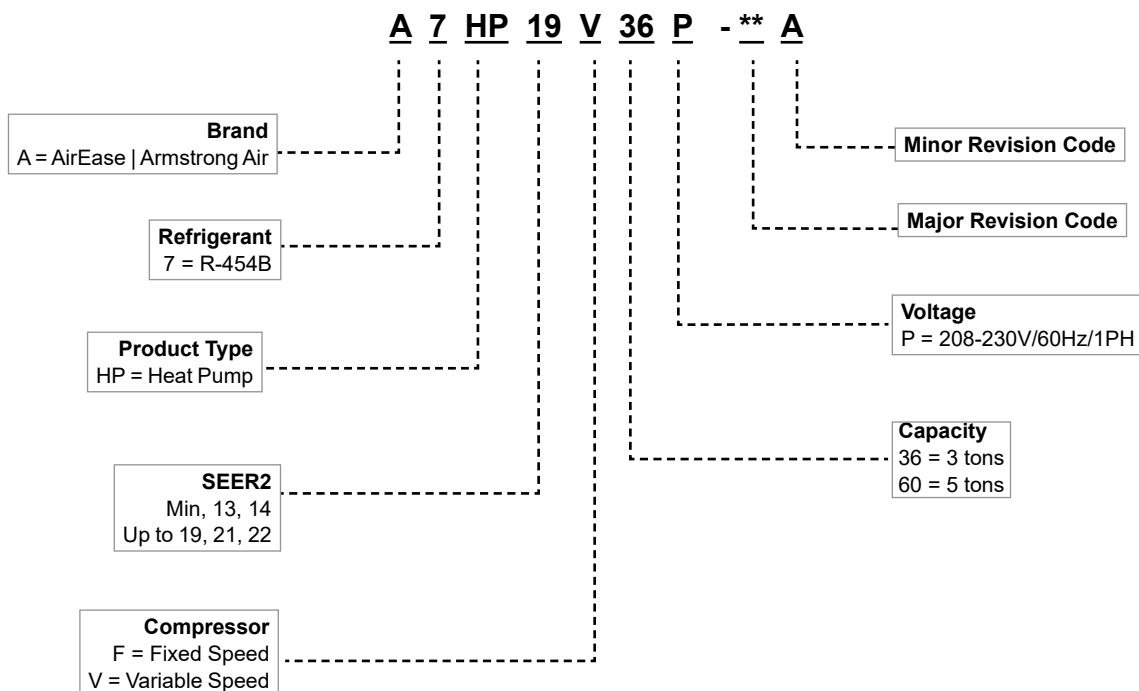


A7HP19V

Variable Capacity | Omniguard® Coil | R-454B | 60HZ

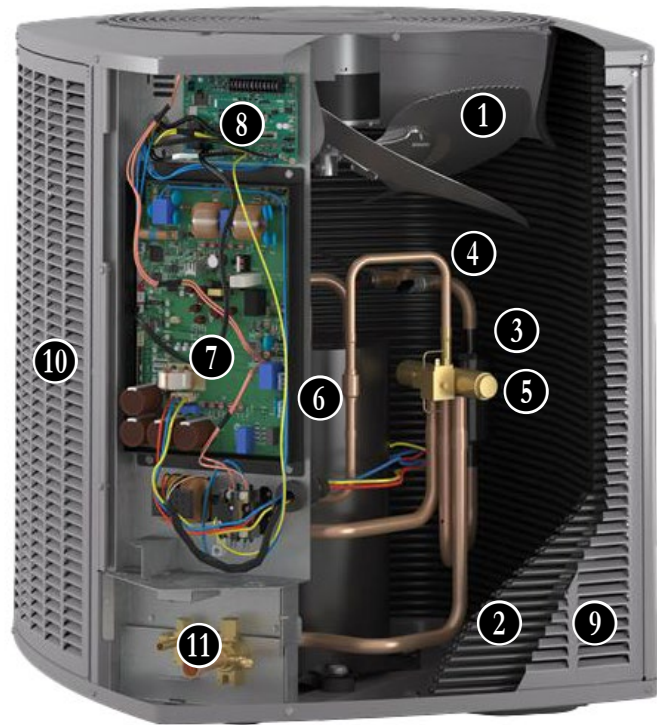
**RESIDENTIAL
PRODUCT SPECIFICATIONS****2 to 5 Tons**

Comfort Sync® A3 Smart Wi-Fi
Communicating Thermostat
(Not Furnished)

**MODEL NUMBER IDENTIFICATION**

FEATURE HIGHLIGHTS

1. Outdoor Coil Fan
2. Omniguard® Coil
3. High Capacity Suction Line Drier
4. Pressure Transducer
5. Four-Way Reversing Valve
6. Variable Capacity Rotary Compressor
7. DC Inverter Control
8. Communicating Control
9. Heavy Gauge Steel Cabinet
10. Louvered Coil Protection
11. Refrigerant Line Connections and Access



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APPROVALS AND WARRANTY

APPROVALS

- AHRI Standard 210-240-2023 certified
- AHRI Certified system match-ups and expanded ratings, visit www.alliedratings.com
- NOTE - AHRI certified ratings are based on the following control conditions:
- A Comfort Sync® A3 Communicating thermostat matched with a “communicating” indoor unit.
- Any conventional non-communicating thermostat matched with a conventional “non-communicating” indoor unit.
- ENERGY STAR® Certified
- Sound rated to AHRI Standard 270-2008 test conditions
- Rated According to U.S. Department of Energy (DOE) test procedures
- Unit and components ETL, 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-year limited warranty on all parts, extended warranty available.
- Warranty provides for a total of 10-years of limited warranty.
- 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

- 2 through 5 tons
- Sound levels as low as 61 dBA
- Heating operation down to -15°F
- Single-phase power supply
- Applicable to indoor air handlers or gas furnaces with indoor add-on coils
- Shipped completely factory assembled, piped and wired

NOTE - When heat pumps are used with gas furnaces, a dual-fuel compatible thermostat or 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.

1 Outdoor Coil Fan

- Direct drive fan
- ECM motor
- Vertical air discharge
- Totally enclosed fan motor
- Ball bearings
- Inherently protected
- PVC (polyvinyl chloride) coated steel fan guard

2 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

Expansion Valve - Outdoor Unit

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

FEATURES

REFRIGERATION SYSTEM (continued)

Discharge Temperature Switch

- Shuts off unit if operating conditions cause the compressor discharge line temperature to rise above setpoint
- Protects compressor from excessive pressure / temperature
- Automatic reset when temperature drops below setpoint

3 High Capacity Suction Line Drier

- Factory installed in the suction line
- Drier traps moisture or dirt that could contaminate the system
- 100% molecular-sieve, bead type drier

4 High Pressure Transducer

- Protects the system from high pressure conditions
- Automatic reset

Low Pressure Transducer

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

5 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 coil
- Factory installed

Optional Accessories

Check/Expansion Valve Kits

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

Freezestat

- Senses suction line temperature
- Cycles compressor off when suction line temperature falls below freezestat 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

NOTE - The A7HP19V is a variable capacity heat pump utilizing variable speed compressor technology. With the variable speed compressor and variable pumping capacity, additional consideration must be given to refrigerant piping sizing and application. Please refer to the Installation Instructions or Service Literature for Line Set Requirements and Refrigerant Piping Guidelines.

