

A7HP14F

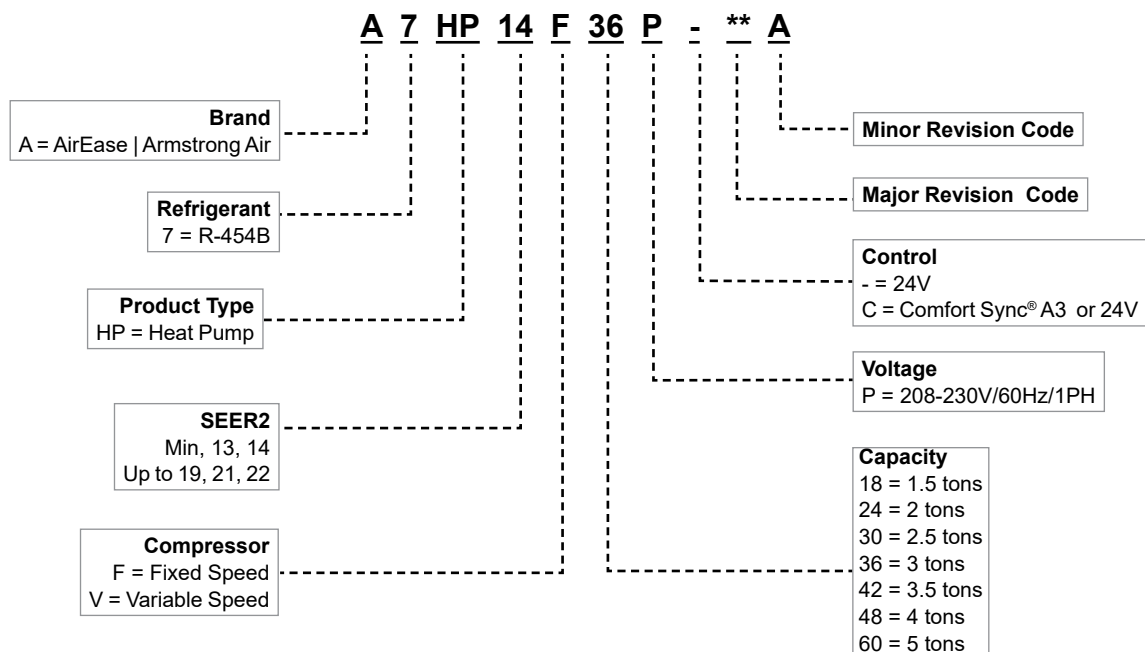
Single-Stage | Omniguard® Coil | R-454B | 1-Phase | 60Hz

**RESIDENTIAL
PRODUCT SPECIFICATIONS**

1.5 to 5 Tons

SEER2 up to 17.0

HSPF2 up to 8.2

**MODEL NUMBER IDENTIFICATION**

FEATURE HIGHLIGHTS

- Outdoor Coil Fan
- Omniguard® Coil
- High Pressure Switch
- Expansion Valve - Outdoor Unit
- Four-Way Reversing Valve
- High-Capacity Liquid Line Drier
- Scroll Compressor
- Compressor Sound Dampening System
- Defrost Control
- Heavy Gauge Steel Cabinet
- Louvered Coil Protection
- Refrigerant Line Connections

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APPROVALS AND WARRANTY

APPROVALS

- AHRI Certified to AHRI Standard 210-240-2023
- For AHRI Certified system match-ups and expanded ratings, visit www.alliedratings.com
- Omniguard® certified
- Sound rated to AHRI Standard 270-2008 test conditions
- Rated According to U.S. Department of Energy (DOE) test procedures
- Units and components UL, NEC, and CEC bonded for grounding to meet safety standards for servicing
- ETL certified (U.S. and Canada)
- ISO 9001 Registered Manufacturing Quality System

WARRANTY

10-years limited warranty on all parts, extended warranty available.

Coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty).

Warranty must be registered online within 60 days of installation to qualify for 10-year coverage.

Unregistered equipment defaults to 5-year coverage.

See full warranty at www.alliedair.com for terms, conditions, and exclusions.

FEATURES

APPLICATIONS

- 1.5 through 5 tons
- Sound levels as low as 71 dBA
- Single phase power supply
- Vertical air discharge
- Applicable to indoor air handlers or gas furnaces with indoor add-on coils
- Shipped completely factory assembled, piped and wired
- Factory test operated

NOTE - When heat pumps are used with gas furnaces, a dual-fuel compatible thermostat or a zone control system with dual-fuel capabilities must be used (order separately)

NOTE - Installer must set outdoor unit, connect refrigerant lines and make electrical connections to complete job

REFRIGERATION SYSTEM

R-454B Refrigerant

- Low GWP (Global Warming Potential)
- Zero ODP (Ozone Depletion Potential)
- Low Toxicity/Lower Flammability - A2L
- Unit is factory pre-charged

NOTE - Total system refrigerant charge is dependent on outdoor unit size, indoor unit size and refrigerant line length.

NOTE - Refer to the unit-mounted charging sticker to determine correct amount of charge required.

Outdoor Coil Fan

- Direct drive fan
- 042-048-060 models have a variable-speed outdoor fan motor for quiet operation
- Vertical air discharge
- Ball bearings
- Inherently protected
- Totally enclosed fan motor
- Fan guard constructed of corrosion-resistant PVC (polyvinyl chloride) coated steel

Omniguard® Coil

- Enhanced aluminum alloy tube/enhanced fin coil
- Superior corrosion resistance
- Ripple-edged aluminum fins
- Aluminum tube construction
- Lanced fins for maximum fin surface exposure
- Fin collars grip tubing for maximum contact area
- Flared shoulder tubing connections
- Factory tested under high pressure
- Entire coil is accessible for cleaning

High Pressure Switch

- Protects the system from high pressure conditions that can be a result of fan failure or a blocked/dirty coil
- Automatic reset

Low Pressure Switch

- Shuts off unit if suction pressure falls below setting
- Provides loss of charge and freeze-up protection
- Automatic reset

FEATURES

Expansion Valve - Outdoor Unit

- Designed and sized specifically for heat pump systems
- Sensing bulb is located on the line between reversing valve and the coil
- Sensing bulb senses suction temperature during heating cycle
- Factory installed and piped

Four-Way Reversing Valve

- Rapid changeover of refrigerant flow direction from cooling to heating and vice versa
- Operates on pressure differential between outdoor unit and indoor unit of the system

High-Capacity Liquid Line Drier

- Shipped loose for installation flexibility
- Drier traps moisture or dirt that could contaminate the system
- 100% molecular-sieve, bead type, bi-flow drier

Optional Accessories

Check/Expansion Valve Kits

- Field installed on indoor units (if required)
- See TXV Usage table
- Chatleff style fitting

Loss of Charge Switch Kit

- Protects compressor from damage from low refrigerant charge conditions
- SPST, normally-closed
- Automatic reset

Freezestat

- Installs on or near the vapor line of the indoor coil or on the suction line
- Senses suction line temperature
- Cycles compressor off when suction line temperature falls below its setpoint
- Opens at 29°F and closes at 58°F
- Installs on or near the discharge line of the evaporator or on the suction line

INDOOR REFRIGERANT DETECTION SYSTEM (RDS)

- Complies with UL 60335-2-40 approved standard
- Required for all systems using R-454B refrigerant
- Factory or field installed on all indoor units
- Consists of a RDS refrigerant detection sensor and a mitigation control in the indoor unit
- Ensures safe operation for systems equipped with R-454B refrigerant
- Indoor sensor will detect any R-454B refrigerant
- If R-454B refrigerant is detected, the refrigerant detection system will stop compressor operation and operate the blower to reduce concentrations in the conditioned space
- Once safe levels are reached the HVAC system will resume normal operation
- Refer to indoor unit Product Specifications documents for additional details

FEATURES

COMPRESSOR

Single-Stage Scroll Compressor

- High volumetric efficiency
- Uniform suction flow
- Constant discharge flow
- High efficiency
- Quiet operation
- Low gas pulses during compression reduces operational sound levels
- Compressor motor is internally protected from excessive current and temperature
- Muffler in discharge line reduces operating sound levels
- Compressor is installed in the unit on resilient rubber mounts for vibration free operation



