR	142	132	123	113	107	103	95	84	76	68	60	56	54	45	39	33	29	23

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

MODEL: *PH1430H41**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	34.7	32.8	30.9	28.9	27.6	26.7	24.8	22.9	19.2	17.7	16.3	15.4	14.8	13.3	11.8	10.3	8.8	7.2
DELTA T	30.6	29.0	27.3	25.5	24.3	23.6	21.9	20.2	16.9	15.6	14.4	13.6	13.1	11.7	10.4	9.1	7.7	6.3
KW	2.26	2.22	2.17	2.13	2.10	2.08	2.04	1.99	1.98	1.93	1.89	1.86	1.84	1.79	1.75	1.70	1.66	1.61
AMPS	11.0	10.3	9.7	9.1	8.8	8.7	8.2	7.8	7.5	7.2	6.9	6.8	6.7	6.4	6.0	5.7	5.3	4.9
COP	4.48	4.33	4.16	3.97	3.84	3.76	3.56	3.36	2.84	2.68	2.53	2.42	2.36	2.17	1.97	1.77	1.55	1.30
EER	15.3	14.8	14.2	13.6	13.1	12.8	12.2	11.5	9.7	9.2	8.6	8.3	8.1	7.4	6.7	6.0	5.3	4.5
HI PR	374	359	345	330	322	316	304	291	279	267	256	250	245	236	227	218	210	203
LO PR	134	124	117	107	101	97	89	80	72	64	56	52	51	43	37	31	27	21

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

MODEL: *PH1436H41**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	41.5	39.3	37.0	34.6	33.0	32.0	29.7	27.4	26.9	24.8	22.9	21.6	20.8	18.7	16.5	14.4	12.3	10.1
DELTA T	32.0	30.3	28.5	26.7	25.5	24.7	22.9	21.1	20.8	19.2	17.7	16.7	16.1	14.4	12.8	11.1	9.5	7.8
KW	2.74	2.68	2.63	2.57	2.54	2.52	2.47	2.41	2.64	2.58	2.52	2.48	2.46	2.39	2.33	2.27	2.21	2.15
AMPS	13.5	12.6	11.9	11.2	10.9	10.7	10.1	9.7	9.3	8.9	8.5	8.4	8.3	7.9	7.4	7.1	6.6	6.1
COP	4.44	4.29	4.12	3.93	3.80	3.71	3.52	3.32	2.98	2.82	2.66	2.55	2.48	2.28	2.08	1.86	1.63	1.37
EER	15.2	14.6	14.1	13.4	13.0	12.7	12.0	11.4	10.2	9.6	9.1	8.7	8.5	7.8	7.1	6.4	5.6	4.7
HI PR	367	352	338	323	316	310	298	286	274	262	251	245	241	232	223	214	206	199
LO PR	135	125	117	108	102	98	90	80	72	65	57	53	51	43	37	31	27	21

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

PH14[42-60]H41*

EXPANDED PERFORMANCE DATA

MODEL: *PH1442H41**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	47.1	44.6	42.0	39.3	37.5	36.3	33.8	31.1	26.7	24.6	22.7	21.4	20.6	18.5	16.4	14.3	12.2	10.0
DELTA T	33.6	31.8	29.9	28.0	26.7	25.9	24.0	22.2	19.0	17.5	16.1	15.2	14.7	13.2	11.7	10.2	8.7	7.1
KW	3.07	3.01	2.95	2.89	2.85	2.83	2.77	2.71	2.39	2.33	2.28	2.25	2.23	2.18	2.12	2.07	2.02	1.97
AMPS	12.5	11.6	10.9	10.3	9.9	9.8	9.2	8.8	8.4	8.1	7.7	7.5	7.5	7.1	6.7	6.3	5.9	5.3
COP	4.50	4.34	4.17	3.98	3.85	3.76	3.57	3.36	3.27	3.09	2.91	2.78	2.71	2.49	2.26	2.02	1.77	1.49
EER	15.4	14.8	14.2	13.6	13.1	12.9	12.2	11.5	11.2	10.5	9.9	9.5	9.2	8.5	7.7	6.9	6.0	5.1
HI PR	370	355	341	326	319	313	301	288	276	264	253	247	243	234	225	215	208	200
LO PR	137	127	119	109	103	99	91	81	73	65	58	54	52	44	38	32	28	22

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

MODEL: *PH1448H41**

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	32.4	29.9	27.5	26.0	25.0	22.5	19.9	17.4	14.8	12.1
DELTA T	32.7	31.0	29.2	27.3	26.0	25.2	23.4	21.6	18.7	17.3	15.9	15.0	14.5	13.0	11.5	10.1	8.6	7.0
KW	3.61	3.54	3.47	3.40	3.36	3.33	3.26	3.19	3.17	3.10	3.03	2.99	2.96	2.89	2.82	2.75	2.67	2.60
AMPS	18.5	17.2	16.2	15.4	14.9	14.6	13.8	13.2	12.7	12.2	11.7	11.5	11.3	10.8	10.2	9.7	9.1	8.3
COP	4.59	4.43	4.25	4.06	3.92	3.84	3.64	3.43	2.99	2.82	2.66	2.55	2.48	2.28	2.07	1.85	1.62	1.37
EER	15.7	15.1	14.5	13.9	13.4	13.1	12.4	11.7	10.2	9.6	9.1	8.7	8.5	7.8	7.1	6.3	5.5	4.7
HI PR	383	368	353	338	330	324	311	299	286	273	262	256	251	242	233	223	215	208
LO PR	135	126	118	108	102	98	90	80	73	65	57	53	51	43	37	31	27	22

