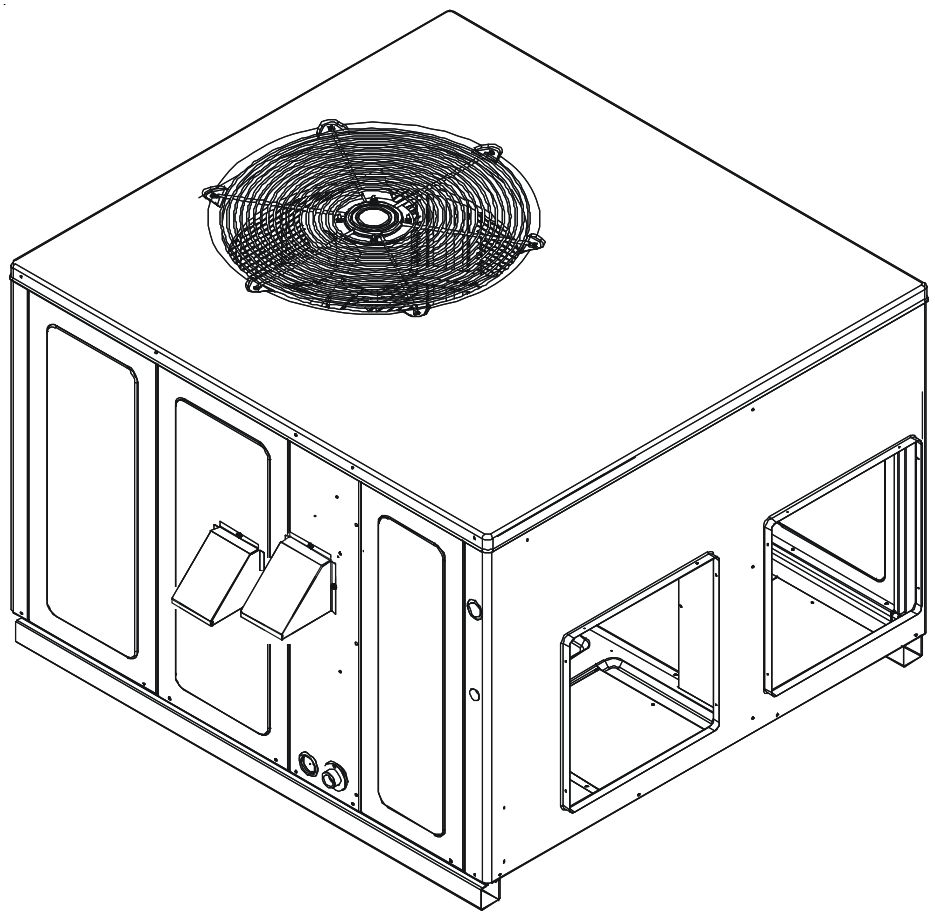
TECHNICAL MANUAL

*PD14
Dual Gas Package Units

- Refer to Service Manual RS6313000 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.

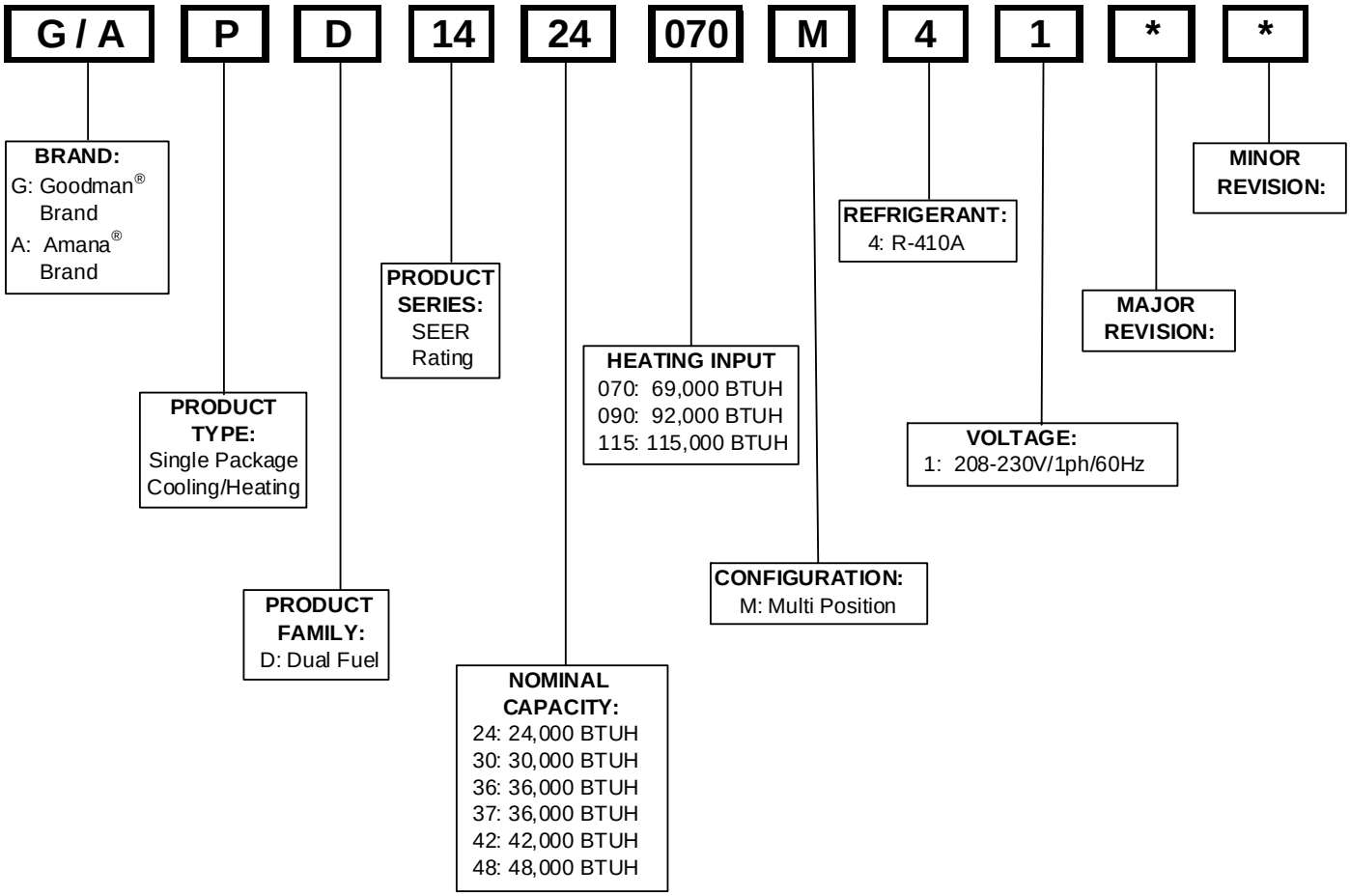


RT6313002r2
July 2013

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.

PRODUCT IDENTIFICATION

The model number is used for positive identification of component parts used in manufacturing. Please use this number 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 number is used for positive identification of component parts used in manufacturing. Please use this number when requesting service or parts information.

[A/G]PD1424070M41AA
[A/G]PD1430090M41AA
[A/G]PD1436090M41AA
[A/G]PD1437090M41AA
[A/G]PD1442115M41AA
[A/G]PD1448115M41AA

[A/G]PD1424070M41BA
[A/G]PD1430090M41BA
[A/G]PD1436090M41BA
[A/G]PD1442115M41BA
[A/G]PD1448115M41BA

** Indicates minor revision & is not used for order entry or inventory management*

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

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

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

PRODUCT DESIGN

*PD14 Duel Fuel Units are designed for outdoor installations only in either residential or light commercial applications and are available in 2, 2-1/2, 3, 3-1/2 & 4 ton sizes. They are designed for 208/230 volt single phase applications.

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

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

A 3/4" pipe is provided for removal of condensate water from the indoor coil. (Do not reduce the drain line size).

Refrigerant flow control is achieved by use of an orifice.

*PD14 units use the FasTest Access Fitting System which consists of 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 capacitors (PSC) design compressors. Starting components are therefore not required. A low MFD run capacitor assists the compressor to start and remains in the circuit during operation.

The *PD14*****41 models are equipped with EEM blower motors. EEM motors are constant torque motors with very low power consumption and are energized by a 24V signal from the ignition control board. The EEM features an integrated control module.

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

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

The *PD14 series package units use the Compliant Scroll compressor; there are a number of design characteristics which are different from the traditional reciprocating compressor.

- Due to their design Scroll compressors are inherently more tolerant of liquid refrigerant. **NOTE**: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued flood back or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.

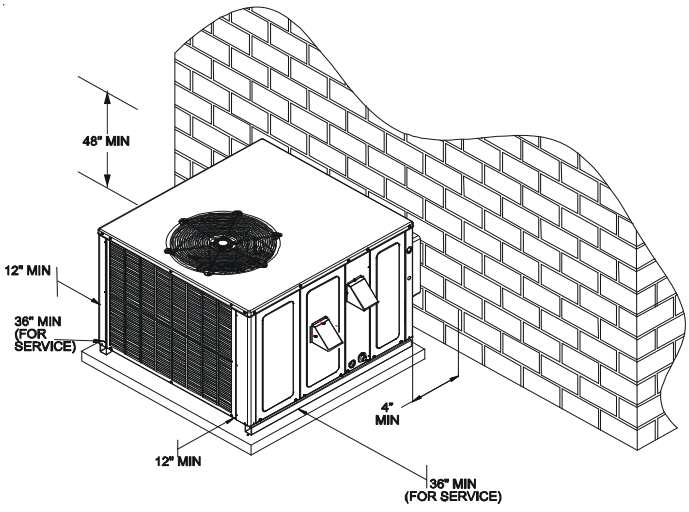
- These Scroll compressors use "POE" orpolyolester oil which is NOT compatible with mineral oilbased lubricants like 3GS. "POE" oil must be used if additional oil is required.

- Compliant scroll compressors perform “quiet” shutdowns that allow the compressor to restart immediately without the need for a time delay. This compressor will restart even if the system has not equalized.

- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the “Cooling Performance Data” section.

Location and Clearances

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

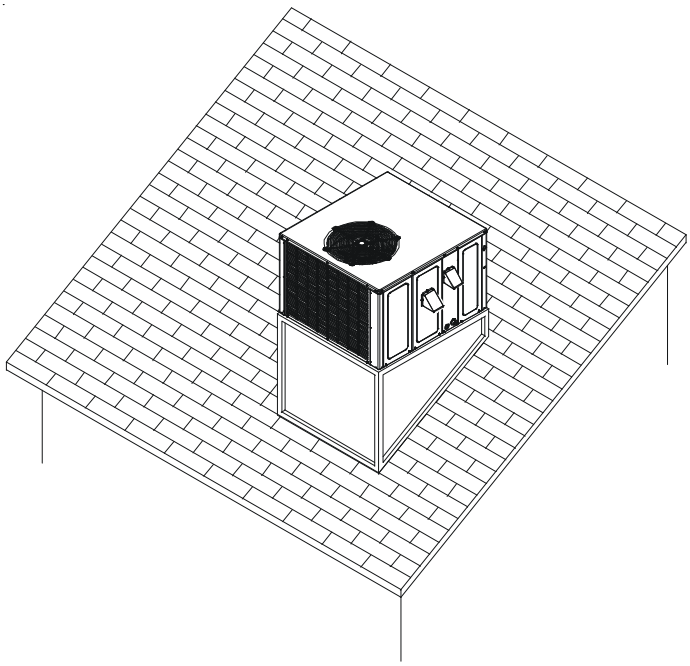


Outside Slab Installation

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.

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

PRODUCT DESIGN



Rooftop Installation

In installations where the unit is installed above ground level and not serviceable from the ground (Example: Roof Top installations) the installer must provide service platform for service person with rails or guards in accordance with local codes or ordinances or in their absence with the latest edition of the National Fuel Gas Code ANSIZ223.1.

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

WARNING

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

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

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

PRODUCT DESIGN

High Altitude Derate - U.S. Installations Only

IMPORTANT NOTE: The gas/electric units naturally derate with altitude. Do not attempt to increase the firing rate by changing orifices or increasing the manifold pressure. This can cause poor combustion and equipment failure. At all altitudes, the manifold pressure must be within 0.3 inches W.C. of that listed on the nameplate for the fuel used. At all altitudes and with either fuel, the air temperature rise must be within the range listed on the unit nameplate. Refer to the Installation Manual provided with the LP kit for conversion from natural gas to propane gas and for altitude adjustments.

When this package unit is installed at high altitude, the appropriate High Altitude orifice kit must be installed. As altitude increases, there is a natural reduction in the density of both the gas fuel and combustion air. This kit will provide the proper design certified input rate within the specified altitude range. High altitude kits are not approved for use in Canada. For installations above 2,000 feet, use kit HA-02. The HA-02 kit is used for both Natural and LP gas at high altitudes.

Use LPM-06 propane conversion kit for propane conversions at altitudes below 2000 feet. Natural gas installations below 2000 feet do not require a kit.

For propane conversions above 2000 feet, high altitude kit HA-02 is required in addtion to LPM-05 propane conversion kit.

NATURAL GAS AND LP GAS INSTALLATIONS AT ALTITUDES > 2000 FT

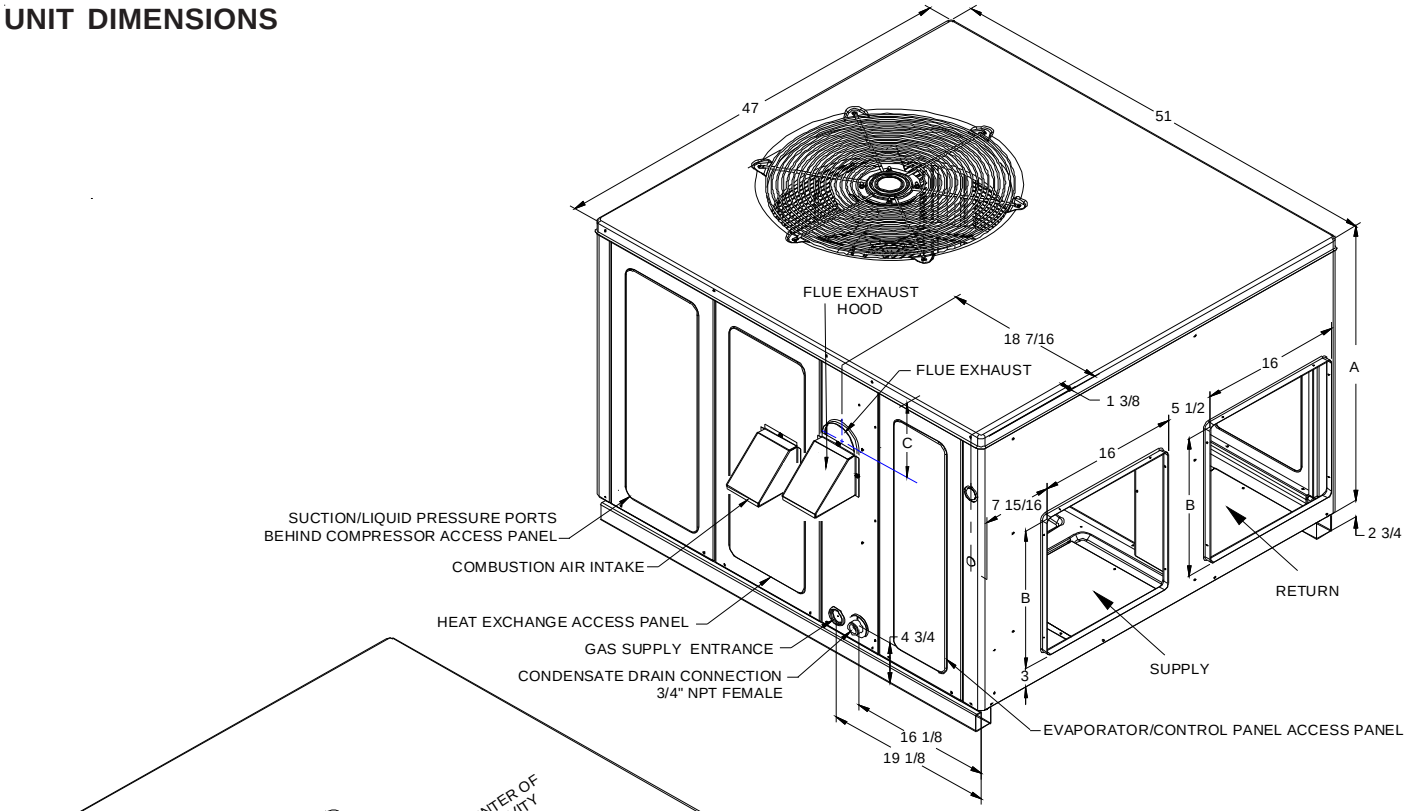
INPUT/BURNER	**HIGH ALTITUDE KIT**	**20,000 BTUH NAT/20,OOO BTUH/L.P.**							
		ELEVATION ABOVE SEA-LEVEL (FEET)							
		2000	**3000**	**4000**	**4500**	**5000**	**6000**	**7000**	**8000**
U.S. BURNER ORIFICE	HA02	45/55	47/55	47/56	-	47/56	48/57	48/58	49/58
CANADA BURNER ORIFICE		45/55	-	-	48/57	-	-	-	-

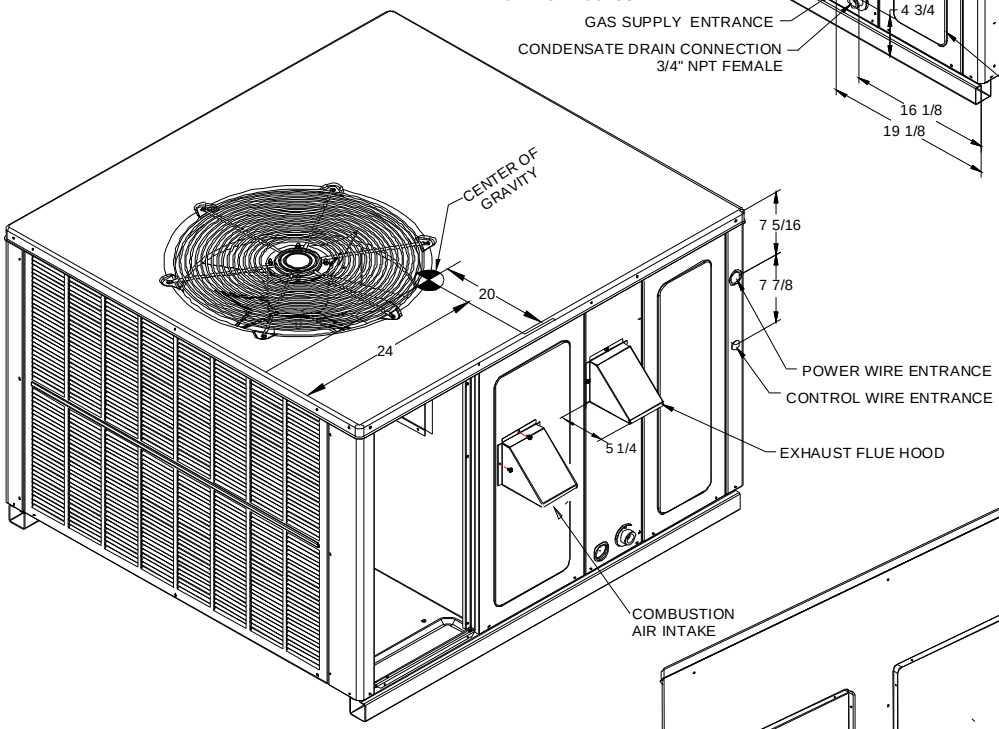
INPUT/BURNER	**HIGH ALTITUDE KIT**	**22,500 BTUH NAT/20,OOO BTUH/L.P.**							
		ELEVATION ABOVE SEA-LEVEL (FEET)							
		2000	**3000**	**4000**	**4500**	**5000**	**6000**	**7000**	**8000**
U.S. BURNER ORIFICE	HA02	44/55	44/55	45/56	-	45/56	46/57	47/58	47/58
CANADA BURNER ORIFICE		44/55	-	-	47/57	-	-	-	-

