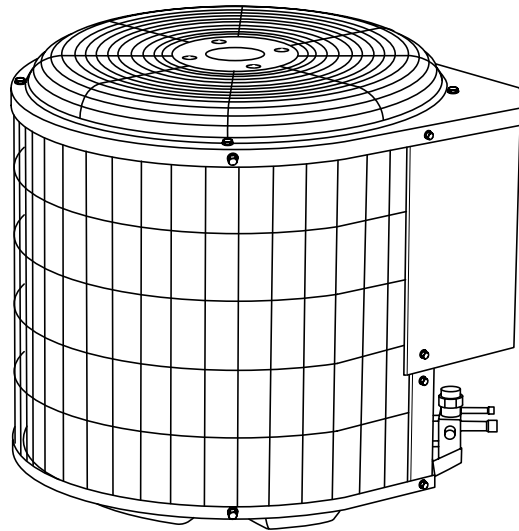




Heating & Cooling



Model PH10

10 SEER SPLIT-SYSTEM HEAT PUMP UNIT

FEATURES

- AVAILABLE SIZES:** Nominal sizes are available from 018 through 060 to meet the needs of residential and light commercial applications.
- EFFICIENCY:** With SEER of at least 10.0 and HSPF of 6.8, these heat pump systems provide economy of operation through energy conservation. They recover heat for indoor comfort from outdoor air during the heating season and, by automatically reversing the refrigerant system, remove indoor heat and excess humidity during the cooling season.
- CERTIFICATION:** All models are listed with UL, (U.S. and Canada), ARI, and CEC.
- ELECTRICAL RANGE:** Units are offered in 208–230v, single phase 018 thru 060 sizes and 208–230v 3 phase in the 048 and 060 sizes.
- FAN MOTOR:** The totally enclosed fan motor means greater reliability under adverse weather conditions and dependable performance for many years. Permanent split capacitor type motors provide more economical operation.
- CABINET:** The prepainted steel cabinet is protected underneath by a galvanized coating and treated with a layer of zinc phosphate for a finish that will last for many years. All screws on cabinet exterior are coated for a long-lasting, rust-resistant, quality appearance.
- UNIT DESIGN:** The copper tube, enhanced sine wave, aluminum fin coil is designed for optimum heat transfer. Vertical air discharge carries sound and hot condenser air up and away from adjacent patio areas and foliage. The base pan is designed for easy removal of water, dirt, and leaves.
- COMPONENTS:** Includes a suction-tube accumulator that minimizes the amount of liquid refrigerant reaching the compressor; a low-pressure switch that stops the compressor if refrigerant charge is lost; and an internal compressor relief valve on all sizes.
- DEFROST CONTROL BOARD:** Incorporates a defrost relay, defrost timer and low-voltage terminations. The defrost control is a time/temperature initiation/termination control which includes 3 field-selectable time periods of 30, 50, and 90 minutes. The control includes built-in 5-minute compressor delay.
- COMPRESSOR:** Designed specifically for heat pump duty, with energy efficiency during heating and cooling operation. Each compressor is hermetically sealed against contamination to assure long life and dependable performance and is internally sprung (018–036 sizes) and externally mounted on rubber isolators for quiet operation. Continuous compressor operation is approved down to –30°F (–34°C) in the heating mode and down to 55°F (12.8°C) in the cooling mode. For improved serviceability, all models are equipped with a compressor terminal plug.
- SERVICE VALVES:** Both service valves are brass, front seating type with sweat connections. Valves are externally located so refrigerant tube connections can be made quickly and easily. Each valve has a service port for ease of checking operating refrigerant pressures.
- SERVICEABILITY:** One panel provides access to electrical controls. Removal of top gives access to fan motor, compressor, and condenser coil.

SPECIFICATIONS

UNIT SIZE-SERIES	018-G/H	024-G/H	030-G,H	036-G/H,J
Operating Weight (Lb)	123	126	136	127/160
ELECTRICAL				
Unit Volts—Hertz—Phase	208-230—60—1	208-230—60—1	208-230—60—1	208-230—60—1
Operating Voltage Range	197—253	197—253	197—253	197—253
Unit Ampacity for Wire Sizing (MCA)	12.3/12.0	15.1/14.5	19.0	23.8/22.2
Min Wire Size 60°C Copper (AWG)*	14	14	14	12
Min Wire Size 75°C Copper (AWG)*	14	14	14	12
Max Wire Length 60°C Copper (Ft)†	66	53	41	52/57
Max Wire Length 75°C Copper (Ft)†	62	50	39	50/54
Max Branch Circuit Fuse Size (Amps)	20	25	30	35
Compressor Rated Load Amps	9.4/9.2	11.4/11.2	14.1	17.9/16.6
Compressor Locked Rotor Amps	49.0/48.0	61.0	73.0	105.0/86.0
Fan Motor Full Load Amps	0.5	0.5	1.4	1.4
COMPRESSOR AND REFRIGERANT				
Compressor Type	Reciprocating			Scroll/Reciprocating
Refrigerant Type	R-22			
Refrigerant Charge (Lb)	4.38/4.13	5.30/4.38	5.25	5.31/5.63
OUTDOOR COIL AND FAN				
Coil Face Area (Sq Ft)	9.38/8.67	12.26/10.84	12.26	12.26/12.85
Coil Fins per In.—Rows—Circuits	20—1—2	20/25—1—3	20—1—3	20—1—3
Fan Motor HP	1/12	1/12	1/4	1/4
Fan Motor RPM	1100	1100	1100	1100
Rated Airflow (CFM)	2000/1700	2100/1700	2300	2300/3300
OPTIONAL EQUIPMENT				
Time-Delay Relay	KAATD0101TDR			
Outdoor Thermostat	KHAOT0301FST			
Secondary Outdoor Thermostat	KHAOT0201SEC			
Cycle Protector	KSACY0101AAA			
Crankcase Heater	KAACH1001AAA			KAACH1201AAA/ KAACH1001AAA
Compressor Start Assist— Capacitor/Relay	KSAHS1001AAA KSAHS2001AAA	KSAHS2101AAA	KSAHS0901AAA	KSAHS0901AAA/ KSAHS2101AAA
Compressor Start PTC	KAACS0201PTC			
Sound Hood	KSASH1101COP/ KSASH2001BRL	KSASH1101COP KSASH2001BRL	KSASH2001BRL	KSASH1901CYL/ KSASH2001BRL
TXV Kits (Hard Shutoff)**	KSATX0601HSO			
TXV Kits (RPB)	KHATX0201RPB	KHATX0301RPB	KHATX0401RPB	KHATX0501RPB
High-Pressure Switch	KHAHI0101HPS			
Low-Ambient Pressure Switch	KSALA0201R22			
MotorMaster® Control	32LT660004 (RCD)			
Ball Bearing Fan Motor	HC34GE231			HC40GE232
Filter Drier	P504-8083S			
Evaporator Freeze Thermostat‡‡	KAAFT0101AAA			
Isolation Relay‡‡	KHAIR0101AAA			
Liquid-Line Solenoid Valve	KHALS0401LLS			
Thermostat, Auto Changeover, Non-Programmable, °F/°C 2-Stage Heat, 1-Stage Cool	TSTATPPBHP01-A			
Thermostat, Auto Changeover, 7-Day Programmable, °F/°C 2-Stage Heat, 1-Stage Cool	TSTATPPPHP01-A			
Outdoor Air Temperature Sensor (For Programmable Thermostat)	TSTATXXSEN01-B			
Backplate for Non-Programmable Thermostat	TSTATXXBBP01			
Backplate for Programmable Thermostat	TSTATXXBP01			
Thermostat Conversion Kit (4 to 5 Wire) — 10 pack	TSTATXXCNV10			

See notes on page 4.

SPECIFICATIONS Continued

UNIT SIZE-SERIES	042-G/H	048-G	060-G
Operating Weight (Lb)	178	189	220
ELECTRICAL			
Unit Volts—Hertz—Phase	208-230—60—1	208-230—60—1	208-230—60—3
Operating Voltage Range	197—253	197—253	187—253
Unit Ampacity for Wire Sizing (MCA)	33.2/29.3	31.9	19.4
Min Wire Size 60°C Copper (AWG)*	8	8	14
Min Wire Size 75°C Copper (AWG)*	10	10	14
Max Wire Length 60°C Copper (Ft)†	91/104	97	48
Max Wire Length 75°C Copper (Ft)†	56/63	59	46
Max Branch Circuit Fuse Size (Amps)	50	50	30
Compressor Rated Load Amps	25.4/22.3	24.4	14.4
Compressor Locked Rotor Amps	115.0/127.0	140.0	105.0
Fan Motor Full Load Amps	1.4	1.4	1.4
COMPRESSOR AND REFRIGERANT			
Compressor Type	Scroll		
Refrigerant Type	R-22		
Refrigerant Charge (Lb)	7.00/7.38	7.93	7.93
OUTDOOR COIL & FAN			
Coil Face Area (Sq Ft)	18.21	18.21	18.21
Coil Fins per In.—Rows—Circuits	20—1—4	20—1—5	20—1—5
Fan Motor HP	1/4	1/4	1/4
Fan Motor RPM	1100	1100	1100
Rated Airflow (CFM)	3300	3300	3300
OPTIONAL EQUIPMENT			
Time-Delay Relay	KAATD0101TDR		
Outdoor Thermostat	KHAOT0301FST		
Secondary Outdoor Thermostat	KHAOT0201SEC		
Cycle Protector	KSACY0101AAA		
Crankcase Heater	KAACH1201AAA	KAACH1201AAA	Standard
Compressor Start Assist—Capacitor/Relay	KSAHS1501AAA	KSAHS1601AAA	N/A
Compressor Start Thermistor—PTC	KAACS0201PTC	KAACS0201PTC	N/A
Sound Hood	KSASH1901CYL	KSASH2001CYL	
TXV Kits (Hard Shutoff)	KSATX0601HSO	KSATX0701HSO	KSATX1001HSO
TXV Kits (RPB)	KHATX0501RPB	KHATX0601RPB	KHATX0701RPB
High-Pressure Switch	KHAHI0101HPS		
Low-Ambient Pressure Switch	KSALA0201R22		
MotorMaster® Control	32LT660004 (RCD)		
Ball Bearing Fan Motor	HC40GE230		
Filter Drier (RCD)	P504-8163S		
Evaporator Freeze Thermostat‡‡	KAAFT0101AAA		
Isolation Relay‡‡	KHAIR0101AAA		
Liquid-Line Solenoid Valve	KHALS0401LLS		
Thermostat, Auto Changeover, Non-Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool	TSTATPPBHP01-A		
Thermostat, Auto Changeover, 7-Day Programmable, °F/°C, 1-Stage Heat, 1-Stage Cool	TSTATPPPHP01-A		
Outdoor Air Temperature Sensor (For Programmable Thermostat)	TSTATXXSEN01-B		
Backplate for Non-Programmable Thermostat	TSTATXXBBP01		
Backplate for Programmable Thermostat	TSTATXXPBP01		
Thermostat Conversion Kit (4 to 5 Wire) — 10 pack	TSTATXXCNV10		

* The ampacity of non-metallic (NM) sheathed cable shall be that of 60°C (140°F) conductors per NEC 1999, Article 336-26. If wire used is other than specified in chart, refer to applicable tables available in 1999 NEC. Copper wire must be used from disconnect to unit.