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

MODEL: *PH1460H41**

HEATING OPERATION

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	68.5	64.9	61.0	57.1	54.5	52.8	49.1	45.2	42.1	38.9	35.8	33.8	32.5	29.2	25.9	22.6	19.3	15.8
DELTA T	39.6	37.5	35.3	33.0	31.5	30.6	28.4	26.2	24.4	22.5	20.7	19.6	18.8	16.9	15.0	13.1	11.1	9.1
KW	4.76	4.67	4.57	4.47	4.41	4.37	4.28	4.18	4.08	3.98	3.88	3.83	3.79	3.69	3.59	3.50	3.40	3.30
AMPS	23.9	22.2	20.9	19.7	19.0	18.7	17.7	16.8	16.1	15.4	14.8	14.4	14.2	13.6	12.7	12.0	11.2	10.2
COP	4.21	4.07	3.91	3.74	3.61	3.54	3.36	3.17	3.02	2.86	2.70	2.58	2.51	2.32	2.11	1.89	1.66	1.40
EER	14.4	13.9	13.4	12.8	12.3	12.1	11.5	10.8	10.3	9.8	9.2	8.8	8.6	7.9	7.2	6.5	5.7	4.8
HI PR	407	390	375	358	350	343	330	317	303	290	278	272	267	257	247	237	228	220
LO PR	130	121	113	104	98	94	87	77	70	62	55	51	49	41	36	30	26	21

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.

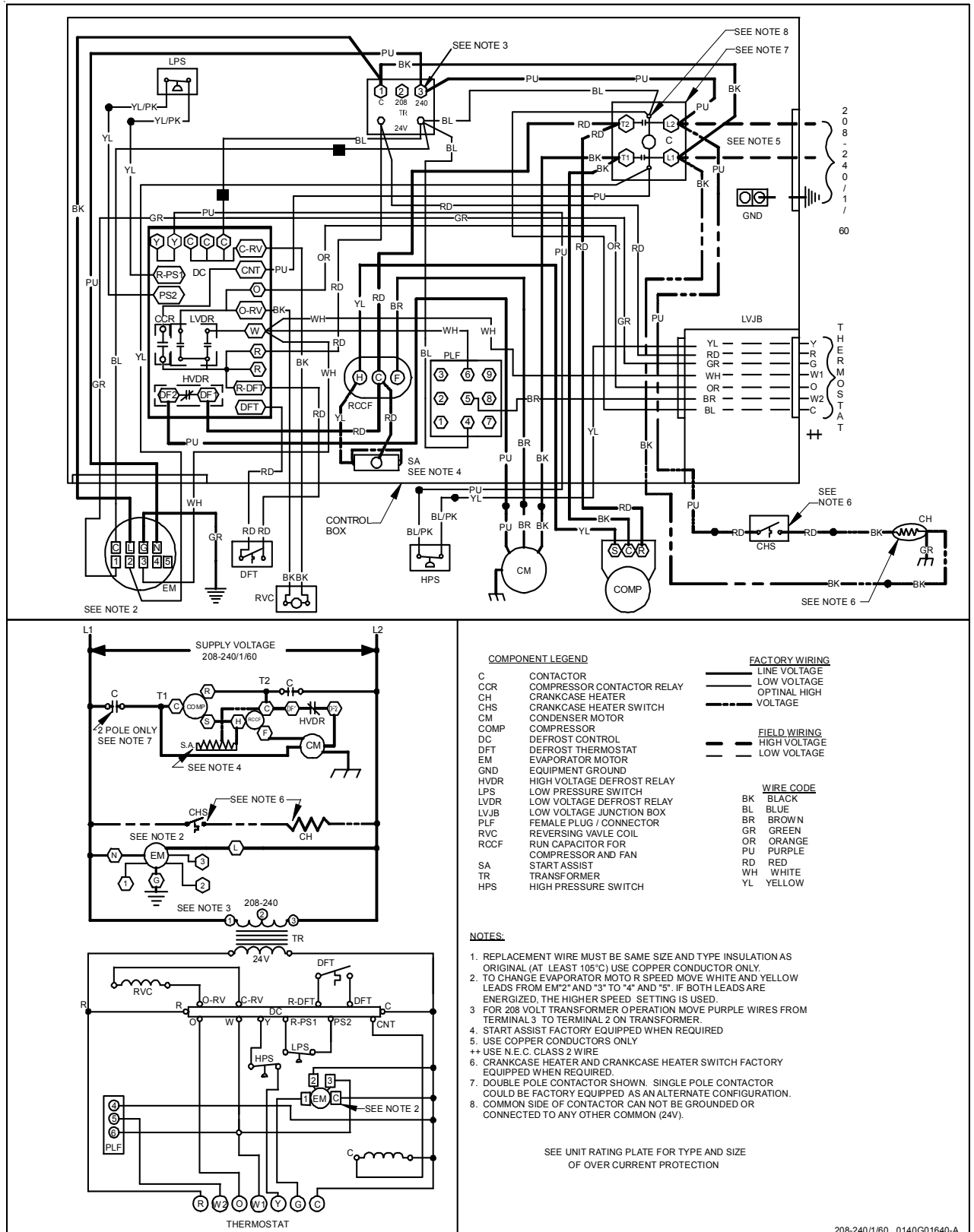
A properly operating unit should be within plus or minus **7 PSIG** of the **HI PR** shown.

