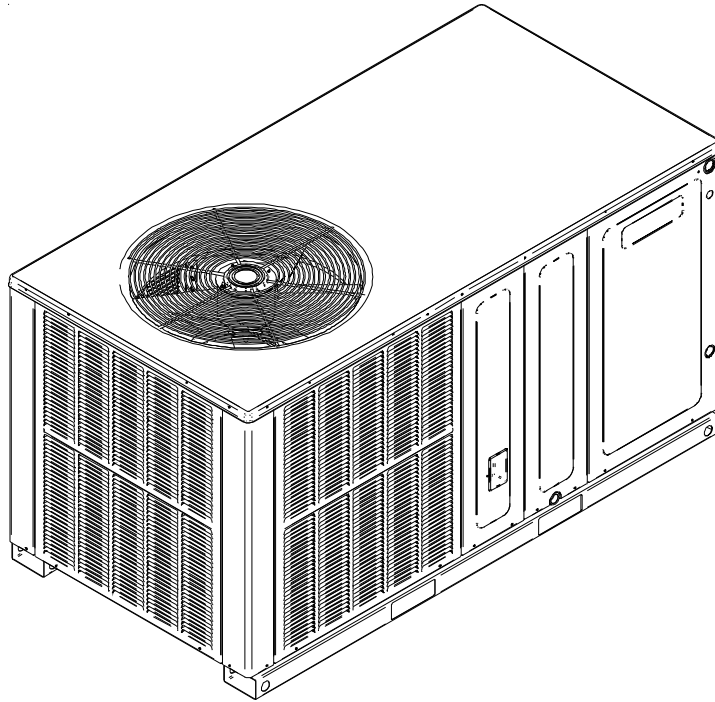


TECHNICAL MANUAL

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

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



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

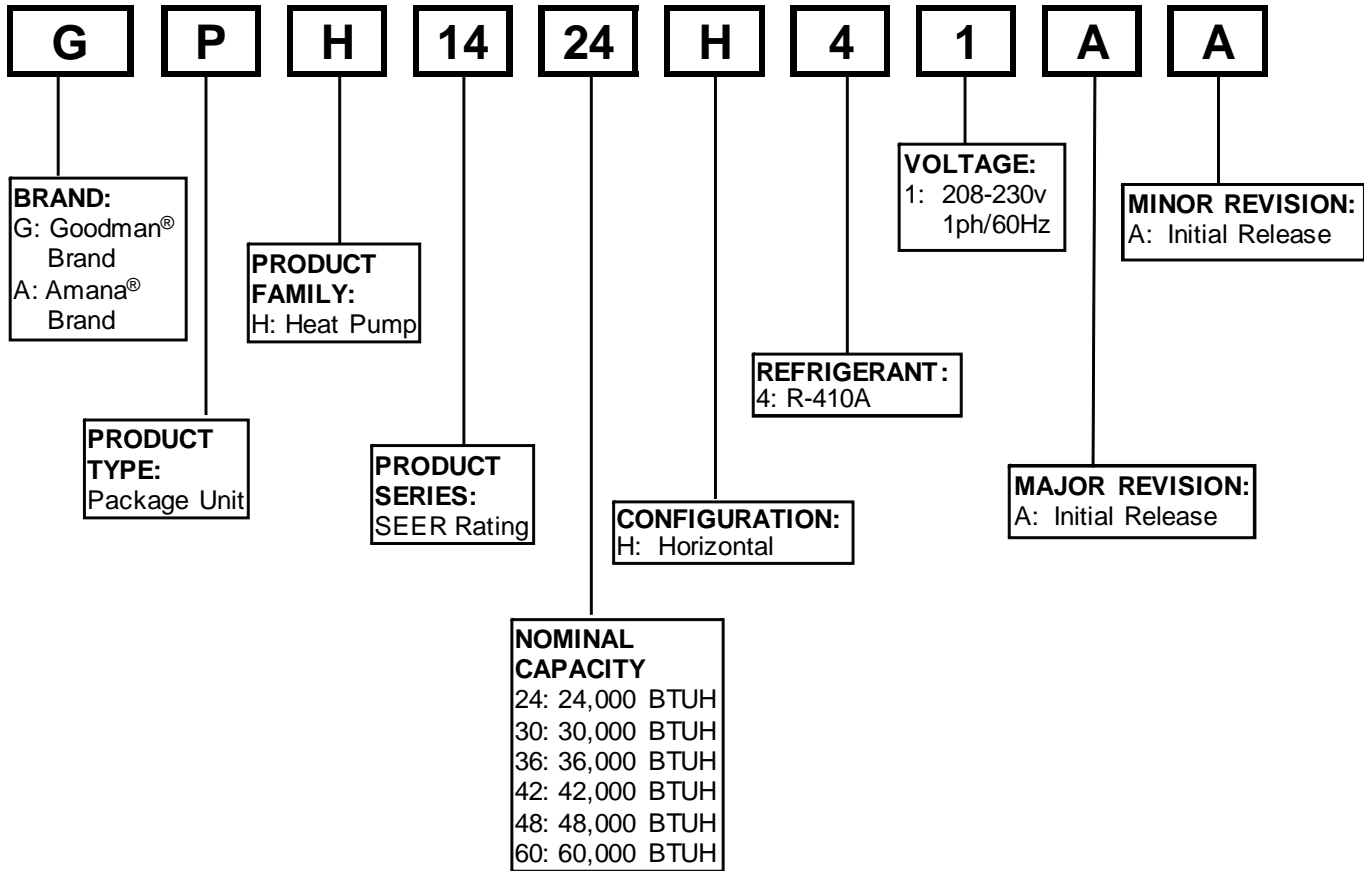
*AA revision level models can be found in RT6332008**

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.

RT6332012r8
October 2013

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*

GPH1424H41C*
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**



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



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



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

PRODUCT DESIGN

*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 IBR and are constant torque motors with very low power consumption. The EEM motor features an integral control module.

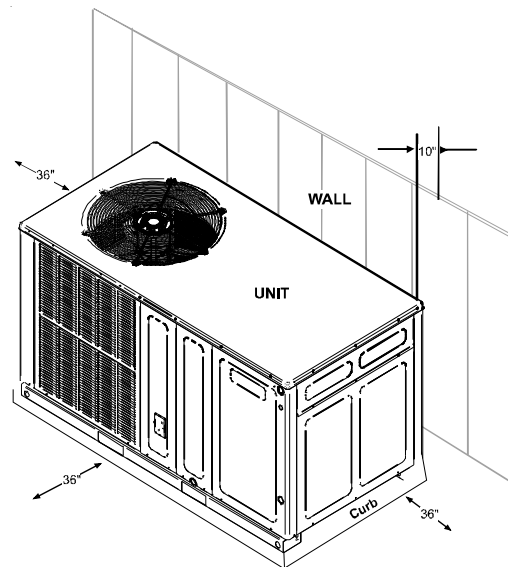
Air for condensing (cooling cycle) or evaporation (heating cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

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.

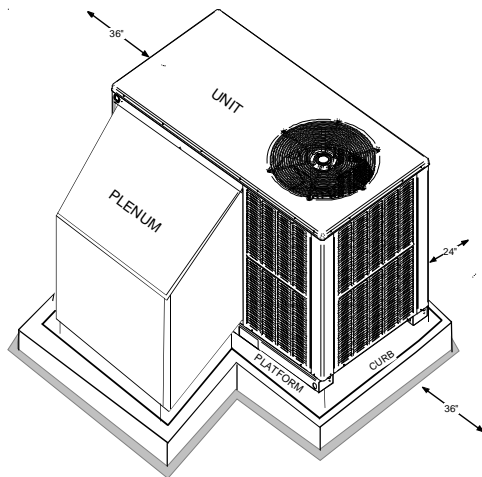


Outside Slab Installation - Horizontal (H)

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**					
HKR05*,C*	24 / 27	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	33 / 28	40 / 40	---	---	7.00 / 23,800
HKR10*,C*	45 / 51	60 / 60	---	---	9.50 / 32,400
*PH1430H41**					
HKR05*,C*	24 / 27	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	---	---	7.00 / 23,800
HKR10*,C*	45 / 52	60 / 60	---	---	9.50 / 32,400
HKR/P15*,C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
*PH1436H41**					
HKR05*,C*	24 / 27	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	---	---	7.00 / 23,800
HKR10*,C*	45 / 52	60 / 60	---	---	9.50 / 32,400
HKR/P15*,C*	45 / 52	60 / 60	22 / 25	30 / 30	14.25 / 48,600
*PH1442H41**					
HKR05*,C*	25 / 27	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	34 / 39	40 / 40	---	---	7.00 / 23,800
HKR10*,C*	46 / 52	60 / 60	---	---	9.50 / 32,400
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**					
HKR05*,C*	25 / 28	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	34 / 40	40 / 40	---	---	7.00 / 23,800
HKR10*,C*	46 / 53	60 / 60	---	---	9.50 / 32,400
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**					
HKR05*,C*	26 / 30	30 / 30	---	---	4.75 / 16,200
HKR08*,C*	36 / 40	40 / 40	---	---	7.00 / 23,800
HKR10*,C*	48 / 54	60 / 60	---	---	9.50 / 32,400
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.