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

6 Variable Capacity Rotary Compressor

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

Rotary Compressor Operation

- Rotary compressor has a cylindrical chamber
- A roller is mounted to the motor shaft and is offset to rotate in the center of the chamber
- Two spring-loaded vanes sweep the sides of the chamber as the roller rotates
- Roller touches the chamber at a point between the intake and the discharge ports as the roller rotates
- While rotating, the roller draws vapor into the chamber through the intake port
- Vapor is trapped in the space between the chamber wall, the vane, and the point of contact between the roller and the chamber
- As the next vane passes the contact point vapor is compressed
- The space becomes smaller compressing the vapor as the roller rotates
- Vapor is discharged through the discharge port

Compressor Crankcase Heater

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

Compressor Sound Dampening System

- Polyethylene compressor
- 2 inch thick batt fiberglass insulation
- All open edges sealed with one-inch wide hook and loop fastening tape

Optional Accessories

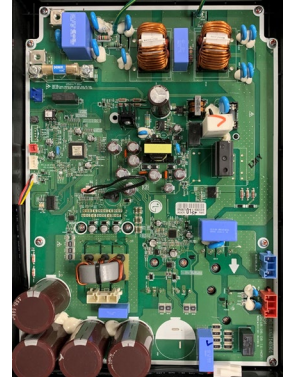
Compressor Low Ambient Cut-Off Switch

- Non-adjustable switch (low ambient cut-out) prevents compressor operation when outdoor temperature is below 35°F

CONTROLS

7 DC Inverter Control

- Converts AC line voltage into filtered variable DC voltage
- Provides continuous compressor operation, while adjusting the capacity according to indoor temperature
- Adjusts compressor output in increments as small as 1%
- The accurate sensing of the cooling or heating load prevents frequent changes in capacity and ensures efficient, economical operation
- Power Factor Correction (PFC) circuit monitors the DC bus for high, low and abnormal voltage conditions to protect the compressor
- Two LEDs (red and green) indicate inverter operating status and aid in troubleshooting
- Noise filter reduces unwanted electromagnetic interference (EMI)
- The inverter reactor (mounted separately) adds inductance to the line between the inverter and the compressor to limit current rise and protect the compressor

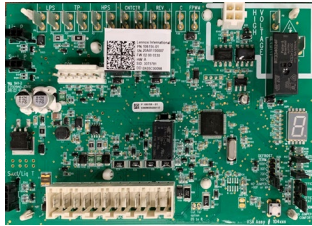


FEATURES

CONTROLS (continued)

8 Communicating Control

- Advanced control communicates information about various operating parameters in the heat pump to the Communicating Thermostats to constantly maintain the highest level of comfort, performance and efficiency available
- Connections for connecting a conventional heating/cooling thermostat are also provided on the control
- **Auto Configuration** - On start-up the control automatically sends a description of the unit to the Communicating Thermostat to automatically configure the features available
- Control also features:
 - **Seven-Segment Display** - Shows information about outdoor unit type and capacity and also displays alerts for common fault conditions (electrical and mechanical)
 - **Low Voltage Protection** - Prevents compressor operation when voltage is not within the specified range
 - High and low pressure switch monitoring with provisions for lockout
 - Five-Strike lockout protection protects compressor
 - Liquid line temperature and sensor monitoring
 - EEPROM storage of all local configurations
 - Non-volatile memory storage of 100 alarm codes with display of last 10 codes for troubleshooting
 - Built-in low-ambient control



NOTE - Two RAST connectors for a conventional heating/cooling thermostat are also provided for connecting to the control. A two-stage or single-stage thermostat can be used.

Low Ambient Operation

- Cooling Mode - The heat pump can operate down to 0°F outdoor air temperature in the cooling mode

NOTE - A freeze-stat is recommended for extra protection during low ambient cooling operation.

Heating Mode (Low Temperature Protection)

- Outdoor unit will not operate in the heating mode when the outdoor temperature is at or below -4°F
- If the unit is operating and the outdoor temperature drops below -4°F, the unit will continue to operate until the room thermostat is satisfied or the outdoor temperature drops to -15°F

Climate IQ™ Technology

- Optimizes dehumidification settings for specific climates to improve home comfort during cooling or heating operation
- Monitors regional weather conditions and automatically removes excess humidity when necessary

Communicating Thermostat Settings:

Cooling Mode

- Three climate settings are available:
 - **Dry** - The system supplies higher indoor airflow at all compressor capacities, increasing efficiency by operating at a higher sensible to total ratio
 - **Moderate** - The system supplies indoor airflow that balances efficiency and comfort
 - **Humid** - The system supplies lower indoor airflow at all compressor capacities, improving humidity removal by operating at a lower sensible to total ratio

Heating Mode

- Two climate settings are available:
 - **Normal** - Heats the home with the highest efficiency
 - **Comfort** - System reduces indoor airflow, increasing supply air temperature
- Climate IQ (Auto) - Dry, Normal, Basic and Humid modes are automatically set based on the difference between the measured relative humidity and the relative humidity setting
- All modes are selected on the Communicating Thermostat

Defrost Mode

- Enables a demand defrost cycle whenever system heating performance falls below optimum levels
- Clean-sweep defrost provides a more thorough defrost, reducing the number of cycles during heating operation

Outdoor Air Temperature Sensor

- Used with Communicating Thermostats
- Sensor allows thermostat to display outdoor temperature
- Sensor is auto-detected when connected to thermostat

Optional Accessories

Indoor Blower Off Delay Relay

- Delays the indoor blower-off time during the cooling cycle

FEATURES

CONTROLS (continued)

NOTE - The A7HP19V Heat Pump can be used with a branded Communicating Thermostat matched with a "communicating" indoor unit, or a conventional non-communicating thermostat matched with a "non-communicating" indoor unit.

Thermostat	Model No.	Indoor Unit Type
Communicating	A3	Communicating
Non-Communicating	Conventional thermostat	Non-Communicating

Optional Accessories

Comfort Sync® A3 Ultra-Smart Communicating

Thermostat

- Recognizes and connects to all branded Communicating products to automatically configure and control the heating/cooling system (based on user-specified settings) for the highest level of comfort, performance and efficiency
- Recognizes model and serial number information for branded Communicating products to simplify system setup
- Smart Room Sensors can be added to the system
- Smart home automation compatible with Amazon Alexa®, Google Assistant
- Sends service alerts and reminders
- Thermostat App features Wi-Fi remote temperature monitoring and adjustment through a home wireless network apps for smartphones or tablets
- Technician App allows installer to manage systems in the home
- Simple easy-to-use touchscreen allows complete system configuration
- Scheduled maintenance alerts, system warnings and troubleshooting are also displayed on thermostat screen
- Easy to read 7 inch high definition color display (measured diagonally)
- Conventional outdoor units (not Communicating) can easily be added and controlled by the A3 Thermostat
- Installer setup screens allow quick and simple system configuration without a manual, Installer can also run tests on complete system or individual components for easy maintenance and troubleshooting
- Serial communications bus (RSBus), with less wiring than a conventional heating/cooling system, allows system communication
- Uses standard 4-wire unshielded thermostat wiring
- High Definition Color Display with Subbase and wallplate furnished for easy installation

CABINET

- 9 • 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
- Corner patch plate allows access to compressor components
- Drainage holes are provided in base section for moisture removal

Zinc-Coated Steel Unit Base

- Durable zinc-coated base section resists rust and corrosion

10 Louvered Coil Protection

- Steel louvered panels provides complete coil protection
- Panels may be completely removed



11 Refrigerant Line Connections, Electrical Inlets and Service Valves

- Sweat connection vapor and liquid lines
- Located on corner of unit cabinet
- 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		036		060	
Nominal Tonnage		2 Ton Mode	3 Ton Mode	4 Ton Mode	5 Ton Mode
Sound Rating Number Range		62-70	61-72	67-76	66-78
Connections (Sweat)	Liquid line (OD) - in.	3/8	3/8	3/8	3/8
	Vapor line (OD) - in.	3/4	7/8	7/8	1-1/4
Compressor Type		Variable Rotary			
Refrigerant	¹ R-454B charge furnished @ 15 FT	7 lbs 15 ozs		8 lbs 13 ozs	
	¹ R-454B charge furnished @ 30 FT	8 lbs 8 ozs		9 lbs 6 ozs	
Indoor Unit Expansion Valve (TXV)		26Z70	26Z70	26Z71	26Z72
Outdoor Coil	Net face area - ft. ²	Outer coil		16.33	
		Inner coil		23.36	
	Tube diameter - in.	15.68		22.76	
		5/16		5/16	
		Rows		2	
Outdoor Fan	Fins - in.		22		22
	HP		1/3		1/3
	Diameter - in.		22		22
	Blades		4		4
	Cfm		2642		3907
	Rpm		681		941
	Watts		284		425
Shipping Data - lbs.		215		272	

ELECTRICAL DATA

Line voltage data (Volts-Phase-Hz)		208/230-1-60	
² Maximum overcurrent protection (MOCP) amps	³ Minimum circuit ampacity (MCA)	35	60
		23	39.2
Compressor	Input amps	16.3	28.5
Fan Motor	Full load amps	2.6	3.6

OPTIONAL CONTROLS - ORDER SEPARATELY

A3 Smart Wi-Fi Thermostat	1.841226	•	•	•	•
⁴ Discharge Air Temperature Sensor	88K38	•	•	•	•

OPTIONAL ACCESSORIES - ORDER SEPARATELY

Freezestat	3/8 in.	93G35	•	•	•	•
Indoor Blower Off Delay Relay	58M81	•	•	•	•	•

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 Used with the A3 Smart Wi-Fi Thermostat for optional service diagnostics.