Scroll Compressor Operation

- Two involute spiral scrolls matched together generate a series of crescent-shaped gas pockets between them
- During compression, one scroll remains stationary while the other scroll orbits around it
- Gas is drawn into the outer pocket, the pocket is sealed as the scroll rotates
- As the spiral movement continues, gas pockets are pushed to the center of the scrolls. Volume between the pockets is simultaneously reduced
- When the pocket reaches the center, gas is now at high pressure and is forced out of a port located in the center of the fixed scrolls
- During compression, several pockets are compressed simultaneously resulting in a smooth continuous compression cycle
- Continuous flank contact, maintained by centrifugal force, minimizes gas leakage and maximizes efficiency
- Compressor is tolerant to the effects of slugging and contaminants. If this occurs, scrolls separate, allowing liquid or contaminants to be worked toward the center and discharged

Compressor Crankcase Heater (Factory Installed on -036-042-048-060)

- Protects against refrigerant migration that can occur during low ambient operation

Compressor Sound Dampening System

- Polyethylene outer shell
- 1/2-inch thick Polyester fiber insulation
- All open edges sealed with one-inch wide hook and loop fastening tape

Optional Accessories

Compressor Crankcase Heater (Optional for -018-024-030 models)

- Protects against refrigerant migration that can occur during low ambient operation

CONTROLS

Defrost Control

- Control furnished as standard
- Enables a demand defrost cycle whenever system heating performance falls below optimum levels
- Sensing element on coil determines when defrost cycle is required and when to terminate cycle
- Anti-short cycle (5 minutes) incorporated into the board
- Diagnostic LEDs furnished as an aid in troubleshooting
- Conveniently located in control box

Optional Accessories

Compressor Low Ambient Cut-Off

- Non-adjustable switch (low ambient cut-out)
- Prevents compressor operation when outdoor temperature is below 35°F
- Compressor Hard Start Kit
- Single-phase units are equipped with a PSC compressor motor
- This type of motor normally does not need a potential relay and start capacitor
- In conditions such as low voltage, kit may be required to increase the compressor starting torque
- Indoor Blower Off Delay Relay
- Delays the indoor blower-off time during the cooling cycle. See AHRI System Matches for usage

Low Ambient Kit

- Heat pump in the cooling mode will operate satisfactorily down to 45°F outdoor air temperature without any additional controls
- Allows unit to operate properly down to 30°F in the cooling mode

NOTE - Crankcase heater (optional for -018-024-030 models) and Freezestat should be installed on compressors equipped with a low ambient kit.

NOTE - A compressor lock-out thermostat should be added to terminate compressor operation below recommended operating conditions.

Monitor Kit - Service Light

- Ambient compensating thermistor
- Service light thermostat
- For thermostats requiring indicator light inputs

FEATURES

CONTROLS (continued)

Optional Accessories (continued)

Remote Outdoor Temperature Sensor

- When installed outdoors, sensor allows thermostat to display outdoor temperature
- Sensor is auto-detected when connected to thermostat

NOTE - Sensor is required for high and low balance points option.

Mild Weather Kit

- Heat pump units operate satisfactorily in the heating mode at outdoor air temperatures up to 75°F
- Allows heating operation above 75°F

Outdoor Thermostat Kit

- Outdoor thermostat locks out some of the electric heating elements on indoor units where two-stage control is applicable
- Outdoor thermostat maintains the heating load on the low power input as long as possible before allowing the full power load to come on the line
- Thermostat kit and Mounting Box must be ordered separately

CABINET

- Heavy gauge steel construction
- Pre-painted cabinet finish
- Louvered heavy gauge steel panels surround unit on all four sides
- Control box is conveniently located with all controls factory wired
- Drainage holes are provided in base section for moisture removal

Zinc-Coated Steel Unit Base

- Durable zinc-coated base section resists rust and corrosion

Louvered Coil Protection

- Steel louvered panels provides complete coil protection
- Panels may be completely removed for ease of coil cleaning and service



Refrigerant Line Connections, Electrical Inlets and Service Valves

- Sweat connection vapor and liquid lines
- Vapor valve can be fully shut off, while liquid valve may be front seated to manage refrigerant charge while servicing system
- Refrigerant line connections and field wiring inlets are located in one central area of the cabinet
- See dimension drawing

Braze-Free/Press Fitting Flexibility

- Units can accommodate braze-free or press fittings for installation versatility

SPECIFICATIONS

Size		018	024	030	036
Nominal Tonnage		1.5	2	2.5	3
Sound Rating Number	dBA	72	71	76	75
Connections (Sweat)	Liquid line (OD) - in.	3/8	3/8	3/8	3/8
	Vapor line (OD) - in.	3/4	3/4	3/4	7/8
Refrigerant	¹ R-454B charge furnished @ 15 FT	4 lbs. 7 oz.	5 lbs. 3 oz.	6 lbs. 7 oz.	7 lbs. 2 oz.
	¹ R-454B charge furnished @ 30 FT	5 lbs. 0 oz.	5 lbs. 12 oz.	7 lbs. 0 oz.	7 lbs. 11 oz.
Indoor Unit Expansion Valve (TXV)		26Z70	26Z70	26Z70	26Z70
Outdoor Coil	Net face area - ft. ²	24.5	24.5	18.7	22.0
	Outer coil				
	Inner coil	- - -	- - -	18.0	21.5
	Tube diameter - in.	5/16	5/16	5/16	5/16
	Rows	1	1	2	2
Outdoor Fan	Fins - in.	22	22	22	22
	HP	1/8	1/8	1/6	1/5
	Diameter - in.	22	22	22	26
	Blades	2	2	2	3
	Cfm	2840	2840	2670	3590
	Rpm	825	825	825	825
	Watts	127	127	162	200
Shipping Data - lbs.		203	203	205	230

ELECTRICAL DATA

Line voltage data (Volts-Phase-Hz)		208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
² Maximum overcurrent protection (MOCP) amps		15	20	25	35
³ Minimum circuit ampacity (MCA)		9.7	13.6	16.6	22.2
Compressor	Rated load amps	7.2	10.3	12.5	16.7
	Locked rotor amps	47	60.2	67	93.5
Fan Motor	Full load amps	0.7	0.7	1.0	1.4

OPTIONAL ACCESSORIES - ORDER SEPARATELY

Compressor Crankcase Heater	27U17	•	•	•	Factory
Compressor	Copeland	10J42	•	•	•
Hard Start Kit	LG	88M91	•	•	•
Compressor Low Ambient Cut-Off	45F08	•	•	•	•
Freezestat	3/8 in.	93G35	•	•	•
Indoor Blower Off Delay Relay	58M81	•	•	•	•
Loss of Charge Switch Kit	84M23	•	•	•	•
⁴ Low Ambient Kit	54M89	•	•	•	•
Mild Weather Kit	11B97	•	•	•	•
Monitor Kit - Service Light	76F53	•	•	•	•
Outdoor Thermostat Kit	10Z23	•	•	•	•
Thermostat Mounting Box	31461	•	•	•	•

NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.

¹ Refrigerant charge sufficient for 15/30 ft. length of refrigerant lines. For longer line set requirements see the Installation Instructions for information about line set length and additional refrigerant charge required.

² HACR type breaker or fuse.

³ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

⁴ Crankcase Heater and Freezestat are recommended with Low Ambient Kit.

⁵ Adds 11-1/2 inches (292 mm) to unit height.

SPECIFICATIONS

Size		042	048	060
Nominal Tonnage		3.5	4	5
Sound Rating Number	dBA	73	73	73
Connections (Sweat)	Liquid line (OD) - in.	3/8	3/8	3/8
	Suction line (OD) - in.	7/8	7/8	1-1/8
Refrigerant	¹ R-454B charge furnished @ 15 FT	8 lbs. 5 oz.	8 lbs. 6 oz.	9 lbs. 6 oz.
	¹ R-454B charge furnished @ 30 FT	8 lbs. 14 oz.	8 lbs. 15 oz.	9 lbs. 15 oz.
Indoor Unit Expansion Valve (TXV)		26Z71	26Z71	26Z72
Outdoor Coil	Net face area - ft. ²	Outer coil	24.93	24.93
		Inner coil	24.13	24.13
	Tube diameter - in.		5/16	5/16
	Rows		2	2
	Fins - in.		22	22
Outdoor Fan	HP	1/3	1/3	1/3
		Diameter - in.	22	22
	Blades		4	4
	Cfm		4110	4110
	Rpm		825	825
	Watts		213	224
Shipping Data - lbs.		284	284	298

ELECTRICAL DATA

Line voltage data (Volts-Phase-Hz)		208/230-1-60	208/230-1-60	208/230-1-60
² Maximum overcurrent protection (MOCP) amps		35	50	50
³ Minimum circuit ampacity (MCA)		22.3	30.6	32.2
Compressor	Rated load amps	15.8	22.4	23.7
	Locked rotor amps	96	126	157
Fan Motor	Full load amps	2.6	2.6	2.6

OPTIONAL ACCESSORIES - ORDER SEPARATELY

Compressor Hard Start Kit	Copeland	10J42		•	•
	LG	88M91	•		
Compressor Low Ambient Cut-Off		45F08	•	•	•
Freezestat	3/8 in.	93G35	•	•	•
Indoor Blower Off Delay Relay		58M81	•	•	•
Loss of Charge Switch Kit		84M23	•	•	•
⁴ Low Ambient Kit		54M89	•	•	•
Mild Weather Kit		11B97	•	•	•
Monitor Kit - Service Light		76F53	•	•	•
Outdoor Thermostat Kit		10Z23	•	•	•
Thermostat Mounting Box		31461	•	•	•

NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.