INPUT/BURNER	**HIGH ALTITUDE KIT**	**25,000 BTUH NAT/20,OOO BTUH/L.P.**							
		ELEVATION ABOVE SEA-LEVEL (FEET)							
		2000	**3000**	**4000**	**4500**	**5000**	**6000**	**7000**	**8000**
U.S. BURNER ORIFICE	HA02	43/55	43/55	44/56	-	44/56	44/56	45/57	45/57
CANADA BURNER ORIFICE		43/55	-	-	46/57	-	-	-	-

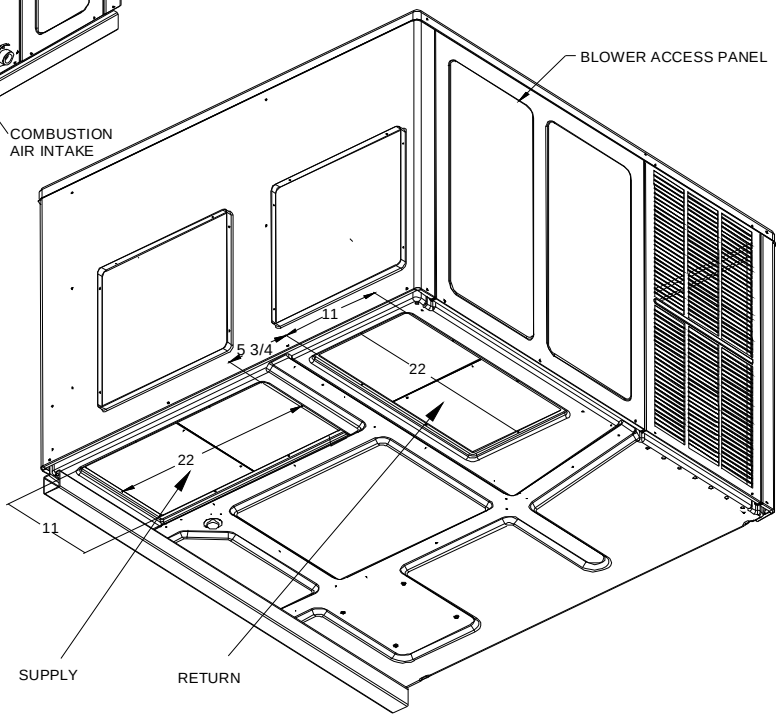
PRODUCT DIMENSIONS

UNIT DIMENSIONS





DIMENSION (INCHES)	MEDIUM	LARGE
A	32	40
B	16	18
C	9 1/2	14



MEDIUM CHASSIS

*PD14[24-37]

LARGE CHASSIS

*PD14[42-48]

PACKAGE GAS SPECIFICATIONS *PD14[24-48]**M41A*/B*

		PD1424 070M41A/B*	*PD1430 090M41A*/B*	*PD1436 090M41A*/B*	*PD1437 090M41A*	*PD1442 115M41A*/B*	*PD1448 115M41A*/B*
COOLING	Cooling Capacity, BTU/hr	23,800	28,000	35,200	34,000	41,500	45,500
	Sensible Capacity, BTU/hr	19,200	23,000	25,300	27,200	32,000	34,600
	SEER / EER	14.5 / 12.0	14.0 / 12.0	14.0 / 11.8	14.0 / 12.0	14.0 / 12.0	14.0 / 12.0
	Decibels	76	76	76	76	76	76
HEATING	Heating Capacity, BTU/hr (47°F)	23,800	28,000	32,600	34,000	40,000	44,000
	C.O.P. (47°F)	**3.6**	**3.6**	**3.6**	**3.4**	**3.6**	**3.6**
	Heating Capacity, BTU/hr (17°F)	13,000	16,000	19,600	19,800	24,000	24,600
	C.O.P. (17°F)	**2.3**	**2.3**	**2.4**	**2.4**	**2.4**	**2.4**
	HSPF	8.0	8.0	8.0	8.0	8.0	8
GAS HEATING	High-Fire Input (BTU/hr)	69,000	92,000	92,000	92,000	115,000	115,000
	High-Fire Output (BTU/hr)	55,000	72,900	72,900	72,900	91,200	91,200
	Low-Fire Input (BTU/hr)	51,500	69,000	69,000	69,000	86,000	86,000
	Low-Fire Output (BTU/hr)	40,500	55,000	55,000	55,000	69,000	69,000
	AFUE	80.0	80.0	80.0	80.0	80.0	80.0
	Temperature Rise Range (°F)	35 - 65	45 - 75	45 - 75	45 - 75	45 - 75	45 - 75
	# of Burners	3	4	4	4	5	5
	Orifice Size (Natural / LP)	43 / 55	43 / 55	43 / 55	43 / 55	43 / 55	43 / 55
	Primary Limit Setting (°F)	160	160	160	160	170	170
	Auxillary Limit Setting (°F)	150	150	150	150	150	150
	Rollout limit Setting (°F)	300	300	300	300	300	300
UNIT ELECTRICAL SPECIFICATIONS	Voltage / Phase / Hz	208 - 230 / 1 / 60	208 - 230 / 1 / 60	208 - 230 / 1 / 60	208 - 230 / 1 / 60	208 - 230 / 1 / 60	208 - 230 / 1 / 60
	Total Unit Amps	18.0	17.5	20.0	17.5	22.2	24.1
	Minimum Circuit Ampacity	21.2	21	24.2	21.0	26.7	29.1
	Maximum Overcurrent Protection	30	35	40	35	40	45
EVAPORATOR COIL	Face Area (ft^2)	4.3	4.3	4.3	4.3	5.7	5.7
	# Rows	3	3	4	3	4	4
	Fins per Inch	16	16	14	16	14	14
	Expansion Device (Orifice Diameter in.)	0.059	0.065	0.068	0.065	0.072	0.076
EVAPORATOR MOTOR	Wheel (D x W)	10" x 8"	10" x 9"	10" x 9"	10" x 9"	11" x 10"	11" x 10"
	Type	EEM	EEM	EEM	EEM	EEM	EEM
	Motor Horsepower	1/2	1/2	1/2	1/2	3/4	3/4
	Motor FLA	4.1	1.86	1.86	1.86	2.87	2.87
	# of Speeds	5	5	5	5	5	5
	Motor Speed Tap (Cooling & Heat Pump	T4	T4	T4	T4	T4	T4
	RPM (Cooling & Heat Pump)	755	810	880	880	880	950
	Nominal CFM (Cooling & Heat Pump)	**850**	**1,030**	**1,050**	**1,200**	**1,370**	**1,550**
CONDENSER COIL	Face Area (ft^2)	12.2	12.2	12.2	12.2	15.3	15.3
	# Rows	2	2	2	2	2	2
	Fins per Inch	16	16	16	16	16	16
	Expansion Device (Orifice Diameter in.)	0.045	0.047	0.061	0.047	0.055	0.057
CONDENSER MOTOR / FAN	Fan Diameter (in.)	22	22	22	22	22	22
	# of Blades	3	3	3	3	3	3
	Outdoor Nominal CFM	2,100	2,500	2,500	2,500	3,150	3,200
	Motor Horsepower	1/6	1/4	1/4	1/4	1/4	1/4
	Motor FLA	1.1	1.5	1.5	1.5	1.4	1.4
	RPM	815	837	837	837	1094	1094
COMPRESSOR	Type / Stage	Scroll / Single	Scroll / Single	Scroll / Single	Scroll / Single	Scroll / Single	Scroll / Single
	Run Load Amps	12.8	14.1	16.6	14.1	17.9	19.8
	Locked Rotor Amps	58.3	73.0	79.0	77.0	112.0	109.0
GENERAL INFORMATION	Filter Size (ft^2)	2.7	4.2	4.2	4.2	5.1	5.1
	Drain Size (NPT)	3/4	3/4	3/4	3/4	3/4	4-Mar
	Refrigerant Charge - R410A (oz)	120	108	124	113	206	185
	Entrance Size Power Supply	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8
	Entrance Size Control Voltage	7/8	7/8	7/8	7/8	7/8	7/8
	Operating Weight (lbs)	420	420	440	420	525	525
	Shipping Weight (lbs)	440	440	460	440	545	545

(1) Units installed in Canada are certifed only to 4500 feet.
(2) Calculated external filter size based on air velocity of 300 ft/min. and applies to disposable filters **only.**
(3) Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

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.

ACCESSORIES

ACCESSORIES	
Part Number	**Description**
LPM-05	Propane Conversion Kit
HA-02	High Altitude Kit
PGC101/102/103	Roof Curb
PDED101/102	Downflow Economizer *PD-M, Medium Chassis
PDED103	Downflow Economizer, *PD-M, Large Chassis
PDEH101/102	Horizontal Economizer, *PD-M, Medium Chassis
PDEH103	Horizontal Economizer, *PD-M, Large Chassis
PGMDD101/102	Manual 25% Fresh Air Damper Downflow Application, Medium Chassis
PGMDD103	Manual 25% Fresh Air Damper Downflow Application, Large Chassis
PGMDH102	Manual 25% Fresh Air Damper Horizontal Application, Medium Chassis
PGMDH103	Manual 25% Fresh Air Damper Horizontal Application, Large Chassis
PGMDMD101/102	Motorized 25% Fresh Air Damper Downflow Application, Medium Chassis
PGMDMD103	Motorized 25% Fresh Air Downflow Application, Large Chassis
PGMDMH102	Motorized 25% Fresh Air Damper Horizontal Application, Medium Chassis
PGMDMH103	Motorized 25% Fresh Air Damper Horizontal Application, Large Chassis
SQRPG101/102	Square to Round Adapter w/ 16" Round Downflow Application, Medium Chassis
SQRPG103	Square to Round Adapter w/ 18" Round Downflow Application, Large Chassis
SQRPGH101/102	Square to Round Adapter w/ 16" Round Horizontal Application, Medium Chassis
SQRPGH103	Square to Round Adapter w/ 18" Round Horizontal Application, Large Chassis
PGFR101/102/103	Internal Filter Rack All Chassis
GPGHFR101-103	External Horizontal Filter Rack for Goodman/Amana Gas/Electric & Multi-position Package Units All Chassis
CDK36	Flush Mount Concentric Duct Kit
CDK36515	Flush Mount Concentric Duct Kit w/ Filter
CDK36530	Step Down Concentric Duct Kit
CDK36535	Step Down Concentric Duct Kit w/ Filter
CDK4872	Flush Mount Concentric Duct Kit
CDK4872515	Flush Mount Concentric Duct Kit w/ Filter
CDK4872530	Step Down Concentric Duct Kit
CDK4872535	Step Down Concentric Duct Kit w/ Filter

NOTE: *Complete lineup of thermostats can be found in the Thermostat Specification Sheets.*

BLOWER PERFORMANCE DATA *PD14[24-48]*M41A*

***PD1424070M41A* - Rise Range: 35° - 65°**

Unit Static	T1 - 1st Stage Heating Speed				T2 - 2nd Stage Heating Speed				T3 - Cooling Speed			T4 - Cooling Speed			T5 - Cooling Speed		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	762	67	0.62	50	986	126	1.07	52	857	116	1.04	907	134	1.18	1,040	185	1.33
0.2	670	65	0.61	57	946	131	1.13	54	816	126	1.16	857	140	1.24	988	198	1.40
0.3	609	70	0.66	63	907	138	1.17	56	760	131	1.18	814	149	1.32	949	208	1.42
0.4	549	77	0.71	X	863	152	1.22	59	721	140	1.25	761	154	1.33	903	213	1.49
0.5	455	82	0.77	X	813	156	1.27	63	670	145	1.31	727	165	1.41	871	222	1.55
0.6	-	-	-	-	760	162	1.32	X	629	155	1.39	678	169	1.47	824	228	1.58
0.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

***PD1430909M41A* - Rise Range: 45° - 75°**

Unit Static	T1 - 1st Stage Heating Speed				T2 - 2nd Stage Heating Speed				T3 - Cooling Speed			T4 - Cooling Speed			T5 - Cooling Speed		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1,065	168	1.42	49	1,255	257	2.10	55	1,065	168	1.42	1,148	170	1.55	1,333	304	2.41
0.2	1,003	174	1.48	52	1,217	269	2.19	57	1,003	174	1.48	1,092	176	1.66	1,293	314	2.48
0.3	961	185	1.55	54	1,165	274	2.21	59	961	185	1.55	1,044	184	1.72	1,237	321	2.54
0.4	913	195	1.62	57	1,113	285	2.30	62	913	195	1.62	994	194	1.77	1,193	333	2.71
0.5	855	202	1.69	60	1,073	296	2.36	64	855	202	1.69	929	210	1.89	1,158	341	2.77
0.6	814	212	1.76	63	1,018	302	2.41	68	814	212	1.76	811	222	1.99	1,101	345	2.78
0.7	749	218	1.82	69	991	313	2.48	70	749	218	1.82	763	224	2.03	-	-	-
0.8	713	227	1.87	72	-	-	-	-	713	227	1.87	715	236	2.07	-	-	-

***PD1436090M41A* - Rise Range: 45° - 75°**

Unit Static	T1 - 1st Stage Heating Speed				T2 - 2nd Stage Heating Speed				T3 - Cooling Speed			T4 - Cooling Speed			T5 - Cooling Speed		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1,065	168	1.42	49	1,255	257	2.10	55	1,065	168	1.42	1,148	170	1.55	1,418	360	2.92
0.2	1,003	174	1.48	52	1,217	269	2.19	57	1,003	174	1.48	1,092	176	1.66	1,375	371	3.00
0.3	961	185	1.55	54	1,165	274	2.21	59	961	185	1.55	1,044	184	1.72	1,316	376	3.05
0.4	913	195	1.62	57	1,113	285	2.30	62	913	195	1.62	994	194	1.77	1,279	387	3.13
0.5	855	202	1.69	60	1,073	296	2.36	64	855	202	1.69	929	210	1.89	1,245	392	3.19
0.6	814	212	1.76	63	1,018	302	2.41	68	814	212	1.76	811	222	1.99	1,193	400	3.22
0.7	749	218	1.82	69	991	313	2.48	70	749	218	1.82	763	224	2.03	-	-	-
0.8	713	227	1.87	72	-	-	-	-	713	227	1.87	715	236	2.07	-	-	-

***PD1442115M41A* - Rise Range: 45° - 75°**

Unit Static	T1 - 1st Stage Heating Speed				T2 - 2nd Stage Heating Speed				T3 - Cooling Speed			T4 - Cooling Speed			T5 - Cooling Speed		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1,065	168	1.42	49	1,255	257	2.10	55	1,335	260	1.01	1,468	337	1.28	1,619	431	1.64
0.2	1,003	174	1.48	52	1,217	269	2.19	57	1,274	268	1.04	1,412	349	1.33	1,560	445	1.69
0.3	961	185	1.55	54	1,165	274	2.21	59	1,204	281	1.10	1,346	359	1.37	1,504	456	1.71
0.4	913	195	1.62	57	1,113	285	2.30	62	1,136	287	1.11	1,275	363	1.40	1,441	463	1.76
0.5	855	202	1.69	60	1,073	296	2.36	64	1,069	300	1.15	1,221	370	1.44	1,380	475	1.80
0.6	814	212	1.76	63	1,018	302	2.41	68	1,009	312	1.19	1,170	386	1.47	1,325	489	1.84
0.7	749	218	1.82	69	991	313	2.48	70	946	319	1.22	1,105	397	1.52	1,268	495	1.88
0.8	713	227	1.87	72	-	-	-	-	886	331	1.27	1,042	406	1.54	1,198	502	1.90

***PD1448115M41A* - Rise Range: 45° - 75°**

Unit Static	T1 - 1st Stage Heating Speed				T2 - 2nd Stage Heating Speed				T3 - Cooling Speed			T4 - Cooling Speed			T5 - Cooling Speed		
	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	RISE	CFM	WATTS	AMPS	CFM	WATTS	AMPS	CFM	WATTS	AMPS
0.1	1140	178	1.52	56	1417	305	2.46	61	1140	178	1.52	1,703	482	1.76	1,778	541	1.98
0.2	1090	188	1.57	59	1374	318	2.56	63	1090	188	1.57	1,651	494	1.80	1,720	553	2.02
0.3	1038	199	1.67	62	1322	327	2.68	65	1038	199	1.67	1,589	504	1.83	1,660	563	2.05
0.4	980	212	1.76	65	1273	338	2.72	68	980	212	1.76	1,537	514	1.88	1,614	574	2.09
0.5	914	220	1.79	70	1224	352	2.82	70	914	220	1.79	1,483	525	1.92	1,568	586	2.13
0.6	852	231	1.9	75	1176	365	2.88	73	852	231	1.9	1,435	536	1.95	1,511	595	2.17
0.7	806	242	1.97	X	1121	379	2.93	X	806	242	1.97	1,377	547	2.00	1,456	603	2.21
0.8	741	248	2.01	X	1068	391	2.98	X	741	248	2.01	1,326	554	2.03	1,407	616	2.25

BLOWER PERFORMANCE DATA

PD14[24-36]**M41B
PD1437**M41A

***PD1424070M41B* - Rise Range: 35° - 65° F**

E.S.P	T1 1ST Stage Heating Speed			T2 2nd Stage Heating Speed			T3 Cooling Speed		T4 Cooling Speed		T5 Cooling Speed	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	708	57	50	1004	129	52	859	94	885	103	1048	140
0.2	659	65	57	955	137	54	810	102	836	111	999	148
0.3	610	72	63	906	145	56	761	109	788	118	950	155
0.4	561	80	X	857	153	59	713	117	740	126	901	163
0.5	512	88	X	808	160	63	664	125	692	134	852	171
0.6	---	---	---	760	168	X	615	133	643	142	803	179
0.7	---	---	---	---	---	---	---	---	---	---	---	---
0.8	---	---	---	---	---	---	---	---	---	---	---	---

***PD1430090M41B* - Rise Range: 45° - 75° F**

E.S.P	T1 1ST Stage Heating Speed			T2 2nd Stage Heating Speed			T3 Cooling Speed		T4 Cooling Speed		T5 Cooling Speed	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	1059	137	49	1260	213	55	1059	137	1071	142	1333	234
0.2	1008	143.5	52	1212	221	57	1008	143.5	1023	149	1285	242
0.3	956	151	54	1165	229	59	956	151	976	157	1237	250
0.4	908	157.5	57	1117	236	62	908	157.5	928	164	1189	257
0.5	857	165.5	60	1069	244	64	857	165.5	880	172	1141	265
0.6	784	175	63	1021	252	68	784	175	832	180	1094	273
0.7	732	180	69	973	259	70	732	180	784	187	---	---
0.8	673	187.5	72	-	-	-	673	187.5	736	195	---	---

***PD1436090M41B* - Rise Range: 45° - 75° F**

E.S.P	T1 1ST Stage Heating Speed			T2 2nd Stage Heating Speed			T3 Cooling Speed		T4 Cooling Speed		T5 Cooling Speed	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	1053	143	49	1257	236	55	1136	181	1136	181	1408	304
0.2	1007	151	52	1211	243	57	1090	188	1090	188	1362	311
0.3	961	158	54	1165	250	59	1044	195	1044	195	1315	319
0.4	915	165	57	1119	258	62	997	203	997	203	1269	326
0.5	869	173	60	1073	265	64	951	210	951	210	1223	334
0.6	823	180	63	1027	273	68	905	218	905	218	1177	341
0.7	777	188	69	980	280	70	859	225	859	225	---	---
0.8	731	195	72	---	---	---	813	233	813	233	---	---

***PD1437090M41A* - Rise Range: 45° - 75° F**

E.S.P	T1 1ST Stage Heating Speed			T2 2nd Stage Heating Speed			T3 Cooling Speed		T4 Cooling Speed		T5 Cooling Speed	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	1059	137	49	1260	213	55	1317	230	1317	230	1453	269
0.2	1008	144	52	1212	221	57	1269	237	1269	237	1405	277
0.3	956	151	54	1165	229	59	1221	245	1221	245	1357	284
0.4	908	158	57	1117	236	62	1174	253	1174	253	1309	292
0.5	857	166	60	1069	244	64	1126	260	1126	260	1261	300
0.6	784	175	63	1021	252	68	1078	268	1078	268	1213	307
0.7	732	180	69	973	259	70	1030	276	1030	276	---	---
0.8	673	188	72	-	-	-	982	283	982	283	---	---

X = Outside of Temperature Rise Range - Not Recommended.