EXPANDED SOUND DATA

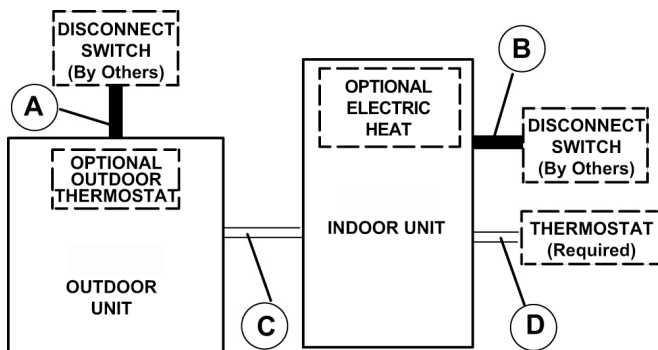
¹ Size	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ							¹ Sound Rating Number (dBA)	² Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)				
	125	250	500	1000	2000	4000	8000		3	5	10	15	50
024 Min.	68.1	61.0	60.2	56.2	50.9	46.2	54.5	62	54	50	44	41	28
024 Max.	71.8	68.8	69.3	62.4	58.0	57.5	55.7	70	62	58	52	49	36
036 Min.	68.4	62.2	56.8	53.1	51.7	48.9	54.1	61	53	49	43	40	27
036 Max.	74	68.8	70.2	65.6	60.9	62.8	59.3	72	64	60	54	51	38
048 Min.	68.8	65.9	68.0	58.8	58.0	52.0	52.8	67	59	55	49	46	33
048 Max.	72.4	74.2	74.9	70.5	68.3	66.3	58.5	76	68	64	58	55	42
060 Min.	69.1	63.8	66.1	56.5	54.6	52.0	52.4	66	58	54	48	45	32
060 Max.	82.3	74.3	75.8	73.0	69.8	68.0	58.7	78	70	66	60	57	44

NOTE - The octave sound power data does not include tonal correction.

¹ Tested according to AHRI Standard 270-2008 test conditions. Sound rating Number is the overall A-Weighted Sound Power Level (LWA), dBA (100 Hz to 10,000 Hz).

² Estimated sound pressure level at distance based on AHRI Standard 275-2010 method for equipment located on the ground, roof, or on side of building wall with no adjacent reflective surface within 9.8 feet. Sound pressure levels will increase based on changes to assumptions. For other applications, refer to AHRI Standard 275.

FIELD WIRING



A- Two Wire Power

B- Two or Three Wire Power (size to heater capacity)

C - Communicating Thermostat:

- Four Wire, 18AWG (RSBus)

C - Conventional Thermostat:

- Eight Wire Low Voltage, 18AWG

- Ten Wire Low Voltage, 18AWG with Optional Outdoor Thermostat

D - Communicating Thermostat:

- Four Wire, 18 to 22AWG (RSGBus) standard thermostat cable for terminals (R, C, I+, I-).

D - Conventional Thermostat:

- Twelve Wire Low Voltage, 18AWG

- Fourteen Wire Low Voltage, 18AWG with Optional Outdoor Thermostat

NOTE - All wiring must conform to NEC or CEC and local electrical codes.

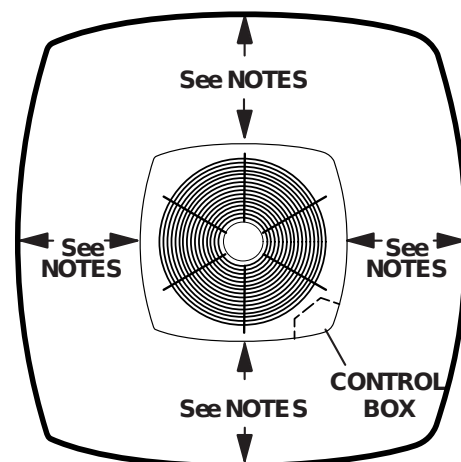
NOTE - Refer to the A3 Installation Instructions for optional wiring connections for communicating thermostats.

NOTE - Field wiring is not furnished.

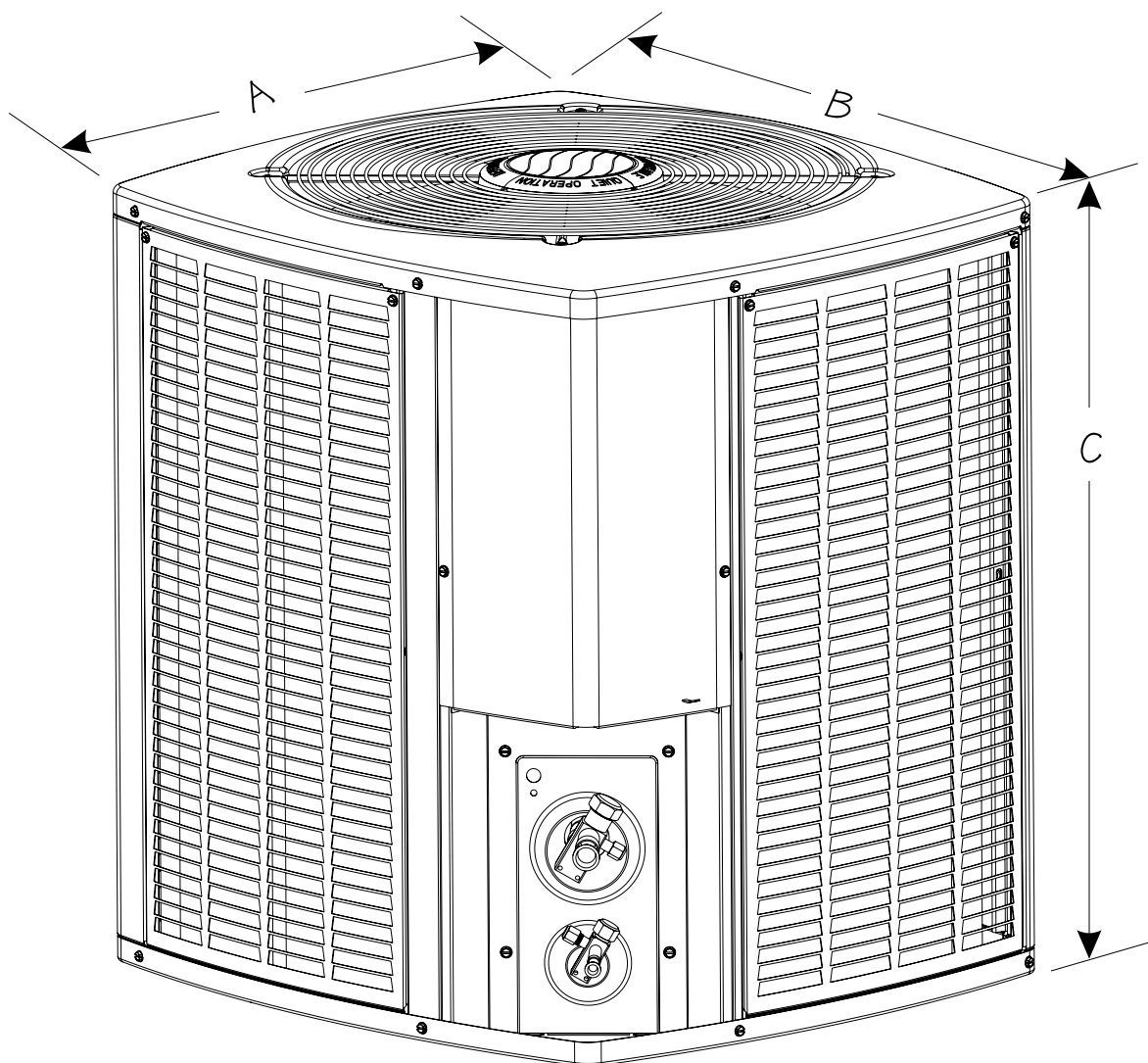
INSTALLATION CLEARANCES

NOTES:

- Service Clearance – 30 in. (762 mm) on one of the sides adjacent to the Control Box.
- One of other three sides must be 36 in. (914 mm).
- One of the two remaining sides may be 12 in. (305 mm).
- The remaining side may be 6 in. (152 mm).
- 48 in. (1219 mm) clearance required on top of unit
- 24 in. (610 mm) required between two units



DIMENSIONS - UNIT



Model No	Dimensions (Inch)			Shipping Weight (lbs.)
	A - (Width)	B - (Depth)	C - (Height)	
A7HP19V36P	29.38	31.25	33.75	215
A7HP19V60P	29.38	31.25	43.75	272

TXV USAGE

All 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
024	26Z70
036	26Z70
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		
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
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
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.