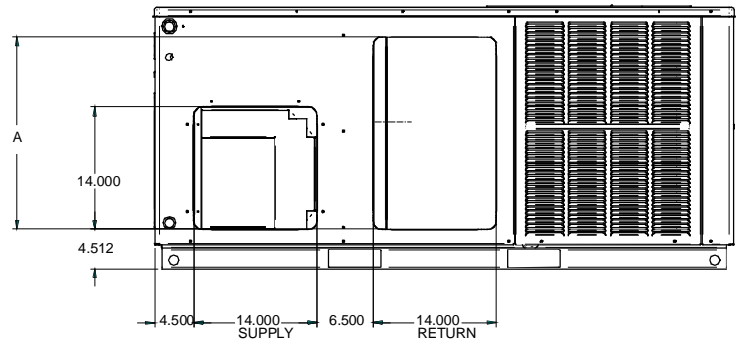
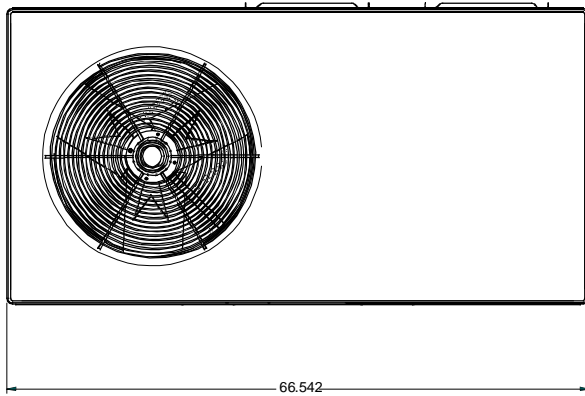


WARNING

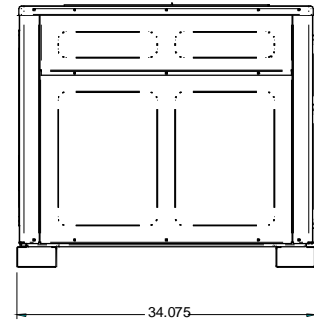
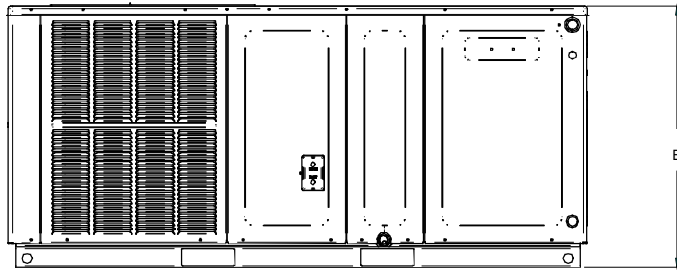
All wires and overcurrent protection devices are sized for use with electric heaters only and without refrigeration. If heaters are not installed with above wire size, overheating and fire could occur. See PACKAGE COOLING SPECIFICATIONS section for minimum circuit ampacity and maximum overcurrent protection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

PRODUCT DIMENSIONS

PH14[24-60]H41*



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
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.

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	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

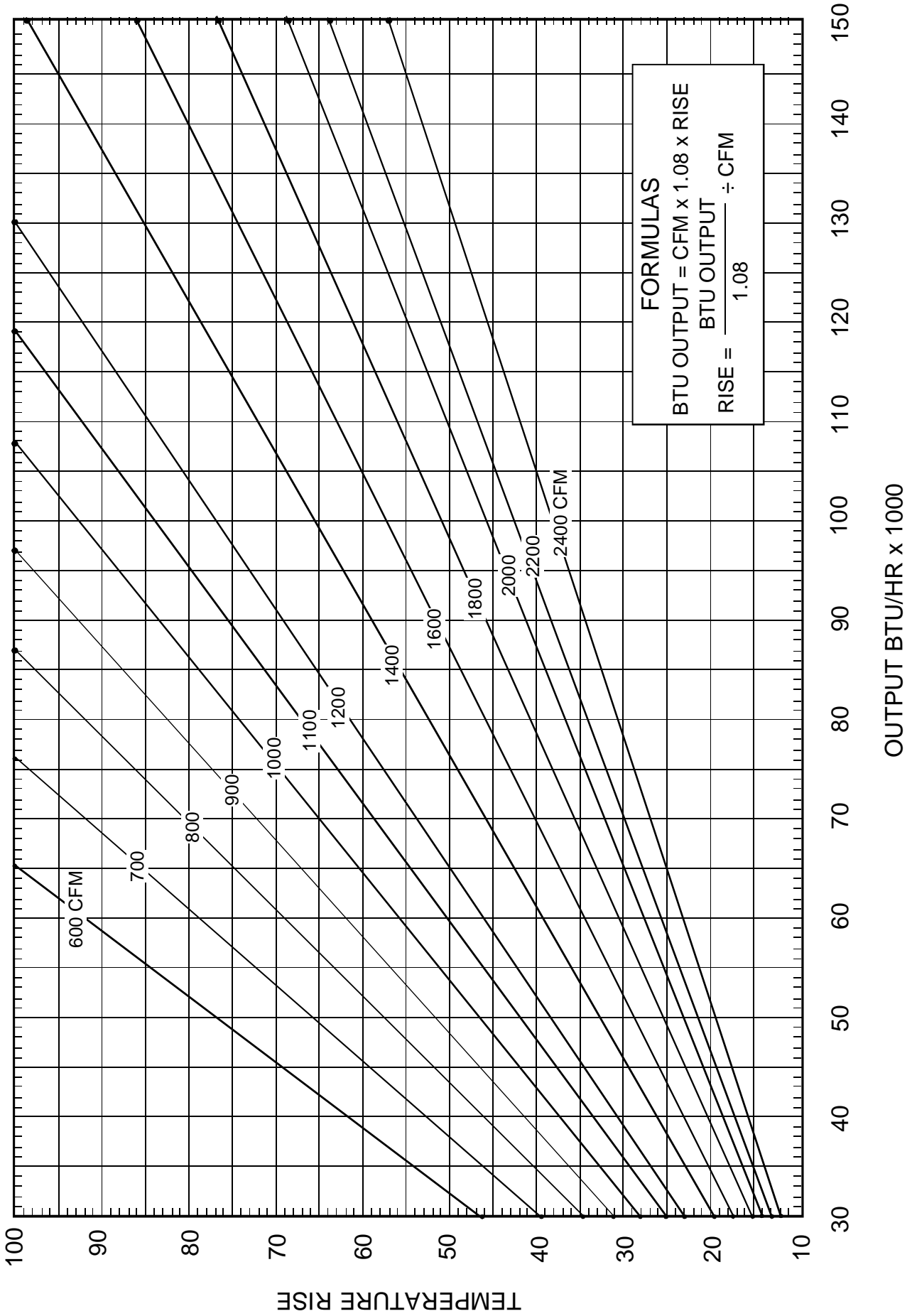
GPH1460H41BB
PH14[24-48]H41D

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

BTU OUTPUT vs TEMPERATURE RISE CHART



COOLING PERFORMANCE DATA

PH1424H41*

EXPANDED PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

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.

IDB*	Airflow	Outdoor Ambient Temperature															115									
		65					75					85						105								
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75		59	63	67	71	75				
70	955	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	-
	850	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	-
745	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	-	

IDB*	Airflow	Outdoor Ambient Temperature															115									
		65					75					85						105								
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75		59	63	67	71	75				
75	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

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

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.

IDB* Airflow	65												75												85												95												105												115											
	Outdoor Ambient Temperature						Entering Indoor Wet Bulb Temperature						Outdoor Ambient Temperature						Entering Indoor Wet Bulb Temperature						Outdoor Ambient Temperature						Entering Indoor Wet Bulb Temperature						Outdoor Ambient Temperature						Entering Indoor Wet Bulb Temperature																													
	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79																														
955	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																																															
	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																																															
	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																																															
	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																																															
850	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																																															
	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																																															
	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																																															
	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																																															
	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																																															
	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																																															
745	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																																															
	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																																															
	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																																															
	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																																															
	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																																															
	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																																															
	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																																															

NOTE: Shaded area reflects ARI rating conditions

IDB* Airflow	65												75												85												95												105												115											
	Outdoor Ambient Temperature						Entering Indoor Wet Bulb Temperature						Outdoor Ambient Temperature						Entering Indoor Wet Bulb Temperature						Outdoor Ambient Temperature						Entering Indoor Wet Bulb Temperature						Outdoor Ambient Temperature						Entering Indoor Wet Bulb Temperature																													
	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79																														
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																																															
850	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																																															
	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																																															
745	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																																															

* Entering Indoor Dry Bulb Temperature
High and low pressures are measured at the liquid and suction access fittings.
NOTE: Shaded area is ARI Rating Conditions
KW = Total system power
AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

COOLING PERFORMANCE DATA

PH1430H41*

EXPANDED PERFORMANCE DATA

MODEL: *PH1430H41**

COOLING OPERATION

Design Subcooling, 8 ± 2 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 5 ± 2 °F @ the compressor suction access fitting connection.