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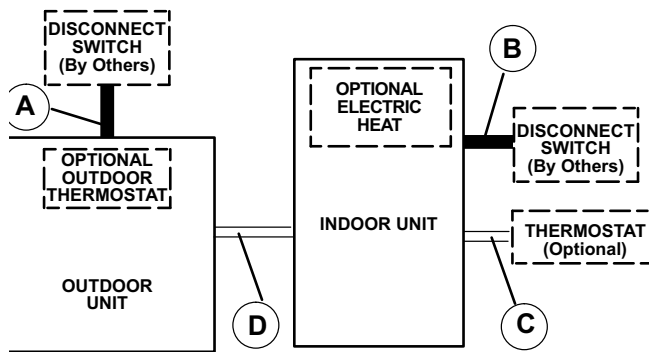
⁵ Adds 11-1/2 inches (292 mm) to unit height.

UNIT SOUND RATINGS

Model	Sound Power ¹	Estimated Sound Pressure (dBA) ²		
		3.3 Feet (1 Meter)	6.6 Feet (2 Meters)	9.8 Feet (3 Meters)
018	72	64	58	54
024	71	63	57	53
030	76	68	62	58
036	75	67	61	57
042	73	65	59	55
048	73	65	59	55
060	73	65	59	55

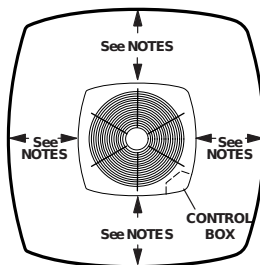
1. Rated in accordance with AHRI standard 270 (2015)
2. Rated in accordance with AHRI standard 275 (2010)
3. Based only on distance factor other factors may change this value such as:
 - Unit location (reflective surfaces adjacent to the unit)
 - Barrier shielding sources
 - Sound path/elevation
 - Outside noise sources

FIELD WIRING



- A - Two Wire Power (see Electrical Data)
 - B - Two or Three Wire Power (size to heater capacity)
 - C - Twelve Wire Low Voltage 18 ga. minimum
Fourteen Wire Low Voltage with Optional Outdoor Thermostat
 - D - Eight Wire Low Voltage 18 ga. minimum
Ten Wire Low Voltage with Optional Outdoor Thermostat
- NOTE** - Field Wiring Not Furnished
All wiring must conform to NEC or CEC and local electrical codes.

INSTALLATION CLEARANCES



Notes

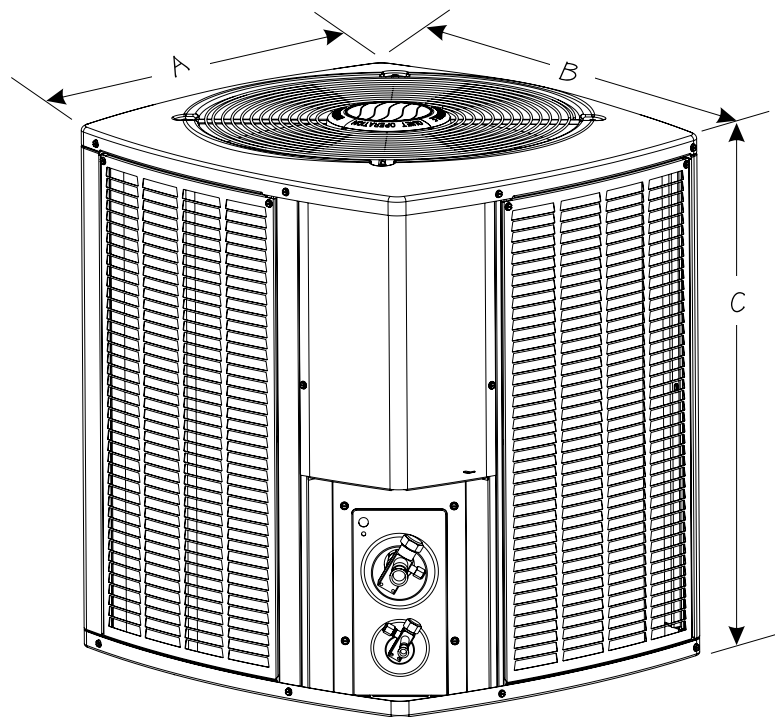
Service clearance of 30 in. (762 mm) must be maintained on one of the sides adjacent to the control box.

Clearance to one of the other three sides must be 36 in. (914 mm).

Clearance to one of the remaining two sides may be 12 in. (305 mm) and the final side may be 6 in. (152 mm).

A clearance of 24 in. must be maintained between two units .48 in. (1219 mm) clearance required on top of unit.

DIMENSIONS



Model	Dimensions (Inch)			Shipping Weight (lbs.)
	A - (Width)	B - (Depth)	C - (Height)	
018	29.38	31.25	43.75	203
024	29.38	31.25	43.75	203
030	29.38	31.25	33.25	205
036	35.75	37.75	33.25	230
042	35.75	37.75	37.75	284
048	35.75	37.75	37.75	284
060	35.75	37.75	43.75	298

NOTE:

Dimensions listed are unit sizes w/o packaging

Weights listed are unit weights with packaging

TXV USAGE

All Allied coils and air handlers are shipped with a factory installed TXV. In most cases, no substitution is needed.

If a different size TXV is required, it will be listed in the "TXV SUBSTITUTION" table by size. The correct TXV must be ordered separately and field installed.

Size	Order Number
018	26Z70
024	26Z70
030	26Z70
036	26Z70
042	26Z71
048	26Z71
060	26Z72

AHRI STANDARD 210-240-2023

Cooling or heating capacities are net values, including the effects of blower motor heat, and do not include supplementary heat. Power input is the total power input to the compressor(s) and fan(s), plus any controls and other items required as part of the system for normal operation.

Units which do not have an indoor air-circulating blower furnished as part of the model, i.e., split system with indoor coil only, is established by subtracting from the total cooling capacity 1250 Btu/h per 1,000 cfm, and by adding the same amount to the heating capacity.

Total power input for both heating and cooling is increased by 365 W per 1,000 cfm of indoor air circulated.

TXV SUBSTITUTION - R-454B

A general guide for replacing the factory installed R-454B TXV if the indoor unit (coil/air handler) is larger or smaller than the outdoor unit.

Outdoor Unit		Indoor Unit		Indoor TXV Furnished	Indoor TXV Replacement
Size	Tons	Size	Tons		
018	1.5	42	3.5	26Z71	26Z70
018	1.5	48	4	26Z71	26Z70
018	1.5	49	4	26Z71	26Z70
018	1.5	50/60	4/5	26Z71	26Z70
018	1.5	51/61	4/5	26Z71	26Z70
018	1.5	60	5	26Z72	26Z70
024	2	42	3.5	26Z71	26Z70
024	2	48	4	26Z71	26Z70
024	2	49	4	26Z71	26Z70
024	2	50/60	4/5	26Z71	26Z70
024	2	51/61	4/5	26Z71	26Z70
024	2	60	5	26Z72	26Z70
030	2.5	42	3.5	26Z71	26Z70
030	2.5	48	4	26Z71	26Z70
030	2.5	49	4	26Z71	26Z70
030	2.5	50/60	4/5	26Z71	26Z70
030	2.5	51/61	4/5	26Z71	26Z70
030	2.5	60	5	26Z72	26Z70
036	3	42	3.5	26Z71	26Z70
036	3	48	4	26Z71	26Z70
036	3	49	4	26Z71	26Z70
036	3	50/60	4/5	26Z71	26Z70
036	3	51/61	4/5	26Z71	26Z70
036	3	60	5	26Z72	26Z70
042	3.5	24	2	26Z70	26Z71
042	3.5	30	2.5	26Z70	26Z71
042	3.5	30/36	2.5/3	26Z70	26Z71
042	3.5	36	3	26Z70	26Z71
042	3.5	60	5	26Z72	26Z71
048	4	30/36	2.5/3	26Z70	26Z71
048	4	36	3	26Z70	26Z71
048	4	60	5	26Z72	26Z71
060	5	50/60	4/5	26Z71	26Z72
060	5	51/61	4/5	26Z71	26Z72

TXV Ranges:

26Z70 - 1.5 to 3 ton systems - Use on 3 ton (036) and lower systems.