A7HP19V36P (2TON MODE) - 7AH2AV24PXC [COOLING PERFORMANCE (MINIMUM CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																			
				75° F (23.9° C)				85° F (29.4° C)				95° F (35° C)				105° F (40.6° 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)					
						80°F 26.7°C	85°F 29.4°C			80°F 26.7°C	85°F 29.4°C			80°F 26.7°C	85°F 29.4°C			80°F 26.7°C	85°F 29.4°C				
			cfm	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						
		59°F (15°C)	250	9.1	0.36	0.9	1	1	8.7	0.44	0.93	1	1	8.3	0.51	0.95	1	1	7.9	0.59	0.98	1	1
			350	10.2	0.36	1	1	1	9.8	0.44	1	1	1	9.3	0.52	1	1	1	8.8	0.6	1	1	1
			450	11	0.35	1	1	1	10.5	0.43	1	1	1	10	0.52	1	1	1	9.5	0.6	1	1	1
		63°F (17.2°C)	250	9.5	0.36	0.73	0.87	1	9	0.44	0.75	0.89	1	8.6	0.52	0.77	0.92	1	8.1	0.59	0.79	0.95	1
			350	10.2	0.35	0.83	0.99	1	9.8	0.44	0.85	1	1	9.3	0.52	0.88	1	1	8.9	0.6	0.91	1	1
			450	11	0.35	0.92	1	1	10.5	0.43	0.95	1	1	10	0.52	0.98	1	1	9.5	0.6	1	1	1
		67°F (19.4°C)	250	10.1	0.36	0.58	0.71	0.84	9.6	0.44	0.6	0.73	0.86	9.1	0.52	0.6	0.74	0.88	8.6	0.6	0.62	0.77	0.91
			350	10.8	0.35	0.64	0.81	0.96	10.3	0.43	0.66	0.83	0.99	9.8	0.52	0.67	0.85	1	9.2	0.6	0.69	0.88	1
			450	11.3	0.35	0.7	0.9	1	10.7	0.43	0.72	0.93	1	10.1	0.52	0.74	0.96	1	9.5	0.6	0.77	1	1
		71°F (21.7°C)	250	10.6	0.35	0.45	0.57	0.69	10.1	0.44	0.45	0.58	0.7	9.6	0.52	0.46	0.59	0.72	9.1	0.6	0.46	0.6	0.74
			350	11.4	0.35	0.48	0.63	0.79	10.9	0.43	0.49	0.65	0.81	10.3	0.52	0.49	0.66	0.83	9.7	0.6	0.5	0.68	0.86
			450	11.9	0.35	0.51	0.7	0.88	11.3	0.43	0.52	0.71	0.91	10.7	0.52	0.53	0.74	0.94	10.1	0.61	0.54	0.76	0.98

A7HP19V36P (2TON MODE) - 7AH2AV24PXC [COOLING PERFORMANCE (INTERMEDIATE CAPACITY)]

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	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					
A7HP19V36P	7AH2AV24PXC	59°F (15°C)	390	13.4	0.7	0.93	1	1	12.9	0.81	0.96	1	1	11.6	1.05	1	1	1	10.8	1.17	1	1	1	1				
			490	14.5	0.7	1	1	13.9	0.82	1	1	13.2	0.94	1	1	12.4	1.06	1	1	11.6	1.19	1	1	1				
			590	15.3	0.7	1	1	14.7	0.82	1	1	13.9	0.94	1	1	13.1	1.07	1	1	12.2	1.2	1	1	1				
		63°F (17.2°C)	390	13.9	0.7	0.75	0.9	1	13.2	0.81	0.77	0.92	1	12.5	0.93	0.79	0.95	1	11.7	1.05	0.82	0.98	1	10.8	1.17	0.85	1	1
			490	14.6	0.7	0.81	0.98	1	13.9	0.82	0.83	1	1	13.3	0.94	0.87	1	1	12.4	1.06	0.9	1	1	11.6	1.19	0.94	1	1
			590	15.3	0.7	0.87	1	1	14.7	0.82	0.9	1	1	13.9	0.94	0.94	1	1	13.1	1.07	0.98	1	1	12.2	1.2	1	1	1
		67°F (19.4°C)	390	14.8	0.7	0.59	0.73	0.86	14.1	0.82	0.6	0.75	0.88	13.3	0.94	0.62	0.77	0.91	12.4	1.06	0.64	0.8	0.95	11.5	1.18	0.66	0.83	1
			490	15.5	0.7	0.64	0.8	0.94	14.7	0.82	0.65	0.81	0.98	13.8	0.94	0.66	0.84	1	13	1.06	0.69	0.88	1	11.9	1.19	0.71	0.92	1
			590	16	0.7	0.68	0.85	1	15.1	0.82	0.69	0.88	1	14.3	0.94	0.71	0.92	1	13.3	1.07	0.74	0.96	1	12.3	1.2	0.77	1	1
		71°F (21.7°C)	390	15.5	0.7	0.46	0.58	0.71	14.8	0.82	0.46	0.59	0.72	14	0.94	0.47	0.61	0.74	13.2	1.07	0.47	0.62	0.77	12.2	1.19	0.48	0.65	0.81
490	16.3		0.7	0.47	0.63	0.77	15.5	0.82	0.48	0.64	0.79	14.7	0.95	0.49	0.66	0.82	13.7	1.07	0.5	0.68	0.85	12.7	1.2	0.51	0.71	0.9		
590	16.7		0.7	0.5	0.67	0.83	15.9	0.83	0.51	0.68	0.86	15.1	0.95	0.51	0.7	0.9	14.1	1.08	0.53	0.73	0.94	13.1	1.21	0.54	0.77	0.99		

COOLING PERFORMANCE EXTENDED RATINGS

A7HP19V36P (2TON MODE) - 7AH2AV24PXC [COOLING PERFORMANCE (MAXIMUM CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil										115° F (46.1° C)					125° F (51.7° C)																																																																																																																																																																																																																																																																																																																																																																																																																																											
				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	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	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input	Total Cooling Capacity	Comp. Motor Input	Total Ratio (S/T)	Dry Bulb	Total Ratio (S/T)	Comp. Motor Input

COOLING PERFORMANCE EXTENDED RATINGS

A7HP19V36P (3TON MODE) - 7AH2AV36PXC [COOLING PERFORMANCE (MINIMUM CAPACITY)]

[illegible]

A7HP19V36P (3TON MODE) - 7AH2AV36PXC [COOLING PERFORMANCE (INTERMEDIATE CAPACITY)]

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)																					
				Comp. 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)																			
A7HP19V36P	7AH2AV36PXC	59°F (15°C)	cfm	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Dry Bulb		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	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C										
		63°F (17.2°C)	620	20.3	1.04	0.79	0.95	1	0.98	1	18.4	1.36	0.83	1	1	17.4	1.52	0.86	1	1	16.3	1.69	0.9	1	1	1	1	1	1	1	1	1	1	1							
		67°F (19.4°C)	770	21.3	1.04	0.86	1	1	0.88	1	19.5	1.37	0.91	1	1	18.5	1.54	0.95	1	1	17.2	1.71	1	1	1	1	1	1	1	1	1	1	1	1	1						
7AH2AV36PXC	920	22.3	1.04	0.92	1	1	0.95	1	20.4	1.38	0.99	1	1	19.3	1.55	1	1	1	18	1.73	1	1	1	1	1	1	1	1	1	1	1	1	1	1							
7AH2AV36PXC	620	21.5	1.04	0.62	0.77	0.92	0.63	0.79	0.94	19.5	1.37	0.65	0.81	0.97	18.3	1.54	0.67	0.84	1	17	1.71	0.69	0.88	1	1	1	1	1	1	1	1	1	1	1	1						
7AH2AV36PXC	770	22.3	1.04	0.67	0.84	1	0.68	0.87	1	20.2	1.38	0.69	0.89	1	18.9	1.55	0.72	0.93	1	17.4	1.72	0.75	0.98	1	1	1	1	1	1	1	1	1	1	1	1	1					
7AH2AV36PXC	920	22.9	1.05	0.71	0.91	1	0.73	0.94	1	20.6	1.38	0.74	0.97	1	19.3	1.55	0.77	1	1	18	1.73	0.81	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
7AH2AV36PXC	620	22.7	1.04	0.47	0.61	0.75	0.47	0.63	0.77	20.5	1.38	0.48	0.64	0.79	19.3	1.55	0.49	0.66	0.82	17.9	1.73	0.5	0.68	0.86	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
7AH2AV36PXC	770	23.5	1.05	0.49	0.66	0.81	0.5	0.67	0.84	21.3	1.39	0.51	0.69	0.88	20	1.56	0.52	0.71	0.91	18.6	1.74	0.53	0.74	0.95	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
7AH2AV36PXC	920	24.1	1.05	0.51	0.7	0.89	0.52	0.72	0.92	21.9	1.4	0.54	0.74	0.95	20.4	1.57	0.55	0.77	0.95	18.9	1.75	0.56	0.81	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		