		Outdoor Ambient Temperature										Entering Indoor Wet Bulb Temperature																			
		65					75					85					95					105					115				
IDB*	Airflow	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71		
70	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	-	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	-	0.92	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	-	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	-	2.46	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	-	10.8	11.0	11.4	-	10.8	11.0	11.4	-		
	H PR	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	437	471	497	-	437	471	497	-		
	LO PR	116	123	135	-	123	130	142	-	127	136	148	-	134	142	155	-	140	149	163	-	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	-	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	0.73	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	-	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	-	2.43	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	-	10.7	10.9	11.3	-	10.7	10.9	11.3	-		
	H PR	240	258	272	-	269	289	306	-	306	329	348	-	348	375	396	-	392	422	445	-	433	466	492	-	433	466	492	-		
	LO PR	115	122	133	-	121	129	141	-	126	134	146	-	132	141	154	-	139	148	161	-	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	-	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	-	0.84	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	-	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	-	2.37	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	-	10.4	10.7	11.0	-	10.4	10.7	11.0	-		
	H PR	233	250	264	-	261	281	296	-	297	319	337	-	338	364	384	-	380	409	432	-	420	452	477	-	420	452	477	-		
	LO PR	111	119	129	-	118	125	137	-	122	130	142	-	128	137	149	-	135	143	156	-	139	148	162	-	139	148	162	-		
75	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	24.1	24.9	26.9	28.9		
	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		
	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		
	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	2.61	2.48	2.53	2.62	2.71	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	9.9	10.3	10.6	10.3	10.5	10.9	11.3	10.9	11.1	11.5	11.9	10.9	11.1	11.5	11.9		
	H 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		
	LO PR	117	125	136	145	124	132	144	153	129	137	149	159	135	144	157	167	142	151	165	175	147	156	170	181	147	156	170	181		
1050	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	23.4	24.1	26.1	28.0		
	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	0.99	0.89	0.67	0.43		
	Delta T	22	20	16	11	22	20	17	11	22	20	17	11	22	20	17	11	22	20	16	11	20	19	15	11	20	19	15	11		
	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	2.46	2.51	2.60	2.69		
	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	10.8	11.0	11.4	11.8		
	H PR	242	261	275	287	272	292	309	322	309	333	351	366	352	379	400	417	396	426	450	469	437	471	497	519	437	471	497	519		
	LO PR	116	123	135	144	123	130	142	152	127	136	148	158	134	142	155	166	140	149	163	173	145	154	168	179	145	154	168	179		
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	21.6	22.3	24.1	25.9		
	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	0.96	0.86	0.65	0.42		
	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	21	19	16	11		
	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	2.39	2.45	2.53	2.62		
	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	10.5	10.8	11.1	11.5		
	H PR	235	253	267	278	264	284	300	312	300	323	341	355	341	367	388	405	384	413	436	455	424	457	482	503	424	457	482	503		
	LO PR	113	120	131	139	119	127	138	147	124	131	144	153	130	138	151	161	136	145	158	168	141	150	163	174	141	150	163	174		

* Entering Indoor Dry Bulb Temperature

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

NOTE: Shaded area is A COA (TVA) conditions

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.

IDB*	Airflow	65												75												85												95												105												115																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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		59	63	67	71	75	79	83	87	91	95	99	103	107	111	115	119	123	127	131	135	139	143	147	151	155	159	163	167	171	175	179	183	187	191	195	199	203	207	211	215	219	223	227	231	235	239	243	247	251	255	259	263	267	271	275	279	283	287	291	295	299	303	307	311	315	319	323	327	331	335	339	343	347	351	355	359	363	367	371	375	379	383	387	391	395	399	403	407	411	415	419	423	427	431	435	439	443	447	451	455	459	463	467	471	475	479	483	487	491	495	499	503	507	511	515	519	523	527	531	535	539	543	547	551	555	559	563	567	571	575	579	583	587	591	595	599	603	607	611	615	619	623	627	631	635	639	643	647	651	655	659	663	667	671	675	679	683	687	691	695	699	703	707	711	715	719	723	727	731	735	739	743	747	751	755	759	763	767	771	775	779	783	787	791	795	799	803	807	811	815	819	823	827	831	835	839	843	847	851	855	859	863	867	871	875	879	883	887	891	895	899	903	907	911	915	919	923	927	931	935	939	943	947	951	955	959	963	967	971	975	979	983	987	991	995	999	1003	1007	1011	1015	1019	1023	1027	1031	1035	1039	1043	1047	1051	1055	1059	1063	1067	1071	1075	1079	1083	1087	1091	1095	1099	1103	1107	1111	1115	1119	1123	1127	1131	1135	1139	1143	1147	1151	1155	1159	1163	1167	1171	1175	1179	1183	1187	1191	1195	1199	1203	1207	1211	1215	1219	1223	1227	1231	1235	1239	1243	1247	1251	1255	1259	1263	1267	1271	1275	1279	1283	1287	1291	1295	1299	1303	1307	1311	1315	1319	1323	1327	1331	1335	1339	1343	1347	1351	1355	1359	1363	1367	1371	1375	1379	1383	1387	1391	1395	1399	1403	1407	1411	1415	1419	1423	1427	1431	1435	1439	1443	1447	1451	1455	1459	1463	1467	1471	1475	1479	1483	1487	1491	1495	1499	1503	1507	1511	1515	1519	1523	1527	1531	1535	1539	1543	1547	1551	1555	1559	1563	1567	1571	1575	1579	1583	1587	1591	1595	1599	1603	1607	1611	1615	1619	1623	1627	1631	1635	1639	1643	1647	1651	1655	1659	1663	1667	1671	1675	1679	1683	1687	1691	1695	1699	1703	1707	1711	1715	1719	1723	1727	1731	1735	1739	1743	1747	1751	1755	1759	1763	1767	1771	1775	1779	1783	1787	1791	1795	1799	1803	1807	1811	1815	1819	1823	1827	1831	1835	1839	1843	1847	1851	1855	1859	1863	1867	1871	1875	1879	1883	1887	1891	1895	1899	1903	1907	1911	1915	1919	1923	1927	1931	1935	1939	1943	1947	1951	1955	1959	1963	1967	1971	1975	1979	1983	1987	1991	1995	1999	2003	2007	2011	2015	2019	2023	2027	2031	2035	2039	2043	2047	2051	2055	2059	2063	2067	2071	2075	2079	2083	2087	2091	2095	2099	2103	2107	2111	2115	2119	2123	2127	2131	2135	2139	2143	2147	2151	2155	2159	2163	2167	2171	2175	2179	2183	2187	2191	2195	2199	2203	2207	2211	2215	2219	2223	2227	2231	2235	2239	2243	2247	2251	2255	2259	2263	2267	2271	2275	2279	2283	2287	2291	2295	2299	2303	2307	2311	2315	2319	2323	2327	2331	2335	2339	2343	2347	2351	2355	2359	2363	2367	2371	2375	2379	2383	2387	2391	2395	2399	2403	2407	2411	2415	2419	2423	2427	2431	2435	2439	2443	2447	2451	2455	2459	2463	2467	2471	2475	2479	2483	2487	2491	2495	2499	2503	2507	2511	2515	2519	2523	2527	2531	2535	2539	2543	2547	2551	2555	2559	2563	2567	2571	2575	2579	2583	2587	2591	2595	2599	2603	2607	2611	2615	2619	2623	2627	2631	2635	2639	2643	2647	2651	2655	2659	2663	2667	2671	2675	2679	2683	2687	2691	2695	2699	2703	2707	2711	2715	2719	2723	2727	2731	2735	2739	2743	2747	2751	2755	2759	2763	2767	2771	2775	2779	2783	2787	2791	2795	2799	2803	2807	2811	2815	2819	2823	2827	2831	2835	2839	2843	2847	2851	2855	2859	2863	2867	2871	2875	2879	2883	2887	2891	2895	2899	2903	2907	2911	2915	2919	2923	2927	2931	2935	2939	2943	2947	2951	2955	2959	2963	2967	2971	2975	2979	2983	2987	2991	2995	2999	3003	3007	3011	3015	3019	3023	3027	3031	3035	3039	3043	3047	3051	3055	3059	3063	3067	3071	3075	3079	3083	3087	3091	3095	3099	3103	3107	3111	3115	3119	3123	3127	3131	3135	3139	3143	3147	3151	3155	3159	3163	3167	3171	3175	3179	3183	3187	3191	3195	3199	3203	3207	3211	3215	3219	3223	3227	3231	3235	3239	3243	3247	3251	3255	3259	3263	3267	3271	3275	3279	3283	3287	3291	3295	3299	3303	3307	3311	3315	3319	3323	3327	3331	3335	3339	3343	3347	3351	3355	3359	3363	3367	3371	3375	3379	3383	3387	3391	3395	3399	3403	3407	3411	3415	3419	3423	3427	3431	3435	3439	3443	3447	3451	3455	3459	3463	3467	3471	3475	3479	3483	3487	3491	3495	3499	3503	3507	3511	3515	3519	3523	3527	3531	3535	3539	3543	3547	3551	3555	3559	3563	3567	3571	3575	3579	3583	3587	3591	3595	3599	3603	3607	3611	3615	3619	3623	3627	3631	3635	3639	3643	3647	3651	3655	3659	3663	3667	3671	3675	3679	3683	3687	3691	3695	3699	3703	3707	3711	3715	3719	3723	3727	3731	3735	3739	3743	3747	3751	3755	3759	3763	3767	3771	3775	3779	3783	3787	3791	3795	3799	3803	3807	3811	3815	3819	3823	3827	3831	3835	3839	3843	3847	3851	3855	3859	3863	3867	3871	3875	3879	3883	3887	3891	3895	3899	3903	3907	3911	3915	3919	3923	3927	3931	3935	3939	3943	3947	3951	3955	3959	3963	3967	3971	3975	3979	3983	3987	3991	3995	3999	4003	4007	4011	4015	4019	4023	4027	4031	4035	4039	4043	4047	4051	4055	4059	4063	4067	4071	4075	4079	4083	4087	4091	4095	4099	4103	4107	4111	4115	4119	4123	4127	4131	4135	4139	4143	4147	4151	4155	4159	4163	4167	4171	4175	4179	4183	4187	4191	4195	4199	4203	4207	4211	4215	4219	4223	4227	4231	4235	4239	4243	4247	4251	4255	4259	4263	4267	4271	4275	4279	4283	4287	4291	4295	4299	4303	4307	4311	4315	4319	4323	4327	4331	4335	4339	4343	4347	4351	4355	4359	4363	4367	4371	4375	4379	4383	4387	4391	4395	4399	4403	4407	4411	4415	4419	4423	4427	4431	4435	4439	4443	4447	4451	4455	4459	4463	4467	4471	4475	4479	4483	4487	4491	4495	4499	4503	4507	4511	4515	4519	4523	4527	4531	4535	4539	4543	4547	4551	4555	4559	4563	4567	4571	4575	4579	4583	4587	4591	4595	4599	4603	4607	4611	4615	4619	4623	4627	4631	4635	4639	4643	4647	4651	4655	4659	4663	4667	4671	4675	4679	4683	4687	4691	4695	4699	4703	4707	4711	4715	4719	4723	4727	4731	4735	4739	4743	4747	4751	4755	4759	4763	4767	4771	4775	4779	4783	4787	4791	4795	4799	4803	4807	4811	4815	4819	4823	4827	4831	4835	4839	4843	4847	4851	4855	4859	4863	4867	4871	4875	4879	4883	4887	4891	4895	4899	4903	4907	4911	4915	4919	4923	4927	4931	4935	4939	4943	4947	4951	4955	4959	4963	4967	4971	4975	4979	4983	4987	4991	4995	4999	5003	5007	5011	5015	5019	5023	5027	5031	5035	5039	5043	5047	5051	5055	5059	5063	5067	5071	5075	5079	5083	5087	5091	5095	5099	5103	5107	5111	5115	5119	5123	5127	5131	5135	5139	5143	5147	5151	5155	5159	5163	5167	5171	5175	5179	5183	5187	5191	5195	5199	5203	5207	5211	5215	5219	5223	5227	5231	5235	5239	5243	5247	5251	5255	5259	5263	5267	5271	5275	5279	5283	5287	5291	5295	5299	5303	5307	5311	5315	5319	5323	5327	5331	5335	5339	5343	5347	5351	5355	5359	5363	5367	5371	5375	5379	5383	5387	5391	5395	5399	5403	5407	5411	5415	5419	5423	5427	5431	5435	5439	5443	5447	5451