26Z71 - 3.5-4 ton systems - Use on 4 ton (048) and down to 3.5 ton (042) systems.

26Z72 - 5 ton systems - Use on 5 ton (060) systems only.

A7HP14F18P - 7AH1AC18PX

[illegible]

A7HP14F24P - 7AH1AC24PX

[illegible]

COOLING PERFORMANCE EXTENDED RATINGS

A7HP14F30P - 7AH1AC30PX

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																													
				85° F (29.4° C)						95° F (35° C)						105° F (40.6° C)						115° F (46.1° C)						125° F (51.7° C)					
				Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)							
						Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb			Dry Bulb				
				kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	
A7HP14F30P	7AH1AC30PX	59°F (15°C)	cfm	28.6	1.61	0.94	1	1	27.6	1.84	0.96	1	1	26.2	2.08	0.99	1	1	25	2.35	1	1	1	23.6	2.66	1	1	1	1	1	1	1	1
				1000	30	1.62	0.98	1	1	28.8	1.85	1	1	1	27.2	2.1	1	1	1	26	2.37	1	1	1	24.6	2.67	1	1	1	1	1	1	1
				1125	31	1.63	1	1	1	29.8	1.86	1	1	1	1	28.2	2.11	1	1	1	26.8	2.38	1	1	1	25.4	2.69	1	1	1	1	1	1
		875	29.6	1.62	0.77	0.91	1	28.2	1.85	0.78	0.93	1	26.8	2.09	0.8	0.96	1	25	2.35	0.83	1	1	23.6	2.66	0.86	1	1	1	1	1	1	1	
		1000	30.4	1.63	0.8	0.95	1	29	1.85	0.82	0.98	1	27.4	2.1	0.85	1	1	26	2.37	0.87	1	1	24.6	2.67	0.91	1	1	1	1	1	1	1	
		1125	31.2	1.63	0.84	0.99	1	29.6	1.86	0.86	1	1	28.2	2.11	0.89	1	1	26.8	2.38	0.92	1	1	25.4	2.69	0.95	1	1	1	1	1	1	1	
		875	31.2	1.63	0.61	0.75	0.87	29.8	1.86	0.62	0.76	0.9	28.2	2.11	0.63	0.78	0.93	26.6	2.38	0.65	0.81	0.96	25	2.68	0.67	0.84	1	1	1	1	1	1	
		1000	32	1.64	0.63	0.78	0.92	30.6	1.87	0.65	0.8	0.95	29	2.12	0.66	0.82	0.98	27.4	2.39	0.67	0.85	1	25.6	2.69	0.7	0.88	1	1	1	1	1	1	
		1125	32.8	1.65	0.65	0.81	0.96	31	1.88	0.67	0.84	0.99	29.4	2.13	0.68	0.87	1	27.8	2.4	0.7	0.89	1	26	2.7	0.73	0.93	1	1	1	1	1	1	1
		875	33	1.65	0.47	0.6	0.72	31.4	1.88	0.48	0.61	0.74	29.8	2.13	0.48	0.62	0.76	28.2	2.41	0.49	0.64	0.79	26.4	2.71	0.5	0.66	0.81	1	1	1	1	1	1
1000	33.8	1.66	0.48	0.62	0.76	32.2	1.89	0.49	0.63	0.78	30.6	2.14	0.5	0.65	0.8	28.8	2.42	0.5	0.67	0.83	27.2	2.72	0.51	0.69	0.86	1	1	1	1	1	1		
1125	34.4	1.67	0.49	0.64	0.79	32.8	1.9	0.5	0.66	0.81	31.2	2.15	0.51	0.68	0.84	29.4	2.43	0.52	0.7	0.87	27.6	2.73	0.53	0.72	0.91	1	1	1	1	1	1		

A7HP14F36P - 7AH1AC36PX

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																													
				85° F (29.4° C)						95° F (35° C)						105° F (40.6° C)						115° F (46.1° C)						125° F (51.7° C)					
				Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)											
						Dry Bulb	85°F 29.4°C			Dry Bulb	85°F 29.4°C			Dry Bulb	85°F 29.4°C			Dry Bulb	85°F 29.4°C			Dry Bulb	85°F 29.4°C	Dry Bulb	85°F 29.4°C	Dry Bulb	85°F 29.4°C	Dry Bulb	85°F 29.4°C				
			cfm	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C										
A7HP14F36P	7AH1AC36PX	59°F (15°C)	1050	34.8	1.96	0.93	1	1	33.6	2.23	0.95	1	1	32	2.54	0.98	1	1	28.8	3.32	1	1	1	1									
			1200	36.4	1.97	0.97	1	34.8	2.24	1	1	33.4	2.55	1	1	31.6	2.91	1	1	29.8	3.32	1	1	1									
			1350	37.8	1.97	1	1	36	2.24	1	1	34.6	2.55	1	1	32.8	2.91	1	1	31	3.32	1	1	1									
		1050	36	1.96	0.76	0.89	1	34.6	2.24	0.77	0.91	1	32.6	2.55	0.79	0.94	1	30.6	2.91	0.81	0.97	1	28.6	3.32	0.84	1	1						
		1200	37	1.97	0.79	0.94	1	35.2	2.24	0.81	0.96	1	33.4	2.55	0.83	0.99	1	31.8	2.91	0.85	1	1	29.8	3.32	0.88	1	1						
		1350	38	1.97	0.82	0.98	1	36.2	2.24	0.84	1	34.6	2.55	0.86	1	32.8	2.91	0.89	1	1	31	3.32	0.93	1	1	1	1						
		1050	38	1.97	0.61	0.73	0.86	36.4	2.24	0.61	0.75	0.88	34.6	2.55	0.62	0.77	0.91	32.8	2.91	0.64	0.79	0.94	30.6	3.32	0.65	0.82	0.98						
		1200	39	1.98	0.63	0.77	0.9	37.4	2.25	0.63	0.78	0.93	35.6	2.56	0.64	0.8	0.96	33.6	2.91	0.66	0.83	0.99	31.4	3.32	0.68	0.86	1						
		1350	40	1.98	0.64	0.8	0.95	38.5	2.25	0.65	0.82	0.98	36.4	2.56	0.67	0.84	1	34.2	2.91	0.69	0.87	1	32	3.32	0.71	0.9	1						
		1050	40	1.98	0.47	0.59	0.71	38.5	2.25	0.47	0.6	0.73	36.8	2.56	0.47	0.61	0.74	34.8	2.92	0.48	0.62	0.77	32.4	3.32	0.49	0.64	0.79						
1200	41.5	1.98	0.48	0.61	0.74	39.5	2.25	0.48	0.63	0.77	37.8	2.56	0.49	0.63	0.78	35.6	2.92	0.49	0.65	0.81	33.2	3.32	0.51	0.67	0.84								
1350	42.5	1.99	0.48	0.63	0.78	40.5	2.26	0.49	0.64	0.8	38.5	2.57	0.5	0.66	0.82	36.2	2.92	0.51	0.68	0.85	33.8	3.32	0.52	0.7	0.88								