COOLING PERFORMANCE EXTENDED RATINGS

A7HP19V36P (3TON MODE) - 7AH2AV36PXC [COOLING PERFORMANCE (MAXIMUM CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil										115° F (46.1° C)					125° F (51.7° C)						
				85° F (29.4° 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				
				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		
A7HP19V36P	7AH2AV36PXC	59°F (15°C)	cfm	34.5	2.32	0.95	1	1	33.3	2.6	0.97	1	1	31.9	2.85	0.99	1	1	28.1	3.29	1	1	1		
				35.8	2.34	0.99	1	1	34.4	2.62	1	1	33.1	2.87	1	1	31.1	3.1	1	29.2	3.3	1	1		
				36.9	2.36	1	1	1	35.6	2.64	1	1	33.9	2.89	1	1	32.2	3.12	1	30.1	3.31	1	1		
		1080	35.5	2.34	0.77	0.92	1	33.9	2.61	0.78	0.94	1	32.1	2.86	0.8	0.97	1	30.4	3.09	0.82	1	28.3	3.29	0.86	1
		1230	36.3	2.35	0.8	0.96	1	34.6	2.62	0.82	0.99	1	33.1	2.87	0.84	1	31.3	3.1	0.87	1	29.2	3.3	0.91	1	
		1380	37	2.36	0.83	1	1	35.6	2.64	0.85	1	33.9	2.89	0.88	1	32.2	3.12	0.91	1	30.1	3.31	0.96	1		
		1080	37.4	2.37	0.6	0.74	0.88	35.8	2.64	0.61	0.76	0.91	34	2.89	0.62	0.78	0.94	32.1	3.11	0.64	0.81	29.8	3.31	0.66	0.84
		1230	38.3	2.38	0.62	0.78	0.93	36.6	2.65	0.64	0.8	0.96	34.9	2.9	0.65	0.82	0.99	32.7	3.12	0.67	0.85	30.2	3.31	0.69	0.89
		1380	39.1	2.39	0.65	0.81	0.98	37.4	2.66	0.66	0.83	1	35.4	2.91	0.67	0.86	1	33.2	3.13	0.69	0.9	30.6	3.32	0.72	0.94
		1080	39.5	2.39	0.45	0.59	0.73	37.9	2.67	0.46	0.6	0.74	35.9	2.91	0.47	0.61	0.76	33.8	3.13	0.47	0.63	31.4	3.32	0.48	0.65
		1230	40.4	2.4	0.47	0.61	0.76	38.7	2.68	0.47	0.63	0.78	36.7	2.92	0.48	0.64	0.81	34.5	3.14	0.49	0.66	32	3.33	0.5	0.69
		1380	41.2	2.41	0.49	0.64	0.79	39.3	2.69	0.49	0.65	0.82	37.3	2.93	0.49	0.67	0.84	35.1	3.15	0.5	0.69	32.4	3.33	0.51	0.72

A7HP19V60P (4TON MODE) - 7AH2AV48PXC [COOLING PERFORMANCE (MINIMUM CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	Outdoor Air Temperature Entering Outdoor Coil																
			75° F (23.9° C)				85° F (29.4° C)				95° F (35° C)				105° F (40.6° 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)				
					Dry Bulb					Dry Bulb					Dry Bulb				
			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		
A7HP19V60P	7AH2AV48PXC	59°F (15°C)	cfm																
			780	23.4	0.82	0.99	1	1	1	21.5	1.16	1	1	1	20.5	1.34	1	1	1
			900	24.4	0.81	1	1	1	1	22.4	1.16	1	1	1	21.4	1.34	1	1	1
		980	25.1	0.8	1	1	1	1	23	1.16	1	1	1	21.9	1.34	1	1	1	
		780	23.6	0.81	0.8	0.96	1	1	21.5	1.16	0.84	1	1	20.5	1.34	0.87	1	1	
		900	24.4	0.81	0.84	1	1	1	22.4	1.16	0.89	1	1	21.4	1.34	0.93	1	1	
		980	25.1	0.8	0.88	1	1	1	23	1.16	0.93	1	1	21.9	1.34	0.96	1	1	
		780	25	0.8	0.63	0.78	0.93	0.95	22.7	1.16	0.65	0.82	0.98	21.5	1.34	0.67	0.85	1	
		900	25.8	0.8	0.65	0.82	0.98	1	23.3	1.16	0.69	0.87	1	22	1.34	0.7	0.9	1	
980	26.2	0.8	0.67	0.85	1	1	23.6	1.16	0.71	0.91	1	22.3	1.34	0.73	0.94	1			
		71°F (21.7°C)	780	26.4	0.79	0.47	0.62	0.76	24	1.16	0.48	0.64	0.8	22.7	1.34	0.49	0.66	0.82	
			900	27.1	0.79	0.48	0.65	0.8	0.82	24.6	1.15	0.5	0.68	0.85	23.2	1.34	0.51	0.7	0.88
			980	27.4	0.79	0.49	0.67	0.83	0.85	24.9	1.15	0.51	0.7	0.88	23.5	1.34	0.52	0.72	0.92

A7HP19V60P (4TON MODE) - 7AH2AV48PXC [COOLING PERFORMANCE (INTERMEDIATE CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	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								
			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					
A7HP19V60P	7AH2AV48PXC	59°F (15°C)	cfm																													
			900	30	1.58	0.93	1	1	28.8	1.83	0.96	1	1	27.5	2.08	0.98	1	1	26	2.34	1	1	1	24.5	2.61	1	1	1				
			1060	31.7	1.59	0.99	1	1	30.4	1.84	1	1	1	28.9	2.09	1	1	1	27.4	2.36	1	1	1	25.8	2.63	1	1	1				
			1260	33.4	1.59	1	1	1	32	1.85	1	1	1	30.3	2.11	1	1	1	28.7	2.38	1	1	1	27	2.65	1	1	1				
		900	31.1	1.59	0.76	0.9	1	29.6	1.83	0.77	0.92	1	28	2.09	0.8	0.95	1	26.2	2.34	0.82	0.99	1	24.5	2.61	0.85	1	1					
		1060	32.2	1.59	0.8	0.96	1	30.6	1.84	0.82	0.98	1	28.9	2.09	0.84	1	1	27.4	2.36	0.87	1	1	25.8	2.63	0.91	1	1					
		1260	33.4	1.59	0.85	1	1	32	1.85	0.88	1	1	30.3	2.11	0.9	1	1	28.7	2.38	0.94	1	1	27	2.65	0.98	1	1					
		900	32.8	1.59	0.6	0.73	0.87	31.2	1.84	0.61	0.75	0.89	29.5	2.1	0.62	0.77	0.92	27.7	2.36	0.63	0.8	0.95	26.1	2.63	0.65	0.82	0.99					
		1060	34.1	1.59	0.62	0.78	0.92	32.4	1.85	0.64	0.8	0.95	30.5	2.11	0.65	0.82	0.98	28.6	2.37	0.67	0.85	1	26.8	2.65	0.69	0.88	1					
		1260	35.2	1.6	0.66	0.83	0.99	33.3	1.85	0.67	0.85	1	31.4	2.12	0.69	0.88	1	29.4	2.38	0.71	0.92	1	27.3	2.66	0.74	0.96	1					
71°F (21.7°C)	900	34.6	1.6	0.45	0.58	0.71	32.9	1.85	0.46	0.59	0.73	31.2	2.11	0.46	0.61	0.75	29.4	2.38	0.47	0.62	0.78	27.4	2.66	0.48	0.64	0.8						
	1060	35.9	1.6	0.47	0.61	0.76	34	1.86	0.47	0.63	0.77	32.2	2.12	0.48	0.64	0.8	30.3	2.39	0.49	0.66	0.83	28.3	2.67	0.5	0.68	0.86						
	1260	36.8	1.6	0.48	0.65	0.81	35	1.86	0.49	0.66	0.83	33.2	2.13	0.5	0.68	0.86	31.1	2.4	0.51	0.7	0.9	29	2.68	0.52	0.73	0.94						