NOTE: *The shaded area indicates ranges in excess of maximum external static pressure allowable when heating. For satisfactory operation, external static pressure should not exceed 0.5" w.c.*

BLOWER PERFORMANCE DATA *PD14[42-48]*M41B*

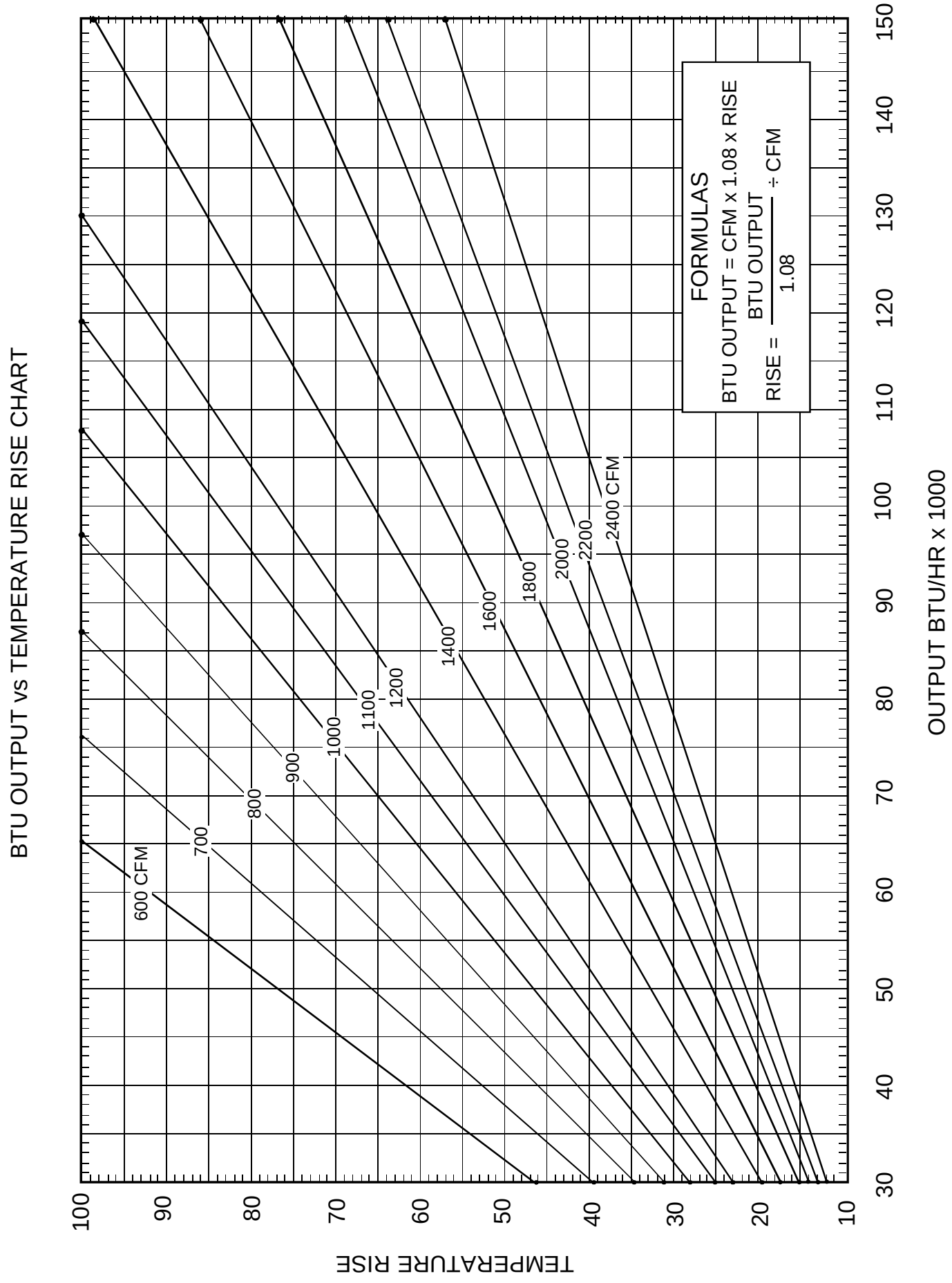
PD1442115M41B - Rise Range: 45° - 75° F												
E.S.P	T1 1ST Stage Heating Speed			T2 2nd Stage Heating Speed			T3 Cooling Speed		T4 Cooling Speed		T5 Cooling Speed	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	1090	150	52	1286	231	57	1354	260	1501	320	1609	365
0.2	1025	158	57	1225	239	61	1296	267	1446	328	1556	373
0.3	960	166	62	1165	247	64	1237	275	1391	336	1504	381
0.4	895	174	X	1105	255	X	1178	283	1336	344	1451	388
0.5	830	181	X	1045	262	X	1120	291	1281	352	1399	396
0.6	765	189	---	984	270	X	1061	299	1226	359	1347	404
0.7	699	197	---	924	278	---	1002	306	1171	367	1294	412
0.8	634	205	---	---	---	---	944	314	1116	375	1242	420

PD1448115M41B - Rise Range: 45° - 75° F												
E.S.P	T1 1ST Stage Heating Speed			T2 2nd Stage Heating Speed			T3 Cooling Speed		T4 Cooling Speed		T5 Cooling Speed	
	CFM	WATTS	RISE	CFM	WATTS	RISE	CFM	WATTS	CFM	WATTS	CFM	WATTS
0.1	1164	180	56	1435	293	61	1164	180	1675	392	1758	427
0.2	1100	188	59	1378	301	63	1100	188	1624	400	1709	435
0.3	1037	196	62	1322	309	65	1037	196	1573	408	1660	443
0.4	974	204	65	1265	316	68	974	204	1522	416	1612	450
0.5	910	212	70	1208	324	70	910	212	1472	424	1563	458
0.6	847	220	75	1152	332	73	847	220	1421	431	1514	466
0.7	784	227	X	1095	340	X	784	227	1370	439	1466	474
0.8	720	235	X	1038	348	X	720	235	1319	447	1417	482

X = Outside of Temperature Rise Range - Not Recommended.

NOTE: *The shaded area indicates ranges in excess of maximum external static pressure allowable when heating. For satisfactory operation, external static pressure should not exceed 0.5" w.c.*

BLOWER PERFORMANCE DATA



MODEL: *PD1424070M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	955	MBh	24.1	25.0	27.4	-	23.5	24.4	26.7	-	23.0	23.8	26.1	-	22.4	23.2	25.5	-	21.3	22.1	24.2	-	19.7	20.5	22.4	-
		S/T	0.82	0.68	0.47	-	0.85	0.71	0.49	-	0.87	0.73	0.50	-	0.90	0.75	0.52	-	0.93	0.78	0.54	-	0.94	0.78	0.54	-
		Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	15	12	-
		KW	1.56	1.59	1.64	-	1.68	1.72	1.78	-	1.79	1.83	1.89	-	1.89	1.93	2.00	-	1.97	2.02	2.08	-	2.04	2.09	2.16	-
		AMPS	6.5	6.6	6.8	-	6.9	7.1	7.3	-	7.5	7.7	7.9	-	8.0	8.2	8.4	-	8.5	8.7	8.9	-	8.9	9.2	9.4	-
		HI PR	232	250	264	-	260	280	296	-	296	319	336	-	337	363	383	-	379	408	431	-	419	451	476	-
		LO PR	111	118	129	-	117	125	136	-	122	130	141	-	128	136	149	-	134	143	156	-	139	148	161	-
	850	MBh	23.4	24.3	26.6	-	22.9	23.7	26.0	-	22.3	23.1	25.3	-	21.8	22.6	24.7	-	20.7	21.4	23.5	-	19.2	19.9	21.8	-
		S/T	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.71	0.49	-	0.89	0.74	0.51	-	0.90	0.75	0.52	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	16	12	-
		KW	1.54	1.58	1.63	-	1.67	1.71	1.76	-	1.78	1.82	1.88	-	1.87	1.91	1.98	-	1.95	2.00	2.07	-	2.02	2.07	2.14	-
		AMPS	6.4	6.5	6.7	-	6.9	7.0	7.3	-	7.4	7.6	7.8	-	7.9	8.1	8.4	-	8.4	8.6	8.9	-	8.9	9.1	9.4	-
		HI PR	230	247	261	-	258	277	293	-	293	315	333	-	334	359	379	-	376	404	427	-	415	446	471	-
		LO PR	110	117	128	-	116	123	135	-	121	128	140	-	127	135	147	-	133	141	154	-	137	146	159	-
	745	MBh	21.6	22.4	24.5	-	21.1	21.9	24.0	-	20.6	21.3	23.4	-	20.1	20.8	22.8	-	19.1	19.8	21.7	-	17.7	18.3	20.1	-
		S/T	0.75	0.63	0.43	-	0.78	0.65	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.48	-	0.86	0.71	0.50	-	0.86	0.72	0.50	-
		Delta T	20	17	13	-	20	18	13	-	20	18	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	1.51	1.54	1.59	-	1.63	1.66	1.72	-	1.73	1.77	1.83	-	1.82	1.87	1.93	-	1.90	1.95	2.01	-	1.97	2.02	2.09	-
		AMPS	6.2	6.4	6.6	-	6.7	6.9	7.1	-	7.2	7.4	7.6	-	7.7	7.9	8.1	-	8.2	8.4	8.6	-	8.6	8.8	9.1	-
		HI PR	223	240	253	-	250	269	284	-	284	306	323	-	324	348	368	-	364	392	414	-	402	433	457	-
		LO PR	107	113	124	-	113	120	131	-	117	124	136	-	123	131	143	-	129	137	150	-	133	142	155	-
75	955	MBh	24.5	25.2	27.3	29.3	23.9	24.7	26.7	28.6	23.4	24.1	26.1	28.0	22.8	23.5	25.4	27.3	21.7	22.3	24.1	25.9	20.1	20.7	22.4	24.0
		S/T	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.99	0.88	0.67	0.43	1.00	0.91	0.69	0.44	1.00	0.95	0.72	0.46	1.00	0.95	0.72	0.46
		Delta T	22	20	17	11	22	20	17	12	22	20	17	12	22	21	17	12	21	20	17	11	19	19	16	11
		KW	1.57	1.61	1.66	1.71	1.70	1.73	1.79	1.85	1.81	1.85	1.91	1.98	1.90	1.95	2.01	2.08	1.99	2.03	2.10	2.18	2.06	2.11	2.18	2.26
		AMPS	6.5	6.7	6.9	7.1	7.0	7.2	7.4	7.6	7.6	7.7	8.0	8.3	8.1	8.2	8.5	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.9
		HI PR	234	252	266	278	263	283	299	312	299	322	340	354	341	366	387	404	383	412	435	454	423	456	481	502
		LO PR	112	119	130	139	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	168	140	149	163	173
	850	MBh	23.8	24.5	26.5	28.5	23.2	23.9	25.9	27.8	22.7	23.4	25.3	27.1	22.1	**22.8**	24.7	26.5	21.0	21.7	23.4	25.2	19.5	20.1	21.7	23.3
		S/T	0.89	0.79	0.60	0.39	0.92	0.82	0.62	0.40	0.94	0.84	0.64	0.41	0.97	**0.87**	0.66	0.42	1.00	0.90	0.68	0.44	1.00	0.91	0.69	0.44
		Delta T	23	21	17	12	23	21	17	12	23	21	17	12	23	**21**	18	12	23	21	17	12	21	20	16	11
		KW	1.56	1.59	1.64	1.70	1.68	1.72	1.78	1.84	1.79	1.83	1.89	1.96	1.89	**1.93**	2.00	2.07	1.97	2.02	2.08	2.16	2.04	2.09	2.16	2.24
		AMPS	6.5	6.6	6.8	7.0	6.9	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	8.9	9.3	8.9	9.2	9.4	9.8
		HI PR	232	250	264	275	260	280	296	309	296	319	336	351	337	**363**	383	400	379	408	431	450	419	451	476	497
		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
	745	MBh	22.0	22.6	24.5	26.3	21.5	22.1	23.9	25.7	20.9	21.6	23.3	25.1	20.4	21.0	22.8	24.4	19.4	20.0	21.6	23.2	18.0	18.5	20.0	21.5
		S/T	0.85	0.76	0.58	0.37	0.89	0.79	0.60	0.39	0.91	0.81	0.61	0.40	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	0.98	0.88	0.66	0.43
		Delta T	23	21	17	12	23	22	18	12	23	22	18	12	24	22	18	12	23	21	18	12	22	20	16	11
		KW	1.52	1.55	1.60	1.66	1.64	1.68	1.73	1.79	1.75	1.79	1.85	1.91	1.84	1.88	1.95	2.01	1.92	1.96	2.03	2.10	1.99	2.03	2.10	2.18
		AMPS	6.3	6.4	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	8.2	8.4	8.7	9.0	8.7	8.9	9.2	9.5
		HI PR	225	242	256	267	253	272	287	299	287	309	326	340	327	352	372	388	368	396	418	436	407	438	462	482
		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

NOTE: Shaded area is ACCA (TVA) conditions

KW = Total system power

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

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

MODEL: *PD1424070M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	955	MBh	25.0	25.5	27.2	29.1	24.4	24.9	26.6	28.4	23.8	24.3	26.0	27.8	23.2	23.7	25.3	27.1	22.1	22.5	24.1	25.7	20.4	20.9	22.3	23.8
		S/T	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.85	0.64	1.00	1.00	0.89	0.66	1.00	1.00	0.89	0.67
		Delta T	24	23	20	16	23	24	21	16	23	23	21	17	22	23	21	17	21	22	21	16	20	20	19	15
		KW	1.58	1.62	1.67	1.73	1.71	1.75	1.81	1.87	1.82	1.86	1.93	1.99	1.92	1.97	2.03	2.10	2.01	2.05	2.12	2.20	2.08	2.13	2.20	2.28
		AMPS	6.6	6.7	6.9	7.2	7.1	7.2	7.4	7.7	7.6	7.8	8.0	8.3	8.1	8.3	8.6	8.9	8.6	8.8	9.1	9.4	9.1	9.3	9.6	10.0
		HI PR	237	255	269	281	266	286	302	315	302	325	343	358	344	370	391	408	387	416	440	459	428	460	486	507
		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
	850	MBh	24.2	24.8	26.4	28.3	23.7	24.2	25.8	27.6	23.1	23.6	25.2	27.0	22.5	23.0	**24.6**	26.3	21.4	21.9	23.4	25.0	19.8	20.3	21.6	23.1
		S/T	0.97	0.91	0.74	0.55	1.00	0.94	0.77	0.57	1.00	0.97	0.79	0.59	1.00	1.00	**0.81**	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.85	0.64
		Delta T	25	24	21	17	26	25	21	17	25	25	22	17	24	25	**22**	17	23	24	21	17	21	22	20	16
		KW	1.57	1.61	1.66	1.71	1.70	1.73	1.79	1.85	1.81	1.85	1.91	1.98	1.90	1.95	**2.01**	2.08	1.99	2.03	2.10	2.18	2.06	2.11	2.18	2.26
		AMPS	6.5	6.7	6.9	7.1	7.0	7.2	7.4	7.6	7.6	7.7	8.0	8.3	8.1	8.2	**8.5**	8.8	8.5	8.7	9.0	9.3	9.0	9.2	9.5	9.9
		HI PR	234	252	266	278	263	283	299	312	299	322	340	354	341	367	**387**	404	383	412	435	454	423	456	481	502
		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
	745	MBh	22.4	22.8	24.4	26.1	21.8	22.3	23.8	25.5	21.3	21.8	23.3	24.9	20.8	21.3	22.7	24.3	19.8	20.2	21.6	23.1	18.3	18.7	20.0	21.4
		S/T	0.94	0.88	0.72	0.53	0.97	0.91	0.74	0.55	1.00	0.93	0.76	0.57	1.03	0.96	0.78	0.59	1.07	1.00	0.81	0.61	1.08	1.01	0.82	0.61
		Delta T	26	25	22	17	26	25	22	17	26	25	22	17	26	25	22	18	26	25	22	17	24	23	20	16
		KW	1.53	1.57	1.62	1.67	1.65	1.69	1.75	1.81	1.76	1.80	1.86	1.92	1.86	1.90	1.96	2.03	1.94	1.98	2.05	2.12	2.01	2.05	2.12	2.20
		AMPS	6.3	6.5	6.7	6.9	6.8	7.0	7.2	7.4	7.4	7.5	7.8	8.0	7.8	8.0	8.3	8.6	8.3	8.5	8.8	9.1	8.8	9.0	9.3	9.6
		HI PR	227	245	258	269	255	274	290	302	290	312	330	344	330	356	375	392	372	400	422	441	411	442	467	487
		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
			NOTE: Shaded area reflects AHRI rating conditions																							
85	955	MBh	25.4	25.9	27.1	28.9	24.8	25.3	26.5	28.2	24.2	24.7	25.8	27.6	23.6	24.1	25.2	26.9	22.4	22.9	24.0	25.6	20.8	21.2	22.2	23.7
		S/T	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.99	0.80	1.00	1.00	1.00	0.83	1.00	1.00	1.00	0.86	1.00	1.00	1.00	0.87
		Delta T	24	25	24	21	24	24	25	21	23	24	25	21	23	23	24	21	22	22	23	21	20	20	21	20
		KW	1.60	1.63	1.69	1.74	1.72	1.76	1.82	1.88	1.84	1.88	1.94	2.01	1.94	1.98	2.05	2.12	2.02	2.07	2.14	2.21	2.10	2.14	2.22	2.30
		AMPS	6.6	6.8	7.0	7.2	7.1	7.3	7.5	7.8	7.7	7.9	8.1	8.4	8.2	8.4	8.6	9.0	8.7	8.9	9.2	9.5	9.2	9.4	9.7	10.1
		HI PR	239	257	272	283	268	289	305	318	305	328	347	362	347	374	395	412	391	421	444	463	432	465	491	512
		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
	850	MBh	24.6	25.1	26.3	28.1	24.1	24.5	25.7	27.4	23.5	24.0	25.1	26.8	22.9	23.4	24.5	26.1	21.8	22.2	23.3	24.8	20.2	20.6	21.5	23.0
		S/T	1.00	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.94	0.77	1.00	1.00	0.97	0.79	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.83
		Delta T	27	27	25	22	26	27	26	22	25	26	26	22	25	25	26	22	24	24	25	22	22	22	23	21
		KW	1.58	1.62	1.67	1.73	1.71	1.75	1.81	1.87	1.82	1.86	1.93	1.99	1.92	1.97	2.03	2.10	2.01	2.05	2.12	2.20	2.08	2.13	2.20	2.28
		AMPS	6.6	6.7	6.9	7.2	7.1	7.2	7.4	7.7	7.6	7.8	8.0	8.3	8.1	8.3	8.6	8.9	8.6	8.8	9.1	9.4	9.1	9.3	9.6	10.0
		HI PR	237	255	269	281	266	286	302	315	302	325	343	358	344	370	391	408	387	416	440	459	428	460	486	507
		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
	745	MBh	22.8	23.2	24.3	25.9	22.2	22.7	23.7	25.3	21.7	22.1	23.2	24.7	21.2	21.6	22.6	24.1	20.1	20.5	21.5	22.9	18.6	19.0	19.9	21.2
		S/T	0.98	0.95	0.86	0.69	1.00	0.98	0.89	0.72	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	0.98	0.80
		Delta T	28	27	26	22	27	27	26	22	27	27	26	22	26	27	26	23	25	25	26	22	23	23	24	21
		KW	1.54	1.58	1.63	1.68	1.67	1.70	1.76	1.82	1.78	1.82	1.88	1.94	1.87	1.91	1.98	2.05	1.95	2.00	2.07	2.14	2.02	2.07	2.14	2.22
		AMPS	6.4	6.5	6.7	7.0	6.9	7.0	7.3	7.5	7.4	7.6	7.8	8.1	7.9	8.1	8.3	8.6	8.4	8.6	8.9	9.2	8.9	9.1	9.4	9.7
		HI PR	230	247	261	272	258	277	293	305	293	315	333	347	334	359	379	395	375	404	427	445	415	446	471	492
		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 areas are TVA and AHRI Rating Conditions