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.

WIRING DIAGRAMS

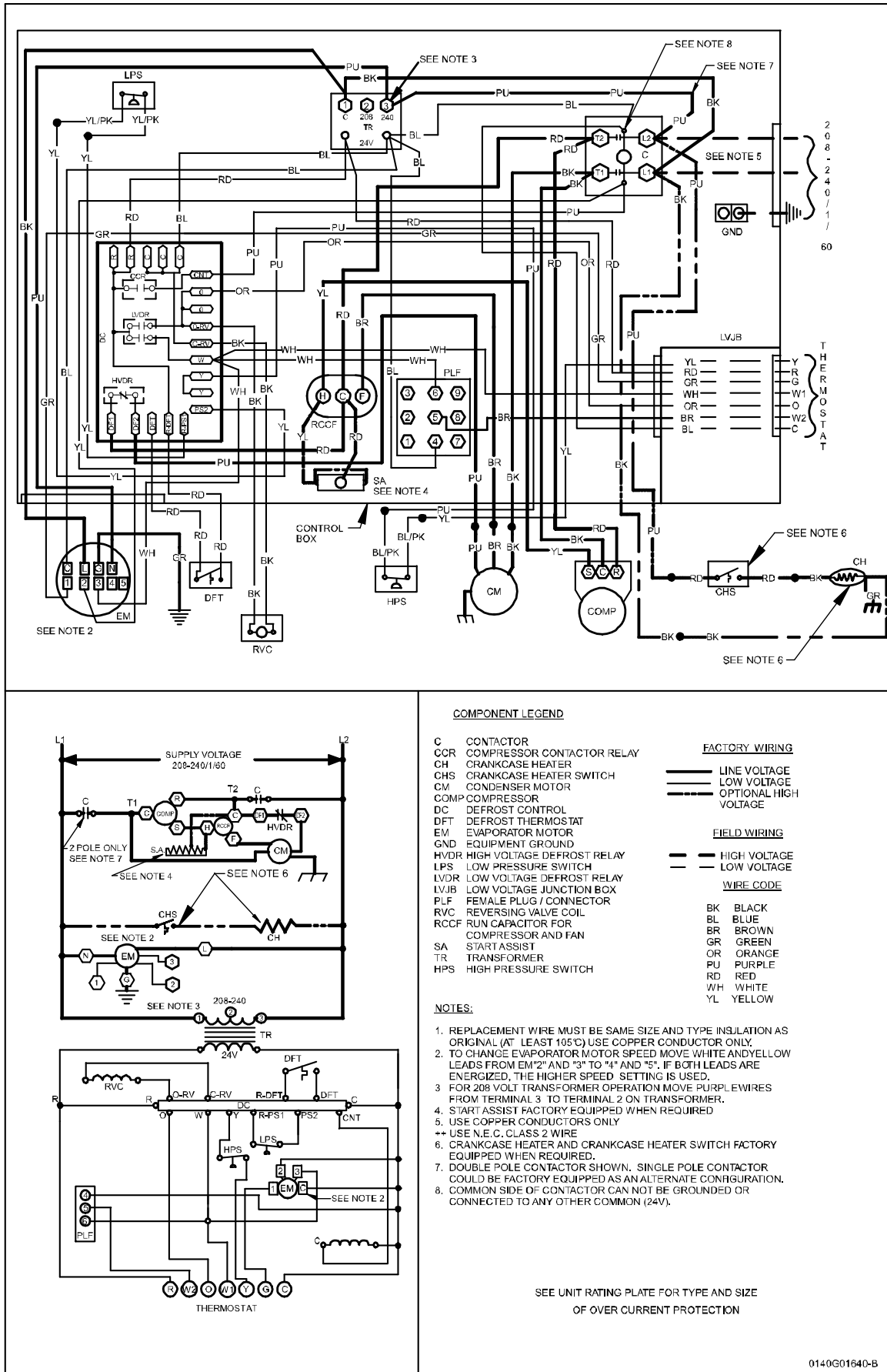
PH14[24-60]H41A*/B*/C*/D



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

WIRING DIAGRAMS

PH14[24-60]H41A/B*/C*/D*/E*



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