† Length shown is as measured 1 way along the wire path between the unit and the service panel for a voltage drop not to exceed 2%.

‡ Units may use fuses or circuit breakers (U.S. only).

** Capacitor and relay start assist required on 018-036 sizes (reciprocating compressors) when accessory TXV, liquid-line solenoid, or PF1M coil is applied.

‡‡ Consult low-ambient control Installation Instructions for application.

N/A—Not Applicable

NOTE: Model 042 MCA value is greater than 048 due to U.L. testing.

REFRIGERANT METERING DEVICE AND LINE SET DATA

UNIT SIZE-SERIES	018-G/H	024-G/H	030-G/H	036-G/H,J	042-G/H	048-G	060-G
METERING DEVICE							
Outdoor Piston Size	40/42	46/52	55	61/57	63	67	76
Indoor Piston Size*	55	61/63	70	78/73	82/80	88	101
Required Subcooling (°F)†	8/10	14/12	14/10	10/9	10/14	12	11
REFRIGERANT LINE CONNECTION DIAMETERS (IN. ID)							
Liquid Line	3/8						
Vapor Line	5/8	5/8	3/4	3/4	7/8	7/8	7/8
REFRIGERANT LINE DIAMETERS (IN. OD)							
Liquid Line (All Applications)	3/8						
Vapor Line (0–50 Ft Line Lengths)	5/8	5/8	3/4	3/4	7/8	7/8	1-1/8
Vapor Line (Long-Line Applications)	3/4	3/4	7/8	7/8	1-1/8	1-1/8	1-1/8

* Piston listed is for any approved coil combination.

† Charging subcooling for indoor TXV-type expansion device.



CERTIFICATION APPLIES ONLY
WHEN THE COMPLETE SYSTEM
IS LISTED WITH ARI.

SOUND RATING (dBA)

UNIT SIZE-SERIES	SOUND RATING
018-G/H	80/78
024-G/H	78/78
030-G/H	80
036-G/H,J	80/81
042-G/H	80
048-G	80
060-G	80

OPTIONAL EQUIPMENT USAGE GUIDELINE

ACCESSORY	REQUIRED FOR LOW-AMBIENT APPLICATIONS (Below 55°F)	REQUIRED FOR LONG-LINE APPLICATIONS* (Over 50 Ft)
Crankcase Heater	Yes	Yes
Evaporator Freeze Thermostat	Yes	No
Accumulator	No	No
Compressor Start Assist Capacitor and Relay	Yes	Yes
MotorMaster® Control or Low-Ambient Pressure Switch	Yes	No
Wind Baffle	See Low-Ambient Instructions	No
Support Feet	Recommended	No
Liquid-Line Solenoid Valve or Hard Shutoff TXV	No	See Long-Line Application Guideline
Ball Bearing Fan Motor	Yes‡	No

* For tubing line sets between 50 and 175 ft, refer to the Residential Split-System Long-Line Application Guideline.

‡ Required for low-ambient controller (full modulation feature) and MotorMaster® Control only.

OPTIONAL EQUIPMENT DESCRIPTION AND USAGE (Listed Alphabetically)

- 1. Ball Bearing Fan Motor**
A fan motor with ball bearings which permits speed reduction while maintaining bearing lubrication.
SUGGESTED USE: Required on all units where Low-Ambient Controller (full modulation feature) or MotorMaster® Control has been added.
- 2. Compressor Start Assist—Capacitor/Relay**
Start capacitor and start relay which gives a “hard” boost to compressor motor at each start-up.
SUGGESTED USE: Installations where interconnecting tube length exceeds 50 ft.
Installations where outdoor design temperature exceeds 105°F (40.6°C).
Replacement installations with hard shutoff expansion valve and a reciprocating compressor.
Installations where Liquid-Line Solenoid Valve has been added.
Units installed with low-ambient controller.
- 3. Compressor Start Assist—PTC**
Solid-state electrical device which gives a soft boost to compressor motor at each start-up.
SUGGESTED USE: Installation with marginal power supply.
Replacement installations with rapid pressure balance (RPB) expansion valve on indoor coil.
- 4. Crankcase Heater**
An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes chance of refrigerant slugging. May or may not include a thermostat control.
SUGGESTED USE: When interconnecting tube length exceeds 50 ft.
When unit will be operated below 55°F (12.8°C) outdoor air temperature. (Use with low-ambient controller.)
All commercial installations.
- 5. Cycle Protector**
Solid-state timing device which prevents compressor rapid recycling. Control provides an approximate 5-minute delay after power to the compressor has been interrupted for any reason, including normal room thermostat cycling.
SUGGESTED USE: Installations in areas where power interruptions are frequent.
Where user is likely to play with room thermostat.
All commercial installations.
Installations where interconnecting tube length exceeds 50 ft.
High-rise applications.
- 6. Evaporator Freeze Thermostat**
An SPST temperature actuated switch which stops unit operation when evaporator reaches freeze-up conditions.
SUGGESTED USE: All units where Low-Ambient Controller has been added.
- 7. Filter Drier—Bi-Flow**
A device for removing contaminants from refrigerant circulating in a heat pump system: 2-direction flow.
SUGGESTED USE: All field-connected split-system heat pumps.
- 8. High-Pressure Switch**
Auto reset SPST switch activated by refrigerant pressure on high side of refrigerant circuit. Cycles compressor off if refrigerant pressure rises to about 426 ± 7 psig and resets at 320 ± 20 psig. Provides protection against compressor damage due to loss of outdoor airflow. To prevent rapid compressor recycling, Cycle Protector can be used with this switch.
SUGGESTED USE: Installations exposed to very “dirty” outdoor air.
Installations where condenser inlet air temperature exceeds 125°F (51.7°C).
- 9. Isolation Relay**
An SPDT relay which switches the Low-Ambient Controller out of the outdoor fan motor circuit when the heat pump switches to heating mode.
SUGGESTED USE: All heat pumps where Low-Ambient Controller has been added.
- 10. Liquid-Line Solenoid Valve**
An electrically operated shutoff valve to be installed at the outdoor or indoor unit (depending on tubing configuration) which stops and starts refrigerant liquid flow in response to compressor operation. Maintains a column of refrigerant liquid ready for action at next compressor operation cycle.
Note: Compressor Start Assist—Capacitor/Relay must also be used.
SUGGESTED USE: For improved system performance in heat pumps for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.
In certain long-line applications. Refer to the Residential Split System Long-Line Application Guideline.
- 11. Low-Ambient Pressure Switch**
A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits (approximately 100 psig to 225 psig). The control will maintain working head pressure at low-ambient temperatures down to 0°F (-17.8°C) when properly installed.
SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).
- 12. MotorMaster® Control**
A fan speed control device activated by a temperature sensor. Designed to control condenser fan motor speed in response to the saturated, condensing temperature during operation in cooling mode only. For outdoor temperatures down to -20°F, it maintains condensing temperature at 100°F ± 10°F.
SUGGESTED USE: Cooling operation at outdoor temperatures below 55°F (12.8°C).
All commercial installations.
- 13. Outdoor Air Temperature Sensor**
A device that allows the temperature at a remote location (outdoors) to be displayed at the thermostat.
SUGGESTED USE: All Payne programmable thermostats.
- 14. Outdoor Thermostat**
An SPDT temperature-actuated switch which turns on supplemental electric heaters when outdoor air temperature drops below set point.
SUGGESTED USE: Heat pump installations with multiple-stage supplemental heaters.
- 15. Secondary Outdoor Thermostat**
An SPDT temperature actuated switch which turns on third-stage of supplemental electric heaters when outdoor air temperature drops below the second-stage set point.
SUGGESTED USE: Heat pump installations where 3-stage operation of supplemental heaters is desired.
- 16. Sound Hood**
Wraparound sound attenuation cover for the compressor. Reduces unit sound level by about 2 dBA.
SUGGESTED USE: Unit installed closer than 15 ft to quiet areas—bedrooms, etc.
Unit installed between 2 houses less than 10 ft apart.
- 17. Thermostatic Expansion Valve (TXV)—Bi-Flow**
A modulating flow control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator. Kit includes valve, adapter tubes, and external equalizer tube. Both hard shutoff and RPB valves are available.
SUGGESTED USE: For improved system performance in cooling mode for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.
- 18. Time-Delay Relay**
An SPST delay relay which briefly continues operation of the indoor blower motor to provide additional cooling after the compressor cycles off.
SUGGESTED USE: For improved efficiency ratings for certain combinations of indoor and outdoor units. Refer to ARI Unitary Directory.