COOLING PERFORMANCE EXTENDED RATINGS

A7HP14F42P - 7AH1AC42PX

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																								
				85° F (29.4° C)					95° F (35° C)					105° F (40.6° C)					115° F (46.1° C)					125° F (51.7° C)				
				Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)							
						Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb			Dry Bulb				
			cfm	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C
A7HP14F42P	7AH1AC42PX	59°F (15°C)	1195	40	2.29	0.92	1	1	38.5	2.6	0.94	1	1	36.6	2.93	0.97	1	1	35	3.28	1	1	1	32.8	3.66	1	1	1
			1370	41.5	2.29	0.96	1	1	40	2.6	0.99	1	1	38	2.93	1	1	36.2	3.27	1	1	1	34	3.64	1	1	1	
			1545	43	2.29	1	1	1	41.5	2.6	1	1	39.5	2.92	1	1	37.6	3.26	1	1	1	35.4	3.63	1	1	1		
		1195	41.5	2.29	0.75	0.89	1	39.5	2.6	0.77	0.91	1	37.4	2.93	0.78	0.93	1	35.2	3.28	0.81	0.96	1	32.8	3.65	0.84	1	1	
		1370	42.5	2.29	0.78	0.93	1	40.5	2.6	0.8	0.95	1	38.5	2.93	0.82	0.98	1	36.2	3.27	0.85	1	1	34	3.64	0.88	1	1	
		1545	43.5	2.29	0.82	0.97	1	41.5	2.6	0.83	1	39.5	2.92	0.85	1	37.6	3.26	0.88	1	1	35.4	3.63	0.92	1	1			
		1195	43.5	2.29	0.6	0.73	0.85	42	2.6	0.61	0.74	0.87	39.5	2.92	0.62	0.76	0.9	37.6	3.27	0.63	0.78	0.93	35	3.64	0.65	0.81	0.97	
		1370	45	2.29	0.62	0.76	0.9	43	2.6	0.63	0.78	0.92	41	2.92	0.64	0.8	0.95	38.5	3.26	0.66	0.82	0.98	36	3.63	0.68	0.85	1	
		1545	46	2.29	0.64	0.8	0.94	44	2.6	0.65	0.81	0.97	42	2.91	0.66	0.83	0.99	39.5	3.25	0.68	0.86	1	36.4	3.62	0.7	0.9	1	
		1195	46	2.29	0.46	0.59	0.7	44	2.59	0.47	0.6	0.72	42	2.91	0.47	0.61	0.74	40	3.25	0.48	0.62	0.76	37	3.61	0.49	0.64	0.79	
1370	47.5	2.28	0.47	0.61	0.74	45.5	2.59	0.48	0.62	0.76	43.5	2.91	0.48	0.63	0.78	41	3.24	0.5	0.65	0.8	38	3.6	0.5	0.67	0.83			
1545	48.5	2.28	0.48	0.63	0.78	46.5	2.58	0.49	0.64	0.79	44	2.9	0.5	0.66	0.82	41.5	3.23	0.51	0.68	0.84	39	3.59	0.51	0.7	0.88			

A7HP14F48P - 7AH1AE48PX

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																								
				85° F (29.4° C)					95° F (35° C)					105° F (40.6° C)					115° F (46.1° C)					125° F (51.7° C)				
				Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)							
						Dry Bulb					Dry Bulb					Dry Bulb					Dry Bulb			Dry Bulb				
A7HP14F48P	7AH1AE48PX	59°F (15°C)	cfm	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C					
				45.5	2.68	0.91	1	1	44	3.06	0.94	1	1	42.5	3.51	0.96	1	1	40	4.02	0.99	1	1	38	4.6	1	1	1
				48	2.69	0.96	1	1	46	3.07	0.98	1	1	44	3.52	1	1	1	42	4.03	1	1	1	39	4.61	1	1	1
				49.5	2.69	0.99	1	1	48	3.08	1	1	1	45.5	3.53	1	1	1	43	4.03	1	1	1	40.5	4.61	1	1	1
				47.5	2.68	0.75	0.88	1	45.5	3.07	0.76	0.9	1	43.5	3.51	0.78	0.92	1	40.5	4.02	0.8	0.96	1	37.8	4.6	0.83	0.99	1
				49	2.69	0.78	0.92	1	46.5	3.08	0.8	0.95	1	44.5	3.52	0.82	0.97	1	42	4.03	0.84	1	1	39.5	4.61	0.87	1	1
				50.5	2.69	0.81	0.96	1	48	3.08	0.83	0.99	1	45.5	3.53	0.85	1	1	43	4.03	0.88	1	1	40.5	4.61	0.91	1	1
				50.5	2.69	0.6	0.72	0.85	48	3.08	0.61	0.74	0.87	46	3.53	0.62	0.76	0.89	43	4.03	0.63	0.78	0.92	40.5	4.6	0.65	0.81	0.96
				52	2.7	0.62	0.76	0.89	49.5	3.09	0.63	0.77	0.91	47	3.53	0.64	0.79	0.94	44	4.04	0.66	0.82	0.97	41	4.61	0.67	0.85	1
				1760	52.5	2.7	0.64	0.79	0.93	50.5	3.09	0.65	0.81	0.96	48	3.54	0.66	0.83	0.99	45	4.04	0.68	0.86	1	42	4.61	0.7	0.89
A7HP14F48P	7AH1AE48PX	63°F (17.2°C)	cfm	53	2.7	0.47	0.58	0.7	51	3.09	0.47	0.59	0.72	48.5	3.54	0.47	0.61	0.73	46	4.05	0.48	0.62	0.76	43	4.62	0.49	0.64	0.78
				54.5	2.71	0.48	0.61	0.73	52	3.1	0.48	0.61	0.75	50	3.55	0.49	0.63	0.77	47	4.06	0.49	0.65	0.8	44	4.62	0.5	0.67	0.83
				55.5	2.71	0.48	0.63	0.76	53.5	3.11	0.49	0.64	0.78	51	3.56	0.49	0.66	0.8	48	4.06	0.5	0.67	0.84	44.5	4.63	0.52	0.69	0.87

COOLING PERFORMANCE EXTENDED RATINGS

A7HP14F60P - 7AH1AE60PX

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																																																																																																																												
				85° F (29.4° C)				95° F (35° C)				105° F (40.6° C)				115° F (46.1° C)				125° F (51.7° C)																																																																																																												
				Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)		Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)																																																																																																														
						Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb																																																																																																													
A7HP14F60P	7AH1AE60PX	59°F (15°C)	cfm	kW	kBTuh	75°F	80°F	85°F	kBTuh	kW	75°F	80°F	85°F	kBTuh	kW	75°F	80°F	85°F																																																																																																														
						23.9°C	26.7°C	29.4°C			23.9°C	26.7°C	29.4°C			23.9°C	26.7°C	29.4°C																																																																																																														
						0.89	1	1			52	3.83	0.92			1	1	50	4.38	0.94	1	1	47.5	4.99	0.96	1	1																																																																																																					
						56.5	3.38	0.93			1	1	54.5			3.86	0.95	1	1	52	4.4	0.98	1	1	50	5.01	1	1																																																																																																				
						58.5	3.4	0.96			1	1	56			3.87	0.99	1	1	54	4.42	1	1	51.5	5.03	1	1	1																																																																																																				
						56.5	3.38	0.74			0.86	0.98	54			3.85	0.75	0.88	1	51.5	4.39	0.77	0.91	1	49	5	0.79	0.93	1																																																																																																			
		63°F (17.2°C)	1800	3.4	58	3.4	0.77	0.9	1	55.5	3.87	0.78	0.92	1	53	4.41	0.8	0.95 <th rowspan="6">1</th> <th rowspan="6">50.5</th> <th rowspan="6">5.01</th> <th rowspan="6">0.82</th> <th rowspan="6">0.98<th rowspan="6">1</th><th rowspan="6">47.5</th><th rowspan="6">5.7</th><th rowspan="6">0.85<th rowspan="6">1</th><th rowspan="6">1</th></th></th>	1	50.5	5.01	0.82	0.98 <th rowspan="6">1</th> <th rowspan="6">47.5</th> <th rowspan="6">5.7</th> <th rowspan="6">0.85<th rowspan="6">1</th><th rowspan="6">1</th></th>	1	47.5	5.7	0.85 <th rowspan="6">1</th> <th rowspan="6">1</th>	1	1																																																																																																			
																														2010	3.41	0.79	0.94	1	57	3.88	0.8	0.96	1	54.5	4.42	0.82	0.98 <th rowspan="6">1</th> <th rowspan="6">51.5</th> <th rowspan="6">5.03</th> <th rowspan="6">0.85<th rowspan="6">1</th><th rowspan="6">48.5</th><th rowspan="6">5.71</th><th rowspan="6">0.88<th rowspan="6">1</th><th rowspan="6">1</th></th></th>	1	51.5	5.03	0.85 <th rowspan="6">1</th> <th rowspan="6">48.5</th> <th rowspan="6">5.71</th> <th rowspan="6">0.88<th rowspan="6">1</th><th rowspan="6">1</th></th>	1	48.5	5.71	0.88 <th rowspan="6">1</th> <th rowspan="6">1</th>	1	1																																																																											
																																																						1575	3.41	0.6	0.72	0.83	56.5	3.88	0.61	0.73	0.85	54.5	4.42	0.62	0.74	0.87	51.5	5.03	0.63	0.76	0.9	48	5.71	0.64	0.79	0.93																																																		
																																																																															1800	3.42	0.62	0.74	0.87	58.5	3.9	0.62	0.76	0.89	55.5	4.44	0.63	0.78	0.92	52.5	5.05	0.65	0.8	0.95	49.5	5.72	0.66	0.83	0.98																									
																																																																																																								2010	3.43	0.63	0.77	0.9	59.5	3.91	0.64	0.78	0.93	57	4.45	0.65	0.81	0.95	54	5.06	0.67	0.83	0.98	50.5	5.74	0.68	0.86 <th rowspan="6">1</th>	1
1800	3.45	0.47	0.6	0.72	61	3.93	0.48	0.61	0.74	58.5	4.47	0.48	0.62	0.75	55.5	5.08	0.49	0.64	0.78	52	5.75	0.49	0.65	0.8																																																																																																								
																									2010	65.5	3.47	0.48	0.62	0.75	62.5	3.95	0.49	0.63	0.76	59.5	4.49	0.49	0.64	0.78	56	5.09	0.5	0.66	0.81	53	5.78	0.51	0.68	0.84																																																																														