MODEL: *PH1436H41**

EXPANDED PERFORMANCE DATA

COOLING PERFORMANCE DATA

PH1436H41*

Design Subcooling, 1.1± 2 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5 ± 2°F @ the compressor suction access fitting connection.

IDB*	Airflow	Outdoor Ambient Temperature																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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		59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79	59	63	67	71	75	79																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
80	1350	Mbh	36.5	37.3	39.9	42.6	45.3	48.0	50.7	53.4	56.1	58.8	61.5	64.2	66.9	69.6	72.3	75.0	77.7	80.4	83.1	85.8	88.5	91.2	93.9	96.6	99.3	102.0	104.7	107.4	110.1	112.8	115.5	118.2	120.9	123.6	126.3	129.0	131.7	134.4	137.1	139.8	142.5	145.2	147.9	150.6	153.3	156.0	158.7	161.4	164.1	166.8	169.5	172.2	174.9	177.6	180.3	183.0	185.7	188.4	191.1	193.8	196.5	199.2	201.9	204.6	207.3	210.0	212.7	215.4	218.1	220.8	223.5	226.2	228.9	231.6	234.3	237.0	239.7	242.4	245.1	247.8	250.5	253.2	255.9	258.6	261.3	264.0	266.7	269.4	272.1	274.8	277.5	280.2	282.9	285.6	288.3	291.0	293.7	296.4	299.1	301.8	304.5	307.2	309.9	312.6	315.3	318.0	320.7	323.4	326.1	328.8	331.5	334.2	336.9	339.6	342.3	345.0	347.7	350.4	353.1	355.8	358.5	361.2	363.9	366.6	369.3	372.0	374.7	377.4	380.1	382.8	385.5	388.2	390.9	393.6	396.3	399.0	401.7	404.4	407.1	409.8	412.5	415.2	417.9	420.6	423.3	426.0	428.7	431.4	434.1	436.8	439.5	442.2	444.9	447.6	450.3	453.0	455.7	458.4	461.1	463.8	466.5	469.2	471.9	474.6	477.3	480.0	482.7	485.4	488.1	490.8	493.5	496.2	498.9	501.6	504.3	507.0	509.7	512.4	515.1	517.8	520.5	523.2	525.9	528.6	531.3	534.0	536.7	539.4	542.1	544.8	547.5	550.2	552.9	555.6	558.3	561.0	563.7	566.4	569.1	571.8	574.5	577.2	579.9	582.6	585.3	588.0	590.7	593.4	596.1	598.8	601.5	604.2	606.9	609.6	612.3	615.0	617.7	620.4	623.1	625.8	628.5	631.2	633.9	636.6	639.3	642.0	644.7	647.4	650.1	652.8	655.5	658.2	660.9	663.6	666.3	669.0	671.7	674.4	677.1	679.8	682.5	685.2	687.9	690.6	693.3	696.0	698.7	701.4	704.1	706.8	709.5	712.2	714.9	717.6	720.3	723.0	725.7	728.4	731.1	733.8	736.5	739.2	741.9	744.6	747.3	750.0	752.7	755.4	758.1	760.8	763.5	766.2	768.9	771.6	774.3	777.0	779.7	782.4	785.1	787.8	790.5	793.2	795.9	798.6	801.3	804.0	806.7	809.4	812.1	814.8	817.5	820.2	822.9	825.6	828.3	831.0	833.7	836.4	839.1	841.8	844.5	847.2	849.9	852.6	855.3	858.0	860.7	863.4	866.1	868.8	871.5	874.2	876.9	879.6	882.3	885.0	887.7	890.4	893.1	895.8	898.5	901.2	903.9	906.6	909.3	912.0	914.7	917.4	920.1	922.8	925.5	928.2	930.9	933.6	936.3	939.0	941.7	944.4	947.1	949.8	952.5	955.2	957.9	960.6	963.3	966.0	968.7	971.4	974.1	976.8	979.5	982.2	984.9	987.6	990.3	993.0	995.7	998.4	1001.1	1003.8	1006.5	1009.2	1011.9	1014.6	1017.3	1020.0	1022.7	1025.4	1028.1	1030.8	1033.5	1036.2	1038.9	1041.6	1044.3	1047.0	1049.7	1052.4	1055.1	1057.8	1060.5	1063.2	1065.9	1068.6	1071.3	1074.0	1076.7	1079.4	1082.1	1084.8	1087.5	1090.2	1092.9	1095.6	1098.3	1101.0	1103.7	1106.4	1109.1	1111.8	1114.5	1117.2	1119.9	1122.6	1125.3	1128.0	1130.7	1133.4	1136.1	1138.8	1141.5	1144.2	1146.9	1149.6	1152.3	1155.0	1157.7	1160.4	1163.1	1165.8	1168.5	1171.2	1173.9	1176.6	1179.3	1182.0	1184.7	1187.4	1190.1	1192.8	1195.5	1198.2	1200.9	1203.6	1206.3	1209.0	1211.7	1214.4	1217.1	1219.8	1222.5	1225.2	1227.9	1230.6	1233.3	1236.0	1238.7	1241.4	1244.1	1246.8	1249.5	1252.2	1254.9	1257.6	1260.3	1263.0	1265.7	1268.4	1271.1	1273.8	1276.5	1279.2	1281.9	1284.6	1287.3	1290.0	1292.7	1295.4	1298.1	1300.8	1303.5	1306.2	1308.9	1311.6	1314.3	1317.0	1319.7	1322.4	1325.1	1327.8	1330.5	1333.2	1335.9	1338.6	1341.3	1344.0	1346.7	1349.4	1352.1	1354.8	1357.5	1360.2	1362.9	1365.6	1368.3	1371.0	1373.7	1376.4	1379.1	1381.8	1384.5	1387.2	1389.9	1392.6	1395.3	1398.0	1400.7	1403.4	1406.1	1408.8	1411.5	1414.2	1416.9	1419.6	1422.3	1425.0	1427.7	1430.4	1433.1	1435.8	1438.5	1441.2	1443.9	1446.6	1449.3	1452.0	1454.7	1457.4	1460.1	1462.8	1465.5	1468.2	1470.9	1473.6	1476.3	1479.0	1481.7	1484.4	1487.1	1489.8	1492.5	1495.2	1497.9	1500.6	1503.3	1506.0	1508.7	