COMBINATION RATINGS

UNIT SIZE- SERIES	INDOOR UNIT	ARI STANDARD RATINGS*										
		Cooling						Heating				
		TC	Factory- Supplied Enhance- ment	SEER			EER	High-Temp		Low-Temp		HSPF
				Standard Rating	Accessory TXV	Payne Gas Furnace or Accessory TDR†		TC	COP	TC	COP	
018-G, H	*PF1MN(A,B)018	17,000	TDR	10.00	—	—	9.45	17,400	3.10	9,600	2.06	6.8
	CC5A/CD5AA018	17,400	NONE	—	10.00	10.00	9.40	17,000	2.94	9,700	2.02	6.8
	CC5A/CD5AA024	17,800	NONE	—	10.10	10.10	9.65	17,400	3.06	9,800	2.08	6.8
	CC5A/CD5AW024	17,800	NONE	—	10.10	10.10	9.65	17,400	3.06	9,800	2.08	6.8
	CE3AA024	17,800	NONE	—	10.10	10.10	9.70	17,400	3.10	9,900	2.10	6.8
	CF5AA024	17,400	NONE	—	10.10	10.10	9.65	17,000	3.06	9,800	2.08	6.8
	CK3BA024	17,800	NONE	—	10.10	10.10	9.80	17,400	3.22	10,000	2.14	7.0
	CK5A/CK5BA018	17,400	NONE	—	10.00	10.00	9.55	17,000	3.10	9,900	2.08	6.8
	CK5A/CK5BA024	17,800	NONE	—	10.10	10.10	9.80	17,400	3.22	9,900	2.12	7.0
	CK5A/CK5BW024	17,800	NONE	—	10.10	10.10	9.80	17,400	3.22	10,000	2.14	7.0
	FF1DNA018	17,000	TDR	10.00	—	—	9.75	17,400	3.16	9,500	2.10	6.8
	FF1DNA024	17,800	TDR	10.10	—	—	9.85	17,600	3.20	9,900	2.12	7.0
	PF1MN(A,B)024	18,000	TDR	10.65	—	—	9.85	17,800	3.20	9,900	2.12	7.0
	024-G, H	*PF1MN(A,B)024	23,000	TDR	10.10	—	—	9.25	23,400	3.16	14,900	2.30
CC5A/CD5AA024		22,400	NONE	—	10.00	10.00	9.25	22,800	3.16	13,000	2.16	6.8
CC5A/CD5AA030		22,800	NONE	—	10.00	10.00	9.30	21,000	3.10	13,100	2.16	6.8
CC5A/CD5AW024		22,400	NONE	—	10.00	10.00	9.25	22,800	3.10	13,000	2.16	6.8
CC5A/CD5AW030		22,800	NONE	—	10.00	10.00	9.30	21,000	3.10	13,100	2.16	6.8
CE3AA024		22,600	NONE	—	10.00	10.00	9.35	22,800	3.14	13,100	2.18	6.8
CE3AA030		23,000	NONE	—	10.00	10.00	9.40	22,800	3.20	13,200	2.20	6.8
CF5AA024		22,600	NONE	—	10.00	10.00	9.25	22,800	3.10	13,000	2.16	6.8
CK3BA024		22,400	NONE	—	10.00	10.00	9.35	22,800	3.26	13,300	2.22	6.8
CK3BA030		22,800	NONE	—	10.00	10.00	9.35	21,000	3.20	13,200	2.20	6.8
CK5A/CK5BA024		22,400	NONE	—	10.00	10.00	9.35	22,800	3.26	13,300	2.22	6.8
CK5A/CK5BA030		22,800	NONE	—	10.00	10.00	9.35	21,000	3.18	13,200	2.20	6.8
CK5A/CK5BW024		22,400	NONE	—	10.00	10.00	9.35	22,800	3.26	13,300	2.22	6.8
CK5A/CK5BW030		22,800	NONE	—	10.00	10.00	9.35	21,000	3.20	13,200	2.20	6.8
FF1DNA024		22,000	TDR	10.00	—	—	9.25	22,800	3.20	13,300	2.18	6.8
FF1DNA030		23,000	TDR	10.00	—	—	9.35	22,800	3.24	13,300	2.20	7.0
PF1MN(A,B)030	23,400	TDR	10.20	—	—	9.35	23,400	3.16	14,900	2.30	7.3	
030-G, H	*PF1MN(A,B)030	27,800	TDR	10.10	—	—	9.30	28,400	3.18	16,600	2.20	7.2
	CC5A/CD5AA030	27,600	NONE	—	10.10	10.10	9.20	28,000	3.10	16,500	2.16	7.0
	CC5A/CD5AA036	28,800	NONE	—	10.20	10.20	9.40	27,800	3.18	16,800	2.20	7.2
	CC5A/CD5AW030	27,800	NONE	—	10.00	10.00	9.20	28,200	3.10	16,500	2.16	7.0
	CC5A/CD5AW036	28,800	NONE	—	10.20	10.20	9.40	27,800	3.18	16,800	2.20	7.2
	CE3AA030	28,000	NONE	—	10.00	10.00	9.25	28,600	3.18	16,700	2.20	7.2
	CE3AA036	28,400	NONE	—	10.10	10.10	9.35	28,600	3.20	16,700	2.20	7.2
	CF5AA036	28,600	NONE	—	10.10	10.10	9.40	28,200	3.18	16,800	2.20	7.2
	CK3BA030	27,600	NONE	—	10.10	10.10	9.25	28,000	3.16	16,600	2.20	7.2
	CK3BA036	28,600	NONE	—	10.10	10.10	9.45	28,600	3.26	16,900	2.22	7.2
	CK5A/CK5BA030	27,600	NONE	—	10.10	10.10	9.25	28,000	3.16	16,600	2.20	7.2
	CK5A/CK5BA036	28,600	NONE	—	10.10	10.10	9.45	28,600	3.26	16,900	2.22	7.2
	CK5A/CK5BT036	28,600	NONE	—	10.10	10.10	9.45	28,600	3.26	16,900	2.22	7.2
	CK5A/CK5BW030	27,600	NONE	—	10.10	10.10	9.25	28,000	3.16	16,600	2.20	7.2
	CK5A/CK5BW036	28,600	NONE	—	10.10	10.10	9.45	28,600	3.26	16,900	2.22	7.2
	FF1DNA030	28,400	TDR	10.00	—	—	9.10	28,800	3.18	16,900	2.18	7.2
PF1MN(A,B)036	27,800	TDR	10.00	—	—	9.15	29,000	3.18	16,900	2.18	7.2	
036-G, H, J	*PF1MN(A,B)036	34,000	TDR	10.00	—	—	9.05	34,000	3.10	20,600	2.22	7.0
	CC5A/CD5AA036	34,200	NONE	—	10.00	10.00	9.30	34,000	3.14	20,200	2.26	7.0
	CC5A/CD5AA042	34,400	NONE	—	10.00	10.00	9.30	34,000	3.14	20,200	2.26	7.0
	CC5A/CD5AW036	34,200	NONE	—	10.00	10.00	9.30	34,000	3.12	20,200	2.26	7.0
	CC5A/CD5AW042	34,400	NONE	—	10.00	10.00	9.25	34,000	3.10	20,200	2.24	7.0
	CE3AA036	34,000	NONE	—	10.00	10.00	9.20	34,000	3.10	20,200	2.24	7.0
	CE3AA042	34,600	NONE	—	10.20	10.20	9.35	34,200	3.16	20,200	2.28	7.2
	CF5AA036	34,200	NONE	—	10.00	10.00	9.25	33,000	3.12	20,200	2.24	7.0
	CK3BA036	34,200	NONE	—	10.00	10.00	9.30	34,000	3.16	20,400	2.28	7.0
	CK3BA042	34,400	NONE	—	10.20	10.20	9.30	34,200	3.16	20,400	2.28	7.2
	CK5A/CK5BA036	34,200	NONE	—	10.00	10.00	9.30	34,000	3.16	20,400	2.28	7.0
	CK5A/CK5BA042	34,400	NONE	—	10.20	10.20	9.30	34,200	3.16	20,400	2.28	7.2
	CK5A/CK5BE042	34,600	NONE	—	10.20	10.20	9.35	34,400	3.20	20,400	2.28	7.2
	CK5A/CK5BT036	34,200	NONE	—	10.00	10.00	9.30	34,000	3.16	20,400	2.28	7.0
	CK5A/CK5BT042	34,400	NONE	—	10.20	10.20	9.30	34,200	3.16	20,400	2.28	7.2
	CK5A/CK5BW036	34,200	NONE	—	10.00	10.00	9.30	34,000	3.16	20,400	2.28	7.0
PF1MN(A,B)042	34,600	TDR	10.20	—	—	9.25	34,600	3.14	20,400	2.26	7.2	
042-G, H	*PF1MN(A,B)042	39,500	TDR	10.00	—	—	10.00	9.15	42,500	3.04	27,000	2.22
	CC5A/CD5AA042	39,000	NONE	—	10.00	10.00	10.00	9.25	42,500	3.02	26,800	2.22
	CC5A/CD5AC048	39,000	NONE	—	10.00	10.00	10.00	9.15	42,000	2.90	26,600	2.18
	CC5A/CD5AW042	38,500	NONE	—	10.00	10.00	10.00	9.15	42,500	2.96	26,600	2.20
	CC5A/CD5AW048	39,500	NONE	—	10.00	10.00	10.00	9.25	42,500	3.06	26,800	2.24
	CD5AA048	39,000	NONE	—	10.00	10.00	10.00	9.25	42,000	3.06	26,800	2.24
	CE3AA042	40,000	NONE	—	10.20	10.20	10.20	9.30	42,500	3.08	26,800	2.24
	CE3AA048	40,000	NONE	—	10.20	10.20	10.20	9.35	42,500	3.10	26,800	2.26
	CF5AA048	40,000	NONE	—	10.20	10.20	10.20	9.30	42,000	2.98	26,600	2.22
	CK3BA042	39,500	NONE	—	10.20	10.20	10.20	9.25	42,000	3.06	26,800	2.26
	CK3BA048	40,000	NONE	—	10.20	10.20	10.20	9.30	42,500	3.12	26,800	2.26
	CK5A/CK5BA042	39,500	NONE	—	10.20	10.20	10.20	9.25	42,000	3.08	26,800	2.26
	CK5A/CK5BA048	39,500	NONE	—	10.20	10.20	10.20	9.30	42,000	3.12	26,800	2.26
	CK5A/CK5BE042	40,000	NONE	—	10.20	10.20	10.20	9.30	42,500	3.12	26,800	2.26
	CK5A/CK5BT042	40,000	NONE	—	10.20	10.20	10.20	9.25	42,500	3.08	26,800	2.26
	CK5A/CK5BT048	40,000	NONE	—	10.20	10.20	10.20	9.30	42,500	3.12	26,800	2.26
CK5A/CK5BW048	40,000	NONE	—	10.20	10.20	10.20	9.30	42,500	3.12	26,800	2.26	
PF1MN(A,B)048	40,500	TDR	10.20	—	—	10.20	9.25	43,000	3.16	27,000	2.26	

See notes on page 8.