COOLING PERFORMANCE EXTENDED RATINGS

A7HP19V60P (4TON MODE) - 7AH2AV48PXC [COOLING PERFORMANCE (MAXIMUM CAPACITY)]

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	
A7HP19V60P	7AH2AV48PXC	59°F (15°C)	cfm	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	
				46.9	2.99	0.91	1	1	44.9	3.37	0.93	1	1	43.4	3.76	0.95	1	1	41.2	4.17	0.98	1	1	39.1	4.59	1	1	1
				49	3.02	0.95	1	1	47.1	3.4	0.97	1	1	45	3.79	1	1	1	43	4.2	1	1	1	40.8	4.63	1	1	1
				50.5	3.03	0.99	1	1	48.6	3.42	1	1	1	46.5	3.82	1	1	1	44.4	4.23	1	1	1	42.1	4.66	1	1	1
				49	3.02	0.74	0.87	1	46.9	3.4	0.75	0.89	1	44.4	3.78	0.77	0.92	1	42	4.18	0.79	0.95	1	39.4	4.6	0.81	0.98	1
				50.4	3.03	0.77	0.92	1	47.9	3.41	0.78	0.94	1	45.6	3.8	0.8	0.97	1	43.1	4.21	0.82	1	1	40.8	4.63	0.85	1	1
				51.6	3.05	0.8	0.96	1	49	3.43	0.81	0.98	1	46.6	3.82	0.84	1	1	44.4	4.23	0.86	1	1	42.1	4.66	0.89	1	1
				51.4	3.04	0.58	0.71	0.84	49.2	3.43	0.59	0.73	0.86	46.9	3.82	0.6	0.75	0.89	44.5	4.23	0.61	0.77	0.92	41.9	4.66	0.63	0.79	0.95
				52.9	3.06	0.6	0.75	0.88	50.5	3.45	0.61	0.76	0.91	48.1	3.84	0.62	0.78	0.94	45.8	4.25	0.64	0.8	0.97	43	4.68	0.65	0.83	1
				54.1	3.07	0.62	0.78	0.93	51.8	3.46	0.63	0.8	0.95	49.3	3.86	0.64	0.82	0.98	46.7	4.27	0.66	0.84	1	43.8	4.7	0.68	0.87	1
1400	54.3	3.07	0.44	0.57	0.69	52	3.46	0.45	0.58	0.71	49.6	3.87	0.45	0.59	0.72	47.2	4.28	0.45	0.6	0.74	44.5	4.72	0.46	0.61	0.77			
1600	55.8	3.09	0.45	0.59	0.72	53.5	3.48	0.46	0.6	0.74	51	3.89	0.46	0.61	0.76	48.4	4.3	0.47	0.63	0.78	45.5	4.74	0.47	0.64	0.81			
1800	57.1	3.1	0.46	0.61	0.76	54.6	3.5	0.47	0.62	0.78	52.1	3.9	0.47	0.63	0.8	49.4	4.32	0.48	0.65	0.82	46.3	4.75	0.49	0.67	0.85			

A7HP19V60P (5TON MODE) - 7AH2AV60PX [COOLING PERFORMANCE (MINIMUM CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil																
				75° F (23.9° C)				85° F (29.4° C)				95° F (35° C)				105° F (40.6° 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		
			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		
A7HP19V60P	7AH2AV60PX	59°F (15°C)	900	23.4	0.81	1	1	1	22.6	0.97	1	1	1	21.7	1.14	1	1	1	1	
			980	24	0.81	1	1	23.1	0.97	1	1	22.1	1.14	1	1	21.1	1.31	1	1	
			1150	25.1	0.8	1	1	24.1	0.97	1	1	23.1	1.14	1	1	22	1.31	1	1	
		900	23.5	0.81	0.85	1	1	22.6	0.87	1	1	21.7	1.14	0.9	1	20.7	1.31	0.93	1	
		980	24	0.81	0.87	1	1	23.1	0.9	1	1	22.1	1.14	0.93	1	21.1	1.31	0.96	1	
		1150	25.1	0.8	0.93	1	1	24.1	0.96	1	1	23.1	1.14	1	1	22	1.31	1	1	
		900	24.5	0.8	0.66	0.83	0.98	23.5	0.97	0.68	0.84	1	22.3	1.14	0.69	0.88	1	1.31	0.71	0.91
		980	24.9	0.8	0.68	0.85	1	23.8	0.97	0.69	0.88	1	22.7	1.14	0.71	0.91	1	1.31	0.73	0.94
		1150	25.6	0.8	0.71	0.91	1	24.5	0.97	0.73	0.94	1	23.3	1.14	0.75	0.97	1	1.31	0.78	1
		900	25.9	0.8	0.49	0.65	0.81	24.8	0.97	0.5	0.67	0.83	23.6	1.14	0.5	0.68	0.85	1.31	0.51	0.7
980	26.3	0.8	0.5	0.67	0.83	25.2	0.96	0.51	0.69	0.86	23.9	1.14	0.51	0.7	0.89	1.31	0.53	0.73		
1150	27	0.79	0.52	0.71	0.89	25.8	0.96	0.53	0.73	0.92	24.5	1.14	0.54	0.75	0.96	1.32	0.55	0.78		

A7HP19V60P (5TON MODE) - 7AH2AV60PX [COOLING PERFORMANCE (INTERMEDIATE CAPACITY)]

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									
A7HP19V60P	7AH2AV60PX	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					
				32.8	1.9	0.91	1	1	31.6	2.17	0.94	1	1	30.4	2.46	0.97	1	1	28.9	2.76	1	1	1	27.3	3.08	1	1	1
				34.4	1.91	0.95	1	1	33.2	2.19	0.98	1	1	31.7	2.48	1	1	1	30.2	2.78	1	1	1	28.6	3.1	1	1	1
				36.7	1.92	1	1	1	35.1	2.21	1	1	1	33.6	2.5	1	1	1	32	2.8	1	1	1	30.1	3.12	1	1	1
				34	1.91	0.75	0.88	1	32.6	2.18	0.76	0.9	1	31.1	2.47	0.78	0.93	1	29.2	2.77	0.8	0.97	1	27.5	3.08	0.83	1	1
				35.2	1.91	0.78	0.92	1	33.7	2.19	0.8	0.95	1	31.9	2.48	0.82	0.98	1	30.2	2.78	0.84	1	1	28.7	3.1	0.88	1	1
				36.8	1.92	0.83	0.99	1	35.1	2.21	0.85	1	1	33.6	2.5	0.88	1	1	32	2.8	0.91	1	1	30.1	3.12	0.95	1	1
				36	1.92	0.6	0.72	0.85	34.5	2.2	0.61	0.74	0.87	32.7	2.49	0.62	0.76	0.9	31.1	2.79	0.63	0.78	0.93	28.9	3.1	0.65	0.81	0.97
				37.2	1.93	0.62	0.76	0.89	35.6	2.21	0.63	0.77	0.92	33.6	2.5	0.64	0.8	0.95	31.8	2.8	0.66	0.82	0.98	29.9	3.12	0.67	0.85	1
				37.0	1.93	0.65	0.81	0.96	36.8	2.22	0.66	0.83	0.99	35.1	2.52	0.68	0.85	1	33.1	2.82	0.7	0.89	1	30.7	3.13	0.72	0.93	1
980	37.9	1.93	0.46	0.59	0.7	36.1	2.21	0.46	0.59	0.72	34.4	2.51	0.47	0.61	0.74	32.5	2.81	0.47	0.62	0.76	30.5	3.13	0.47	0.64	0.79			
1120	38.9	1.94	0.47	0.61	0.73	37.2	2.23	0.47	0.62	0.75	35.4	2.52	0.48	0.63	0.77	33.5	2.83	0.48	0.65	0.8	31.4	3.14	0.49	0.67	0.83			
1370	40.5	1.95	0.49	0.64	0.78	38.7	2.24	0.49	0.65	0.81	36.7	2.54	0.5	0.67	0.84	34.7	2.84	0.51	0.69	0.87	32.6	3.16	0.52	0.71	0.9			