1511.4	1514.1	1516.8	1519.5	1522.2	1524.9	1527.6	1530.3	1533.0	1535.7	1538.4	1541.1	1543.8	1546.5	1549.2	1551.9	1554.6	1557.3	1560.0	1562.7	1565.4	1568.1	1570.8	1573.5	1576.2	1578.9	1581.6	1584.3	1587.0	1589.7	1592.4	1595.1	1597.8	1600.5	1603.2	1605.9	1608.6	1611.3	1614.0	1616.7	1619.4	1622.1	1624.8	1627.5	1630.2	1632.9	1635.6	1638.3	1641.0	1643.7	1646.4	1649.1	1651.8	1654.5	1657.2	1659.9	1662.6	1665.3	1668.0	1670.7	1673.4	1676.1	1678.8	1681.5	1684.2	1686.9	1689.6	1692.3	1695.0	1697.7	1700.4	1703.1	1705.8	1708.5	1711.2	1713.9	1716.6	1719.3	1722.0	1724.7	1727.4	1730.1	1732.8	1735.5	1738.2	1740.9	1743.6	1746.3	1749.0	1751.7	1754.4	1757.1	1759.8	1762.5	1765.2	1767.9	1770.6	1773.3	1776.0	1778.7	1781.4	1784.1	1786.8	1789.5	1792.2	1794.9	1797.6	1800.3	1803.0	1805.7	1808.4	1811.1	1813.8	1816.5	1819.2	1821.9	1824.6	1827.3	1830.0	1832.7	1835.4	1838.1	1840.8	1843.5	1846.2	1848.9	1851.6	1854.3	1857.0	1859.7	1862.4	1865.1	1867.8	1870.5	1873.2	1875.9	1878.6	1881.3	1884.0	1886.7	1889.4	1892.1	1894.8	1897.5	1900.2	1902.9	1905.6	1908.3	1911.0	1913.7	1916.4	1919.1	1921.8	1924.5	1927.2	1929.9	1932.6	1935.3	1938.0	1940.7	1943.4	1946.1	1948.8	1951.5	1954.2	1956.9	1959.6	1962.3	1965.0	1967.7	1970.4	1973.1	1975.8	1978.5	1981.2	1983.9	1986.6	1989.3	1992.0	1994.7	1997.4	1999.9	2002.6	2005.3	2008.0	2010.7	2013.4	2016.1	2018.8	2021.5	2024.2	2026.9	2029.6	2032.3	2035.0	2037.7	2040.4	2043.1	2045.8	2048.5	2051.2	2053.9	2056.6	2059.3	2062.0	2064.7	2067.4	2070.1	2072.8	2075.5	2078.2	2080.9	2083.6	2086.3	2089.0	2091.7	2094.4	2097.1	2099.8	2102.5	2105.2	2107.9	2110.6	2113.3	2116.0	2118.7	2121.4	2124.1	2126.8	2129.5	2132.2	2134.9	2137.6	2140.3	2143.0	2145.7	2148.4	2151.1	2153.8	2156.5	2159.2	2161.9	2164.6	2167.3	2170.0	2172.7	2175.4	2178.1	2180.8	2183.5	2186.2	2188.9	2191.6	2194.3	2197.0	2199.7	2202.4	2205.1	2207.8	2210.5	2213.2	2215.9	2218.6	2221.3	2224.0	2226.7	2229.4	2232.1	2234.8	2237.5	2240.2	2242.9	2245.6	2248.3	2251.0	2253.7	2256.4	2259.1	2261.8	2264.5	2267.2	2269.9	2272.6	2275.3	2278.0	2280.7	2283.4	2286.1	2288.8	2291.5	2294.2	2296.9	2299.6	2302.3	2305.0	2307.7	2310.4	2313.1	2315.8	2318.5	2321.2	2323.9	2326.6	2329.3	2332.0	2334.7	2337.4	2340.1	2342.8	2345.5	2348.2	2350.9	2353.6	2356.3	2359.0	2361.7	2364.4	2367.1	2369.8	2372.5	2375.2	2377.9	2380.6	2383.3	2386.0	2388.7	2391.4	2394.1	2396.8	2399.5	2402.2	2404.9	2407.6	2410.3	2413.0	2415.7	2418.4	2421.1	2423.8	2426.5	2429.2	2431.9	2434.6	2437.3	2440.0	2442.7	2445.4	2448.1	2450.8	2453.5	2456.2	2458.9	2461.6	2464.3	2467.0	2469.7	2472.4	2475.1	2477.8	2480.5	2483.2	2485.9	2488.6	2491.3	2494.0	2496.7	2499.4	2502.1	2504.8	2507.5	2510.2	2512.9	2515.6	2518.3	2521.0	2523.7	2526.4	2529.1	2531.8	2534.5	2537.2	2539.9	2542.6	2545.3	2548.0	2550.7	2553.4	2556.1	2558.8	2561.5	2564.2	2566.9	2569.6	2572.3	2575.0	2577.7	2580.4	2583.1	2585.8	2588.5	2591.2	2593.9	2596.6	2599.3	2602.0	2604.7	2607.4	2610.1	2612.8	2615.5	2618.2	2620.9	2623.6	2626.3	2629.0	2631.7	2634.4	2637.1	2639.8	2642.5	2645.2	2647.9	2650.6	2653.3	2656.0	2658.7	2661.4	2664.1	2666.8	2669.5	2672.2	2674.9	2677.6	2680.3	2683.0	2685.7	2688.4	2691.1	2693.8	2696.5	2699.2	2701.9	2704.6	2707.3	2710.0	2712.7	2715.4	2718.1	2720.8	2723.5	2726.2	2728.9	2731.6	2734.3	2737.0	2739.7	2742.4	2745.1	2747.8	2750.5	2753.2	2755.9	2758.6	2761.3	2764.0	2766.7	2769.4	2772.1	2774.8	2777.5	2780.2	2782.9	2785.6	2788.3	2791.0	2793.7	2796.4	2799.1	2801.8	2804.5	2807.2	2809.9	2812.6	2815.3	2818.0	2820.7	2823.4	2826.1	2828.8	2831.5	2834.2	2836.9	2839.6	2842.3	2845.0	2847.7	2850.4	2853.1	2855.8	2858.5	2861.2	2863.9	2866.6	2869.3	2872.0	2874.7	2877.4	2880.1	2882.8	2885.5	2888.2	2890.9	2893.6	2896.3	2899.0	2901.7	2904.4	2907.1	2909.8	2912.5	2915.2	2917.9	2920.6	2923.3	2926.0	2928.7	2931.4	2934.1	2936.8	2939.5	2942.2	2944.9	2947.6	2950.3	2953.0	2955.7	2958.4	2961.1	2963.8	2966.5	2969.2	2971.9	2974.6	2977.3	2980.0	2982.7	2985.4

COOLING PERFORMANCE DATA

PH1442H41*

EXPANDED PERFORMANCE DATA

EXPANDED PERFORMANCE DATA

MODEL: *PH1442H41**

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.