COMBINATION RATINGS Continued

UNIT SIZE-SERIES	INDOOR UNIT	ARI STANDARD RATINGS**										
		Cooling						Heating				
		TC	SEER				EER	High-Temp		Low-Temp		HSPF
			Factory-Supplied Enhancement	Standard Rating	Accessory TXV	Payne Gas Furnace or Accessory TDR†		TC	COP	TC	COP	
048-G	*PF1MN(A,B)048	45,000	TDR	10.10	—	—	9.10	47,000	3.22	30,600	2.34	7.2
	CC5A/CD5AA060	44,500	NONE	10.00	10.20	10.20	9.10	46,500	3.08	30,200	2.28	7.2
	CC5A/CD5AC048	43,500	NONE	—	10.00	10.00	9.00	45,000	3.00	30,200	2.24	7.2
	CC5A/CD5AW048	44,000	NONE	—	10.00	10.00	9.05	46,500	3.12	30,400	2.30	7.2
	CD5AA048	44,000	NONE	—	10.00	10.00	9.05	46,500	3.12	30,400	2.30	7.2
	CE3AA048	44,500	NONE	10.00	10.50	10.50	9.20	46,500	3.16	30,400	2.32	7.2
	CE3AA060	46,000	NONE	10.00	10.50	10.50	9.45	45,500	3.24	30,400	2.36	7.2
	CF5AA048	45,000	NONE	10.00	—	—	9.25	44,500	3.06	31,600	2.36	7.1
	CK3BA048	44,500	NONE	10.00	10.50	10.50	9.20	46,500	3.18	30,200	2.32	7.2
	CK3BA060	46,500	NONE	10.00	10.50	10.50	9.45	46,000	3.28	30,400	2.38	7.2
	CK5A/CK5BA048	44,500	NONE	10.00	10.50	10.50	9.20	46,500	3.18	30,200	2.32	7.2
	CK5A/CK5BA060	45,500	NONE	10.00	10.50	10.50	9.30	47,000	3.20	30,400	2.34	7.2
	CK5A/CK5BT048	44,500	NONE	10.00	10.50	10.50	9.20	46,500	3.18	30,200	2.32	7.2
	CK5A/CK5BT060	45,500	NONE	10.00	10.50	10.50	9.30	47,000	3.20	30,400	2.34	7.2
	CK5A/CK5BW048	44,500	NONE	10.00	10.50	10.50	9.20	46,500	3.18	30,200	2.32	7.2
	CK5A/CK5BX060	46,500	NONE	10.00	10.50	10.50	9.45	46,000	3.28	30,400	2.38	7.2
	PF1MN(A,B)060	46,000	TDR	10.50	—	—	9.15	45,500	3.20	31,000	2.34	7.2
	PF1MN(A,B)070	47,500	TDR	10.50	—	—	9.45	42,500	3.16	30,800	2.40	7.2
PF1MN(A,B)071	48,000	TDR&TXV	11.50	—	—	9.95	45,500	3.36	32,400	2.58	8.0	
060-G	*PF1MN(A,B)060	55,500	TDR	10.00	—	—	8.75	58,000	3.02	38,500	2.28	6.9
	CC5A/CD5AA060	53,500	NONE	—	10.00	10.00	8.75	56,000	2.82	37,400	2.20	6.8
	CC5A/CD5AW060	55,000	NONE	—	10.00	10.00	8.90	57,000	2.96	37,600	2.28	7.0
	CE3AA060	56,000	NONE	10.00	10.20	10.20	9.10	57,000	3.02	37,400	2.30	6.8
	CK3BA060	56,000	NONE	10.00	10.20	10.20	9.15	57,000	3.06	37,600	2.32	7.0
	CK5A/CK5BA060	54,000	NONE	—	10.20	10.20	9.00	56,000	2.92	37,000	2.26	6.8
	CK5A/CK5BT060	54,000	NONE	—	10.20	10.20	9.00	56,000	2.92	37,000	2.26	6.8
	CK5A/CK5BX060	56,000	NONE	10.00	10.20	10.20	9.15	57,000	3.06	37,600	2.32	7.0
	PF1MN(A,B)060	55,500	TDR	10.00	—	—	8.75	58,000	3.02	38,500	2.28	6.9
	PF1MN(A,B)070	57,000	TDR	10.00	—	—	9.10	58,000	3.16	38,000	2.36	7.0

* Outdoor section/indoor section combination tested in accordance with DOE test procedures for heat pumps. Ratings for other combinations are determined under DOE computer simulation procedures.

† In most cases, only 1 method should be used to achieve TDR function. Using more than 1 method in a system may cause degradation in performance. Use either the accessory Time-Delay Relay KAATD0101TDR or a furnace equipped with TDR. All Payne furnaces are equipped with TDR.

‡ Requires hard shutoff TXV; based on computer simulation.

** Ratings are net values reflecting the effects of circulating fan heat. Supplemental electric heat is not included.

Ratings are based on:

Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor entering air temperature and 95°F (35°C) db air entering outdoor unit.

High-Temperature Heating Standard: 70°F (21°C) db indoor entering air temperature and 47°C (8°C) db 43°F (6°C) wb air entering outdoor unit.

Low-Temperature Heating Standard: 70°F (21°C) db indoor entering air temperature and 17°F (-9°C) db, 15°F (-10°C) wb air entering outdoor unit.

COP — Coefficient of Performance

EER — Energy Efficiency Ratio

HSPF — Heating Seasonal Performance Factor

SEER — Seasonal Energy Efficiency Ratio

TC — Total Capacity (Btuh)

TDR — Time-Delay Relay

TXV — Thermostatic Expansion Valve

DETAILED COOLING CAPACITIES*

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
		Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
PH10JA018-G, H Outdoor Section With PF1MN(A,B)018 Indoor Section													
525	72	19.12	9.61	1.82	18.31	9.34	1.91	17.21	8.90	2.01	16.03	8.45	2.10
	67	17.50	11.90	1.77	16.46	11.45	1.87	15.29	10.95	1.96	14.12	10.46	2.04
	63††	16.05	11.42	1.75	15.00	10.94	1.83	13.93	10.45	1.91	12.82	9.95	1.99
	62	15.71	14.04	1.75	14.71	13.55	1.82	13.68	13.02	1.90	12.66	12.46	1.98
	57	15.07	15.07	1.73	14.27	14.27	1.81	13.45	13.45	1.89	12.60	12.60	1.98
650	72	19.40	10.03	1.87	18.69	9.84	1.97	17.68	9.51	2.07	16.46	9.05	2.17
	67	18.02	12.84	1.84	17.00	12.52	1.93	15.76	12.02	2.02	14.52	11.50	2.11
	63††	16.63	12.42	1.81	15.45	11.92	1.89	14.34	11.43	1.98	13.18	10.93	2.06
	62	16.36	15.50	1.81	15.27	14.90	1.89	14.27	14.27	1.98	13.37	13.37	2.07
	57	16.03	16.03	1.80	15.16	15.16	1.89	14.28	14.28	1.98	13.37	13.37	2.07
675	72	19.39	10.08	1.89	18.71	9.93	1.99	17.75	9.61	2.09	16.53	9.17	2.18
	67	18.10	13.00	1.85	17.08	12.70	1.94	15.84	12.22	2.03	14.58	11.70	2.13
	63††	16.73	12.64	1.83	15.56	12.12	1.91	14.39	11.61	1.99	13.23	11.10	2.07
	62	16.49	15.73	1.82	15.36	15.14	1.90	14.42	14.42	1.99	13.49	13.49	2.08
	57	16.20	16.20	1.81	15.31	15.31	1.90	14.42	14.42	1.99	13.50	13.50	2.08
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section	Size	Cooling		Indoor Section	Size	Cooling							
		Capacity	Power			Capacity	Power						
CC5A/CD5AA	018	1.02	1.03	CK5A/CK5BA	018	1.02	1.01						
	024	1.05	1.03		024	1.05	1.01						
CC5A/CD5AW	024	1.05	1.03	CK5A/CK5BW	024	1.05	1.01						
CE3AA	024	1.05	1.02	FF1DNA	018	1.00	0.97						
CF5AA	024	1.02	1.00		024	1.05	1.00						
CK3BA	024	1.05	1.01	PF1MN(A,B)	018	1.00	1.00						
	—	—	—		024	1.06	1.02						
PH10JA024-G, H Outdoor Section With PF1MN(A,B)024 Indoor Section													
700	72	26.13	13.39	2.39	24.86	12.97	2.55	23.34	12.40	2.71	21.70	11.75	2.87
	67	23.73	16.73	2.34	22.22	16.06	2.49	20.77	15.46	2.63	19.42	14.89	2.76
	63††	21.65	15.98	2.28	20.33	15.38	2.41	19.05	14.79	2.54	17.76	14.22	2.67
	62	21.55	19.95	2.28	20.00	19.12	2.40	18.79	18.46	2.53	17.66	17.66	2.67
	57	20.69	20.69	2.25	19.67	19.67	2.39	18.66	18.66	2.53	17.65	17.65	2.67
800	72	26.54	13.98	2.45	25.31	13.53	2.61	23.74	12.98	2.76	22.10	12.36	2.93
	67	24.23	17.74	2.39	22.60	17.08	2.53	21.11	16.47	2.69	19.72	15.89	2.82
	63††	22.09	16.94	2.34	21.16	17.07	2.49	20.25	16.72	2.65	18.04	15.15	2.73
	62	21.77	21.10	2.33	20.47	20.41	2.46	19.38	19.38	2.61	18.31	18.31	2.75
	57	21.51	21.51	2.32	20.43	20.43	2.46	19.39	19.39	2.61	18.32	18.32	2.75
900	72	26.83	14.43	2.50	25.61	14.12	2.66	24.05	13.55	2.81	22.44	12.98	2.97
	67	24.59	18.69	2.44	22.96	18.07	2.58	21.40	17.45	2.74	19.98	16.86	2.88
	63††	22.52	17.93	2.39	21.01	17.26	2.53	19.65	16.65	2.66	18.27	16.03	2.79
	62	22.29	22.29	2.38	21.09	21.09	2.53	19.97	19.97	2.68	18.86	18.86	2.82
	57	22.28	22.28	2.38	21.09	21.09	2.53	19.97	19.97	2.68	18.86	18.86	2.82
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section	Size	Cooling		Indoor Section	Size	Cooling							
		Capacity	Power			Capacity	Power						
CC5A/CD5AA	024	0.97	0.97	CK5A/CK5BA	024	0.97	0.96						
	030	0.99	0.99		030	0.99	0.98						
CC5A/CD5AW	024	0.97	0.97	CK5A/CK5BW	024	0.97	0.96						
	030	0.99	0.99		030	0.99	0.98						
CE3AA	024	0.98	0.97	FF1DNA	024	0.96	0.96						
	030	1.00	0.98		030	1.00	0.99						
CF5AA	024	0.98	0.98	PF1MN(A,B)	024	1.00	1.00						
CK3BA	024	0.97	0.96		030	1.02	1.01						
		030	0.99	0.98	—	—	—						

See notes on page 12.