A7HP19V60P (5TON MODE) - 7AH2AV60PX [COOLING PERFORMANCE (MAXIMUM CAPACITY)]

[illegible]

HEATING PERFORMANCE EXTENDED RATINGS

A7HP19V36P (2TON MODE) - 7AH2AV24PXC - HEATING PERFORMANCE (MINIMUM CAPACITY)

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil							
		65°F (18°C)		60°F (15.5°C)		55°F (27.8°C)		50°F (10°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
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	280	9.6	0.64	9	0.63	8.4	0.61	7.8	0.6
	380	10	0.57	9.3	0.56	8.7	0.56	8.1	0.55
	480	10.2	0.53	9.5	0.53	8.9	0.52	8.2	0.52
70° F	280	10.1	0.56	9.4	0.55	8.8	0.54	8.2	0.53
	380	10.4	0.49	9.7	0.49	9	0.48	8.4	0.48
	480	10.6	0.45	9.9	0.45	9.2	0.45	8.5	0.45
75° F	280	9.9	0.6	9.2	0.59	8.6	0.57	8	0.56
	380	10.2	0.53	9.5	0.53	8.9	0.52	8.3	0.51
	480	10.4	0.49	9.7	0.49	9	0.49	8.4	0.48

A7HP19V36P (2TON MODE) - 7AH2AV24PXC - HEATING PERFORMANCE (MAXIMUM CAPACITY)

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	720	28.9	2.24	22.1	2.01	16.1	1.78	13.4	1.85	8.6	1.43
	820	29.4	2.15	22.4	1.95	16.3	1.74	13.5	1.82	8.6	1.42
	920	29.7	2.24	22.6	2.01	16.4	1.71	13.5	1.8	8.6	1.41
70° F	720	30	2.01	22.9	1.82	16.7	1.63	13.7	1.71	8.9	1.35
	820	30.6	1.93	23.1	1.76	16.9	1.59	13.8	1.68	9	1.35
	920	31	2.01	23.4	1.82	17	1.56	13.9	1.66	9.1	1.35
75° F	720	29.5	2.12	22.5	1.91	16.4	1.7	13.6	1.78	9	1.41
	820	29.9	2.03	22.8	1.85	16.5	1.66	13.7	1.75	9	1.4
	920	30.5	2.12	22.9	1.91	16.7	1.64	13.7	1.72	8.9	1.38

A7HP19V36P (2TON MODE) - 7AH2AV24PXC - INDOOR COIL AIR VOLUME - 820CFM

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	1.93	30.6	4.028	65	2.03	29.9	3.762	65	2.15	29.4	3.527
60	1.93	28.5	3.832	60	2.03	28.1	3.599	60	2.15	27.6	3.386
55	1.84	26.7	3.662	55	1.94	26.3	3.45	55	2.05	25.9	3.247
50	1.8	24.9	3.495	50	1.9	24.6	3.293	50	2	24.1	3.1
47	1.77	23.6	3.36	47	1.87	23.3	3.175	47	1.96	22.9	2.995
45	1.76	23.1	3.314	45	1.85	22.8	3.123	45	1.95	22.4	2.944
40	1.72	21.4	3.139	40	1.81	21.1	2.964	40	1.9	20.7	2.796
35	1.68	19.8	2.969	35	1.76	19.5	2.807	35	1.85	19.2	2.651
30	1.63	18.2	2.801	30	1.71	17.9	2.651	30	1.79	17.6	2.508
25	1.59	16.9	2.654	25	1.66	16.5	2.51	25	1.74	16.3	2.38
20	1.54	15.3	2.49	20	1.61	15.1	2.367	20	1.68	14.9	2.248
17	1.48	13.6	2.291	17	1.54	13.4	2.184	17	1.62	13.3	2.091
15	1.46	13.1	2.237	15	1.52	12.9	2.134	15	1.58	12.7	2.034
10	1.4	11.9	2.1	10	1.46	11.7	2.008	10	1.52	11.5	1.918
5	1.68	13.8	2.081	5	1.75	13.7	1.989	5	1.82	13.5	1.898
0	1.6	12.5	1.967	0	1.66	12.3	1.884	0	1.73	12.2	1.802
-5	1.59	11.2	1.858	-5	1.66	11.1	1.784	-5	1.74	10.9	1.71
-10	1.43	10	1.753	-10	1.48	9.9	1.688	-10	1.52	9.6	1.609
-15	1.35	9	1.659	-15	1.4	9	1.61	-15	1.42	8.6	1.532
-20	1.28	8.2	1.586	-20	1.31	8.1	1.533	-20	1.32	7.7	1.466

HEATING PERFORMANCE EXTENDED RATINGS

A7HP19V36P (3TON MODE) - 7AH2AV36PXC - HEATING PERFORMANCE (MINIMUM CAPACITY)

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil							
		65°F (18°C)		60°F (15.5°C)		55°F (27.8°C)		50°F (10°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
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	450	13.1	0.55	12.3	0.54	11.4	0.54	10.5	0.53
	530	13.3	0.51	12.5	0.51	11.6	0.5	10.8	0.5
	600	13.5	0.48	12.6	0.48	11.7	0.48	10.9	0.48
70° F	450	12.8	0.6	11.9	0.59	11.1	0.58	10.3	0.57
	530	13.1	0.56	12.2	0.55	11.4	0.55	10.5	0.54
	600	13.2	0.53	12.3	0.53	11.5	0.53	10.6	0.53
75° F	450	12.5	0.65	11.7	0.64	10.9	0.63	10.1	0.62
	530	12.8	0.61	11.9	0.6	11	0.59	10.2	0.59
	600	12.9	0.59	12.1	0.58	11.1	0.58	10.3	0.57

A7HP19V36P (3TON MODE) - 7AH2AV36PXC - HEATING PERFORMANCE (MAXIMUM CAPACITY)

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	1070	41.6	2.58	32.3	2.29	23.5	2.04	16.8	1.75	11.5	1.59
	1220	42.1	2.46	32.5	2.2	23.7	2	16.9	1.74	11.6	1.59
	1370	42.4	2.58	32.7	2.29	23.9	1.97	17	1.72	11.7	1.59
70° F	1070	41	2.72	31.9	2.43	23.1	2.15	16.5	1.82	11.2	1.61
	1220	41.5	2.6	32.1	2.34	23.3	2.11	16.6	1.8	11.2	1.6
	1370	41.9	2.72	32.3	2.43	23.4	2.08	16.6	1.79	11.3	1.6
75° F	1070	40.3	2.85	31.3	2.55	22.8	2.27	16.2	1.9	10.7	1.62
	1220	40.8	2.74	31.6	2.47	22.9	2.22	16.3	1.88	10.8	1.62
	1370	41.3	2.85	31.9	2.55	23	2.19	16.4	1.86	10.8	1.62