COOLING OPERATION

IDB*	Airflow	Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
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	-					
		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	-					
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-					
		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	-					
		A/MPs	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	-					
		H/PR	240	258	272	-	269	289	305	-	306	329	347	-	348	375	396	-	392	422	445	-	433	466	492	-					
		LO/PR	111	118	129	-	117	125	136	-	122	130	141	-	128	136	149	-	134	143	156	-	139	148	161	-					
		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	-					
		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	-					
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-					
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	-							
A/MPs	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	-							
H/PR	237	255	270	-	266	286	302	-	303	326	344	-	345	371	392	-	388	417	441	-	429	461	487	-							
LO/PR	110	117	128	-	116	123	135	-	121	128	140	-	127	135	147	-	133	141	154	-	137	146	159	-							
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	-							
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	-							
Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-							
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	-							
A/MPs	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	-							
H/PR	230	248	261	-	258	278	293	-	294	316	334	-	334	360	380	-	376	405	428	-	416	447	472	-							
LO/PR	107	113	124	-	113	120	131	-	117	124	136	-	123	131	143	-	129	137	150	-	133	142	155	-							
75	1461	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					
		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					
		Delta T	21	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	22	20	16	11	20	18	15	10					
		KW	2.64	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					
		A/MPs	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					
		H/PR	242	260	275	287	272	292	309	322	309	332	351	366	352	379	400	417	396	426	450	469	437	471	497	518					
		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					
		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					
		S/T	0.81	0.73	0.55	0.35	0.84	0.75	0.57	0.37	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.83	0.62	0.40	0.93	0.83	0.63	0.41					
		Delta T	22	20	17	12	22	21	17	12	22	21	17	12	23	21	17	12	23	21	17	12	22	21	19	16	11				
KW	2.62	2.67	2.76	2.85	2.82	2.88	2.97	3.07	3.00	3.06	3.16	3.27	3.16	3.23	3.33	3.44	3.29	3.36	3.48	3.59	3.41	3.48	3.60	3.72							
A/MPs	10.6	10.8	11.1	11.5	11.4	11.6	12.0	12.5	12.3	12.6	13.0	13.5	13.2	13.5	13.9	14.4	14.0	14.3	14.8	15.3	14.8	15.2	15.7	16.2							
H/PR	240	258	272	284	269	289	306	319	306	329	347	362	348	375	396	413	392	422	445	464	433	466	492	513							
LO/PR	111	118	129	137	117	125	136	145	122	130	141	151	128	136	149	158	134	143	156	166	139	148	161	172							
Mbh	35.7	36.8	39.8	42.7	34.9	35.9	38.9	41.7	34.1	35.1	38.0	40.7	33.2	34.2	37.0	39.7	31.6	32.5	35.2	37.8	29.2	30.1	32.6	35.0							
S/T	0.78	0.70	0.53	0.34	0.81	0.72	0.55	0.35	0.83	0.74	0.56	0.36	0.86	0.77	0.58	0.37	0.89	0.80	0.60	0.39	0.90	0.80	0.61	0.39							
Delta T	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	20	16	11						
KW	2.55	2.61	2.69	2.78	2.75	2.81	2.90	2.99	2.92	2.99	3.09	3.19	3.08	3.14	3.25	3.36	3.21	3.28	3.39	3.50	3.32	3.39	3.51	3.63							
A/MPs	10.3	10.5	10.8	11.2	11.1	11.3	11.7	12.1	12.0	12.3	12.7	13.1	12.8	13.1	13.5	14.0	13.6	13.9	14.4	14.9	14.4	14.7	15.2	15.8							
H/PR	232	250	264	275	261	281	296	309	297	319	337	352	338	364	384	400	380	409	432	450	420	452	477	498							
LO/PR	108	114	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	138	151	161	135	143	156	166							

* IDB: Entering Indoor Dry Bulb Temperature

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

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

IDB* Airflow	Outdoor Ambient Temperature																													
	65					75					85					95					105					115				
	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
1461	MbH	40.6	41.5	44.3	47.3	39.6	40.5	43.3	46.2	38.7	39.5	42.2	45.1	37.7	38.6	41.2	44.0	35.9	36.6	39.1	41.8	33.2	33.9	36.3	38.8					
	S/T	0.93	0.87	0.71	0.53	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.61	1.00	1.00	0.82	0.61					
	Delta T	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	23	23	20	16	21	21	19	15					
	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					
	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					
	LO PR	113	120	131	140	120	127	139	148	124	132	144	154	131	139	152	161	137	146	159	169	141	151	164	175					
80	MbH	39.4	40.2	43.0	46.0	38.5	39.3	42.0	44.9	37.6	38.4	41.0	43.8	36.6	37.4	40.0	42.8	34.8	35.6	38.0	40.6	32.2	32.9	35.2	37.6					
	S/T	0.89	0.83	0.68	0.51	0.92	0.86	0.70	0.53	0.95	0.89	0.72	0.54	0.98	0.91	0.74	0.56	1.00	0.95	0.77	0.58	1.00	0.96	0.78	0.58					
	Delta T	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	22	19	16					
	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					
	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					
	HPR	242	260	275	287	272	292	309	322	309	332	351	366	352	379	400	417	396	426	450	469	437	471	497	518					
	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					
1139	MbH	36.4	37.1	39.7	42.4	35.5	36.3	38.8	41.4	34.7	35.4	37.8	40.5	33.8	34.6	36.9	39.5	32.1	32.8	35.1	37.5	29.8	30.4	32.5	34.7					
	S/T	0.86	0.80	0.65	0.49	0.89	0.83	0.68	0.51	0.91	0.85	0.70	0.52	0.94	0.88	0.72	0.54	0.98	0.92	0.75	0.56	0.98	0.92	0.75	0.56					
	Delta T	25	24	21	17	25	24	21	17	25	24	21	17	26	25	21	17	25	24	21	17	24	23	20	16					
	KW	2.57	2.63	2.71	2.80	2.77	2.83	2.92	3.02	2.95	3.01	3.11	3.21	3.10	3.17	3.28	3.39	3.23	3.31	3.42	3.53	3.35	3.42	3.54	3.66					
	AMPS	10.4	10.6	10.9	11.3	11.2	11.4	11.8	12.2	12.1	12.4	12.8	13.3	12.9	13.2	13.7	14.2	13.7	14.1	14.5	15.1	14.5	14.9	15.4	15.9					
	HPR	235	253	267	278	263	283	299	312	300	322	340	355	341	367	388	404	384	413	436	455	424	456	482	503					
	LO PR	109	116	126	134	115	122	133	142	119	127	139	148	125	133	146	155	131	140	153	163	136	145	158	168					

IDB* Airflow	Outdoor Ambient Temperature																													
	65					75					85					95					105					115				
	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75
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					
	LO PR	114	122	133	141	121	128	140	149	126	134	146	155	132	140	153	163	138	147	160	171	143	152	166	177					
1300	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					
	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					
	LO PR	113	120	131	140	120	127	139	148	124	132	144	154	131	139	152	161	137	146	159	169	141	151	164	175					
1139	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					
	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					
	LO PR	110	117	127	136	116	123	135	143	121	128	140	149	127	135	147	157	133	141	154	164	137	146	159	170					

NOTE: Shaded area reflects AHRJ Rating conditions

* Entering Indoor Dry Bulb Temperature

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)

COOLING PERFORMANCE DATA

PH1448H41*

MODEL: *PH1448H41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 11 ± 2 °F @ the liquid access fitting connection AHR195 test conditions. Design Superheat 7 ± 2 °F @ the compressor suction access fitting connection.

IDB*	Airflow	Outdoor Ambient Temperature																																																																																																																																															
		65							75							85							95							105							115																																																																																																												
		59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83																																																																																																						
70	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	-	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	-	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	-	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	-	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	-	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	-
	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	-	0.77	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	-	0.77	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	-	0.77	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	-	0.77	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	-	0.77	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	-
	Delta T	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-	18	15	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	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	-	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	-	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	-	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	-	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	-	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	-
	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	-	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	-	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	-	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	-	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	-	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	-
	HI PR	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	437	471	497	-	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	437	471	497	-	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	437	471	497	-	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	437	471	497	-	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	437	471	497	-	242	261	275	-	272	292	309	-	309	332	351	-	352	379	400	-	396	426	450	-	437	471	497	-
	LO PR	109	116	127	-	116	123	134	-	120	128	139	-	126	134	146	-	132	141	154	-	137	145	159	-	109	116	127	-	116	123	134	-	120	128	139	-	126	134	146	-	132	141	154	-	137	145	159	-	109	116	127	-	116	123	134	-	120	128	139	-	126	134	146	-	132	141	154	-	137	145	159	-	109	116	127	-	116	123	134	-	120	128	139	-	126	134	146	-	132	141	154	-	137	145	159	-	109	116	127	-	116	123	134	-	120	128	139	-	126	134	146	-	132	141	154	-	137	145	159	-	109	116	127	-	116	123	134	-	120	128	139	-	126	134	146	-	132	141	154	-	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	-	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	-	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	-	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	-	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	-	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	-
	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	-	0.74	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	-	0.74	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	-	0.74	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	-	0.74	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	-	0.74	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	-
	Delta T	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	17	15	11	-
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	-	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	-	2.97	3.03	3.12	-	3.19	3.26	3.36	-	3.39	3.46	3.57	-	3.56	3.64																																																																																			