HEATING PERFORMANCE EXTENDED RATINGS

A7HP14F18P - 7AH1AC18PX - HEATING PERFORMANCE

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil									
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-28°C)	
		Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	525	22.1	1.14	17.3	1.07	12.5	1	8.2	0.9	4.1	0.67
	600	22.5	1.09	17.7	1.02	12.8	0.95	8.6	0.85	4.4	0.62
	675	22.6	1.14	17.8	1.07	12.9	0.91	8.6	0.8	4.5	0.57
70° F	525	21.8	1.22	17.1	1.14	12.4	1.06	8.2	0.95	4	0.71
	600	22.2	1.17	17.5	1.09	12.7	1.01	8.6	0.9	4.4	0.66
	675	22.2	1.22	17.6	1.14	12.8	0.97	8.7	0.86	4.5	0.61
75° F	525	21.4	1.3	16.9	1.21	12.2	1.13	8.2	1.01	4	0.75
	600	21.9	1.25	17.3	1.16	12.6	1.08	8.6	0.96	4.4	0.7
	675	21.9	1.3	17.4	1.21	12.7	1.03	8.7	0.91	4.5	0.65

A7HP14F18P - 7AH1AC18PX - INDOOR COIL AIR VOLUME - 600CFM

Indoor Entering Dry Bulb Temperature 65° F Dry Bulb				Indoor Entering Dry Bulb Temperature 70° F Dry Bulb				Indoor Entering Dry Bulb Temperature 75° F Dry Bulb			
Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP
65	1.09	22.5	4.61	65	1.17	22.2	4.31	65	1.25	21.9	4.06
60	1.09	21.3	4.43	60	1.17	21	4.13	60	1.25	20.7	3.89
55	1.06	20.1	4.21	55	1.13	19.9	3.97	55	1.21	19.6	3.73
50	1.04	19	4.03	50	1.11	18.8	3.8	50	1.19	18.5	3.54
47	1.03	18.3	3.91	47	1.1	18.1	3.68	47	1.17	17.9	3.47
45	1.02	17.7	3.81	45	1.09	17.5	3.59	45	1.16	17.3	3.38
40	1	16.2	3.54	40	1.07	16.1	3.35	40	1.14	15.9	3.15
35	0.98	14.8	3.29	35	1.04	14.6	3.1	35	1.11	14.4	2.91
30	0.97	13.8	3.09	30	1.03	13.7	2.93	30	1.1	13.5	2.75
25	0.95	12.8	2.91	25	1.01	12.7	2.74	25	1.08	12.6	2.6
20	0.94	11.8	2.7	20	1	11.8	2.58	20	1.07	11.8	2.45
17	0.93	11.2	2.58	17	0.99	11.2	2.47	17	1.06	11.2	2.34
15	0.93	10.8	2.49	15	0.98	10.8	2.38	15	1.05	10.8	2.28
10	0.91	9.6	2.25	10	0.97	9.6	2.15	10	1.03	9.7	2.07
5	0.85	8.6	2.15	5	0.9	8.6	2.07	5	0.96	8.6	1.97
0	0.79	7.5	2.02	0	0.84	7.5	1.93	0	0.9	7.6	1.87
-5	0.95	6.5	1.89	-5	1.01	6.5	1.81	-5	1.08	6.5	1.72
-10	0.68	5.4	1.7	-10	0.72	5.5	1.66	-10	0.77	5.5	1.58
-15	0.62	4.4	1.52	-15	0.66	4.4	1.45	-15	0.7	4.4	1.39
-20	0.56	3.4	1.29	-20	0.6	3.4	1.25	-20	0.63	3.4	1.19

HEATING PERFORMANCE EXTENDED RATINGS

A7HP14F24P - 7AH1AC24PX - HEATING PERFORMANCE

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil									
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-28°C)	
		Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	650	26.8	1.47	21.3	1.38	15.7	1.31	10.6	1.16	5.1	0.86
	750	27.4	1.39	21.8	1.31	16.2	1.23	11.1	1.08	5.7	0.79
	850	28	1.47	22.4	1.38	16.8	1.18	11.7	1.03	6.3	0.73
70° F	650	26.5	1.57	21	1.48	15.4	1.39	10.4	1.23	5	0.92
	750	27	1.49	21.6	1.4	16	1.31	10.9	1.16	5.6	0.84
	850	27.6	1.57	22.2	1.48	16.6	1.26	11.5	1.1	6.2	0.78
75° F	650	26.1	1.68	20.7	1.58	15.2	1.48	10.3	1.31	5	0.98
	750	26.6	1.6	21.2	1.5	15.8	1.4	10.8	1.23	5.5	0.9
	850	27.2	1.68	21.8	1.58	16.4	1.34	11.4	1.17	6.1	0.84

A7HP14F24P - 7AH1AC24PX - INDOOR COIL AIR VOLUME - 750CFM

Indoor Entering Dry Bulb Temperature 65° F Dry Bulb				Indoor Entering Dry Bulb Temperature 70° F Dry Bulb				Indoor Entering Dry Bulb Temperature 75° F Dry Bulb			
Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP
65	1.39	27.4	4.48	65	1.49	27	4.19	65	1.6	26.6	3.9
60	1.39	26	4.3	60	1.49	25.7	4.03	60	1.6	25.3	3.76
55	1.35	24.7	4.14	55	1.45	24.4	3.86	55	1.55	24	3.61
50	1.33	23.3	3.95	50	1.42	23	3.68	50	1.52	22.7	3.46
47	1.32	22.5	3.83	47	1.41	22.2	3.59	47	1.51	21.9	3.36
45	1.31	21.8	3.74	45	1.4	21.6	3.5	45	1.5	21.2	3.27
40	1.3	20.2	3.48	40	1.39	19.9	3.26	40	1.48	19.6	3.04
35	1.28	18.6	3.22	35	1.37	18.3	3.01	35	1.47	18	2.82
30	1.26	17.4	3.05	30	1.34	17.1	2.86	30	1.44	16.9	2.69
25	1.23	16.2	2.89	25	1.31	16	2.73	25	1.4	15.8	2.56
20	1.2	15.1	2.75	20	1.29	14.8	2.57	20	1.37	14.7	2.42
17	1.19	14.4	2.64	17	1.27	14.1	2.47	17	1.35	14	2.33
15	1.18	13.8	2.54	15	1.26	13.6	2.39	15	1.34	13.5	2.26
10	1.16	12.5	2.33	10	1.24	12.3	2.2	10	1.32	12.2	2.07
5	1.08	11.1	2.21	5	1.16	10.9	2.07	5	1.23	10.8	1.97
0	1.01	9.8	2.11	0	1.08	9.6	1.97	0	1.15	9.5	1.86
-5	1.23	8.4	1.95	-5	1.31	8.3	1.84	-5	1.4	8.2	1.73
-10	0.86	7	1.77	-10	0.92	6.9	1.66	-10	0.98	6.8	1.56
-15	0.79	5.7	1.58	-15	0.84	5.6	1.48	-15	0.9	5.5	1.38
-20	0.71	4.3	1.31	-20	0.76	4.2	1.22	-20	0.81	4.2	1.16

HEATING PERFORMANCE EXTENDED RATINGS

A7HP14F30P - 7AH1AC30PX - HEATING PERFORMANCE

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil									
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-28°C)	
		Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	875	34.6	1.89	27.4	1.75	20	1.61	13.4	1.43	6.5	1.06
	1000	35.3	1.82	28.1	1.67	20.7	1.53	14.1	1.35	7.2	0.99
	1125	36.1	1.89	28.9	1.75	21.5	1.47	14.9	1.29	8	0.93
70° F	875	34.2	2.01	27	1.86	19.7	1.7	13.2	1.51	6.4	1.12
	1000	34.9	1.93	27.7	1.78	20.4	1.62	13.9	1.43	7.1	1.04
	1125	35.7	2.01	28.5	1.86	21.3	1.56	14.7	1.37	7.9	0.99
75° F	875	33.6	2.13	26.6	1.97	19.4	1.8	13	1.59	6.3	1.18
	1000	34.4	2.05	27.3	1.89	20.2	1.72	13.7	1.51	7	1.11
	1125	35.1	2.13	28.1	1.97	20.9	1.66	14.5	1.45	7.8	1.04