IDB: Entering Indoor Dry Bulb Temperature

KW = Total system power

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

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

COOLING PERFORMANCE DATA

*PD1424**M41A*/B*

MODEL: *PD1430090M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1170	MBh	28.0	29.0	31.8	-	27.3	28.3	31.0	-	26.7	27.6	30.3	-	26.0	27.0	29.6	-	24.7	25.6	28.1	-	22.9	23.7	26.0	-
		S/T	0.82	0.69	0.48	-	0.85	0.71	0.49	-	0.88	0.73	0.51	-	0.90	0.76	0.52	-	0.94	0.78	0.54	-	0.95	0.79	0.55	-
		Delta T	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	18	16	12	-	17	15	11	-
		KW	1.87	1.90	1.96	-	2.01	2.05	2.11	-	2.13	2.18	2.25	-	2.24	2.29	2.37	-	2.34	2.39	2.47	-	2.42	2.47	2.55	-
		AMPS	8.2	8.4	8.6	-	8.8	8.9	9.2	-	9.4	9.6	9.9	-	10.0	10.2	10.5	-	10.5	10.7	11.0	-	11.0	11.3	11.6	-
		HI PR	225	242	256	-	253	272	287	-	287	309	326	-	327	352	372	-	368	396	418	-	407	438	462	-
		LO PR	111	118	129	-	117	124	136	-	122	129	141	-	128	136	148	-	134	142	155	-	138	147	161	-
	1040	MBh	27.2	28.2	30.8	-	26.5	27.5	30.1	-	25.9	26.8	29.4	-	25.3	26.2	28.7	-	24.0	24.9	27.3	-	22.2	23.0	25.2	-
		S/T	0.79	0.66	0.45	-	0.81	0.68	0.47	-	0.84	0.70	0.48	-	0.86	0.72	0.50	-	0.89	0.75	0.52	-	0.90	0.75	0.52	-
		Delta T	19	16	12	-	19	17	13	-	19	17	13	-	19	17	13	-	19	16	12	-	18	15	12	-
		KW	1.85	1.89	1.95	-	1.99	2.03	2.10	-	2.12	2.16	2.23	-	2.22	2.27	2.35	-	2.32	2.37	2.45	-	2.40	2.45	2.53	-
		AMPS	8.2	8.3	8.5	-	8.7	8.9	9.1	-	9.3	9.5	9.8	-	9.9	10.1	10.4	-	10.4	10.6	10.9	-	11.0	11.2	11.5	-
		HI PR	223	240	253	-	250	269	284	-	284	306	323	-	324	349	368	-	365	392	414	-	403	433	458	-
		LO PR	110	117	127	-	116	123	135	-	120	128	140	-	126	135	147	-	133	141	154	-	137	146	159	-
	910	MBh	25.1	26.0	28.5	-	24.5	25.4	27.8	-	23.9	24.8	27.1	-	23.3	24.2	26.5	-	22.2	23.0	25.2	-	20.5	21.3	23.3	-
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.81	0.67	0.47	-	0.83	0.69	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		KW	1.81	1.85	1.90	-	1.94	1.98	2.05	-	2.06	2.11	2.18	-	2.17	2.22	2.29	-	2.26	2.31	2.38	-	2.34	2.39	2.47	-
		AMPS	8.0	8.1	8.4	-	8.5	8.7	8.9	-	9.1	9.3	9.6	-	9.6	9.8	10.1	-	10.2	10.4	10.7	-	10.7	10.9	11.2	-
		HI PR	216	233	246	-	243	261	276	-	276	297	314	-	314	338	357	-	354	380	402	-	391	420	444	-
		LO PR	106	113	124	-	112	120	131	-	117	124	136	-	123	131	142	-	129	137	149	-	133	141	154	-
75	1170	MBh	28.4	29.3	31.7	34.0	27.8	28.6	31.0	33.2	27.1	27.9	30.2	32.4	26.5	27.2	29.5	31.7	25.1	25.9	28.0	30.1	23.3	24.0	26.0	27.9
		S/T	0.94	0.84	0.63	0.41	0.97	0.87	0.66	0.42	1.00	0.89	0.67	0.43	1.00	0.92	0.70	0.45	1.00	0.95	0.72	0.46	1.00	0.96	0.73	0.47
		Delta T	21	19	16	11	21	20	16	11	21	20	16	11	21	20	16	11	20	19	16	11	18	18	15	10
		KW	1.88	1.92	1.98	2.04	2.02	2.07	2.13	2.20	2.15	2.20	2.27	2.34	2.26	2.31	2.39	2.47	2.36	2.41	2.49	2.57	2.44	2.49	2.57	2.66
		AMPS	8.3	8.4	8.7	8.9	8.8	9.0	9.3	9.6	9.5	9.7	9.9	10.3	10.0	10.2	10.5	10.9	10.6	10.8	11.1	11.5	11.1	11.4	11.7	12.1
		HI PR	227	245	258	270	255	275	290	302	290	312	330	344	331	356	376	392	372	400	423	441	411	442	467	487
		LO PR	112	119	130	138	118	126	137	146	123	131	143	152	129	137	150	160	135	144	157	167	140	149	162	173
	1040	MBh	27.6	28.4	30.8	33.0	27.0	27.8	30.1	32.3	26.3	27.1	29.3	31.5	25.7	**26.5**	28.6	30.7	24.4	25.1	27.2	29.2	22.6	23.3	25.2	27.0
		S/T	0.89	0.80	0.60	0.39	0.93	0.83	0.63	0.40	0.95	0.85	0.64	0.41	0.98	**0.88**	0.66	0.43	1.00	0.91	0.69	0.44	1.00	0.92	0.69	0.45
		Delta T	22	20	16	11	22	20	17	12	22	20	17	12	22	**20**	17	12	22	20	17	11	20	19	15	11
		KW	1.87	1.90	1.96	2.03	2.01	2.05	2.12	2.18	2.13	2.18	2.25	2.32	2.24	**2.29**	2.37	2.44	2.34	2.39	2.47	2.55	2.42	2.47	2.55	2.64
		AMPS	8.2	8.4	8.6	8.9	8.8	8.9	9.2	9.5	9.4	9.6	9.9	10.2	10.0	**10.2**	10.5	10.8	10.5	10.7	11.0	11.4	11.0	11.3	11.6	12.0
		HI PR	225	242	256	267	253	272	287	299	287	309	327	341	327	**352**	372	388	368	396	418	436	407	438	462	482
		LO PR	111	118	129	137	117	125	136	145	122	129	141	150	128	**136**	148	158	134	142	156	166	139	147	161	171
	910	MBh	25.5	26.2	28.4	30.5	24.9	25.6	27.8	29.8	24.3	25.0	27.1	29.1	23.7	24.4	26.4	28.4	22.5	23.2	25.1	26.9	20.9	21.5	23.3	25.0
		S/T	0.86	0.77	0.58	0.38	0.89	0.80	0.60	0.39	0.92	0.82	0.62	0.40	0.94	0.85	0.64	0.41	0.98	0.88	0.66	0.43	0.99	0.88	0.67	0.43
		Delta T	22	20	17	12	22	21	17	12	22	21	17	12	23	21	17	12	22	21	17	12	21	19	16	11
		KW	1.82	1.86	1.92	1.98	1.96	2.00	2.06	2.13	2.08	2.13	2.19	2.26	2.19	2.24	2.31	2.38	2.28	2.33	2.40	2.48	2.36	2.41	2.49	2.57
		AMPS	8.0	8.2	8.4	8.7	8.6	8.7	9.0	9.3	9.2	9.4	9.6	9.9	9.7	9.9	10.2	10.5	10.3	10.5	10.8	11.1	10.8	11.0	11.3	11.7
		HI PR	218	235	248	259	245	264	279	291	279	300	317	330	317	342	361	376	357	384	406	423	395	425	448	468
		LO PR	107	114	125	133	114	121	132	140	118	126	137	146	124	132	144	153	130	138	151	161	134	143	156	166

*IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW = Total system power

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

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

MODEL: *PD1430090M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1170	MBh	29.0	29.6	31.6	33.8	28.3	28.9	30.9	33.0	27.6	28.2	30.1	32.2	26.9	27.5	29.4	31.4	25.6	26.1	27.9	29.9	23.7	24.2	25.9	27.7
		S/T	1.00	0.96	0.78	0.59	1.00	1.00	0.81	0.61	1.00	1.00	0.83	0.62	1.00	1.00	0.86	0.64	1.00	1.00	0.89	0.67	1.00	1.00	0.90	0.67
		Delta T	23	22	19	16	22	23	20	16	22	22	20	16	21	22	20	16	20	21	20	16	19	19	18	15
		KW	1.90	1.94	2.00	2.06	2.04	2.08	2.15	2.22	2.17	2.21	2.29	2.36	2.28	2.33	2.41	2.49	2.38	2.43	2.51	2.59	2.46	2.51	2.60	2.68
		AMPS	8.3	8.5	8.7	9.0	8.9	9.1	9.3	9.6	9.6	9.7	10.0	10.4	10.1	10.3	10.6	11.0	10.7	10.9	11.2	11.6	11.2	11.5	11.8	12.2
		HI PR	230	247	261	272	258	277	293	306	293	316	333	347	334	359	379	396	376	404	427	445	415	447	472	492
		LO PR	113	120	131	140	119	127	139	148	124	132	144	154	130	139	151	161	137	145	159	169	141	150	164	175
	1040	MBh	28.1	28.7	30.7	32.8	27.5	28.1	30.0	32.0	26.8	27.4	29.3	31.3	26.2	26.7	**28.5**	30.5	24.8	25.4	27.1	29.0	23.0	23.5	25.1	26.9
		S/T	0.98	0.92	0.75	0.56	1.00	0.95	0.78	0.58	1.00	0.98	0.79	0.59	1.00	1.00	**0.82**	0.61	1.00	1.00	0.85	0.64	1.00	1.00	0.86	0.64
		Delta T	24	23	20	16	24	24	21	16	24	24	21	16	23	24	**21**	17	22	22	20	16	20	21	19	15
		KW	1.88	1.92	1.98	2.04	2.02	2.07	2.13	2.20	2.15	2.20	2.27	2.34	2.26	2.31	**2.39**	2.47	2.36	2.41	2.49	2.57	2.44	2.49	2.57	2.66
		AMPS	8.3	8.4	8.7	8.9	8.8	9.0	9.3	9.6	9.5	9.7	9.9	10.3	10.0	10.2	**10.5**	10.9	10.6	10.8	11.1	11.5	11.1	11.4	11.7	12.1
		HI PR	227	245	258	270	255	275	290	303	290	312	330	344	331	356	**376**	392	372	400	423	441	411	442	467	487
		LO PR	112	119	130	138	118	126	137	146	123	131	143	152	129	137	**150**	160	135	144	157	167	140	149	162	173
	910	MBh	25.9	26.5	28.3	30.3	25.3	25.9	27.7	29.6	24.7	25.3	27.0	28.9	24.1	24.7	26.4	28.2	22.9	23.4	25.0	26.8	21.2	21.7	23.2	24.8
		S/T	0.94	0.89	0.72	0.54	0.98	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.04	0.97	0.79	0.59	1.08	1.01	0.82	0.61	1.00	1.02	0.83	0.62
		Delta T	25	24	21	16	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	21	22	19	15
		KW	1.84	1.87	1.93	1.99	1.98	2.02	2.08	2.15	2.10	2.14	2.21	2.28	2.21	2.25	2.33	2.40	2.30	2.35	2.42	2.51	2.38	2.43	2.51	2.59
		AMPS	8.1	8.3	8.5	8.7	8.6	8.8	9.1	9.3	9.3	9.4	9.7	10.0	9.8	10.0	10.3	10.6	10.3	10.6	10.9	11.2	10.9	11.1	11.4	11.8
		HI PR	221	237	251	262	248	266	281	293	282	303	320	334	321	345	364	380	361	388	410	428	399	429	453	472
		LO PR	109	115	126	134	115	122	133	142	119	127	138	147	125	133	145	155	131	140	152	162	136	144	158	168
			NOTE: Shaded area reflects AHRI rating conditions																							
85	1170	MBh	29.5	30.0	31.5	33.6	28.8	29.3	30.7	32.8	28.1	28.6	30.0	32.0	27.4	27.9	29.3	31.2	26.0	26.5	27.8	29.7	24.1	24.6	25.7	27.5
		S/T	1.00	1.00	0.94	0.76	1.00	1.00	0.97	0.79	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.83	1.00	1.00	1.00	0.87	1.00	1.00	1.00	0.87
		Delta T	23	24	23	20	23	23	23	20	22	23	23	20	22	22	23	20	20	21	22	20	19	19	20	19
		KW	1.91	1.95	2.01	2.08	2.06	2.10	2.17	2.24	2.19	2.23	2.30	2.38	2.30	2.35	2.43	2.51	2.40	2.45	2.53	2.61	2.48	2.53	2.62	2.71
		AMPS	8.4	8.6	8.8	9.1	9.0	9.2	9.4	9.7	9.6	9.8	10.1	10.4	10.2	10.4	10.7	11.1	10.8	11.0	11.3	11.7	11.3	11.6	11.9	12.3
		HI PR	232	250	264	275	260	280	296	309	296	319	336	351	337	363	383	400	379	408	431	450	419	451	476	497
		LO PR	114	121	133	141	121	128	140	149	125	133	146	155	132	140	153	163	138	147	160	171	143	152	166	177
	1040	MBh	28.6	29.2	30.5	32.6	27.9	28.5	29.8	31.8	27.3	27.8	29.1	31.1	26.6	27.1	28.4	30.3	25.3	25.8	27.0	28.8	23.4	23.9	25.0	26.7
		S/T	1.00	0.99	0.89	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	1.00	0.83	1.00	1.00	1.00	0.83
		Delta T	25	26	24	21	25	25	24	21	24	25	24	21	24	24	25	21	22	23	24	21	21	21	22	20
		KW	1.90	1.94	2.00	2.06	2.04	2.08	2.15	2.22	2.17	2.21	2.29	2.36	2.28	2.33	2.41	2.49	2.38	2.43	2.51	2.59	2.46	2.51	2.60	2.68
		AMPS	8.3	8.5	8.7	9.0	8.9	9.1	9.3	9.6	9.6	9.7	10.0	10.4	10.1	10.3	10.6	11.0	10.7	10.9	11.2	11.6	11.2	11.5	11.8	12.2
		HI PR	230	247	261	272	258	277	293	306	293	316	333	347	334	359	379	396	376	404	427	445	415	447	472	492
		LO PR	113	120	131	140	119	127	139	148	124	132	144	154	130	139	151	161	137	145	159	169	141	150	164	175
	910	MBh	26.4	26.9	28.2	30.1	25.8	26.3	27.5	29.4	25.2	25.7	26.9	28.7	24.6	25.0	26.2	28.0	23.3	23.8	24.9	26.6	21.6	22.0	23.1	24.6
		S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
		Delta T	26	26	25	21	26	26	25	22	25	26	25	22	25	25	25	22	24	24	25	21	22	22	23	20
		KW	1.85	1.89	1.95	2.01	1.99	2.03	2.10	2.17	2.11	2.16	2.23	2.30	2.22	2.27	2.35	2.42	2.32	2.37	2.45	2.53	2.40	2.45	2.53	2.62
		AMPS	8.2	8.3	8.5	8.8	8.7	8.9	9.1	9.4	9.3	9.5	9.8	10.1	9.9	10.1	10.4	10.7	10.4	10.6	10.9	11.3	10.9	11.2	11.5	11.9
		HI PR	223	240	253	264	250	269	284	296	284	306	323	337	324	349	368	384	364	392	414	432	403	433	458	477
		LO PR	110	117	127	136	116	123	135	143	120	128	140	149	126	135	147	156	133	141	154	164	137	146	159	170

* NOTE: Shaded areas are TVA and AHRI Rating Conditions IDB: 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)