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

IDB*	Airflow	Outdoor Ambient Temperature															Outdoor Ambient Temperature																																			
		65							75							85							95							105							115															
		59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83																
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	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		
		S/T	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	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	22	22	19	16	22	22	23	20	16	22	22	19	15	20	20	18	14	23	22	19	15	23	22	19	16	22	22	19	16	22	22	23	20	16	22	22	19	15	20	20	18	14
		KW	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	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	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	436	459	479	446	480	507	529	247	266	281	293	277	298	315	329	315	339	358	374	359	386	408	426	404	436	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	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	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	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	24	23	20	16	24	23	20	16	21	22	19	15	24	23	20	16	24	23	20	16	24	23	20	16	24	23	20	16	21	22	19	15	20	20	18	14	15		
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	3.83	3.95	3.78	3.86	3.99	4.12	3.91	3.99	4.13	4.27	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	3.83	3.95	3.78	3.86	3.99	4.12	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	16.8	17.3	16.8	17.2	17.7	18.4	17.7	18.1	18.7	19.4	13.0	13.2	13.6	14.1	13.9	14.2	14.6	15.1	15.0	15.3	15.8	16.3	15.9	16.3	16.8	17.3	16.8	17.2	17.7	18.4	17.7	18.1	18.7	19.4				
HI PR	245	263	278	290	274	295	312	325	312	336	355	370	356	383	404	421	400	430	455	474	442	476	502	524	245	263	278	290	274	295	312	325	312	336	355	370	356	383	404	421	400	430	455	474	442	476	502	524				
LO PR	110	118	128	137	117	124	136	144	121	129	141	150	127	136	148	158	134	142	155	165	138	147	160	171	110	118	128	137	117	124	136	144	121	129	141	150	127	136	148	158	134	142	155	165	138	147	160	171				
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	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				
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	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	24	23	20	16	25	24	21	16	25	24	21	17	24	23	20	16	23	22	19	15	20	20	18	14	15			
KW	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	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	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	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	107	114	124	133	113	120	132	140	118	125	137	146	124	132	144	153	130	138	150	160	134	143	156	166				

NOTE: Shaded area reflects AHRJ rating conditions

IDB*	Airflow	Outdoor Ambient Temperature															Outdoor Ambient Temperature																																		
		65							75							85							95							105							115														
		59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83	59	63	67	71	75	79	83															
85	1798	MBh	47.5	48.4	50.7	54.1	46.4	47.3	49.5	52.8	45.3	46.1	48.3	51.6	44.2	45.0	47.1	50.3	42.0	42.8	44.8	47.8	38.9	39.6	41.5	44.3	47.5	48.4	50.7	54.1	46.4	47.3	49.5	52.8	45.3	46.1	48.3	51.6	44.2	45.0	47.1	50.3	42.0	42.8	44.8	47.8	38.9	39.6	41.5	44.3	
		S/T	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	0.97	0.81	1.00	1.00	0.82	1.00	0.98	0.88	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.78	1.00	1.00	0.97	0.81	1.00	1.00	0.82			
		Delta T	24	24	23	20	24	24	23	20	23	24	23	20	23	23	23	23	20	21	22	23	20	20	20	19	24	24	23	20	24	24	23	20	23	24	23	20	21	22	23	20	20	20	20	20	20	20	20	20	19
		KW	3.06	3.13	3.22	3.33	3.29	3.37	3.47	3.59	3.50	3.58	3.69	3.82	3.68	3.77	3.89	4.02	3.84	3.92	4.05	4.19	3.97	4.06	4.20	4.34	3.06	3.13	3.22	3.33	3.29	3.37	3.47	3.59	3.50	3.58	3.69	3.82	3.68	3.77	3.89	4.02	3.84	3.92	4.05	4.19	3.97	4.06	4.20	4.34	
		AMPS	13.2	13.5	13.9	14.3	14.1	14.4	14.9	15.4	15.2	15.6	16.0	16.6	16.2	16.5	17.0	17.6	17.1	17.5	18.0	18.7	18.0	18.5	19.0	19.7	13.2	13.5	13.9	14.3	14.1	14.4	14.9	15.4	15.2	15.6	16.0	16.6	16.2	16.5	17.0	17.6	17.1	17.5	18.0	18.7	18.0	18.5	19.0	19.7	
	HI PR	250	269	284	296	280	301	318	332	318	343	362	377	363	390	412	430	408	439	464	484																														

COOLING PERFORMANCE DATA

PH1460H41*

MODEL: *PH1460H41**

EXPANDED PERFORMANCE DATA

COOLING OPERATION

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

IDB*	Airflow	Outdoor Ambient Temperature																																
		65					75					85					95					105					115							
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75								
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	-	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	-	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	-	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	-	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	-	21.6	22.1	22.8	-				
	1600	HI PR	237	255	269	-	266	286	302	-	302	325	343	-	344	370	391	-	387	417	440	-	428	460	486	-	428	460	486	-	428	460	486	-
		LO PR	107	114	124	-	113	120	131	-	118	125	137	-	124	131	144	-	130	138	150	-	134	143	156	-	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	-	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	-	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	-	20	17	13	-				
1402	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	-	4.64	4.75	4.91	-	4.81	4.92	5.09	-	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	-	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	-	423	456	481	-					
	LO PR	106	113	123	-	112	119	130	-	116	124	135	-	122	130	142	-	128	136	149	-	133	141	154	-	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	-	41.0	42.5	46.5	-					

IDB*	Airflow	Outdoor Ambient Temperature																													
		65					75					85					95					105					115				
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75					
75	1798	Mbh	56.8	58.5	63.3	67.9	55.5	57.1	61.8	66.4	54.2	55.8	60.4	64.8	52.8	54.4	58.9	63.2	50.2	51.7	55.9	60.0	46.5	47.9	51.8	55.6	46.5	47.9	51.8	55.6	
		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	0.93	0.83	0.63	0.40	
		Delta T	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	22	20	17	12	22	20	17	12	
		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	4.99	5.17	4.89	5.00	5.18	5.36	4.89	5.00	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	
	1600	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	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	
		Mbh	55.1	56.8	61.5	66.0	53.9	55.5	60.0	64.4	52.6	54.1	58.6	62.9	51.3	52.8	57.2	61.4	48.7	50.2	54.3	58.3	45.1	46.5	50.3	54.0	45.1	46.5	50.3	54.0	
		S/T	0.77	0.69	0.52	0.34	0.80	0.72	0.54	0.35	0.82	0.73	0.56	0.36	0.85	0.76	0.57	0.37	0.88	0.79	0.59	0.38	0.89	0.79	0.60	0.39	0.89	0.79	0.60	0.39	
		Delta T	24	23	18	13	25	23	19	13	25	23	19	13	25	23	19	13	25	23	19	13	23	21	17	12	23	21	17	12	
1402	KW	3.69	3.78	3.90	4.03	3.99	4.08	4.22	4.36	4.25	4.35	4.50	4.65	4.48	4.59	4.74	4.91	4.68	4.79	4.95	5.12	4.85	4.96	5.13	5.31	4.85	4.96	5.13	5.31		
	AMPS	15.6	15.9	16.4	17.0	16.8	17.1	17.7	18.3	18.1	18.5	19.1	19.8	19.3	19.7	20.4	21.1	20.5	20.9	21.6	22.4	21.6	22.1	22.8	23.7	21.6	22.1	22.8	23.7		
	HI PR	237	255	269	281	266	286	302	315	302	325	343	358	344	370	391	408	387	417	440	459	428	460	486	507	428	460	486	507		
	LO PR	107	114	124	133	113	120	131	140	118	125	137	146	124	131	144	153	130	138	150	160	134	143	156	166	134	143	156	166		
	Mbh	50.9	52.4	56.7	60.9	49.7	51.2	55.4	59.5	48.5	50.0	54.1	58.1	47.3	48.8	52.8	56.6	45.0	46.3	50.1	53.8	41.7	42.9	46.4	49.8	41.7	42.9	46.4	49.8		