DETAILED COOLING CAPACITIES* Continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
CFM	EWB	Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
PH10JA030-G, H Outdoor Section With PF1MN(A,B)030 Indoor Section													
875	72	32.4	16.4	2.86	30.6	15.8	3.04	28.7	15.1	3.22	26.9	14.5	3.41
	67	29.5	21.0	2.78	27.7	20.3	2.95	26.0	19.7	3.12	24.3	19.0	3.29
	63††	27.3	20.3	2.72	25.6	19.6	2.88	24.0	18.9	3.04	22.2	18.2	3.19
	62	26.8	25.3	2.71	25.3	24.5	2.87	23.8	23.6	3.03	22.3	22.3	3.20
	57	26.3	26.3	2.69	25.0	25.0	2.86	23.7	23.7	3.03	22.3	22.3	3.20
1050	72	33.1	17.5	2.94	31.2	16.8	3.13	29.2	16.2	3.31	27.3	15.5	3.50
	67	30.1	22.8	2.87	28.3	22.1	3.04	26.5	21.4	3.21	24.7	20.7	3.38
	63††	27.8	22.0	2.81	26.1	21.3	2.97	24.4	20.6	3.13	22.7	19.8	3.28
	62	27.7	27.5	2.80	26.2	26.2	2.97	24.9	24.9	3.14	23.4	23.4	3.32
	57	27.6	27.6	2.80	26.2	26.2	2.97	24.8	24.8	3.15	23.4	23.4	3.32
1250	72	33.6	18.6	3.03	31.6	17.9	3.22	29.6	17.3	3.40	27.6	16.6	3.59
	67	30.6	24.8	2.95	28.7	24.0	3.13	26.9	23.3	3.30	25.0	22.6	3.47
	63††	28.3	23.8	2.89	26.5	23.1	3.06	24.8	22.3	3.22	23.0	21.5	3.38
	62	28.7	28.7	2.91	27.3	27.3	3.08	25.8	25.8	3.26	24.3	24.3	3.44
	57	28.7	28.7	2.90	27.3	27.3	3.08	25.8	25.8	3.26	24.3	24.3	3.44
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section	Size	Cooling		Indoor Section	Size	Cooling							
		Capacity	Power			Capacity	Power						
CC5A/CD5AA	030	0.99	1.00	CK5A/CK5BA	030	0.99	1.00						
	036	1.04	1.02		036	1.03	1.01						
CC5A/CD5AW	030	1.00	1.01	CK5A/CK5BT	036	1.03	1.01						
	036	1.04	1.02		CK5A/CK5BW	030	0.99	1.00					
CE3AA	030	1.01	1.01	036		1.03	1.01						
CE3AA	036	1.02	1.02	FF1DNA	030	1.02	1.04						
CF5AA	036	1.03	1.02		PF1MN(A,B)	030	1.00	1.00					
CK3BA	030	0.99	1.00			036	1.00	1.02					
	036	1.03	1.01	—	—	—							
PH10J(P)A036-G, H, J Outdoor Section With PF1MN(A,B)036 Indoor Section													
1050	72	38.60	19.88	3.62	37.03	19.18	3.86	35.14	18.51	4.10	33.07	17.71	4.34
	67	35.24	24.86	3.54	33.42	24.00	3.76	31.38	23.19	3.99	29.45	22.39	4.19
	63††	32.36	23.87	3.47	30.50	22.97	3.66	28.70	22.16	3.86	26.90	21.36	4.06
	62	31.74	29.49	3.46	29.99	28.57	3.65	28.29	27.63	3.84	26.64	26.64	4.05
	57	30.79	30.79	3.42	29.43	29.43	3.62	28.01	28.01	3.83	26.62	26.62	4.05
1200	72	38.97	20.39	3.70	37.43	19.87	3.94	35.65	19.33	4.19	33.61	18.62	4.43
	67	35.94	26.38	3.62	34.00	25.45	3.85	31.92	24.70	4.08	29.92	23.88	4.29
	63††	33.00	25.25	3.55	31.10	24.41	3.76	29.20	23.58	3.95	27.34	22.75	4.15
	62	32.54	31.41	3.54	30.74	30.37	3.75	29.09	29.09	3.95	27.62	27.62	4.17
	57	32.05	32.05	3.53	30.57	30.57	3.74	29.09	29.09	3.95	27.62	27.62	4.17
1350	72	39.23	21.00	3.78	37.74	20.59	4.02	35.95	20.05	4.27	34.01	19.51	4.52
	67	36.38	27.65	3.70	34.45	26.89	3.93	32.31	26.13	4.15	30.28	25.28	4.38
	63††	33.51	26.63	3.63	31.56	25.77	3.85	29.60	24.91	4.04	27.67	24.03	4.24
	62	33.16	33.16	3.62	31.58	31.58	3.85	29.99	29.99	4.07	28.43	28.43	4.29
	57	33.09	33.09	3.62	31.60	31.60	3.86	30.00	30.00	4.07	28.44	28.44	4.29
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section	Size	Cooling		Indoor Section	Size	Cooling							
		Capacity	Power			Capacity	Power						
CC5A/CD5AA	036	1.01	0.98	CK5A/CK5BA	036	1.01	0.98						
	042	1.01	0.98		042	1.01	0.98						
CC5A/CD5AW	036	1.01	0.98	CK5A/CK5BE	042	1.02	0.98						
	042	1.01	0.99		CK5A/CK5BT	036	1.01	0.98					
CE3AA	036	1.00	0.98	042		1.01	0.98						
	042	1.02	0.98	CK5A/CK5BW	036	1.01	0.98						
CF5AA	036	1.01	0.98		PF1MN(A,B)	036	1.00	1.00					
CK3BA	036	1.01	0.98	042		1.02	1.00						
	042	1.01	0.98	—		—	—						

See notes on page 12.

DETAILED COOLING CAPACITIES* Continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
		Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**	Capacity MBtu/h†		Total Sys kW**
CFM	EWB	Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
PH10JA042-G, H Outdoor Section With PF1MN(A,B)042 Indoor Section													
1225	72	44.42	22.84	3.94	42.85	22.26	4.32	40.91	21.55	4.74	38.64	20.67	5.21
	67	40.69	28.68	3.86	38.80	27.86	4.24	36.83	27.02	4.62	34.85	26.20	5.05
	63	37.51	27.58	3.79	35.79	26.78	4.13	34.01	25.98	4.52	32.14	25.14	4.94
	62	36.84	34.08	3.76	35.17	33.22	4.11	33.49	32.31	4.50	31.74	31.30	4.93
	57	35.81	35.81	3.73	34.43	34.43	4.08	33.05	33.05	4.49	31.56	31.56	4.92
1400	72	44.94	23.64	4.02	43.44	23.21	4.40	41.53	22.55	4.82	39.27	21.72	5.29
	67	41.40	30.41	3.95	39.50	29.63	4.32	37.44	28.76	4.72	35.38	27.91	5.15
	63	38.24	29.23	3.88	36.44	28.43	4.22	34.60	27.61	4.61	32.61	26.72	5.03
	62	37.63	36.28	3.86	35.98	35.32	4.21	34.27	34.27	4.61	32.64	32.64	5.04
	57	37.14	37.14	3.86	35.70	35.70	4.20	34.25	34.25	4.60	32.65	32.65	5.04
1575	72	45.18	24.35	4.10	43.81	24.05	4.48	41.97	23.48	4.90	39.77	22.74	5.36
	67	41.92	32.00	4.03	40.01	31.27	4.40	37.88	30.39	4.82	35.76	29.51	5.24
	63	38.82	30.82	3.95	36.94	29.98	4.32	34.98	29.11	4.70	32.96	28.21	5.12
	62	38.34	38.34	3.95	36.81	36.81	4.32	35.19	35.19	4.71	33.55	33.55	5.15
	57	38.27	38.27	3.95	36.82	36.82	4.32	35.20	35.20	4.71	33.58	33.58	5.15

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	042	0.99	0.97	CK5A/CK5BA	042	1.00	0.99
CC5A/CD5AC	048	0.99	0.99		048	1.00	0.98
CC5A/CD5AW	042	0.97	0.97	CK5A/CK5BE	042	1.01	1.00
	048	1.00	0.99		042	1.01	1.00
CD5AA	048	0.99	0.97	CK5A/CK5BT	048	1.01	1.00
CE3AA	042	1.01	0.99		CK5A/CK5BW	048	1.01
CF5AA	048	1.01	1.00	PF1MN(A,B)		042	1.00
	048	1.01	1.00		048	1.03	1.01
CK3BA	042	1.00	0.99	—	—	—	—
	048	1.01	1.00		—	—	—

PH10J(P)A048-G Outdoor Section With PF1MN(A,B)048 Indoor Section

1500	72	51.2	26.1	4.53	48.8	25.3	4.96	46.4	24.4	5.44	43.7	23.5	5.95
	67	46.9	33.8	4.44	44.7	32.9	4.87	42.4	32.0	5.33	40.0	31.0	5.84
	63††	43.7	32.8	4.38	41.6	31.9	4.80	39.4	30.9	5.26	37.0	29.9	5.75
	62	43.2	41.0	4.37	41.2	40.0	4.79	39.2	38.8	5.25	37.1	37.1	5.76
	57	42.5	42.5	4.35	40.8	40.8	4.78	39.0	39.0	5.25	37.1	37.1	5.76
1600	72	51.5	26.7	4.58	49.1	25.9	5.01	46.6	25.0	5.49	43.9	24.1	6.00
	67	47.3	34.8	4.49	45.0	33.9	4.92	42.6	33.0	5.39	40.2	32.0	5.89
	63††	44.0	33.7	4.42	41.8	32.8	4.85	39.6	31.8	5.31	37.2	30.8	5.80
	62	43.6	42.3	4.42	41.6	41.1	4.84	39.6	39.6	5.31	37.7	37.7	5.82
	57	43.2	43.2	4.41	41.5	41.5	4.84	39.6	39.6	5.31	37.7	37.7	5.82
1700	72	51.8	27.3	4.63	49.4	26.4	5.06	46.8	25.5	5.54	44.1	24.6	6.05
	67	47.6	35.8	4.54	45.3	34.9	4.97	42.9	34.0	5.44	40.4	33.0	5.94
	63††	44.2	34.6	4.47	42.1	33.7	4.90	39.8	32.8	5.36	37.4	31.7	5.85
	62	44.0	43.4	4.47	42.1	42.0	4.90	40.2	40.2	5.37	38.2	38.2	5.88
	57	43.8	43.8	4.46	42.0	42.0	4.90	40.2	40.2	5.37	38.2	38.2	5.88