A7HP14F30P - 7AH1AC30PX - INDOOR COIL AIR VOLUME - 1000CFM

Indoor Entering Dry Bulb Temperature 65° F Dry Bulb				Indoor Entering Dry Bulb Temperature 70° F Dry Bulb				Indoor Entering Dry Bulb Temperature 75° F Dry Bulb			
Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP
65	1.82	35.3	4.35	65	1.93	34.9	4.09	65	2.05	34.4	3.85
60	1.82	33.5	4.18	60	1.93	33.1	3.94	60	2.05	32.7	3.71
55	1.75	31.8	4.02	55	1.86	31.4	3.79	55	1.97	30.9	3.56
50	1.71	30	3.86	50	1.82	29.6	3.63	50	1.93	29.2	3.42
47	1.69	28.9	3.75	47	1.8	28.6	3.54	47	1.91	28.2	3.33
45	1.67	28.1	3.68	45	1.78	27.7	3.45	45	1.89	27.3	3.25
40	1.63	25.9	3.47	40	1.73	25.5	3.25	40	1.83	25.2	3.08
35	1.58	23.7	3.23	35	1.68	23.4	3.06	35	1.78	23.1	2.88
30	1.55	22.2	3.07	30	1.65	21.9	2.89	30	1.75	21.6	2.73
25	1.53	20.7	2.89	25	1.62	20.4	2.73	25	1.72	20.2	2.58
20	1.5	19.2	2.72	20	1.6	19	2.58	20	1.69	18.7	2.42
17	1.49	18.3	2.6	17	1.58	18.1	2.47	17	1.67	17.8	2.33
15	1.47	17.6	2.53	15	1.56	17.4	2.39	15	1.66	17.2	2.26
10	1.44	15.9	2.32	10	1.53	15.6	2.18	10	1.62	15.4	2.06
5	1.35	14.1	2.2	5	1.43	13.9	2.08	5	1.51	13.7	1.96
0	1.26	12.4	2.08	0	1.33	12.2	1.95	0	1.41	12.1	1.86
-5	1.53	10.7	1.94	-5	1.62	10.5	1.82	-5	1.72	10.4	1.72
-10	1.08	9	1.77	-10	1.14	8.8	1.65	-10	1.21	8.7	1.56
-15	0.99	7.2	1.55	-15	1.04	7.1	1.46	-15	1.11	7	1.38
-20	0.89	5.5	1.3	-20	0.95	5.4	1.23	-20	1	5.4	1.17

HEATING PERFORMANCE EXTENDED RATINGS

A7HP14F36P - 7AH1AC36PX - HEATING PERFORMANCE

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil									
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-28°C)	
		Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	1050	42.6	2.26	33.3	2.11	23.8	1.95	15.6	1.76	7.7	1.31
	1200	43.3	2.16	34	2.01	24.5	1.85	16.3	1.66	8.4	1.21
	1350	44.3	2.26	35	2.11	25.5	1.77	17.3	1.58	9.4	1.13
70° F	1050	42.3	2.41	32.9	2.25	23.5	2.08	15.2	1.88	7.5	1.4
	1200	43	2.31	33.7	2.15	24.2	1.98	16	1.78	8.3	1.29
	1350	43.8	2.41	34.5	2.25	25	1.89	16.8	1.69	9	1.21
75° F	1050	41.7	2.57	32.3	2.4	22.8	2.22	14.6	2.01	7.1	1.49
	1200	42.7	2.46	33.3	2.29	23.8	2.11	15.6	1.9	8.1	1.38
	1350	43.6	2.57	34.2	2.4	24.7	2.02	16.4	1.8	8.9	1.28

A7HP14F36P - 7AH1AC36PX - INDOOR COIL AIR VOLUME - 1200CFM

Indoor Entering Dry Bulb Temperature 65° F Dry Bulb				Indoor Entering Dry Bulb Temperature 70° F Dry Bulb				Indoor Entering Dry Bulb Temperature 75° F Dry Bulb			
Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP
65	2.16	43.3	4.51	65	2.31	43	4.26	65	2.46	42.7	4.01
60	2.16	41	4.32	60	2.31	40.8	4.09	60	2.46	40.4	3.84
55	2.09	38.7	4.14	55	2.23	38.5	3.9	55	2.39	38.1	3.67
50	2.05	36.4	3.94	50	2.2	36.2	3.72	50	2.35	35.8	3.5
47	2.03	35.1	3.82	47	2.17	34.8	3.6	47	2.32	34.4	3.38
45	2.01	34	3.75	45	2.15	33.7	3.53	45	2.29	33.3	3.31
40	1.94	31.2	3.52	40	2.08	30.9	3.3	40	2.22	30.5	3.1
35	1.88	28.4	3.28	35	2.01	28.1	3.08	35	2.15	27.8	2.9
30	1.86	26.4	3.06	30	1.99	26.1	2.89	30	2.13	25.8	2.71
25	1.85	24.5	2.86	25	1.98	24.2	2.69	25	2.11	23.8	2.51
20	1.83	22.6	2.66	20	1.96	22.3	2.49	20	2.1	21.9	2.32
17	1.82	21.4	2.53	17	1.95	21.1	2.37	17	2.09	20.7	2.21
15	1.81	20.5	2.43	15	1.93	20.2	2.28	15	2.07	19.8	2.13
10	1.77	18.2	2.19	10	1.9	17.9	2.05	10	2.03	17.5	1.91
5	1.66	16.3	2.09	5	1.78	16	1.96	5	1.9	15.6	1.81
0	1.55	14.3	1.98	0	1.65	14	1.84	0	1.77	13.7	1.71
-5	1.85	12.3	1.84	-5	1.98	12.1	1.72	-5	2.11	11.8	1.59
-10	1.32	10.4	1.68	-10	1.41	10.2	1.57	-10	1.51	10	1.46
-15	1.21	8.4	1.49	-15	1.29	8.3	1.41	-15	1.38	8.1	1.3
-20	1.09	6.4	1.26	-20	1.17	6.3	1.18	-20	1.25	6.2	1.1

HEATING PERFORMANCE EXTENDED RATINGS

A7HP14F42P - 7AH1AC42PX - HEATING PERFORMANCE

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil									
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-28°C)	
		Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	1195	48.8	2.7	38.5	2.53	27.8	2.35	19.3	2.12	9.4	1.57
	1370	49.8	2.59	39.4	2.42	28.7	2.24	20.3	2.01	10.3	1.46
	1545	50.8	2.7	40.5	2.53	29.8	2.15	21.3	1.93	11.4	1.38
70° F	1195	48.3	2.88	38	2.68	27.4	2.47	18.9	2.21	9.2	1.64
	1370	49.2	2.76	39	2.56	28.4	2.35	19.9	2.1	10.2	1.53
	1545	50.3	2.88	40.1	2.68	29.5	2.26	21	2.01	11.3	1.44
75° F	1195	47.7	3.06	37.5	2.83	27	2.59	18.6	2.31	9	1.72
	1370	48.7	2.94	38.5	2.71	28	2.47	19.6	2.19	10	1.6
	1545	49.8	3.06	39.6	2.83	29.1	2.38	20.7	2.1	11.2	1.51

A7HP14F42P - 7AH1AC42PX - INDOOR COIL AIR VOLUME - 1370CFM

Indoor Entering Dry Bulb Temperature 65° F Dry Bulb				Indoor Entering Dry Bulb Temperature 70° F Dry Bulb				Indoor Entering Dry Bulb Temperature 75° F Dry Bulb			
Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP
65	2.59	49.8	4.29	65	2.76	49.2	4.04	65	2.94	48.7	3.81
60	2.59	47.3	4.12	60	2.76	46.8	3.9	60	2.94	46.3	3.68
55	2.51	44.8	3.95	55	2.67	44.4	3.74	55	2.83	43.8	3.53
50	2.47	42.4	3.79	50	2.62	41.9	3.58	50	2.78	41.4	3.38
47	2.44	40.9	3.68	47	2.59	40.4	3.47	47	2.74	39.9	3.28
45	2.42	39.4	3.57	45	2.56	39	3.38	45	2.71	38.5	3.2
40	2.35	35.7	3.3	40	2.49	35.3	3.12	40	2.63	34.9	2.96
35	2.28	32	3.01	35	2.41	31.7	2.87	35	2.55	31.2	2.71
30	2.26	30.3	2.87	30	2.38	30.1	2.75	30	2.51	29.6	2.6
25	2.24	28.7	2.74	25	2.35	28.4	2.62	25	2.47	28	2.49
20	2.22	27.1	2.6	20	2.32	26.8	2.49	20	2.44	26.4	2.37
17	2.21	26.2	2.53	17	2.3	25.8	2.42	17	2.41	25.4	2.3
15	2.19	25.2	2.44	15	2.29	24.8	2.34	15	2.39	24.4	2.22
10	2.15	22.7	2.23	10	2.24	22.4	2.14	10	2.34	22	2.03
5	2.01	20.3	2.13	5	2.1	19.9	2.03	5	2.19	19.6	1.94
0	1.87	17.8	2.01	0	1.95	17.5	1.92	0	2.04	17.2	1.83
-5	2.24	15.3	1.87	-5	2.35	15.1	1.78	-5	2.47	14.8	1.69
-10	1.6	12.8	1.7	-10	1.67	12.6	1.62	-10	1.75	12.4	1.55
-15	1.46	10.3	1.5	-15	1.53	10.2	1.44	-15	1.6	10	1.36
-20	1.32	7.9	1.27	-20	1.38	7.7	1.2	-20	1.45	7.6	1.14