MODEL: *PD1436090M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1170	MBh	34.8	36.0	39.5	-	34.0	35.2	38.6	-	33.1	34.4	37.6	-	32.3	33.5	36.7	-	30.7	31.8	34.9	-	28.5	29.5	32.3	-
		S/T	0.73	0.61	0.42	-	0.75	0.63	0.44	-	0.77	0.64	0.45	-	0.80	0.66	0.46	-	0.83	0.69	0.48	-	0.83	0.70	0.48	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	2.32	2.37	2.45	-	2.51	2.56	2.65	-	2.67	2.73	2.82	-	2.81	2.88	2.97	-	2.93	3.00	3.10	-	3.04	3.11	3.21	-
		AMPS	10.3	10.5	10.8	-	11.0	11.3	11.6	-	11.9	12.1	12.5	-	12.6	12.8	13.2	-	13.3	13.6	14.0	-	14.0	14.3	14.7	-
		HI PR	240	258	272	-	269	289	305	-	306	329	347	-	348	375	396	-	392	422	445	-	433	466	492	-
		LO PR	108	115	126	-	115	122	133	-	119	127	138	-	125	133	145	-	131	139	152	-	136	144	157	-
	1040	MBh	33.8	35.0	38.3	-	33.0	34.2	37.4	-	32.2	33.4	36.5	-	31.4	32.5	35.7	-	29.8	30.9	33.9	-	27.6	28.6	31.4	-
		S/T	0.69	0.58	0.40	-	0.72	0.60	0.41	-	0.74	0.61	0.43	-	0.76	0.63	0.44	-	0.79	0.66	0.46	-	0.79	0.66	0.46	-
		Delta T	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	21	18	14	-	19	17	13	-
		KW	2.30	2.35	2.43	-	2.49	2.54	2.62	-	2.65	2.71	2.80	-	2.79	2.85	2.95	-	2.91	2.97	3.08	-	3.01	3.08	3.19	-
		AMPS	10.2	10.4	10.7	-	10.9	11.2	11.5	-	11.8	12.0	12.4	-	12.5	12.7	13.1	-	13.2	13.5	13.9	-	13.9	14.2	14.6	-
		HI PR	237	255	270	-	266	286	302	-	303	326	344	-	345	371	392	-	388	417	441	-	429	461	487	-
		LO PR	107	114	125	-	113	121	132	-	118	125	137	-	124	132	144	-	130	138	151	-	134	143	156	-
	910	MBh	31.2	32.3	35.4	-	30.4	31.5	34.6	-	29.7	30.8	33.7	-	29.0	30.0	32.9	-	27.5	28.5	31.3	-	25.5	26.4	29.0	-
		S/T	0.67	0.56	0.39	-	0.69	0.58	0.40	-	0.71	0.59	0.41	-	0.73	0.61	0.42	-	0.76	0.63	0.44	-	0.77	0.64	0.44	-
		Delta T	21	18	14	-	21	18	14	-	21	18	14	-	21	19	14	-	21	18	14	-	20	17	13	-
		KW	2.25	2.30	2.37	-	2.42	2.48	2.56	-	2.58	2.64	2.72	-	2.72	2.78	2.87	-	2.83	2.90	3.00	-	2.93	3.00	3.10	-
		AMPS	10.0	10.2	10.5	-	10.7	10.9	11.2	-	11.5	11.7	12.1	-	12.2	12.4	12.8	-	12.9	13.1	13.5	-	13.5	13.8	14.3	-
		HI PR	230	248	261	-	258	278	293	-	294	316	334	-	334	360	380	-	376	405	428	-	416	447	472	-
		LO PR	104	111	121	-	110	117	128	-	114	122	133	-	120	128	139	-	126	134	146	-	130	138	151	-
75	1170	MBh	35.4	36.4	39.4	42.3	34.5	35.6	38.5	41.3	33.7	34.7	37.6	40.3	32.9	33.9	36.7	39.3	31.2	32.2	34.8	37.4	28.9	29.8	32.3	34.6
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.88	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.94	0.84	0.64	0.41	0.95	0.85	0.64	0.41
		Delta T	23	21	17	12	23	21	18	12	23	21	18	12	23	22	18	12	23	21	17	12	22	20	16	11
		KW	2.34	2.39	2.47	2.55	2.53	2.58	2.67	2.76	2.69	2.75	2.84	2.94	2.84	2.90	3.00	3.10	2.96	3.03	3.13	3.24	3.06	3.14	3.24	3.35
		AMPS	10.4	10.6	10.9	11.3	11.1	11.4	11.7	12.1	12.0	12.2	12.6	13.0	12.7	13.0	13.3	13.8	13.4	13.7	14.1	14.6	14.1	14.4	14.9	15.4
		HI 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	109	116	127	135	116	123	134	143	120	128	140	149	126	134	147	156	132	141	154	164	137	146	159	169
	1040	MBh	34.3	35.3	38.3	41.1	33.5	34.5	37.4	40.1	32.7	33.7	36.5	39.1	31.9	**32.9**	35.6	38.2	30.3	31.2	33.8	36.3	28.1	28.9	31.3	33.6
		S/T	0.79	0.70	0.53	0.34	0.82	0.73	0.55	0.36	0.84	0.75	0.57	0.36	0.86	**0.77**	0.58	0.38	0.90	0.80	0.61	0.39	0.90	0.81	0.61	0.39
		Delta T	24	22	18	12	24	22	18	13	24	22	18	13	24	**22**	18	13	24	22	18	13	22	21	17	12
		KW	2.32	2.37	2.45	2.53	2.51	2.56	2.65	2.74	2.67	2.73	2.82	2.92	2.81	**2.88**	2.97	3.07	2.93	3.00	3.10	3.21	3.04	3.11	3.21	3.33
		AMPS	10.3	10.5	10.8	11.2	11.0	11.3	11.6	12.0	11.9	12.1	12.5	12.9	12.6	**12.9**	13.2	13.7	13.3	13.6	14.0	14.5	14.0	14.3	14.7	15.3
		HI PR	240	258	272	284	269	289	306	319	306	329	348	362	348	**375**	396	413	392	422	445	464	433	466	492	513
		LO PR	108	115	126	134	115	122	133	142	119	127	138	147	125	**133**	145	155	131	139	152	162	136	144	157	168
	910	MBh	31.7	32.6	35.3	37.9	30.9	31.9	34.5	37.0	30.2	31.1	33.7	36.1	29.5	30.3	32.8	35.3	28.0	28.8	31.2	33.5	25.9	26.7	28.9	31.0
		S/T	0.76	0.68	0.51	0.33	0.79	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	0.38	0.87	0.78	0.59	0.38
		Delta T	24	22	18	13	25	23	19	13	25	23	19	13	25	23	19	13	24	22	18	13	23	21	17	12
		KW	2.27	2.32	2.39	2.47	2.44	2.50	2.58	2.67	2.60	2.66	2.75	2.84	2.74	2.80	2.90	2.99	2.86	2.92	3.02	3.13	2.96	3.03	3.13	3.24
		AMPS	10.1	10.3	10.6	10.9	10.8	11.0	11.3	11.7	11.6	11.8	12.2	12.6	12.3	12.5	12.9	13.3	13.0	13.2	13.6	14.1	13.7	14.0	14.4	14.9
		HI PR	232	250	264	276	261	281	296	309	297	319	337	352	338	364	384	400	380	409	432	450	420	452	477	498
		LO PR	105	112	122	130	111	118	129	137	115	123	134	143	121	129	141	150	127	135	148	157	131	140	153	163

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW = Total system power

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

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

MODEL: *PD1436090M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1170	MBh	36.0	36.8	39.3	42.0	35.1	35.9	38.4	41.0	34.3	35.1	37.5	40.0	33.5	34.2	36.5	39.1	31.8	32.5	34.7	37.1	29.5	30.1	32.2	34.4
		S/T	0.90	0.85	0.69	0.52	0.94	0.88	0.72	0.53	0.96	0.90	0.73	0.55	1.00	0.93	0.76	0.57	1.00	0.97	0.79	0.59	1.00	1.00	0.79	0.59
		Delta T	26	25	21	17	26	25	22	17	26	25	22	17	26	25	22	17	25	25	21	17	23	24	20	16
		KW	2.36	2.41	2.49	2.57	2.55	2.61	2.69	2.78	2.71	2.78	2.87	2.97	2.86	2.93	3.02	3.13	2.98	3.05	3.16	3.27	3.09	3.16	3.27	3.38
		AMPS	10.5	10.7	11.0	11.4	11.2	11.4	11.8	12.2	12.1	12.3	12.7	13.1	12.8	13.1	13.5	13.9	13.5	13.8	14.2	14.7	14.2	14.6	15.0	15.5
		HI PR	244	263	278	290	274	295	312	325	312	336	355	370	355	382	404	421	400	430	454	474	442	475	502	524
		LO PR	111	118	128	137	117	124	136	145	121	129	141	150	128	136	148	158	134	142	155	165	138	147	161	171
	1040	MBh	34.9	35.7	38.1	40.8	34.1	34.9	37.3	39.8	33.3	34.0	36.4	38.9	32.5	33.2	**35.5**	37.9	30.9	31.5	33.7	36.0	28.6	29.2	31.2	33.4
		S/T	0.86	0.81	0.66	0.49	0.89	0.84	0.68	0.51	0.92	0.86	0.70	0.52	0.95	0.89	**0.72**	0.54	0.98	0.92	0.75	0.56	0.99	0.93	0.76	0.57
		Delta T	27	26	22	18	27	26	22	18	27	26	23	18	27	26	**23**	18	27	26	22	18	25	24	21	17
		KW	2.34	2.39	2.47	2.55	2.53	2.58	2.67	2.76	2.69	2.75	2.84	2.94	2.84	2.90	**3.00**	3.10	2.96	3.03	3.13	3.24	3.07	3.14	3.24	3.36
		AMPS	10.4	10.6	10.9	11.3	11.1	11.4	11.7	12.1	12.0	12.2	12.6	13.0	12.7	13.0	**13.3**	13.8	13.4	13.7	14.1	14.6	14.1	14.4	14.9	15.4
		HI 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	110	117	127	135	116	123	134	143	120	128	140	149	126	134	**147**	156	132	141	154	164	137	146	159	169
	910	MBh	32.2	33.0	35.2	37.6	31.5	32.2	34.4	36.8	30.7	31.4	33.6	35.9	30.0	30.7	32.7	35.0	28.5	29.1	31.1	33.3	26.4	27.0	28.8	30.8
		S/T	0.83	0.78	0.64	0.47	0.86	0.81	0.66	0.49	0.88	0.83	0.67	0.50	0.91	0.86	0.70	0.52	0.95	0.89	0.72	0.54	0.96	0.90	0.73	0.54
		Delta T	27	26	23	18	27	26	23	18	27	26	23	18	28	27	23	18	27	26	23	18	25	24	21	17
		KW	2.28	2.33	2.41	2.49	2.46	2.52	2.60	2.69	2.62	2.68	2.77	2.87	2.76	2.83	2.92	3.02	2.88	2.95	3.05	3.15	2.99	3.05	3.16	3.27
		AMPS	10.2	10.4	10.7	11.0	10.9	11.1	11.4	11.8	11.7	11.9	12.3	12.7	12.4	12.6	13.0	13.5	13.1	13.4	13.8	14.2	13.8	14.1	14.5	15.0
		HI PR	235	253	267	278	263	284	299	312	300	322	340	355	341	367	388	404	384	413	436	455	424	456	482	503
		LO PR	106	113	123	131	112	119	130	139	117	124	135	144	123	130	142	152	128	137	149	159	133	141	154	164
			NOTE: Shaded area reflects AHRI rating conditions																							
85	1170	MBh	36.6	37.3	39.1	41.7	35.8	36.5	38.2	40.7	34.9	35.6	37.3	39.8	34.1	34.7	36.4	38.8	32.4	33.0	34.5	36.9	30.0	30.6	32.0	34.1
		S/T	0.95	0.92	0.83	0.67	0.98	0.95	0.86	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		Delta T	27	27	25	22	28	27	26	22	27	27	26	22	27	27	26	22	25	26	26	22	24	24	24	21
		KW	2.38	2.43	2.51	2.60	2.57	2.63	2.71	2.81	2.74	2.80	2.89	2.99	2.88	2.95	3.05	3.15	3.01	3.08	3.18	3.29	3.12	3.19	3.30	3.41
		AMPS	10.6	10.8	11.1	11.4	11.3	11.5	11.9	12.3	12.2	12.4	12.8	13.2	12.9	13.2	13.6	14.0	13.6	13.9	14.3	14.8	14.4	14.7	15.1	15.6
		HI PR	247	266	281	293	277	298	315	328	315	339	358	373	359	386	408	425	404	434	459	479	446	480	507	529
		LO PR	112	119	130	138	118	126	137	146	123	130	142	152	129	137	150	159	135	144	157	167	140	149	162	173
	1040	MBh	35.5	36.2	37.9	40.5	34.7	35.4	37.1	39.5	33.9	34.5	36.2	38.6	33.1	33.7	35.3	37.7	31.4	32.0	33.5	35.8	29.1	29.7	31.1	33.1
		S/T	0.90	0.87	0.79	0.64	0.94	0.90	0.82	0.66	0.96	0.93	0.84	0.68	0.99	0.96	0.86	0.70	1.00	0.99	0.90	0.73	1.00	1.00	0.90	0.73
		Delta T	28	28	26	23	29	28	27	23	29	28	27	23	29	29	27	23	28	28	27	23	26	26	25	21
		KW	2.36	2.41	2.49	2.57	2.55	2.61	2.69	2.78	2.71	2.78	2.87	2.97	2.86	2.93	3.02	3.13	2.98	3.05	3.16	3.27	3.09	3.16	3.27	3.38
		AMPS	10.5	10.7	11.0	11.4	11.2	11.4	11.8	12.2	12.1	12.3	12.7	13.1	12.8	13.1	13.5	13.9	13.5	13.8	14.2	14.7	14.2	14.6	15.0	15.5
		HI PR	244	263	278	290	274	295	312	325	312	336	355	370	355	382	404	421	400	430	454	474	442	475	502	524
		LO PR	111	118	128	137	117	124	136	145	121	129	141	150	128	136	148	158	134	142	155	165	138	147	161	171
	910	MBh	32.8	33.4	35.0	37.4	32.0	32.7	34.2	36.5	31.3	31.9	33.4	35.6	30.5	31.1	32.6	34.8	29.0	29.6	31.0	33.0	26.9	27.4	28.7	30.6
		S/T	0.87	0.84	0.76	0.62	0.90	0.87	0.79	0.64	0.93	0.89	0.81	0.65	0.96	0.92	0.83	0.68	0.99	0.96	0.86	0.70	1.00	0.97	0.87	0.71
		Delta T	29	28	27	23	29	29	27	24	29	29	27	24	30	29	27	24	29	29	27	23	27	27	25	22
		KW	2.30	2.35	2.43	2.51	2.49	2.54	2.62	2.71	2.65	2.70	2.79	2.89	2.79	2.85	2.95	3.05	2.91	2.97	3.07	3.18	3.01	3.08	3.19	3.30
		AMPS	10.2	10.4	10.7	11.1	10.9	11.2	11.5	11.9	11.8	12.0	12.4	12.8	12.5	12.7	13.1	13.6	13.2	13.5	13.9	14.3	13.9	14.2	14.6	15.1
		HI PR	237	255	269	281	266	286	302	315	303	326	344	359	345	371	392	409	388	417	441	460	428	461	487	508
		LO PR	107	114	125	133	113	121	132	140	118	125	137	146	124	132	144	153	130	138	151	160	134	143	156	166

* NOTE: Shaded areas are TVA and AHRI Rating Conditions IDB: 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)

MODEL: *PD1437090M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1350	MBh	33.4	34.6	37.9	-	32.6	33.8	37.0	-	31.8	33.0	36.2	-	31.1	32.2	35.3	-	29.5	30.6	33.5	-	27.3	28.3	31.0	-
		S/T	0.81	0.67	0.47	-	0.84	0.70	0.48	-	0.86	0.72	0.50	-	0.89	0.74	0.51	-	0.92	0.77	0.53	-	0.93	0.77	0.54	-
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	2.24	2.29	2.36	-	2.41	2.46	2.54	-	2.56	2.62	2.70	-	2.70	2.76	2.85	-	2.81	2.87	2.97	-	2.91	2.97	3.07	-
		AMPS	9.8	10.0	10.2	-	10.4	10.6	10.9	-	11.2	11.4	11.8	-	11.9	12.1	12.5	-	12.5	12.8	13.2	-	13.2	13.5	13.9	-
		HI PR	240	258	272	-	269	290	306	-	306	329	348	-	349	375	396	-	392	422	446	-	433	466	492	-
		LO PR	109	116	126	-	115	122	133	-	119	127	139	-	125	133	146	-	131	140	153	-	136	145	158	-
	1200	MBh	32.4	33.6	36.8	-	31.7	32.8	36.0	-	30.9	32.0	35.1	-	30.2	31.3	34.3	-	28.7	29.7	32.5	-	26.5	27.5	30.1	-
		S/T	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.82	0.68	0.47	-	0.84	0.71	0.49	-	0.88	0.73	0.51	-	0.88	0.74	0.51	-
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		KW	2.23	2.27	2.34	-	2.39	2.45	2.52	-	2.54	2.60	2.68	-	2.67	2.73	2.82	-	2.79	2.85	2.94	-	2.88	2.95	3.04	-
		AMPS	9.7	9.9	10.2	-	10.4	10.6	10.9	-	11.1	11.3	11.7	-	11.8	12.0	12.4	-	12.4	12.7	13.1	-	13.1	13.3	13.7	-
		HI PR	237	255	270	-	266	287	303	-	303	326	344	-	345	371	392	-	388	418	441	-	429	462	487	-
		LO PR	108	115	125	-	114	121	132	-	118	126	137	-	124	132	144	-	130	138	151	-	135	143	156	-
	1050	MBh	29.9	31.0	34.0	-	29.2	30.3	33.2	-	28.5	29.6	32.4	-	27.8	28.9	31.6	-	26.4	27.4	30.0	-	24.5	25.4	27.8	-
		S/T	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.81	0.68	0.47	-	0.84	0.71	0.49	-	0.85	0.71	0.49	-
		Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	18	16	12	-
		KW	2.17	2.22	2.29	-	2.34	2.39	2.46	-	2.48	2.53	2.62	-	2.61	2.67	2.75	-	2.72	2.78	2.87	-	2.81	2.87	2.97	-
		AMPS	9.5	9.7	9.9	-	10.1	10.3	10.6	-	10.8	11.1	11.4	-	11.5	11.7	12.1	-	12.1	12.4	12.7	-	12.7	13.0	13.4	-
		HI PR	230	248	262	-	258	278	294	-	294	316	334	-	335	360	380	-	377	405	428	-	416	448	473	-
		LO PR	104	111	121	-	110	117	128	-	115	122	133	-	120	128	140	-	126	134	147	-	131	139	152	-
75	1350	MBh	34.0	35.0	37.8	40.6	33.2	34.2	37.0	39.7	32.4	33.3	36.1	38.7	31.6	32.5	35.2	37.8	30.0	30.9	33.4	35.9	27.8	28.6	31.0	33.3
		S/T	0.92	0.82	0.62	0.40	0.95	0.85	0.64	0.41	0.97	0.87	0.66	0.42	1.00	0.90	0.68	0.44	1.00	0.93	0.71	0.45	1.00	0.94	0.71	0.46
		Delta T	21	20	16	11	21	20	16	11	21	20	16	11	22	20	16	11	20	20	16	11	19	18	15	10
		KW	2.26	2.31	2.38	2.46	2.43	2.49	2.56	2.65	2.59	2.64	2.73	2.82	2.72	2.78	2.87	2.97	2.83	2.90	2.99	3.09	2.93	3.00	3.10	3.20
		AMPS	9.8	10.0	10.3	10.6	10.5	10.7	11.0	11.4	11.3	11.5	11.9	12.2	12.0	12.2	12.6	13.0	12.6	12.9	13.3	13.7	13.3	13.6	14.0	14.4
		HI PR	242	261	275	287	272	293	309	322	309	333	351	366	352	379	400	417	396	426	450	469	438	471	497	519
		LO PR	110	117	128	136	116	124	135	144	121	128	140	149	127	135	147	157	133	141	154	164	137	146	160	170
	1200	MBh	33.0	33.9	36.7	39.4	32.2	33.2	35.9	38.5	31.4	32.4	35.0	37.6	30.7	**31.6**	34.2	36.7	29.1	30.0	32.5	34.9	27.0	27.8	30.1	32.3
		S/T	0.87	0.78	0.59	0.38	0.91	0.81	0.61	0.39	0.93	0.83	0.63	0.40	0.96	**0.86**	0.65	0.42	1.00	0.89	0.67	0.43	1.00	0.90	0.68	0.44
		Delta T	22	20	17	12	22	21	17	12	22	21	17	12	23	**21**	17	12	22	20	17	12	21	19	16	11
		KW	2.24	2.29	2.36	2.44	2.41	2.47	2.54	2.63	2.56	2.62	2.70	2.79	2.70	**2.76**	2.85	2.94	2.81	2.87	2.97	3.07	2.91	2.97	3.07	3.17
		AMPS	9.8	10.0	10.2	10.6	10.4	10.6	10.9	11.3	11.2	11.4	11.8	12.1	11.9	**12.1**	12.5	12.9	12.5	12.8	13.2	13.6	13.2	13.5	13.9	14.3
		HI PR	240	258	273	284	269	290	306	319	306	329	348	363	349	**375**	396	413	392	422	446	465	433	466	492	514
		LO PR	109	116	126	135	115	122	134	142	119	127	139	148	125	**134**	146	155	132	140	153	163	136	145	158	168
	1050	MBh	30.4	31.3	33.9	36.4	29.7	30.6	33.1	35.6	29.0	29.9	32.3	34.7	28.3	29.1	31.5	33.9	26.9	27.7	30.0	32.2	24.9	25.7	27.8	29.8
		S/T	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.80	0.61	0.39	0.93	0.83	0.63	0.40	0.96	0.86	0.65	0.42	0.97	0.87	0.66	0.42
		Delta T	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11
		KW	2.19	2.24	2.31	2.38	2.36	2.41	2.48	2.56	2.50	2.56	2.64	2.72	2.63	2.69	2.78	2.87	2.74	2.80	2.89	2.99	2.83	2.90	2.99	3.09
		AMPS	9.6	9.7	10.0	10.3	10.2	10.4	10.7	11.0	10.9	11.2	11.5	11.8	11.6	11.8	12.2	12.6	12.2	12.5	12.8	13.3	12.8	13.1	13.5	14.0
		HI PR	233	250	264	276	261	281	297	309	297	319	337	352	338	364	384	401	380	409	432	451	420	452	478	498
		LO PR	106	112	123	131	111	119	129	138	116	123	135	143	122	129	141	151	128	136	148	158	132	140	153	163