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Cooling		Indoor Section	Size	Cooling	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	060	0.99	0.99	CK5A/CK5BA	048	0.99	0.98
CC5A/CD5AC	048	0.97	0.98		060	1.01	0.99
CC5A/CD5AW	048	0.98	0.98	CK5A/CK5BT	048	0.99	0.98
CD5AA	048	0.98	0.98		060	1.01	0.99
CE3AA	048	0.99	0.98	CK5A/CK5BW	048	0.99	0.98
	060	1.02	0.98		CK5A/CK5BX	060	1.03
CF5AA	048	1.00	0.98	PF1MN(A,B)	048	1.00	1.00
CK3BA	048	0.99	0.98		060	1.02	1.02
	060	1.03	1.00		070	1.06	1.02
—	—	—	—	071	1.07	0.98	

See notes on page 12.

DETAILED COOLING CAPACITIES* Continued

EVAP AIR		CONDENSER ENTERING AIR TEMPERATURES °F											
		85			95			105			115		
CFM	EWB	Capacity MBtuh†		Total Sys kW**	Capacity MBtuh†		Total Sys kW**	Capacity MBtuh†		Total Sys kW**	Capacity MBtuh†		Total Sys kW**
		Total	Sens‡		Total	Sens‡		Total	Sens‡		Total	Sens‡	
PH10J(P)A060-G Outdoor Section With PF1MN(A,B)060 Indoor Section													
1900	72	64.2	32.6	5.73	61.2	31.5	6.25	58.0	30.4	6.83	54.7	29.3	7.46
	67	58.6	42.4	5.61	55.8	41.2	6.13	52.8	40.1	6.69	49.7	38.9	7.31
	63††	54.4	41.0	5.53	51.8	39.9	6.04	49.0	38.7	6.60	46.0	37.4	7.19
	62	53.7	51.5	5.51	51.3	50.2	6.03	48.7	48.6	6.59	46.3	46.3	7.20
	57	53.0	53.0	5.50	50.9	50.9	6.02	48.7	48.7	6.59	46.3	46.3	7.20
2000	72	64.5	33.2	5.79	61.4	32.1	6.32	58.1	31.0	6.89	54.9	29.8	7.52
	67	58.9	43.4	5.67	56.0	42.2	6.19	53.0	41.0	6.76	49.9	39.9	7.37
	63††	54.7	42.0	5.59	52.0	40.8	6.10	49.1	39.6	6.66	46.2	38.3	7.26
	62	54.2	52.8	5.58	51.6	51.3	6.09	49.2	49.2	6.66	46.8	46.8	7.27
	57	53.7	53.7	5.57	51.5	51.5	6.09	49.2	49.2	6.66	46.8	46.8	7.28
2100	72	64.8	33.7	5.85	61.6	32.6	6.38	58.4	31.5	6.95	55.0	30.4	7.58
	67	59.1	44.4	5.73	56.1	43.2	6.25	53.1	42.0	6.82	50.0	40.8	7.43
	63††	55.0	42.9	5.64	52.1	41.7	6.16	49.4	40.5	6.72	46.3	39.2	7.32
	62	54.6	53.9	5.64	52.2	52.1	6.16	49.8	49.8	6.73	47.3	47.3	7.35
	57	54.3	54.3	5.63	52.1	52.1	6.16	49.7	49.7	6.73	47.3	47.3	7.35
Multipliers for Determining the Performance With Other Indoor Sections													
Indoor Section	Size	Cooling		Indoor Section	Size	Cooling							
		Capacity	Power			Capacity	Power						
CC5A/CD5AA	060	0.96	0.96	CK5A/CK5BT	060	0.97	0.95						
CC5A/CD5AW	060	0.99	0.97	CK5A/CK5BX	060	1.01	0.96						
CE3AA	060	1.01	0.97	PF1MN(A,B)	060	1.00	1.00						
CK3BA	060	1.01	0.96		070	1.03	0.99						
CK5A/CK5BA	060	0.97	0.95		071	1.01	0.92						

NOTE: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

*Detailed cooling capacities are based on indoor and outdoor unit at the same elevation and connected by 25 ft (4.59m) of tubing. If other than 25 ft (4.59m) of tubing is used and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btuh (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).

** System kW is total of indoor and outdoor unit kilowatts.

††At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F edb.

HEAT PUMP HEATING PERFORMANCE

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
EDB	CFM	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr
		Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡
PH10JA018-G, H Outdoor Section With PF1MN(A,B)018 Indoor Section																									
65	525	5.18	4.77	1.16	7.31	6.72	1.25	9.56	8.72	1.34	11.99	10.65	1.44	14.55	13.24	1.54	17.31	17.31	1.66	20.38	20.38	1.81	23.77	23.77	1.97
	650	5.46	5.02	1.21	7.63	7.01	1.30	9.97	9.09	1.38	12.47	11.07	1.47	15.07	13.71	1.57	17.89	17.89	1.69	21.09	21.09	1.84	24.00	24.00	1.95
	675	5.51	5.06	1.22	7.69	7.07	1.31	10.04	9.15	1.39	12.54	11.14	1.48	15.15	13.79	1.58	17.98	17.98	1.69	21.08	21.08	1.83	23.98	23.98	1.94
70	525	4.69	4.31	1.15	6.85	6.29	1.25	9.09	8.28	1.35	11.56	10.26	1.45	14.07	12.81	1.56	16.82	16.82	1.68	19.86	19.86	1.83	23.30	23.30	2.00
	650	4.95	4.55	1.20	7.18	6.60	1.30	9.49	8.65	1.39	12.04	10.69	1.49	14.62	13.30	1.59	17.40	17.40	1.71	20.55	20.55	1.85	23.73	23.73	1.98
	675	5.00	4.60	1.21	7.23	6.64	1.31	9.56	8.71	1.40	12.12	10.76	1.50	14.70	13.38	1.60	17.51	17.51	1.71	20.63	20.63	1.86	23.70	23.70	1.98
75	525	4.17	3.84	1.15	6.38	5.87	1.26	8.63	7.87	1.36	11.07	9.83	1.46	13.64	12.41	1.58	16.33	16.33	1.70	19.36	19.36	1.85	22.78	22.78	2.04
	650	4.42	4.07	1.20	6.70	6.15	1.30	9.00	8.20	1.40	11.56	10.26	1.50	14.13	12.86	1.61	16.92	16.92	1.73	20.04	20.04	1.88	23.35	23.35	2.02
	675	4.47	4.11	1.20	6.75	6.20	1.31	9.07	8.27	1.41	11.64	10.33	1.51	14.22	12.94	1.61	17.02	17.02	1.74	20.15	20.15	1.88	23.43	23.43	2.02

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	018	0.98	1.03	CK5A/CK5BA	018	0.98	0.98
	024	1.00	1.01		024	1.00	0.96
CC5A/CD5AW	024	1.00	1.01	CK5A/CK5BW	024	1.00	0.96
CE3AA	024	1.00	1.00	FF1DNA	018	1.00	0.98
CF5AA	024	0.98	0.99		024	1.01	0.98
CK3BA	024	1.00	0.96	PF1MN(A,B)	018	1.00	1.00
	—	—	—		024	1.02	0.99

PH10JA024-G, H Outdoor Section With PF1MN(A,B)024 Indoor Section

65	700	7.73	7.11	1.35	10.26	9.43	1.47	12.98	11.83	1.59	15.94	14.16	1.72	19.23	17.50	1.87	22.88	22.88	2.03	27.02	27.02	2.23	31.20	31.20	2.41
	800	7.93	7.29	1.38	10.48	9.63	1.50	13.24	12.07	1.62	16.27	14.45	1.75	19.63	17.87	1.89	23.35	23.35	2.04	27.55	27.55	2.22	7.73	7.73	2.35
	900	8.11	7.46	1.42	10.68	9.81	1.53	13.47	12.28	1.65	16.55	14.70	1.77	19.97	18.17	1.91	23.74	23.74	2.06	27.72	27.72	2.21	30.76	30.76	2.33
70	700	7.31	6.73	1.36	9.84	9.04	1.49	12.56	11.45	1.62	15.49	13.75	1.75	18.72	17.04	1.90	22.33	22.33	2.08	26.45	26.45	2.28	30.69	30.69	2.47
	800	7.52	6.91	1.40	10.06	9.24	1.52	12.82	11.69	1.65	15.81	14.04	1.78	19.14	17.41	1.92	22.80	22.80	2.08	26.97	26.97	2.27	30.87	30.87	2.43
	900	7.69	7.08	1.43	10.26	9.43	1.55	13.06	11.90	1.67	16.09	14.29	1.80	19.46	17.71	1.94	23.18	23.18	2.10	27.33	27.33	2.27	30.70	30.70	2.40
75	700	6.88	6.33	1.37	9.41	8.65	1.50	12.13	11.06	1.64	15.05	13.37	1.78	18.26	16.61	1.94	21.80	21.80	2.12	25.86	25.86	2.33	30.18	30.18	2.53
	800	7.08	6.51	1.41	9.63	8.85	1.54	12.39	11.30	1.67	15.35	13.63	1.81	18.62	16.94	1.96	22.26	22.26	2.13	26.42	26.42	2.33	30.47	30.47	2.49
	900	7.25	6.67	1.44	9.83	9.04	1.57	12.62	11.51	1.70	15.62	13.88	1.83	18.94	17.24	1.98	22.64	22.64	2.14	26.85	26.85	2.33	30.41	30.41	2.47

Multipliers for Determining the Performance With Other Indoor Sections

Indoor Section	Size	Heating		Indoor Section	Size	Heating	
		Capacity	Power			Capacity	Power
CC5A/CD5AA	024	0.97	0.97	CK5A/CK5BA	024	0.97	0.94
	030	0.90	0.91		030	0.90	0.89
CC5A/CD5AW	024	0.97	0.99	CK5A/CK5BW	024	0.97	0.94
	030	0.90	0.91		030	0.90	0.89
CE3AA	024	0.97	0.98	FF1DNA	024	0.97	0.96
	030	0.97	0.96		030	0.97	0.95
CF5AA	024	0.97	0.99	PF1MN(A,B)	024	1.00	1.00
CK3BA	024	0.97	0.94		030	1.00	1.00
	030	0.90	0.89		—	—	—

See notes on page 16.