HEATING PERFORMANCE EXTENDED RATINGS

A7HP14F48P - 7AH1AE48PX - HEATING PERFORMANCE

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil									
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-28°C)	
		Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	1360	57.6	3.25	45.3	3.01	32.8	2.77	21.7	2.44	10.6	1.82
	1560	58.6	3.1	46.3	2.86	33.9	2.62	22.8	2.29	11.7	1.67
	1760	59.7	3.25	47.4	3.01	34.9	2.51	23.8	2.18	12.7	1.56
70° F	1360	56.9	3.47	44.8	3.21	32.5	2.95	21.5	2.61	10.6	1.95
	1560	57.9	3.31	45.8	3.05	33.5	2.8	22.5	2.45	11.6	1.79
	1760	59.1	3.47	47	3.21	34.7	2.68	23.7	2.33	12.8	1.67
75° F	1360	56.2	3.7	44.2	3.43	32	3.16	21.2	2.79	10.4	2.08
	1560	57.3	3.53	45.3	3.26	33.1	2.99	22.2	2.62	11.4	1.91
	1760	58.4	3.7	46.3	3.43	34.1	2.86	23.3	2.5	12.5	1.79

A7HP14F48P - 7AH1AE48PX - INDOOR COIL AIR VOLUME - 1560CFM

Indoor Entering Dry Bulb Temperature 65° F Dry Bulb				Indoor Entering Dry Bulb Temperature 70° F Dry Bulb				Indoor Entering Dry Bulb Temperature 75° F Dry Bulb			
Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP
65	3.1	58.6	4.41	65	3.31	57.9	4.14	65	3.53	57.3	3.89
60	3.1	55.6	4.25	60	3.31	54.9	3.99	60	3.53	54.4	3.75
55	2.98	52.6	4.09	55	3.18	52	3.84	55	3.4	51.4	3.59
50	2.93	49.6	3.91	50	3.12	49	3.67	50	3.33	48.5	3.44
47	2.89	47.8	3.81	47	3.08	47.2	3.56	47	3.29	46.7	3.35
45	2.86	46.3	3.71	45	3.05	45.8	3.49	45	3.26	45.3	3.27
40	2.8	42.7	3.48	40	2.98	42.2	3.26	40	3.19	41.7	3.06
35	2.73	39	3.23	35	2.91	38.6	3.04	35	3.11	38	2.84
30	2.67	36.4	3.06	30	2.85	36	2.88	30	3.05	35.6	2.7
25	2.62	33.9	2.9	25	2.8	33.5	2.72	25	2.99	33.1	2.55
20	2.56	31.3	2.72	20	2.74	30.9	2.55	20	2.93	30.6	2.4
17	2.53	29.8	2.61	17	2.7	29.4	2.45	17	2.89	29.1	2.3
15	2.51	28.6	2.52	15	2.68	28.2	2.37	15	2.87	27.9	2.22
10	2.45	25.6	2.3	10	2.62	25.3	2.16	10	2.8	25	2.03
5	2.29	22.8	2.19	5	2.45	22.5	2.05	5	2.62	22.2	1.92
0	2.14	20	2.06	0	2.28	19.8	1.94	0	2.45	19.5	1.81
-5	2.62	17.2	1.92	-5	2.8	17	1.8	-5	2.99	16.8	1.69
-10	1.83	14.5	1.76	-10	1.95	14.3	1.64	-10	2.09	14.1	1.54
-15	1.67	11.7	1.55	-15	1.79	11.6	1.46	-15	1.91	11.4	1.36
-20	1.52	8.9	1.3	-20	1.62	8.8	1.22	-20	1.74	8.7	1.15

HEATING PERFORMANCE EXTENDED RATINGS

A7HP14F60P - 7AH1AE60PX - HEATING PERFORMANCE

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil									
		65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-28°C)	
		Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input	Total Heating Capacity	Comp. Motor Input
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	1575	68	3.95	53.7	3.63	38.9	3.3	27.4	2.92	13.4	2.18
	1800	69.1	3.78	54.8	3.46	40	3.13	28.5	2.75	14.5	2.01
	2010	70.3	3.95	56	3.63	41.2	3.01	29.6	2.63	15.6	1.89
70° F	1575	67.1	4.2	53.1	3.86	38.6	3.52	27.1	3.12	13.2	2.33
	1800	68.4	4.02	54.3	3.69	39.8	3.34	28.3	2.94	14.4	2.15
	2010	69.5	4.2	55.5	3.86	41	3.22	29.5	2.82	15.6	2.02
75° F	1575	66.1	4.47	52.4	4.12	38.2	3.76	27	3.34	13.1	2.49
	1800	67.2	4.28	53.5	3.93	39.4	3.57	28.1	3.15	14.3	2.3
	2010	68.5	4.47	54.9	4.12	40.7	3.44	29.5	3.02	15.6	2.17

A7HP14F60P - 7AH1AE60PX - INDOOR COIL AIR VOLUME - 1800CFM

Indoor Entering Dry Bulb Temperature 65° F Dry Bulb				Indoor Entering Dry Bulb Temperature 70° F Dry Bulb				Indoor Entering Dry Bulb Temperature 75° F Dry Bulb			
Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP	Outdoor Temperature	Compressor Motor Input	Total Output	COP
65	3.78	69.1	4.36	65	4.02	68.4	4.1	65	4.28	67.2	3.83
60	3.78	65.8	4.22	60	4.02	65	3.96	60	4.28	64	3.71
55	3.62	62.4	4.07	55	3.86	61.7	3.82	55	4.11	60.7	3.57
50	3.55	59	3.91	50	3.78	58.4	3.68	50	4.03	57.5	3.44
47	3.5	57	3.82	47	3.73	56.4	3.58	47	3.98	55.6	3.36
45	3.46	54.8	3.71	45	3.69	54.3	3.49	45	3.93	53.5	3.27
40	3.35	49.5	3.43	40	3.57	49.1	3.23	40	3.81	48.5	3.03
35	3.24	44.2	3.14	35	3.45	44	2.97	35	3.68	43.4	2.78
30	3.19	42.1	3.03	30	3.4	41.9	2.87	30	3.63	41.4	2.69
25	3.13	40	2.92	25	3.34	39.8	2.76	25	3.57	39.4	2.59
20	3.08	38	2.81	20	3.29	37.7	2.65	20	3.51	37.3	2.48
17	3.04	36.7	2.74	17	3.25	36.4	2.58	17	3.48	36.1	2.43
15	3.01	35.4	2.66	15	3.22	35.1	2.51	15	3.45	34.8	2.35
10	2.94	32	2.45	10	3.14	31.8	2.32	10	3.36	31.6	2.18
5	2.75	28.5	2.33	5	2.94	28.3	2.2	5	3.15	28.1	2.07
0	2.57	25	2.2	0	2.74	24.8	2.07	0	2.94	24.7	1.96
-5	3.13	21.5	2.04	-5	3.34	21.4	1.93	-5	3.57	21.2	1.81
-10	2.2	18	1.86	-10	2.35	17.9	1.75	-10	2.51	17.8	1.65
-15	2.01	14.5	1.63	-15	2.15	14.4	1.54	-15	2.3	14.3	1.45
-20	1.83	11	1.37	-20	1.95	10.9	1.29	-20	2.09	10.8	1.21

REVISIONS

Sections	Description of Change
Specifications	Added Refrigerant Line Set for 30 FT
Cooling & Heating Performance Extended Ratings	Added Extended Ratings data for the Cooling & Heating Performance



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Installation and service must be performed by a qualified installer and servicing agency.

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