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW = Total system power

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

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

MODEL: *PD1437090M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1350	MBh	34.6	35.3	37.7	40.3	33.8	34.5	36.9	39.4	33.0	33.7	36.0	38.5	32.2	32.9	35.1	37.5	30.5	31.2	33.3	35.6	28.3	28.9	30.9	33.0
		S/T	1.00	0.94	0.77	0.57	1.00	1.00	0.80	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.84	0.63	1.00	1.00	0.87	0.65	1.00	1.00	0.88	0.66
		Delta T	24	23	20	16	23	23	20	16	22	23	20	16	22	22	20	16	21	21	20	16	19	20	19	15
		KW	2.28	2.33	2.40	2.48	2.45	2.51	2.59	2.67	2.61	2.66	2.75	2.84	2.74	2.80	2.89	2.99	2.86	2.92	3.02	3.12	2.96	3.02	3.12	3.23
		AMPS	9.9	10.1	10.4	10.7	10.6	10.8	11.1	11.5	11.4	11.6	11.9	12.3	12.0	12.3	12.7	13.1	12.7	13.0	13.4	13.8	13.4	13.7	14.1	14.6
		HI PR	245	263	278	290	275	295	312	325	312	336	355	370	356	383	404	422	400	431	455	474	442	476	502	524
		LO PR	111	118	129	137	117	125	136	145	122	130	142	151	128	136	149	158	134	143	156	166	139	148	161	172
	1200	MBh	33.6	34.3	36.6	39.2	32.8	33.5	35.8	38.3	32.0	32.7	34.9	37.3	31.2	31.9	**34.1**	36.4	29.7	30.3	32.4	34.6	27.5	28.1	30.0	32.1
		S/T	0.96	0.90	0.73	0.55	0.99	0.93	0.76	0.57	1.00	0.96	0.78	0.58	1.00	0.99	**0.80**	0.60	1.00	1.00	0.83	0.62	1.00	1.00	0.84	0.63
		Delta T	25	24	21	16	25	24	21	17	25	24	21	17	24	24	**21**	17	23	23	21	17	21	22	19	15
		KW	2.26	2.31	2.38	2.46	2.43	2.49	2.56	2.65	2.59	2.64	2.73	2.82	2.72	2.78	**2.87**	2.97	2.83	2.90	2.99	3.09	2.93	3.00	3.10	3.20
		AMPS	9.8	10.0	10.3	10.6	10.5	10.7	11.0	11.4	11.3	11.5	11.9	12.2	12.0	12.2	**12.6**	13.0	12.6	12.9	13.3	13.7	13.3	13.6	14.0	14.4
		HI PR	242	261	275	287	272	293	309	322	309	333	351	366	352	379	**400**	417	396	426	450	470	438	471	497	519
		LO PR	110	117	128	136	116	124	135	144	121	128	140	149	127	135	**147**	157	133	141	154	164	137	146	160	170
	1050	MBh	31.0	31.7	33.8	36.1	30.3	30.9	33.0	35.3	29.5	30.2	32.2	34.5	28.8	29.4	31.5	33.6	27.4	28.0	29.9	31.9	25.4	25.9	27.7	29.6
		S/T	0.93	0.87	0.71	0.53	0.96	0.90	0.73	0.55	0.98	0.92	0.75	0.56	1.01	0.95	0.77	0.58	1.05	0.99	0.80	0.60	1.06	1.00	0.81	0.61
		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	2.21	2.25	2.32	2.40	2.37	2.43	2.50	2.58	2.52	2.58	2.66	2.75	2.65	2.71	2.80	2.89	2.76	2.82	2.92	3.01	2.86	2.92	3.02	3.12
		AMPS	9.6	9.8	10.1	10.4	10.3	10.5	10.8	11.1	11.0	11.3	11.6	11.9	11.7	11.9	12.3	12.7	12.3	12.6	12.9	13.4	13.0	13.2	13.6	14.1
		HI PR	235	253	267	279	264	284	300	313	300	323	341	355	342	368	388	405	384	414	437	455	425	457	482	503
		LO PR	107	113	124	132	113	120	131	139	117	125	136	145	123	131	143	152	129	137	150	159	133	142	155	165

NOTE: Shaded area reflects AHRI rating conditions

85	1350	MBh	35.2	35.8	37.5	40.1	34.4	35.0	36.7	39.1	33.5	34.2	35.8	38.2	32.7	33.3	34.9	37.3	31.1	31.7	33.2	35.4	28.8	29.3	30.7	32.8
		S/T	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.79	1.00	1.00	1.00	0.82	1.00	1.00	1.00	0.85	1.00	1.00	1.00	0.86
		Delta T	24	24	23	20	23	24	24	21	23	23	24	21	22	23	24	21	21	22	23	20	20	20	21	19
		KW	2.30	2.35	2.42	2.50	2.47	2.53	2.61	2.69	2.63	2.68	2.77	2.86	2.76	2.83	2.92	3.02	2.88	2.94	3.04	3.14	2.98	3.05	3.15	3.26
		AMPS	10.0	10.2	10.5	10.8	10.7	10.9	11.2	11.6	11.5	11.7	12.0	12.4	12.1	12.4	12.8	13.2	12.8	13.1	13.5	13.9	13.5	13.8	14.2	14.7
		HI PR	247	266	281	293	277	298	315	329	315	339	358	374	359	387	408	426	404	435	459	479	446	480	507	529
		LO PR	112	119	130	139	118	126	138	147	123	131	143	152	129	138	150	160	136	144	157	168	140	149	163	173
	1200	MBh	34.1	34.8	36.5	38.9	33.4	34.0	35.6	38.0	32.6	33.2	34.8	37.1	31.8	32.4	33.9	36.2	30.2	30.8	32.2	34.4	28.0	28.5	29.8	31.8
		S/T	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.93	0.76	1.00	1.00	0.96	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82
		Delta T	26	26	24	21	26	26	25	21	25	25	25	21	24	25	25	22	23	24	25	21	21	22	23	20
		KW	2.28	2.33	2.40	2.48	2.45	2.51	2.59	2.67	2.61	2.66	2.75	2.84	2.74	2.80	2.89	2.99	2.86	2.92	3.02	3.12	2.96	3.02	3.12	3.23
		AMPS	9.9	10.1	10.4	10.7	10.6	10.8	11.1	11.5	11.4	11.6	11.9	12.3	12.0	12.3	12.7	13.1	12.7	13.0	13.4	13.8	13.4	13.7	14.1	14.6
		HI PR	245	263	278	290	275	295	312	325	312	336	355	370	356	383	404	422	400	431	455	474	442	476	502	524
		LO PR	111	118	129	137	117	125	136	145	122	130	142	151	128	136	149	158	134	143	156	166	139	148	161	172
	1050	MBh	31.5	32.1	33.6	35.9	30.8	31.4	32.9	35.1	30.0	30.6	32.1	34.2	29.3	29.9	31.3	33.4	27.9	28.4	29.7	31.7	25.8	26.3	27.5	29.4
		S/T	0.97	0.94	0.84	0.69	1.00	0.97	0.88	0.71	1.00	0.99	0.90	0.73	1.00	1.00	0.93	0.75	1.00	1.00	0.96	0.78	1.00	1.00	0.97	0.79
		Delta T	27	26	25	22	27	27	25	22	26	27	25	22	26	26	25	22	24	25	25	22	23	23	23	20
		KW	2.23	2.27	2.34	2.42	2.39	2.44	2.52	2.60	2.54	2.60	2.68	2.77	2.67	2.73	2.82	2.92	2.79	2.85	2.94	3.04	2.88	2.95	3.04	3.15
		AMPS	9.7	9.9	10.2	10.5	10.4	10.6	10.9	11.2	11.1	11.3	11.7	12.0	11.8	12.0	12.4	12.8	12.4	12.7	13.1	13.5	13.1	13.3	13.7	14.2
		HI PR	237	255	270	281	266	287	303	316	303	326	344	359	345	371	392	409	388	418	441	460	429	461	487	508
		LO PR	108	115	125	133	114	121	132	141	118	126	137	146	124	132	144	154	130	138	151	161	135	143	156	167

* NOTE: Shaded areas are TVA and AHRI Rating Conditions IDB: 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)

MODEL: *PD1442115M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1575	MBh	42.3	43.9	48.1	-	41.3	42.8	46.9	-	40.4	41.8	45.8	-	39.4	40.8	44.7	-	37.4	38.8	42.5	-	34.6	35.9	39.3	-
		S/T	0.77	0.64	0.45	-	0.80	0.67	0.46	-	0.82	0.69	0.47	-	0.85	0.71	0.49	-	0.88	0.73	0.51	-	0.89	0.74	0.51	-
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-
		KW	2.74	2.79	2.88	-	2.94	3.00	3.09	-	3.12	3.18	3.28	-	3.27	3.34	3.45	-	3.41	3.48	3.59	-	3.52	3.60	3.71	-
		AMPS	11.6	11.9	12.2	-	12.5	12.7	13.1	-	13.4	13.7	14.1	-	14.2	14.5	14.9	-	15.0	15.3	15.8	-	15.8	16.2	16.7	-
		HI PR	236	254	268	-	265	285	301	-	301	324	342	-	343	369	390	-	386	415	438	-	426	459	484	-
		LO PR	113	120	131	-	119	127	138	-	124	132	144	-	130	138	151	-	136	145	158	-	141	150	163	-
	1400	MBh	41.1	42.6	46.7	-	40.1	41.6	45.6	-	39.2	40.6	44.5	-	38.2	39.6	43.4	-	36.3	37.6	41.2	-	33.6	34.9	38.2	-
		S/T	0.74	0.61	0.43	-	0.76	0.64	0.44	-	0.78	0.65	0.45	-	0.81	0.67	0.47	-	0.84	0.70	0.48	-	0.85	0.71	0.49	-
		Delta T	20	17	13	-	20	17	13	-	20	17	13	-	20	18	13	-	20	17	13	-	19	16	12	-
		KW	2.72	2.77	2.86	-	2.92	2.98	3.07	-	3.09	3.16	3.26	-	3.25	3.32	3.42	-	3.38	3.45	3.56	-	3.49	3.57	3.68	-
		AMPS	11.6	11.8	12.1	-	12.4	12.6	13.0	-	13.3	13.6	14.0	-	14.1	14.4	14.8	-	14.9	15.2	15.7	-	15.7	16.0	16.5	-
		HI PR	233	251	265	-	262	282	298	-	298	321	339	-	339	365	386	-	382	411	434	-	422	454	479	-
		LO PR	111	119	129	-	118	125	137	-	122	130	142	-	129	137	149	-	135	143	156	-	139	148	162	-
	1225	MBh	37.9	39.3	43.1	-	37.0	38.4	42.1	-	36.2	37.5	41.1	-	35.3	36.6	40.1	-	33.5	34.7	38.1	-	31.0	32.2	35.3	-
		S/T	0.71	0.59	0.41	-	0.74	0.61	0.43	-	0.75	0.63	0.44	-	0.78	0.65	0.45	-	0.81	0.68	0.47	-	0.82	0.68	0.47	-
		Delta T	20	17	13	-	20	18	13	-	20	18	13	-	21	18	14	-	20	18	13	-	19	16	12	-
		KW	2.66	2.71	2.79	-	2.85	2.91	3.00	-	3.02	3.08	3.18	-	3.17	3.24	3.34	-	3.30	3.37	3.47	-	3.41	3.48	3.59	-
		AMPS	11.3	11.5	11.8	-	12.1	12.3	12.7	-	13.0	13.2	13.6	-	13.7	14.0	14.5	-	14.5	14.8	15.3	-	15.3	15.6	16.1	-
		HI PR	226	244	257	-	254	273	289	-	289	311	328	-	329	354	374	-	370	399	421	-	409	440	465	-
		LO PR	108	115	126	-	114	122	133	-	119	126	138	-	125	133	145	-	131	139	152	-	135	144	157	-
75	1575	MBh	43.0	44.3	48.0	51.5	42.0	43.3	46.9	50.3	41.0	42.3	45.7	49.1	40.0	41.2	44.6	47.9	38.0	39.2	42.4	45.5	35.2	36.3	39.3	42.1
		S/T	0.88	0.78	0.59	0.38	0.91	0.81	0.62	0.40	0.93	0.83	0.63	0.41	0.96	0.86	0.65	0.42	1.00	0.89	0.68	0.44	1.00	0.90	0.68	0.44
		Delta T	22	20	17	11	22	21	17	12	22	21	17	12	22	21	17	12	22	20	17	12	21	19	16	11
		KW	2.76	2.82	2.90	2.99	2.96	3.02	3.12	3.21	3.14	3.21	3.31	3.41	3.30	3.37	3.48	3.59	3.43	3.51	3.62	3.74	3.55	3.63	3.74	3.87
		AMPS	11.7	12.0	12.3	12.7	12.6	12.8	13.2	13.6	13.5	13.8	14.2	14.7	14.3	14.6	15.1	15.6	15.1	15.5	15.9	16.5	15.9	16.3	16.8	17.4
		HI PR	238	256	271	282	267	288	304	317	304	327	345	360	346	373	393	410	390	419	443	462	430	463	489	510
		LO PR	114	121	132	141	120	128	140	149	125	133	145	154	131	140	152	162	137	146	160	170	142	151	165	176
	1400	MBh	41.8	43.0	46.6	50.0	40.8	42.0	45.5	48.8	39.8	41.0	44.4	47.7	38.9	**40.0**	43.3	46.5	36.9	38.0	41.2	44.2	34.2	35.2	38.1	40.9
		S/T	0.84	0.75	0.57	0.36	0.87	0.78	0.59	0.38	0.89	0.80	0.60	0.39	0.92	**0.82**	0.62	0.40	0.95	0.85	0.65	0.41	0.96	0.86	0.65	0.42
		Delta T	23	21	17	12	23	21	18	12	23	21	18	12	23	**22**	18	12	23	21	17	12	22	20	16	11
		KW	2.74	2.79	2.88	2.97	2.94	3.00	3.09	3.19	3.12	3.18	3.28	3.39	3.27	**3.34**	3.45	3.56	3.41	3.48	3.59	3.71	3.52	3.60	3.71	3.83
		AMPS	11.7	11.9	12.2	12.6	12.5	12.7	13.1	13.5	13.4	13.7	14.1	14.6	14.2	**14.5**	14.9	15.5	15.0	15.3	15.8	16.3	15.8	16.2	16.7	17.2
		HI PR	236	254	268	280	265	285	301	314	301	324	342	357	343	**369**	390	406	386	415	438	457	426	459	484	505
		LO PR	113	120	131	139	119	127	138	147	124	132	144	153	130	**138**	151	161	136	145	158	168	141	150	164	174
	1225	MBh	38.6	39.7	43.0	46.1	37.7	38.8	42.0	45.1	36.8	37.9	41.0	44.0	35.9	36.9	40.0	42.9	34.1	35.1	38.0	40.8	31.6	32.5	35.2	37.8
		S/T	0.81	0.72	0.55	0.35	0.84	0.75	0.57	0.36	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	23	22	18	12	24	22	18	12	24	22	18	12	24	22	18	12	23	22	18	12	22	20	17	11
		KW	2.68	2.73	2.81	2.90	2.87	2.93	3.02	3.11	3.04	3.11	3.20	3.30	3.20	3.26	3.36	3.47	3.32	3.39	3.50	3.62	3.44	3.51	3.62	3.74
		AMPS	11.4	11.6	11.9	12.3	12.2	12.4	12.8	13.2	13.1	13.4	13.7	14.2	13.9	14.2	14.6	15.1	14.6	15.0	15.4	15.9	15.4	15.8	16.2	16.8
		HI PR	229	246	260	271	257	276	292	304	292	314	332	346	333	358	378	394	374	403	425	443	413	445	470	490
		LO PR	109	116	127	135	115	123	134	143	120	128	139	148	126	134	146	156	132	140	153	163	137	145	159	169

* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW = Total system power

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

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

MODEL: *PD1442115M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1575	MBh	43.8	44.8	47.8	51.1	42.8	43.7	46.7	49.9	41.8	42.7	45.6	48.7	40.8	41.6	44.5	47.6	38.7	39.6	42.3	45.2	35.9	36.6	39.1	41.9
		S/T	0.96	0.90	0.73	0.55	1.00	0.94	0.76	0.57	1.00	0.96	0.78	0.58	1.00	1.00	0.81	0.60	1.00	1.00	0.84	0.63	1.00	1.00	0.84	0.63
		Delta T	25	24	21	16	25	24	21	17	24	24	21	17	24	24	21	17	23	23	21	16	21	21	19	15
		KW	2.78	2.84	2.92	3.01	2.99	3.05	3.14	3.24	3.17	3.23	3.33	3.44	3.33	3.40	3.50	3.62	3.46	3.54	3.65	3.77	3.58	3.66	3.77	3.90
		AMPS	11.8	12.1	12.4	12.8	12.7	12.9	13.3	13.7	13.6	13.9	14.3	14.8	14.4	14.8	15.2	15.7	15.3	15.6	16.1	16.6	16.1	16.4	16.9	17.5
		HI PR	241	259	273	285	270	291	307	320	307	330	349	364	350	376	397	415	393	423	447	466	435	468	494	515
		LO PR	115	122	133	142	121	129	141	150	126	134	147	156	132	141	154	164	139	148	161	172	144	153	167	178
	1400	MBh	42.5	43.5	46.4	49.6	41.5	42.4	45.4	48.5	40.6	41.4	44.3	47.3	39.6	40.4	**43.2**	46.2	37.6	38.4	41.0	43.9	34.8	35.6	38.0	40.6
		S/T	0.92	0.86	0.70	0.52	0.95	0.89	0.73	0.54	0.98	0.91	0.74	0.56	1.00	0.94	**0.77**	0.57	1.00	0.98	0.80	0.60	1.00	0.99	0.80	0.60
		Delta T	26	25	21	17	26	25	22	17	26	25	22	17	26	25	**22**	17	25	25	21	17	23	23	20	16
		KW	2.76	2.82	2.90	2.99	2.96	3.02	3.12	3.21	3.14	3.21	3.31	3.41	3.30	3.37	**3.48**	3.59	3.43	3.51	3.62	3.74	3.55	3.63	3.74	3.87
		AMPS	11.7	12.0	12.3	12.7	12.6	12.8	13.2	13.6	13.5	13.8	14.2	14.7	14.3	14.6	**15.1**	15.6	15.1	15.5	15.9	16.5	15.9	16.3	16.8	17.4
		HI PR	238	256	271	282	267	288	304	317	304	327	346	360	346	373	**394**	410	390	419	443	462	430	463	489	510
		LO PR	114	121	132	141	120	128	140	149	125	133	145	154	131	140	**152**	162	137	146	160	170	142	151	165	176
	1225	MBh	39.3	40.1	42.9	45.8	38.3	39.2	41.9	44.7	37.4	38.2	40.9	43.7	36.5	37.3	39.9	42.6	34.7	35.4	37.9	40.5	32.1	32.8	35.1	37.5
		S/T	0.89	0.83	0.68	0.50	0.92	0.86	0.70	0.52	0.94	0.88	0.72	0.54	0.97	0.91	0.74	0.55	1.01	0.95	0.77	0.57	1.02	0.95	0.78	0.58
		Delta T	26	25	22	17	26	25	22	18	26	25	22	18	27	25	22	18	26	25	22	17	25	23	20	16
		KW	2.70	2.75	2.83	2.92	2.89	2.95	3.04	3.14	3.07	3.13	3.23	3.33	3.22	3.29	3.39	3.50	3.35	3.42	3.53	3.65	3.46	3.54	3.65	3.77
		AMPS	11.5	11.7	12.0	12.4	12.3	12.5	12.9	13.3	13.2	13.5	13.9	14.3	14.0	14.3	14.7	15.2	14.8	15.1	15.5	16.1	15.5	15.9	16.4	16.9
		HI PR	231	249	263	274	259	279	295	307	295	317	335	350	336	361	382	398	378	407	429	448	418	449	474	495
		LO PR	110	117	128	136	117	124	135	144	121	129	141	150	127	135	148	157	133	142	155	165	138	147	160	171
			NOTE: Shaded area reflects AHRI rating conditions																							
85	1575	MBh	44.6	45.4	47.6	50.8	43.5	44.4	46.5	49.6	42.5	43.3	45.4	48.4	41.5	42.3	44.3	47.2	39.4	40.2	42.1	44.9	36.5	37.2	39.0	41.6
		S/T	1.00	0.97	0.88	0.71	1.00	1.00	0.91	0.74	1.00	1.00	0.93	0.76	1.00	1.00	0.96	0.78	1.00	1.00	1.00	0.81	1.00	1.00	1.00	0.82
		Delta T	26	26	24	21	25	26	25	21	25	25	25	21	24	25	25	22	23	23	25	21	21	22	23	20
		KW	2.80	2.86	2.95	3.04	3.01	3.07	3.17	3.27	3.19	3.26	3.36	3.47	3.35	3.42	3.53	3.65	3.49	3.56	3.68	3.80	3.61	3.69	3.80	3.93
		AMPS	11.9	12.2	12.5	12.9	12.8	13.0	13.4	13.8	13.7	14.0	14.4	14.9	14.6	14.9	15.3	15.8	15.4	15.7	16.2	16.8	16.2	16.6	17.1	17.7
		HI PR	243	262	276	288	273	293	310	323	310	334	352	368	353	380	401	419	397	428	452	471	439	473	499	520
		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
	1400	MBh	43.3	44.1	46.2	49.3	42.3	43.1	45.1	48.1	41.3	42.1	44.1	47.0	40.3	41.0	43.0	45.8	38.2	39.0	40.8	43.6	35.4	36.1	37.8	40.3
		S/T	0.96	0.93	0.84	0.68	1.00	0.96	0.87	0.70	1.00	0.99	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.95	0.77	1.00	1.00	0.96	0.78
		Delta T	27	27	25	22	28	27	26	22	27	27	26	22	26	27	26	22	25	26	26	22	23	24	24	21
		KW	2.78	2.84	2.92	3.01	2.99	3.05	3.14	3.24	3.17	3.23	3.33	3.44	3.33	3.40	3.50	3.62	3.46	3.54	3.65	3.77	3.58	3.66	3.77	3.90
		AMPS	11.8	12.1	12.4	12.8	12.7	12.9	13.3	13.7	13.6	13.9	14.3	14.8	14.4	14.8	15.2	15.7	15.3	15.6	16.1	16.6	16.1	16.4	16.9	17.5
		HI PR	241	259	273	285	270	291	307	320	307	330	349	364	350	376	397	415	393	423	447	466	435	468	494	515
		LO PR	115	122	133	142	121	129	141	150	126	134	147	156	132	141	154	164	139	148	161	172	144	153	167	178
	1225	MBh	39.9	40.7	42.6	45.5	39.0	39.8	41.6	44.4	38.1	38.8	40.7	43.4	37.2	37.9	39.7	42.3	35.3	36.0	37.7	40.2	32.7	33.3	34.9	37.2
		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	0.98	0.89	0.72	1.00	1.00	0.92	0.75	1.00	1.00	0.93	0.75
		Delta T	28	27	26	22	28	28	26	23	28	28	26	23	28	28	26	23	26	27	26	23	25	25	24	21
		KW	2.72	2.77	2.86	2.94	2.92	2.98	3.07	3.16	3.09	3.16	3.25	3.36	3.25	3.31	3.42	3.53	3.38	3.45	3.56	3.68	3.49	3.57	3.68	3.80
		AMPS	11.6	11.8	12.1	12.5	12.4	12.6	13.0	13.4	13.3	13.6	14.0	14.4	14.1	14.4	14.8	15.3	14.9	15.2	15.7	16.2	15.7	16.0	16.5	17.1
		HI PR	233	251	265	277	262	282	298	310	298	321	339	353	339	365	386	402	382	411	434	452	422	454	479	500
		LO PR	111	119	129	138	118	125	137	146	122	130	142	151	129	137	149	159	135	143	156	167	139	148	162	172