HEAT PUMP HEATING PERFORMANCE Continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																																																
		-3			7			17			27			37			47			57			67																											
EDB	CFM	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr																									
		Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡																						
PH10JA030-G, H Outdoor Section With PF1MN(A,B)030 Indoor Section																																																		
65	875	11.1	10.2	1.77	14.0	12.9	1.91	17.2	15.7	2.05	20.5	18.2	2.20	24.2	22.1	2.36	28.4	28.4	2.54	33.0	33.0	2.76	38.2	38.2	3.02	1050	11.4	10.5	1.83	14.4	13.2	1.96	17.6	16.1	2.10	21.0	18.6	2.24	24.8	22.6	2.39	29.0	29.0	2.56	33.7	33.7	2.77	38.9	38.9	3.03
	1250	11.8	10.8	1.89	14.8	13.6	2.02	18.0	16.4	2.16	21.4	19.0	2.29	25.2	23.0	2.43	29.5	29.5	2.60	34.3	34.3	2.81	39.5	39.5	3.07	875	10.6	9.76	1.79	13.6	12.5	1.93	16.8	15.3	2.09	20.0	17.8	2.24	23.7	21.6	2.41	27.8	27.8	2.59	32.4	32.4	2.82	37.5	37.5	3.09
	1050	11.0	10.1	1.84	14.0	12.8	1.99	17.2	15.6	2.13	20.5	18.2	2.28	24.3	22.1	2.44	28.4	28.4	2.62	33.1	33.1	2.83	38.2	38.2	3.10	1250	11.3	10.4	1.91	14.3	13.2	2.05	17.6	16.0	2.19	20.9	18.6	2.33	24.7	22.5	2.48	28.9	28.9	2.66	33.6	33.6	2.87	38.8	38.8	3.13
70	875	10.6	9.76	1.79	13.6	12.5	1.93	16.8	15.3	2.09	20.0	17.8	2.24	23.7	21.6	2.41	27.8	27.8	2.59	32.4	32.4	2.82	37.5	37.5	3.09	1050	11.0	10.1	1.84	14.0	12.8	1.99	17.2	15.6	2.13	20.5	18.2	2.28	24.3	22.1	2.44	28.4	28.4	2.62	33.1	33.1	2.83	38.2	38.2	3.10
	1250	11.3	10.4	1.91	14.3	13.2	2.05	17.6	16.0	2.19	20.9	18.6	2.33	24.7	22.5	2.48	28.9	28.9	2.66	33.6	33.6	2.87	38.8	38.8	3.13	875	10.1	9.29	1.80	13.2	12.1	1.95	16.3	14.9	2.11	19.6	17.4	2.28	23.3	21.2	2.45	27.2	27.2	2.65	31.7	31.7	2.88	36.8	36.8	3.15
	1050	10.4	9.61	1.86	13.6	12.5	2.01	16.7	15.2	2.16	20.0	17.8	2.31	23.8	21.6	2.48	27.8	27.8	2.67	32.4	32.4	2.89	37.5	37.5	3.16	1250	10.8	9.93	1.92	13.9	12.8	2.07	17.1	15.6	2.22	20.4	18.2	2.37	24.2	22.0	2.53	28.3	28.3	2.71	33.0	33.0	2.93	38.1	38.1	3.19
Multipliers for Determining the Performance With Other Indoor Sections																																																		
Indoor Section	Size	Heating		Indoor Section	Size	Heating																																												
		Capacity	Power			Capacity	Power																																											
CC5A/CD5AA	030	0.99	1.01	CK5A/CK5BA	030	0.99	0.99																																											
	036	0.98	0.98		036	1.01	0.98																																											
CC5A/CD5AW	030	0.99	1.02	CK5A/CK5BT	036	1.01	0.98																																											
	036	0.98	0.98		CK5A/CK5BW	030	0.99	0.99																																										
CE3AA	030	1.01	1.01	FF1DNA		036	1.01	0.98																																										
	036	1.01	1.00		030	1.01	1.01																																											
CF5AA	036	0.99	0.99	PF1MN(A,B)	030	1.00	1.00																																											
CK3BA	030	0.99	0.99		036	1.02	1.02																																											
	036	1.01	0.98		—	—	—																																											
PH10J(PA)036-G, H, J Outdoor Section With PF1MN(A,B)036 Indoor Section																																																		
65	1050	12.13	11.16	2.17	15.89	14.60	2.35	19.96	18.20	2.53	24.24	21.53	2.72	28.94	26.34	2.93	34.07	34.07	3.17	40.02	40.02	3.46	46.42	46.42	3.76	1200	12.45	11.46	2.23	16.25	14.93	2.40	20.37	18.57	2.58	24.72	21.95	2.77	29.44	26.79	2.97	34.62	34.62	3.19	40.62	40.62	3.48	46.31	46.31	3.71
	1350	12.75	11.73	2.29	16.58	15.24	2.46	20.73	18.90	2.63	25.10	22.29	2.81	29.87	27.18	3.01	35.08	35.08	3.23	40.99	40.99	3.49	45.72	45.72	3.67	1050	11.50	10.58	2.18	15.29	14.05	2.37	19.35	17.64	2.56	23.64	21.00	2.76	28.34	25.79	2.98	33.45	33.45	3.23	39.23	39.23	3.52	45.95	45.95	3.87
	1200	11.82	10.87	2.24	15.65	14.38	2.42	19.75	18.01	2.61	24.10	21.41	2.80	28.83	26.24	3.02	34.00	34.00	3.25	39.88	39.88	3.55	46.00	46.00	3.81	1350	12.12	11.15	2.30	15.97	14.68	2.48	20.13	18.35	2.66	24.50	21.76	2.85	29.26	26.63	3.06	34.45	34.45	3.29	40.46	40.46	3.59	45.70	45.70	3.78
75	1050	10.80	9.93	2.19	14.67	13.48	2.39	18.75	17.10	2.59	23.10	20.51	2.80	27.77	25.27	3.03	32.84	32.84	3.29	38.59	38.59	3.60	45.24	45.24	3.97	1200	11.13	10.24	2.25	15.02	13.80	2.44	19.16	17.47	2.64	23.54	20.91	2.85	28.25	25.71	3.07	33.38	33.38	3.32	39.17	39.17	3.61	45.63	45.63	3.92
	1350	11.42	10.51	2.31	15.35	14.10	2.50	19.52	17.79	2.69	23.94	21.26	2.89	28.66	26.08	3.11	33.84	33.84	3.35	39.70	39.70	3.65	45.52	45.52	3.88	1050	10.80	9.93	2.19	14.67	13.48	2.39	18.75	17.10	2.59	23.10	20.51	2.80	27.77	25.27	3.03	32.84	32.84	3.29	38.59	38.59	3.60	45.24	45.24	3.97
	1200	11.13	10.24	2.25	15.02	13.80	2.44	19.16	17.47	2.64	23.54	20.91	2.85	28.25	25.71	3.07	33.38	33.38	3.32	39.17	39.17	3.61	45.63	45.63	3.92	1350	11.42	10.51	2.31	15.35	14.10	2.50	19.52	17.79	2.69	23.94	21.26	2.89	28.66	26.08	3.11	33.84	33.84	3.35	39.70	39.70	3.65	45.52	45.52	3.88
Multipliers for Determining the Performance With Other Indoor Sections																																																		
Indoor Section	Size	Heating		Indoor Section	Size	Heating																																												
		Capacity	Power			Capacity	Power																																											
CC5A/CD5AA	036	1.00	0.99	CK5A/CK5BA	036	1.00	0.98																																											
	042	1.00	0.99		042	1.01	0.99																																											
CC5A/CD5AW	036	1.00	0.99	CK5A/CK5BE	042	1.01	0.98																																											
	042	1.00	1.00		CK5A/CK5BT	036	1.00	0.98																																										
CE3AA	036	1.00	1.00	CK5A/CK5BW		042	1.01	0.99																																										
	042	1.01	0.99		036	1.00	0.98																																											
CF5AA	036	0.97	0.96	PF1MN(A,B)	036	1.00	1.00																																											
CK3BA	036	1.00	0.98		042	1.02	1.00																																											
	042	1.01	0.99		—	—	—																																											

See notes on page 16.