* IDB: 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

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

IDB*	Airflow	Outdoor Ambient Temperature																																												
		65					75					85					95					105					115																			
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75															
80	1798	Mh	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	0.89	0.83	0.68	0.51	0.92	0.86	0.70	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
		S/T	26	25	22	17	27	25	22	18	27	25	22	18	27	26	22	18	27	26	22	18	26	25	22	18	24	24	24	21	16															
		Delta T	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																
		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	22.0	22.5	23.2	24.1																
		HI RR	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																
	LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	169	169	137	145	169	169																	
	Mh	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																	
	S/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																	
	Delta T	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																	
	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																	
HI RR	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	108	115	126	134	114	122	133	141	119	126	138	147	125	133	145	154	131	139	152	162	135	144	167	167	135	144	167	167																		
85	1798	Mh	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	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		S/T	28	28	26	23	28	28	26	23	28	28	26	23	28	28	26	23	27	27	26	23	25	25	24	21	25	25	24	21																
		Delta T	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	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	22.2	22.7	23.5	24.3																
		HI RR	244	263	277	289	274	295	311	324	311	335	354	369	355	382	403	420	399	429	453	473	441	474	501	522	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	138	147	160	171																	
	Mh	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	46.7	47.7	49.9	53.2																	
	S/T	29	29	27	23	29	29	27	24	30	29	27	24	30	29	27	24	29	29	27	24	27	27	25	22	27	27	25	22																	
	Delta T	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																	
	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	22.0	22.5	23.2	24.1																	
HI RR	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																		
LO PR	109	116	127	135	116	123	134	143	120	128	139	148	126	134	146	156	132	141	153	163	137	145	169	169	137	145	169	169																		
1402	Mh	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	43.1	44.0	46.1	49.1																	
	S/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	28	27	26	22																	
	Delta T	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	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	21.4	21.9	22.6	23.4																	
	HI RR	234	252	266	278	263	283	299	312	299	322	340	354	341	366	387	404	383	412	435	454	423	456	481	502	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	164	164	133	141	164	164																	
	Mh	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	43.1	44.0	46.1	49.1																	
	S/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	28	27	26	22																	
	Delta T	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	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	21.4	21.9	22.6	23.4																	
HI RR	234	252	266	278	263	283	299	312	299	322	340	354	341	366	387	404	383	412	435	454	423	456	481	502	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	164	164	133	141	164	164																		

NOTE: Shaded area reflects AHRI rating conditions

IDB*	Airflow	Outdoor Ambient Temperature																																												
		65					75					85					95					105					115																			
		59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75	59	63	67	71	75															
85	1798	Mh	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	0.93	0.90	0.81	0.66	0.96	0.93	0.84	0.68	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		S/T	28	28	26	23	28	28	26	23	28	28	26	23	28	28	26	23	27	27	26	23	25	25	24	21	25	25	24	21																
		Delta T	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	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	22.2	22.7	23.5	24.3																
		HI RR	244	263	277	289	274	295	311	324	311	335	354	369	355	382	403	420	399	429	453	473	441	474	501	522	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	138	147	160	171																	
	Mh	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	46.7	47.7	49.9	53.2																	
	S/T	29	29	27	23	29	29	27	24	30	29	27	24	30																																

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.

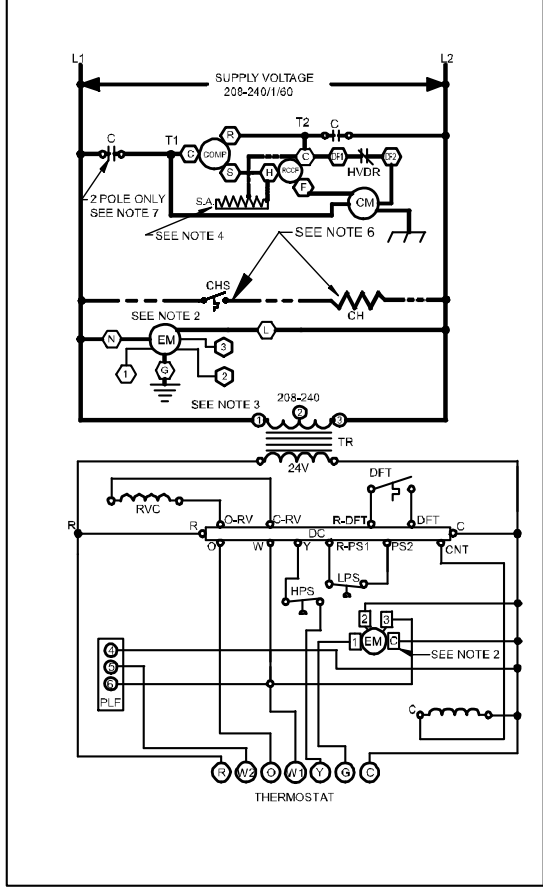
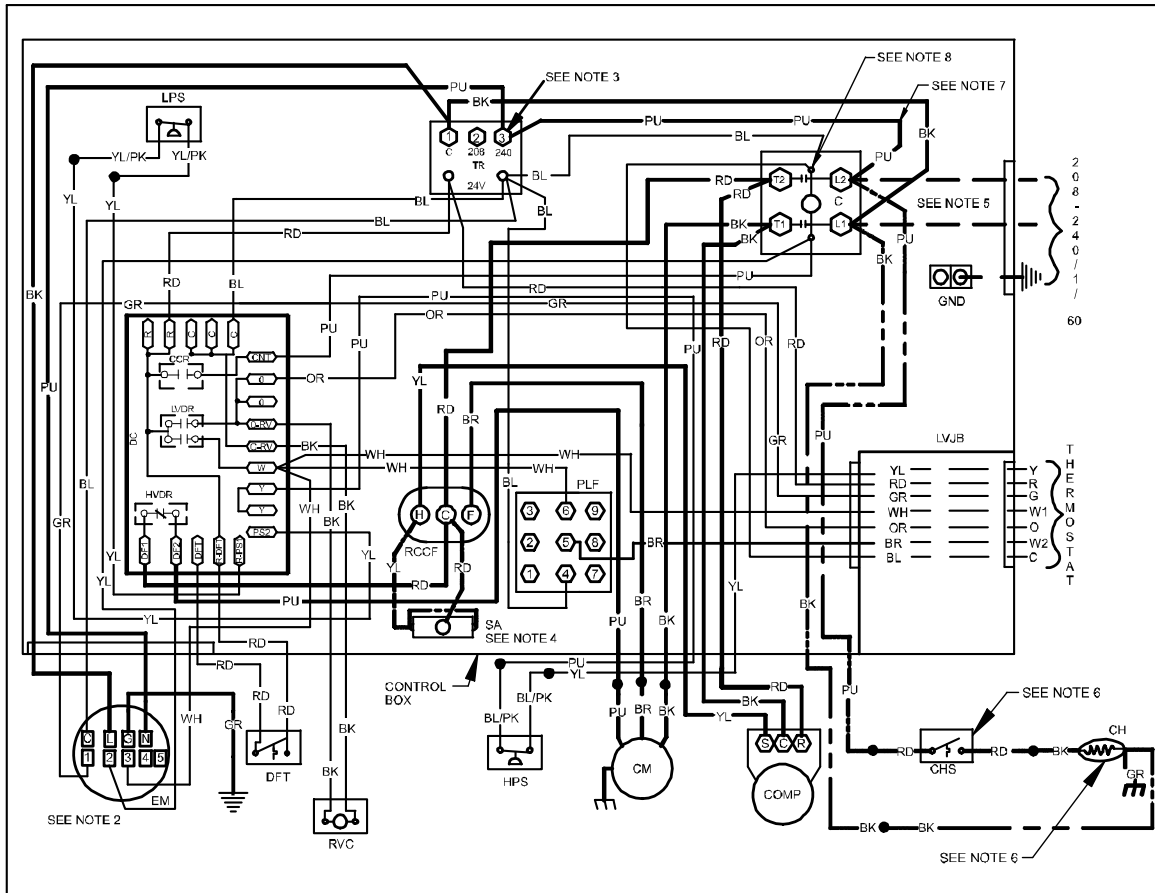
A properly operating unit should be within plus or minus **3 PSIG** of the **LO PR** shown.

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

WIRING DIAGRAMS

PH14[24-60]H41*

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.



COMPONENT LEGEND

C	CONTACTOR	FACTORY WIRING
CCR	COMPRESSOR CONTACTOR RELAY	— LINE VOLTAGE
CH	CRANKCASE HEATER	— LOW VOLTAGE
CHS	CRANKCASE HEATER SWITCH	— OPTIONAL HIGH VOLTAGE
CM	CONDENSER MOTOR	
COMP	COMPRESSOR	
DC	DEFROST CONTROL	
DFT	DEFROST THERMOSTAT	
DFT	DEFROST THERMOSTAT	
EM	EVAPORATOR MOTOR	
GND	EQUIPMENT GROUND	
HVDR	HIGH VOLTAGE DEFROST RELAY	
LPS	LOW PRESSURE SWITCH	
LVDR	LOW VOLTAGE DEFROST RELAY	
LVJB	LOW VOLTAGE JUNCTION BOX	
PLF	FEMALE PLUG / CONNECTOR	
RVC	REVERSING VALVE COIL	
RCCF	RUN CAPACITOR FOR COMPRESSOR AND FAN	
SA	START ASSIST	
TR	TRANSFORMER	
HPS	HIGH PRESSURE SWITCH	

NOTES:

1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
2. TO CHANGE EVAPORATOR MOTOR SPEED MOVE WHITE AND YELLOW LEADS FROM EM "2" AND "3" TO "4" AND "5". IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
3. FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
4. START ASSIST FACTORY EQUIPPED WHEN REQUIRED
5. USE COPPER CONDUCTORS ONLY
- ++ USE N.E.C. CLASS 2 WIRE
6. CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
7. DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.
8. COMMON SIDE OF CONTACTOR CAN NOT BE GROUNDED OR CONNECTED TO ANY OTHER COMMON (24V).

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

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