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

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

MODEL: *PD1448115M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
70	1740	MBh	45.8	47.5	52.0	-	44.7	46.4	50.8	-	43.7	45.3	49.6	-	42.6	44.2	48.4	-	40.5	41.9	46.0	-	37.5	38.9	42.6	-
		S/T	0.76	0.63	0.44	-	0.79	0.66	0.45	-	0.81	0.67	0.47	-	0.83	0.70	0.48	-	0.86	0.72	0.50	-	0.87	0.73	0.50	-
		Delta T	18	16	12	-	19	16	12	-	19	16	12	-	19	16	12	-	18	16	12	-	17	15	11	-
		KW	3.10	3.16	3.26	-	3.33	3.39	3.50	-	3.52	3.60	3.71	-	3.70	3.78	3.90	-	3.85	3.93	4.05	-	3.98	4.06	4.19	-
		AMPS	13.0	13.3	13.6	-	13.9	14.2	14.6	-	14.9	15.3	15.7	-	15.8	16.2	16.6	-	16.7	17.1	17.6	-	17.6	18.0	18.5	-
		HI PR	237	255	270	-	266	287	303	-	303	326	344	-	345	371	392	-	388	418	441	-	429	461	487	-
		LO PR	111	118	129	-	117	125	136	-	122	129	141	-	128	136	149	-	134	143	156	-	139	147	161	-
	1550	MBh	44.5	46.1	50.5	-	43.4	45.0	49.3	-	42.4	43.9	48.1	-	41.4	42.9	47.0	-	39.3	40.7	44.6	-	36.4	37.7	41.3	-
		S/T	0.72	0.60	0.42	-	0.75	0.63	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.82	0.69	0.48	-	0.83	0.69	0.48	-
		Delta T	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	19	17	13	-	18	16	12	-
		KW	3.08	3.14	3.23	-	3.30	3.37	3.47	-	3.50	3.57	3.68	-	3.67	3.75	3.86	-	3.82	3.90	4.02	-	3.94	4.03	4.16	-
		AMPS	12.9	13.2	13.5	-	13.8	14.1	14.5	-	14.8	15.1	15.6	-	15.7	16.0	16.5	-	16.6	17.0	17.5	-	17.5	17.8	18.4	-
		HI PR	235	253	267	-	264	284	300	-	300	323	341	-	341	367	388	-	384	413	437	-	424	457	482	-
		LO PR	110	117	127	-	116	123	135	-	121	128	140	-	127	135	147	-	133	141	154	-	137	146	159	-
	1360	MBh	41.0	42.5	46.6	-	40.1	41.5	45.5	-	39.1	40.6	44.4	-	38.2	39.6	43.4	-	36.3	37.6	41.2	-	33.6	34.8	38.2	-
		S/T	0.70	0.58	0.40	-	0.72	0.60	0.42	-	0.74	0.62	0.43	-	0.77	0.64	0.44	-	0.79	0.66	0.46	-	0.80	0.67	0.46	-
		Delta T	19	17	13	-	20	17	13	-	20	17	13	-	20	17	13	-	19	17	13	-	18	16	12	-
		KW	3.01	3.07	3.16	-	3.23	3.29	3.39	-	3.42	3.49	3.59	-	3.58	3.66	3.77	-	3.73	3.81	3.92	-	3.85	3.93	4.06	-
		AMPS	12.6	12.9	13.2	-	13.5	13.8	14.1	-	14.5	14.8	15.2	-	15.3	15.7	16.1	-	16.2	16.5	17.0	-	17.0	17.4	17.9	-
		HI PR	228	245	259	-	256	275	291	-	291	313	330	-	331	356	376	-	373	401	423	-	412	443	468	-
		LO PR	106	113	124	-	112	120	131	-	117	124	136	-	123	131	143	-	129	137	149	-	133	142	155	-
75	1740	MBh	46.6	48.0	51.9	55.7	45.5	46.8	50.7	54.4	44.4	45.7	49.5	53.1	43.3	44.6	48.3	51.8	41.2	42.4	45.9	49.2	38.1	39.3	42.5	45.6
		S/T	0.86	0.77	0.58	0.38	0.89	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	0.66	0.43	0.99	0.89	0.67	0.43
		Delta T	21	20	16	11	21	20	16	11	22	20	16	11	22	20	16	11	21	20	16	11	20	18	15	10
		KW	3.13	3.19	3.28	3.38	3.35	3.42	3.53	3.63	3.55	3.63	3.74	3.86	3.73	3.81	3.93	4.05	3.88	3.96	4.09	4.22	4.01	4.09	4.23	4.36
		AMPS	13.1	13.4	13.8	14.2	14.0	14.3	14.7	15.2	15.1	15.4	15.8	16.4	16.0	16.3	16.8	17.4	16.9	17.2	17.7	18.4	17.8	18.1	18.7	19.3
		HI PR	240	258	272	284	269	289	306	319	306	329	348	363	348	375	396	413	392	422	445	465	433	466	492	513
		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
	1550	MBh	45.2	46.6	50.4	54.1	44.2	45.5	49.2	52.8	43.1	44.4	48.0	51.6	42.1	**43.3**	46.9	50.3	40.0	41.1	44.5	47.8	37.0	38.1	41.3	44.3
		S/T	0.82	0.74	0.56	0.36	0.85	0.76	0.58	0.37	0.87	0.78	0.59	0.38	0.90	**0.81**	0.61	0.39	0.94	0.84	0.63	0.41	0.94	0.84	0.64	0.41
		Delta T	22	20	17	11	22	21	17	12	22	21	17	12	23	**21**	17	12	22	20	17	12	21	19	16	11
		KW	3.10	3.16	3.26	3.36	3.33	3.39	3.50	3.61	3.53	3.60	3.71	3.83	3.70	**3.78**	3.90	4.02	3.85	3.93	4.05	4.19	3.98	4.06	4.19	4.33
		AMPS	13.0	13.3	13.6	14.1	13.9	14.2	14.6	15.1	14.9	15.3	15.7	16.2	15.8	**16.2**	16.7	17.2	16.7	17.1	17.6	18.2	17.6	18.0	18.5	19.2
		HI PR	237	255	270	281	266	287	303	316	303	326	344	359	345	**371**	392	409	388	418	441	460	429	461	487	508
		LO PR	111	118	129	137	117	125	136	145	122	130	141	151	128	**136**	149	158	134	143	156	166	139	147	161	171
	1360	MBh	41.7	43.0	46.5	49.9	40.8	42.0	45.4	48.8	39.8	41.0	44.3	47.6	38.8	40.0	43.3	46.4	36.9	38.0	41.1	44.1	34.2	35.2	38.1	40.9
		S/T	0.79	0.71	0.54	0.35	0.82	0.74	0.56	0.36	0.84	0.75	0.57	0.37	0.87	0.78	0.59	0.38	0.90	0.81	0.61	0.39	0.91	0.81	0.62	0.40
		Delta T	22	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	23	21	17	12	21	19	16	11
		KW	3.03	3.09	3.18	3.28	3.25	3.32	3.42	3.52	3.44	3.51	3.62	3.74	3.61	3.69	3.80	3.92	3.76	3.84	3.96	4.08	3.88	3.96	4.09	4.22
		AMPS	12.7	13.0	13.3	13.8	13.6	13.9	14.3	14.7	14.6	14.9	15.3	15.8	15.5	15.8	16.2	16.8	16.3	16.7	17.2	17.7	17.2	17.6	18.1	18.7
		HI PR	230	248	262	273	258	278	294	306	294	316	334	348	335	360	380	397	376	405	428	446	416	448	473	493
		LO PR	108	114	125	133	114	121	132	141	118	126	137	146	124	132	144	153	130	138	151	161	134	143	156	166

*IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

KW = Total system power

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

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

MODEL: *PD1448115M41

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 5-7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 15-18°F @ the compressor suction access fitting connection.

			Outdoor Ambient Temperature																							
			65				75				85				95				105				115			
			Entering Indoor Wet Bulb Temperature																							
IDB*	Airflow		59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71	59	63	67	71
80	1740	MBh	47.4	48.4	51.7	55.3	46.3	47.3	50.5	54.0	45.2	46.2	49.3	52.7	44.1	45.1	48.1	51.5	41.9	42.8	45.7	48.9	38.8	39.7	42.4	45.3
		S/T	0.95	0.89	0.72	0.54	1.00	0.92	0.75	0.56	1.00	0.94	0.77	0.57	1.00	1.00	0.79	0.59	1.00	1.00	0.82	0.61	1.00	1.00	0.83	0.62
		Delta T	24	23	20	16	24	23	20	16	24	23	20	16	23	24	20	16	22	23	20	16	21	21	19	15
		KW	3.15	3.21	3.31	3.41	3.38	3.45	3.55	3.66	3.58	3.66	3.77	3.89	3.76	3.84	3.96	4.09	3.91	3.99	4.12	4.25	4.04	4.13	4.26	4.40
		AMPS	13.2	13.5	13.9	14.3	14.1	14.4	14.8	15.3	15.2	15.5	16.0	16.5	16.1	16.4	16.9	17.5	17.0	17.4	17.9	18.5	17.9	18.3	18.9	19.5
		HI PR	242	261	275	287	272	292	309	322	309	333	351	366	352	379	400	417	396	426	450	469	437	471	497	518
		LO PR	113	120	131	140	120	127	139	148	124	132	144	154	130	139	152	161	137	145	159	169	141	150	164	175
	1550	MBh	46.0	47.0	50.2	53.7	45.0	45.9	49.1	52.5	43.9	44.8	47.9	51.2	42.8	43.7	**46.7**	50.0	40.7	41.6	44.4	47.5	37.7	38.5	41.1	44.0
		S/T	0.90	0.85	0.69	0.51	0.93	0.88	0.71	0.53	0.96	0.90	0.73	0.55	0.99	0.93	**0.76**	0.56	1.00	0.96	0.78	0.59	1.00	0.97	0.79	0.59
		Delta T	25	24	21	16	25	24	21	17	25	24	21	17	25	24	**21**	17	24	24	21	16	22	22	19	15
		KW	3.13	3.19	3.28	3.38	3.35	3.42	3.53	3.63	3.55	3.63	3.74	3.86	3.73	3.81	**3.93**	4.05	3.88	3.96	4.09	4.22	4.01	4.10	4.23	4.36
		AMPS	13.1	13.4	13.8	14.2	14.0	14.3	14.7	15.2	15.1	15.4	15.8	16.4	16.0	16.3	**16.8**	17.4	16.9	17.2	17.8	18.4	17.8	18.2	18.7	19.3
		HI PR	240	258	272	284	269	289	306	319	306	329	348	363	348	375	**396**	413	392	422	445	465	433	466	492	513
		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
	1360	MBh	42.5	43.4	46.4	49.6	41.5	42.4	45.3	48.4	40.5	41.4	44.2	47.3	39.5	40.4	43.1	46.1	37.5	38.4	41.0	43.8	34.8	35.5	38.0	40.6
		S/T	0.87	0.82	0.66	0.50	0.90	0.85	0.69	0.51	0.92	0.87	0.71	0.53	0.95	0.89	0.73	0.54	0.99	0.93	0.76	0.56	1.00	0.94	0.76	0.57
		Delta T	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	25	24	21	17	23	23	20	16
		KW	3.06	3.12	3.21	3.31	3.28	3.34	3.44	3.55	3.47	3.54	3.65	3.76	3.64	3.72	3.83	3.95	3.79	3.87	3.99	4.12	3.91	4.00	4.12	4.26
		AMPS	12.8	13.1	13.4	13.9	13.7	14.0	14.4	14.8	14.7	15.0	15.4	16.0	15.6	15.9	16.4	16.9	16.5	16.8	17.3	17.9	17.3	17.7	18.2	18.9
		HI PR	233	250	264	276	261	281	297	309	297	319	337	352	338	364	384	401	380	409	432	451	420	452	477	498
		LO PR	109	116	126	134	115	122	133	142	119	127	139	148	125	133	146	155	131	140	153	162	136	145	158	168

NOTE: Shaded area reflects AHRI rating conditions

85	1740	MBh	48.2	49.2	51.5	54.9	47.1	48.0	50.3	53.7	46.0	46.9	49.1	52.4	44.9	45.7	47.9	51.1	42.6	43.4	45.5	48.5	39.5	40.2	42.1	45.0
		S/T	0.99	0.96	0.86	0.70	1.00	0.99	0.89	0.73	1.00	1.00	0.92	0.74	1.00	1.00	0.95	0.77	1.00	1.00	0.98	0.80	1.00	1.00	0.99	0.80
		Delta T	25	25	23	20	25	25	24	21	24	25	24	21	24	24	24	21	23	23	24	20	21	21	22	19
		KW	3.17	3.24	3.33	3.44	3.40	3.47	3.58	3.69	3.61	3.68	3.80	3.92	3.79	3.87	3.99	4.12	3.94	4.03	4.15	4.29	4.07	4.16	4.29	4.44
		AMPS	13.3	13.6	14.0	14.4	14.2	14.5	15.0	15.4	15.3	15.6	16.1	16.6	16.2	16.6	17.1	17.6	17.1	17.5	18.0	18.7	18.1	18.5	19.0	19.7
		HI PR	245	263	278	290	274	295	312	325	312	336	355	370	355	383	404	421	400	430	454	474	442	475	502	524
		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
	1550	MBh	46.8	47.7	50.0	53.3	45.7	46.6	48.8	52.1	44.6	45.5	47.7	50.9	43.6	44.4	46.5	49.6	41.4	42.2	44.2	47.1	38.3	39.1	40.9	43.7
		S/T	0.95	0.91	0.82	0.67	0.98	0.95	0.85	0.69	1.00	0.97	0.88	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.94	0.76	1.00	1.00	0.95	0.77
		Delta T	26	26	24	21	27	26	25	21	26	26	25	21	26	26	25	22	25	25	25	21	23	23	23	20
		KW	3.15	3.21	3.31	3.41	3.38	3.45	3.55	3.66	3.58	3.66	3.77	3.89	3.76	3.84	3.96	4.09	3.91	3.99	4.12	4.25	4.04	4.13	4.26	4.40
		AMPS	13.2	13.5	13.9	14.3	14.1	14.4	14.8	15.3	15.2	15.5	16.0	16.5	16.1	16.4	16.9	17.5	17.0	17.4	17.9	18.5	17.9	18.3	18.9	19.5
		HI PR	242	261	275	287	272	292	309	322	309	333	351	366	352	379	400	417	396	426	450	469	437	471	497	518
		LO PR	113	120	131	140	120	127	139	148	124	132	144	154	130	139	152	161	137	145	159	169	141	150	164	175
	1360	MBh	43.2	44.1	46.1	49.2	42.2	43.0	45.1	48.1	41.2	42.0	44.0	46.9	40.2	41.0	42.9	45.8	38.2	38.9	40.8	43.5	35.4	36.1	37.8	40.3
		S/T	0.91	0.88	0.79	0.64	0.95	0.91	0.82	0.67	0.97	0.94	0.84	0.68	1.00	0.97	0.87	0.71	1.00	1.00	0.90	0.73	1.00	1.00	0.91	0.74
		Delta T	27	26	25	21	27	27	25	22	27	27	25	22	27	27	25	22	26	26	25	22	24	24	23	20
		KW	3.08	3.14	3.23	3.33	3.30	3.37	3.47	3.58	3.50	3.57	3.68	3.79	3.67	3.75	3.86	3.99	3.82	3.90	4.02	4.15	3.94	4.03	4.16	4.29
		AMPS	12.9	13.2	13.5	14.0	13.8	14.1	14.5	14.9	14.8	15.1	15.6	16.1	15.7	16.0	16.5	17.1	16.6	16.9	17.5	18.0	17.5	17.8	18.4	19.0
		HI PR	235	253	267	278	264	284	299	312	300	323	341	355	341	367	388	405	384	413	436	455	424	457	482	503
		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