HEAT PUMP HEATING PERFORMANCE Continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
EDB	CFM	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr	Capacity MBtu/h†		Total Pwr
		Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡
PH10JA042-G, H Outdoor Section With PF1MN(A,B)042 Indoor Section																									
65	1225	18.02	16.58	2.81	21.94	20.16	2.96	26.23	23.92	3.14	31.05	27.58	3.37	36.46	33.17	3.63	42.48	42.48	3.96	49.49	49.49	4.38	57.66	57.66	4.92
	1400	18.31	16.84	2.85	22.25	20.44	2.99	26.57	24.23	3.16	31.41	27.90	3.37	36.86	33.54	3.63	42.92	42.92	3.95	50.00	50.00	4.35	57.88	57.88	4.79
	1575	18.58	17.09	2.90	22.55	20.72	3.03	26.88	24.51	3.19	31.73	28.18	3.40	37.21	33.86	3.65	43.29	43.29	3.96	50.41	50.41	4.36	57.42	57.42	4.68
70	1225	17.69	16.28	2.92	21.65	19.89	3.09	25.88	23.60	3.27	30.72	27.28	3.51	36.08	32.83	3.78	42.07	42.07	4.12	48.97	48.97	4.54	57.02	57.02	5.08
	1400	18.01	16.57	2.96	21.95	20.17	3.11	26.24	23.93	3.28	31.07	27.60	3.51	36.48	33.20	3.77	42.50	42.50	4.10	49.49	49.49	4.51	57.59	57.59	5.01
	1575	18.26	16.80	3.01	22.24	20.43	3.15	26.55	24.21	3.31	31.40	27.89	3.52	36.83	33.52	3.78	42.89	42.89	4.10	49.91	49.91	4.51	57.50	57.50	4.89
75	1225	17.33	15.95	3.03	21.35	19.62	3.21	25.70	23.43	3.41	30.36	26.97	3.65	35.71	32.49	3.93	41.66	41.66	4.29	48.44	48.44	4.71	56.38	56.38	5.26
	1400	17.63	16.22	3.07	21.66	19.90	3.24	26.03	23.74	3.42	30.75	27.31	3.65	36.11	32.86	3.92	42.09	42.09	4.26	48.98	48.98	4.67	57.03	57.03	5.20
	1575	17.91	16.48	3.12	21.93	20.16	3.27	26.19	23.88	3.44	31.08	27.60	3.67	36.46	33.18	3.93	42.47	42.47	4.26	49.41	49.41	4.67	57.33	57.33	5.13
Multipliers for Determining the Performance With Other Indoor Sections																									
Indoor Section	Size	Heating				Indoor Section	Size	Heating																	
		Capacity	Power	Capacity	Power																				
CC5A/CD5AA	042	1.00				CK5A/CK5BA	042	0.99																	
CC5A/CD5AC	048	0.99					048	0.99																	
CC5A/CD5AW	042	1.00				CK5A/CK5BE	042	1.00																	
	048	1.00					CK5A/CK5BT	042	1.00																
CD5AA	048	0.99				CK5A/CK5BW		048	1.00																
CE3AA	042	1.00					PF1MN(A,B)	042	1.00																
	048	1.00				048		1.00																	
CF5AA	048	0.99				—	—	—																	
CK3BA	042	0.99					—	—																	
	048	1.00				—	—																		
PH10J(P)A048-G Outdoor Section With PF1MN(A,B)048 Indoor Section																									
65	1500	26.4	24.2	3.76	30.0	27.5	3.79	33.5	30.6	3.80	37.2	33.0	3.83	40.9	37.2	3.87	45.2	45.2	3.96	50.4	50.4	4.12	53.2	53.2	4.17
	1600	26.5	24.4	3.79	30.1	27.7	3.81	33.7	30.7	3.82	37.4	33.2	3.84	41.1	37.4	3.87	45.5	45.5	3.95	50.6	50.6	4.10	52.8	52.8	4.11
	1700	26.6	24.6	3.82	30.3	27.9	3.83	33.9	30.9	3.84	37.6	33.4	3.85	41.3	37.6	3.88	45.7	45.7	3.96	50.8	50.8	4.09	53.2	53.2	4.11
70	1500	26.0	23.9	3.90	29.6	27.2	3.94	33.2	30.3	3.96	36.8	32.7	3.99	40.5	36.8	4.04	44.7	44.7	4.13	49.9	49.9	4.29	53.6	53.6	4.41
	1600	26.2	24.1	3.93	29.8	27.4	3.96	33.4	30.5	3.98	37.0	32.9	4.00	40.7	37.0	4.04	45.0	45.0	4.12	50.2	50.2	4.29	53.6	53.6	4.36
	1700	26.4	24.3	3.96	30.0	27.6	3.98	33.6	30.6	4.00	37.2	33.1	4.01	40.9	37.2	4.04	45.2	45.2	4.12	50.4	50.4	4.28	53.5	53.5	4.33
75	1500	25.5	23.4	4.03	29.3	26.9	4.09	32.9	30.0	4.13	36.5	32.4	4.17	40.1	36.5	4.21	44.2	44.2	4.30	49.3	49.3	4.47	53.6	53.6	4.64
	1600	25.7	23.6	4.06	29.5	27.1	4.12	33.1	30.2	4.14	36.7	32.6	4.17	40.3	36.7	4.21	44.5	44.5	4.29	49.6	49.6	4.46	53.7	53.7	4.60
	1700	25.9	23.8	4.09	29.7	27.3	4.14	33.3	30.3	4.16	36.9	32.7	4.18	40.5	36.8	4.22	44.7	44.7	4.29	49.8	49.8	4.45	53.4	53.4	4.54
Indoor Section	Size	Heating				Indoor Section	Size	Heating																	
		Capacity	Power	Capacity	Power																				
CC5A/CD5AA	060	0.99				CK5A/CK5BA	048	0.99																	
CC5A/CD5AC	048	0.96					060	1.00																	
CC5A/CD5AW	048	0.99				CK5A/CK5BT	048	0.99																	
CD5AA	048	0.99					060	1.00																	
CE3AA	048	0.99				CK5A/CK5BW	048	0.99																	
	060	0.97					CK5A/CK5BX	060	0.98																
CF5AA	048	0.95				PF1MN(A,B)		048	1.00																
CK3BA	048	0.99					060	0.97																	
	060	0.98				070	0.90																		
	—	—				071	0.97																		

See notes on page 16.

HEAT PUMP HEATING PERFORMANCE Continued

INDOOR AIR		OUTDOOR COIL ENTERING AIR TEMPERATURES °F																							
		-3			7			17			27			37			47			57			67		
EDB	CFM	Capacity MBtuh†		Total Pwr	Capacity MBtuh†		Total Pwr	Capacity MBtuh†		Total Pwr	Capacity MBtuh†		Total Pwr	Capacity MBtuh†		Total Pwr	Capacity MBtuh†		Total Pwr	Capacity MBtuh†		Total Pwr	Capacity MBtuh†		Total Pwr
		Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡	Total	Int	kW‡
PH10J(P)A060-G Outdoor Section With PF1MN(A,B)060 Indoor Section																									
65	1900	28.0	25.8	4.36	32.8	30.2	4.51	38.2	34.8	4.67	44.0	39.1	4.86	50.9	46.3	5.12	59.4	59.4	5.50	69.7	69.7	6.06	79.0	79.0	6.35
	2000	28.2	25.9	4.40	33.0	30.4	4.54	38.4	35.0	4.70	44.3	39.3	4.89	51.2	46.6	5.14	59.7	59.7	5.52	70.0	70.0	6.08	78.8	78.8	6.51
	2100	28.4	26.1	4.44	33.2	30.5	4.58	38.6	35.2	4.73	44.5	39.5	4.92	51.4	46.8	5.17	59.9	59.9	5.54	70.3	70.3	6.11	78.5	78.5	6.47
70	1900	27.7	25.5	4.51	32.5	29.8	4.68	37.8	34.4	4.86	43.6	38.7	5.06	50.3	45.8	5.32	58.7	58.7	5.70	68.8	68.8	6.27	78.7	78.7	6.87
	2000	27.9	25.6	4.55	32.7	30.0	4.71	38.0	34.6	4.88	43.8	38.9	5.08	50.6	46.0	5.34	59.0	59.0	5.72	69.0	69.0	6.28	78.9	78.9	6.85
	2100	28.1	25.8	4.59	32.9	30.2	4.75	38.2	34.8	4.91	44.0	39.1	5.11	50.8	46.2	5.36	59.3	59.3	5.74	69.4	69.4	6.31	78.8	78.8	6.82
75	1900	27.3	25.1	4.66	32.1	29.5	4.85	37.4	34.1	5.05	43.1	38.3	5.26	49.7	45.3	5.53	58.0	58.0	5.92	68.0	68.0	6.49	78.2	78.2	7.16
	2000	27.5	25.3	4.70	32.3	29.7	4.89	37.6	34.3	5.07	43.3	38.5	5.28	50.0	45.5	5.55	58.3	58.3	5.94	68.3	68.3	6.50	78.4	78.4	7.16
	2100	27.7	25.5	4.74	32.5	29.9	4.92	37.8	34.5	5.10	43.6	38.7	5.31	50.2	45.7	5.57	58.5	58.5	5.95	68.6	68.6	6.52	78.8	78.8	7.19
Multipliers for Determining the Performance With Other Indoor Sections																									
Indoor Section	Size	Heating		Indoor Section	Size	Heating																			
		Capacity	Power			Capacity	Power																		
Indoor Section	Size	Heating		Indoor Section	Size	Heating																			
		Capacity	Power			Capacity	Power																		
CC5A/CD5AA	060	0.97 1.03		CK5A/CK5BT	060	0.97 1.00																			
CC5A/CD5AW	060	0.98 1.00		CK5A/CK5BX	060	0.98 0.97																			
CE3AA	060	0.98 0.98		PF1MN(A,B)	060	1.00 1.00																			
CK3BA	060	0.98 0.97			070	1.00 0.96																			
CK5A/CK5BA	060	0.97 1.00			071	0.97 0.92																			

NOTE: When the required data fall between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.
 † The Btuh heating capacity values shown are net integrated values from which the defrost effect has been subtracted. The Btuh heating from supplement heaters should be added to those values to obtain total system capacity.
 ‡ The kW values include the compressor, outdoor fan motor, and indoor blower motor. The kW from supplement heaters should be added to these values to obtain total system kilowatts.
 EDB—Entering Dry Bulb

SYSTEM DESIGN

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. Minimum outdoor operating air temperature for cooling mode without low-ambient operation accessory is 55°F (12.8°C).
3. Maximum outdoor operating air temperature for cooling mode is 115°F (46.1°C).
4. Minimum outdoor operating air temperature for heating mode is -30°F (-34.4°C).
5. Maximum outdoor operating air temperature for heating mode is 66°F (18.9°C).
6. For reliable operation, unit should be level in all horizontal planes.
7. Maximum elevation of indoor coil above or below base of outdoor unit is: indoor coil above = 50 ft, indoor coil below = 150 ft. (See items 8 and 9 following.)
8. For interconnecting refrigerant tube lengths greater than 50 ft or 20 ft vertical differential, consult the Residential Split-System Long-Line Application Guideline available from equipment distributor.
9. IF ANY refrigerant tubing is buried, provide a minimum 6-in. vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. may be buried without further consideration. For burial of refrigerant tubing lengths greater than 36 in., consult local distributor.
10. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.



SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT MUST BE INSTALLED IN ACCORDANCE WITH INSTALLATION INSTRUCTIONS

Cancels: SS-PH10-07