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

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

HEATING PERFORMANCE *PD14[24-37]**M41A*/B*

EXPANDED PERFORMANCE DATA

MODEL: *PD1424070M41 **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	30.5	28.9	27.2	25.4	24.3	23.5	21.8	20.1	17.1	15.7	14.5	13.7	13.2	11.8	10.5	9.1	7.8	6.4
T/R	33.2	31.5	29.6	27.7	26.4	25.6	23.8	21.9	18.6	17.1	15.8	14.9	14.4	12.9	11.4	10.0	8.5	7.0
KW	2.07	2.02	1.98	1.94	1.91	1.90	1.86	1.81	2.04	1.99	1.94	1.91	1.89	1.84	1.79	1.75	1.69	1.65
AMPS	10.2	9.5	8.9	8.4	8.1	7.9	7.5	7.1	6.9	6.6	6.3	6.1	6.1	5.8	5.4	5.1	4.8	4.3
COP	4.32	4.18	4.02	3.84	3.71	3.63	3.45	3.25	2.44	2.31	2.18	2.09	2.04	1.88	1.71	1.53	1.35	1.14
EER	14.8	14.3	13.7	13.1	12.7	12.4	11.8	11.1	8.3	7.9	7.5	7.2	7.0	6.4	5.8	5.2	4.6	3.9
HI PR	411	394	379	362	354	347	334	320	307	293	281	275	270	259	249	239	231	223
LO PR	141	130	122	112	106	102	94	83	75	67	59	55	53	45	39	33	28	22

MODEL: *PD1430090M41 **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	36.3	34.4	32.3	30.2	28.9	28.0	26.0	24.0	20.6	19.1	17.5	16.6	16.0	14.3	12.7	11.1	9.4	7.7
T/R	32.3	30.6	28.8	26.9	25.7	24.9	23.1	21.3	18.4	17.0	15.6	14.7	14.2	12.7	11.3	9.9	8.4	6.9
KW	2.54	2.49	2.44	2.39	2.36	2.34	2.29	2.24	2.12	2.07	2.02	1.99	1.97	1.92	1.88	1.83	1.78	1.73
AMPS	13.0	12.1	11.4	10.8	10.5	10.3	9.8	9.3	9.0	8.7	8.3	8.1	8.1	7.7	7.3	6.9	6.5	6.0
COP	4.18	4.03	3.88	3.70	3.58	3.50	3.32	3.13	2.85	2.70	2.54	2.43	2.37	2.18	1.98	1.77	1.55	1.31
EER	14.3	13.8	13.2	12.6	12.2	12.0	11.3	10.7	9.8	9.2	8.7	8.3	8.1	7.4	6.8	6.1	5.3	4.5
HI PR	415	398	382	366	357	350	337	323	310	296	284	277	272	262	252	241	233	225
LO PR	142	132	124	113	107	103	95	84	76	68	60	56	54	45	39	33	29	23

MODEL: *PD1436090M41 **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	41.1	38.9	36.6	34.2	32.7	31.7	29.4	27.1	24.4	22.5	20.7	19.6	18.8	16.9	15.0	13.1	11.2	9.1
T/R	36.6	34.6	32.6	30.5	29.1	28.2	26.2	24.2	21.7	20.0	18.5	17.4	16.8	15.1	13.3	11.6	9.9	8.1
KW	2.86	2.80	2.74	2.69	2.65	2.63	2.57	2.51	2.52	2.46	2.40	2.37	2.34	2.28	2.22	2.17	2.11	2.05
AMPS	14.7	13.7	12.9	12.2	11.8	11.6	11.1	10.6	10.2	9.8	9.4	9.2	9.1	8.7	8.2	7.8	7.3	6.7
COP	4.21	4.06	3.90	3.73	3.61	3.53	3.35	3.16	2.83	2.68	2.53	2.42	2.36	2.17	1.97	1.77	1.55	1.31
EER	14.4	13.9	13.3	12.7	12.3	12.1	11.4	10.8	9.7	9.2	8.6	8.3	8.0	7.4	6.7	6.0	5.3	4.5
HI PR	387	371	357	341	333	327	314	302	289	276	265	259	254	244	235	225	217	210
LO PR	137	127	119	109	103	99	91	81	73	66	58	54	52	44	38	32	28	22

MODEL: *PD1437090M41 **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	60	55	50	47	45	40	35	30	25	20	17	15	10	5	0	-5	-10
MBh	43.4	41.0	38.6	36.1	34.5	33.4	31.0	28.6	24.6	22.7	20.9	19.8	19.0	17.1	15.2	13.2	11.3	9.2
T/R	33.5	31.7	29.8	27.9	26.6	25.8	24.0	22.1	19.0	17.6	16.2	15.3	14.7	13.2	11.7	10.2	8.7	7.1
KW	3.20	3.14	3.07	3.01	2.97	2.94	2.88	2.82	2.49	2.43	2.37	2.34	2.32	2.26	2.20	2.15	2.09	2.04
AMPS	16.1	15.1	14.2	13.4	13.0	12.8	12.1	11.6	11.1	10.7	10.3	10.1	9.9	9.5	9.0	8.5	8.0	7.3
COP	3.96	3.83	3.68	3.52	3.40	3.32	3.15	2.98	2.90	2.74	2.58	2.47	2.41	2.21	2.01	1.80	1.58	1.33
EER	13.5	13.1	12.6	12.0	11.6	11.4	10.8	10.2	9.9	9.4	8.8	8.5	8.2	7.6	6.9	6.1	5.4	4.5
HI PR	464	445	428	409	399	392	376	361	346	331	317	310	304	293	281	270	260	251
LO PR	139	129	121	111	105	101	92	82	74	66	58	54	52	44	38	32	28	22

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

High pressure is measured at the liquid line access fitting.
Low pressure is measured at the compressor suction access fitting.

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

EXPANDED PERFORMANCE DATA

MODEL: *PD1442115M41 **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	**60**	**55**	**50**	**47**	**45**	**40**	**35**	**30**	**25**	**20**	**17**	**15**	**10**	**5**	**0**	**-5**	**-10**
MBh	52.9	50.0	47.1	44.0	42.1	40.7	37.8	34.9	30.1	27.8	25.6	24.2	23.3	20.9	18.5	16.1	13.8	11.3
T/R	35.0	33.1	31.1	29.1	27.8	27.0	25.0	23.1	19.9	18.4	16.9	16.0	15.4	13.8	12.2	10.7	9.1	7.5
KW	3.58	3.51	3.44	3.37	3.33	3.30	3.23	3.16	3.01	2.95	2.88	2.84	2.82	2.75	2.68	2.62	2.55	2.49
AMPS	18.1	16.8	15.9	15.0	14.5	14.3	13.5	12.9	12.4	12.0	11.5	11.2	11.1	10.6	10.0	9.5	8.9	8.2
COP	4.33	4.18	4.01	3.82	3.70	3.61	3.43	3.23	2.92	2.76	2.60	2.49	2.42	2.22	2.02	1.80	1.58	1.33
EER	14.8	14.3	13.7	13.1	12.6	12.3	11.7	11.0	10.0	9.4	8.9	8.5	8.3	7.6	6.9	6.2	5.4	4.5
HI PR	414	397	382	365	357	350	336	323	309	295	283	277	272	261	251	241	232	224
LO PR	142	132	123	113	107	103	95	84	76	68	60	55	53	45	39	33	29	23

MODEL: *PD1448115M41 **HEATING OPERATION**

	Outdoor Ambient Temperature																	
	65	**60**	**55**	**50**	**47**	**45**	**40**	**35**	**30**	**25**	**20**	**17**	**15**	**10**	**5**	**0**	**-5**	**-10**
MBh	56.7	53.7	50.5	47.2	45.1	43.7	40.6	37.4	32.8	30.3	27.9	26.3	25.3	22.7	20.2	17.6	15.0	12.3
T/R	33.9	32.1	30.2	28.2	26.9	26.1	24.2	22.4	19.6	18.1	16.6	15.7	15.1	13.6	12.0	10.5	9.0	7.3
KW	3.92	3.85	3.77	3.70	3.65	3.62	3.55	3.48	3.31	3.24	3.17	3.12	3.10	3.02	2.95	2.88	2.81	2.74
AMPS	19.4	18.1	17.1	16.2	15.7	15.4	14.6	14.0	13.5	12.9	12.4	12.2	12.0	11.5	10.9	10.3	9.7	8.9
COP	4.23	4.08	3.92	3.74	3.61	3.53	3.35	3.15	2.90	2.74	2.58	2.46	2.39	2.20	2.00	1.78	1.56	1.31
EER	14.5	14.0	13.4	12.8	12.3	12.1	11.4	10.8	9.9	9.3	8.8	8.4	8.2	7.5	6.8	6.1	5.3	4.5
HI PR	406	389	374	358	349	343	329	316	303	289	278	271	266	256	246	236	228	220
LO PR	132	122	115	105	99	96	88	78	71	63	55	52	50	42	36	31	27	21

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.

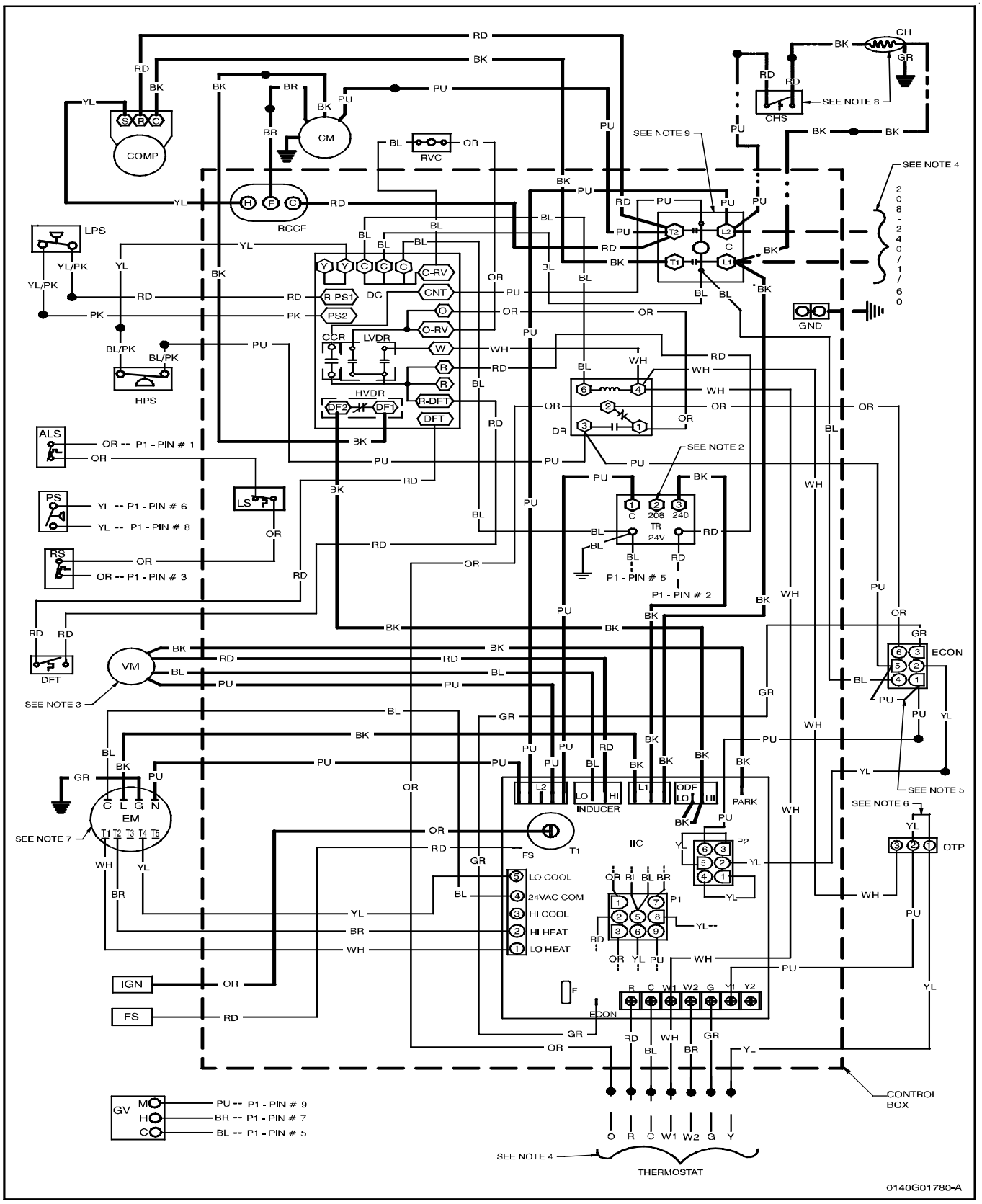
A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

WIRING DIAGRAMS

*PD14[24-48]***M41*

WARNING

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



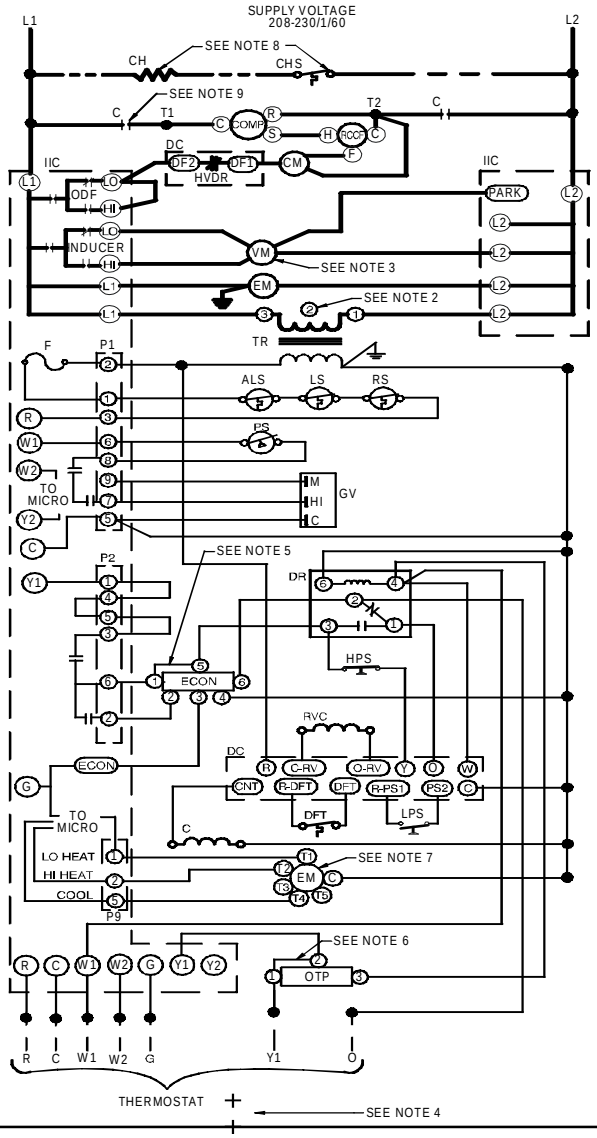
Wiring is subject to change. Always refer to the wiring diagram on the unit for the most up-to-date wiring.

WIRING DIAGRAMS

PD14[24-48]M41****

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.



COMPONENT LEGEND

ALS	AUXILLARY LIMIT SWITCH
C	CONTACTOR
CH	CRANKCASE HEATER
CHS	CRANKCASE HEATER SWITCH
CM	CONDENSER MOTOR
COMP	COMPRESSOR
DC	DEFROST CONTROL BOARD
DFT	DEFROST THERMOSTAT
DR	DEFROST RELAY
ECON	ECONOMIZER PLUG
EM	EVAPORATOR MOTOR
F	FUSE
FS	FLAME SENSOR
GND	EQUIPMENT GROUND
GV	GAS VALVE
HPS	HIGH PRESSURE SWITCH
IIC	INTEGRATED IGNITION CONTROL
IGN	IGNITOR
LPS	LOW PRESSURE SWITCH
LS	LIMIT SWITCH
OTP	OUTDOOR THERMOSTAT PLUG
P1	9 PIN CONNECTOR PLUG
P2	6 PIN CONNECTOR PLUG
PS	PRESSURE SWITCH
RCCF	RUN CAPACITOR COMPRESSOR / FAN
RS	ROLLOUT SWITCH
RVC	REVERSING VALVE COIL
TR	TRANSFORMER
VM	VENT MOTOR

FACTORY WIRING
- LINE VOLTAGE
- LOW VOLTAGE
- OPTIONAL HIGH VOLTAGE

FIELD WIRING
- HIGH VOLTAGE
- LOW VOLTAGE

WIRE CODE

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

NOTES

1. REPLACEMENT WIRE MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (AT LEAST 105°C). USE COPPER CONDUCTOR ONLY.
2. FOR 208V TRANSFORMER OPERATION MOVE BLACK WIRE FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
3. FOR 208V VENT MOTOR OPERATION, REMOVE BLUE LEAD FROM INDUCER LOW TERMINAL. MOVE BLACK LEAD FROM PARK TERMINAL TO INDUCER LOW TERMINAL, AND PLACE BLUE LEAD ON PARK.
4. USE COPPER CONDUCTORS ONLY.
++ USE NEC CLASS 2 WIRE.
5. FOR ECONOMIZER, REMOVE PLUG FROM ECONOMIZER HARNESS. CONNECT PLUG FROM ECONOMIZER TO HARNESS.
6. FOR OUTDOOR THERMOSTAT, REMOVE PLUG FROM HARNESS AND CONNECT PLUG FROM OUTDOOR THERMOSTAT TO HARNESS.
7. TO CHANGE AIRFLOW MOVE YELLOW WIRE (COOLING / HEAT PUMP), WHITE WIRE (LOW STAGE GAS), OR BROWN WIRE (HIGH-STAGE GAS) TO SPEED TAP T1, T2, T3, T4, OR T5 AT EVAPORATOR MOTOR. REFER TO UNIT AIRFLOW TABLES FOR TO DETERMINE THE APPROPRIATE SPEED TAP FOR APPLICATION. UNITS SHIPPED WITH YELLOW, WHITE, AND BROWN ON T4, T1, AND T2 RESPECTIVELY.
8. CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
9. DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.

DIAGNOSTIC LED - RED	STATUS	CHECK
ON	NORMAL OPERATION	-
OFF	NO POWER OR INTERNAL CONTROL FAULT	CHECK INPUT POWER CHECK FUSE(S) REPLACE CONTROL
1 FLASH	IGNITION FAILURE	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR
2 FLASHES	PRESSURE SWITCH OPEN	CHECK PRESSURE SWITCH CHECK TUBING CHECK VENT MOTOR
3 FLASHES	PRESSURE SWITCH CLOSED WITHOUT INDUCER ON	CHECK PRESSURE SWITCH CHECK WIRING FOR SHORTS
4 FLASHES	OPEN LIMIT SWITCH	CHECK MAIN LIMIT SWITCH CHECK AUXILIARY LIMIT SW. CHECK ROLLOUT LIMIT SW.
5 FLASHES	FALSE FLAME DETECTED	CHECK GAS VALVE CHECK FOR SHORTS IN FLAME SENSOR WIRING
6 FLASHES	COMPR. SHORT CYCLE DELAY	3 MIN COMP. SHORT CYCLE DELAY

DIAGNOSTIC LED - RED	STATUS	CHECK
7 FLASHES	LIMIT OPEN 5 TIMES IN SAME CALL FOR HEAT	CHECK MAIN LIMIT SWITCH CHECK AUXILIARY LIMIT SW.
8 FLASHES	IDT/ODT OPEN	CHECK JUMPER BETWEEN 1 AND 4 ON 6-CIRCUIT CONNECTOR CHECK OPTIONAL REFRIGERANT SWITCHES
9 FLASHES	PSW/LOC OPEN	CHECK REFRIGERANT SWITCHES FOR LOSS OF CHARGE OR HIGH HEAD PRESSURE

DIAGNOSTIC LED - AMBER	STATUS	CHECK
OFF	NO FLAME PRESENT	-
ON	NORMAL FLAME PRESENT	-
1 FLASH	LOW FLAME SIGNAL	GAS FLOW GAS PRESSURE GAS VALVE FLAME SENSOR
2 FLASHES	FALSE FLAME DETECTED	CHECK GAS VALVE CHECK FOR SHORTS IN FLAME SENSOR WIRING

0140G02004-A

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