A7HP19V36P (3TON MODE) - 7AH2AV36PXC - INDOOR COIL AIR VOLUME - 1220CFM

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	2.46	42.1	4.306	65	2.6	41.5	4.049	65	2.74	40.8	3.822
60	2.46	39.6	4.15	60	2.6	39	3.9	60	2.74	38.5	3.682
55	2.33	37.1	3.992	55	2.47	36.7	3.756	55	2.61	36.2	3.54
50	2.27	34.8	3.839	50	2.41	34.4	3.606	50	2.54	33.9	3.399
47	2.21	32.8	3.698	47	2.35	32.4	3.479	47	2.49	32	3.279
45	2.2	32.5	3.679	45	2.34	32.1	3.456	45	2.47	31.6	3.249
40	2.14	30.2	3.499	40	2.27	29.7	3.285	40	2.4	29.3	3.096
35	2.09	27.9	3.32	35	2.21	27.5	3.121	35	2.34	27.1	2.942
30	2.04	25.8	3.134	30	2.16	25.4	2.951	30	2.28	25.1	2.784
25	2	23.7	2.935	25	2.11	23.3	2.764	25	2.22	22.9	2.613
20	1.96	21.8	2.762	20	2.06	21.5	2.611	20	2.17	21.2	2.471
17	1.85	20.4	2.712	17	1.94	20	2.562	17	2.04	19.7	2.426
15	1.84	19.8	2.648	15	1.93	19.4	2.505	15	2.02	19.1	2.379
10	1.8	18.1	2.469	10	1.88	17.7	2.34	10	1.97	17.4	2.226
5	1.74	16.9	2.385	5	1.8	16.6	2.271	5	1.88	16.3	2.168
0	1.7	15.4	2.22	0	1.76	15.1	2.12	0	1.82	14.8	2.029
-5	2	14	2.066	-5	2.11	13.7	1.98	-5	2.22	13.4	1.9
-10	1.63	12.7	1.929	-10	1.66	12.4	1.852	-10	1.7	12.1	1.782
-15	1.59	11.6	1.811	-15	1.6	11.2	1.739	-15	1.62	10.8	1.665
-20	1.54	10.6	1.71	-20	1.55	10.3	1.65	-20	1.56	9.9	1.594

HEATING PERFORMANCE EXTENDED RATINGS

A7HP19V60P (4TON MODE) - 7AH2AV48PXC - HEATING PERFORMANCE (MINIMUM CAPACITY)

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil							
		65°F (18°C)		60°F (15.5°C)		55°F (27.8°C)		50°F (10°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
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	760	24.5	1.08	23	1.06	21.5	1.04	20	1.03
	900	24.9	1.01	23.3	0.99	21.7	0.98	20.2	0.97
	960	25	0.97	23.4	0.97	21.8	0.96	20.3	0.95
70° F	760	24.2	1.17	22.6	1.14	21.1	1.12	19.7	1.1
	900	24.5	1.09	22.9	1.08	21.4	1.06	19.9	1.05
	960	24.6	1.06	23	1.05	21.5	1.04	20	1.03
75° F	760	23.7	1.25	22.2	1.23	20.8	1.2	19.3	1.18
	900	24.1	1.18	22.6	1.16	21.1	1.14	19.5	1.13
	960	24.2	1.15	22.6	1.13	21.1	1.12	19.7	1.1

A7HP19V60P (4TON MODE) - 7AH2AV48PXC - HEATING PERFORMANCE (MAXIMUM CAPACITY)

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	1400	59.8	3.93	46.5	3.45	34.5	3.02	21.8	2.36	15	1.98
	1600	60.6	3.74	46.8	3.32	34.7	2.94	21.9	2.31	15.4	1.98
	1800	61.2	3.93	47.1	3.45	34.9	2.89	22.1	2.28	15.6	1.97
70° F	1400	59.1	4.14	46	3.63	34.2	3.17	21.7	2.47	15.2	2.07
	1600	59.8	3.94	46.4	3.5	34.3	3.1	21.7	2.42	14.8	2.02
	1800	60.5	4.14	46.7	3.63	34.5	3.04	21.8	2.38	14.9	2.01
75° F	1400	58.3	4.35	45.3	3.81	34.1	3.34	21.3	2.56	14.8	2.12
	1600	59	4.15	45.8	3.69	34.2	3.27	21.4	2.52	15.1	2.12
	1800	59.6	4.35	46.1	3.81	34.1	3.2	21.5	2.49	15.1	2.11

A7HP19V60P (4TON MODE) - 7AH2AV48PXC - INDOOR COIL AIR VOLUME - 1600CFM

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	3.74	60.6	4.068	65	3.94	59.8	3.84	65	4.15	59	3.633
60	3.74	57	3.93	60	3.94	56.2	3.711	60	4.15	55.6	3.514
55	3.52	53.4	3.787	55	3.71	52.8	3.584	55	3.91	52.2	3.393
50	3.41	50	3.643	50	3.61	49.5	3.448	50	3.8	49	3.266
47	3.33	47.3	3.521	47	3.52	46.8	3.332	47	3.7	46.3	3.161
45	3.32	46.8	3.501	45	3.5	46.4	3.315	45	3.69	45.8	3.144
40	3.22	43.8	3.359	40	3.4	43.3	3.179	40	3.58	42.8	3.015
35	3.13	40.7	3.209	35	3.3	40.2	3.038	35	3.47	39.7	2.882
30	3.03	37.7	3.057	30	3.19	37.2	2.897	30	3.36	36.8	2.752
25	2.94	34.7	2.897	25	3.1	34.3	2.75	25	3.27	34.2	2.632
20	2.85	31.8	2.735	20	2.99	31.3	2.595	20	3.15	31.2	2.485
17	2.55	27.4	2.581	17	2.69	27	2.444	17	2.82	26.6	2.324
15	2.53	26.6	2.524	15	2.66	26.1	2.39	15	2.79	25.8	2.273
10	2.46	24.5	2.388	10	2.57	23.8	2.247	10	2.69	23.5	2.147
5	2.31	21.9	2.228	5	2.42	21.7	2.128	5	2.52	21.4	2.042
0	2.23	20.2	2.122	0	2.31	19.7	2.014	0	2.41	19.6	1.942
-5	2.94	18.4	2.002	-5	3.1	18	1.913	-5	3.27	17.9	1.845
-10	2.04	16.6	1.881	-10	2.12	16.3	1.807	-10	2.2	16.3	1.753
-15	1.98	15.4	1.8	-15	2.02	14.8	1.713	-15	2.12	15.1	1.684
-20	1.9	14.1	1.712	-20	1.96	13.9	1.655	-20	2.02	13.8	1.607

HEATING PERFORMANCE EXTENDED RATINGS

A7HP19V60P (5TON MODE) - 7AH2AV60PX - HEATING PERFORMANCE (MINIMUM CAPACITY)

Entering Dry Bulb Temperature	CFM	Air Temperature Entering Outdoor Coil							
		65°F (18°C)		60°F (15.5°C)		55°F (27.8°C)		50°F (10°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
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW
65° F	900	23.1	1.15	21.5	1.13	20	1.12	18.6	1.1
	980	23.3	1.12	21.7	1.1	20.2	1.09	18.7	1.08
	1150	23.6	1.06	21.9	1.06	20.4	1.05	18.9	1.05
70° F	900	23.9	0.98	22.3	0.97	20.8	0.96	19.3	0.95
	980	24.1	0.95	22.5	0.94	20.9	0.94	19.4	0.93
	1150	24.3	0.89	22.7	0.89	21.1	0.89	19.5	0.9
75° F	900	23.5	1.06	22	1.05	20.4	1.04	18.9	1.03
	980	23.7	1.03	22.1	1.02	20.5	1.02	19	1.01
	1150	23.9	0.98	22.3	0.97	20.7	0.97	19.2	0.97

A7HP19V60P (5TON MODE) - 7AH2AV60PX - HEATING PERFORMANCE (MAXIMUM CAPACITY)

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	1560	68.5	5.57	53.4	4.89	40.2	4.27	26.9	3.53	18.2	2.87
	1810	69.6	5.29	53.8	4.7	40.4	4.16	26.9	3.49	18.2	2.86
	2060	70.2	5.57	54.4	4.89	40.6	4.07	27	3.45	18.3	2.85
70° F	1560	70.3	5.05	54.8	4.43	41	3.88	27.3	3.26	18.5	2.74
	1810	71.2	4.78	55.2	4.25	41	3.76	27.3	3.21	18.6	2.72
	2060	71.8	5.05	55.6	4.43	41.2	3.68	27.6	3.18	18.6	2.71
75° F	1560	69.5	5.31	53.9	4.65	40.6	4.07	27.1	3.4	18.4	2.81
	1810	70.4	5.03	54.6	4.48	40.8	3.96	27.1	3.35	18.4	2.79
	2060	71.1	5.31	55	4.65	41	3.88	27.2	3.31	18.4	2.78

A7HP19V60P (5TON MODE)- 7AH2AV60PX - INDOOR COIL AIR VOLUME - 1810CFM

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	4.78	71.2	3.677	65	5.03	70.4	3.482	65	5.29	69.6	3.305
60	4.78	67	3.549	60	5.03	66.2	3.364	60	5.29	65.5	3.191
55	4.51	62.9	3.421	55	4.75	62.2	3.246	55	4.99	61.6	3.084
50	4.37	59	3.293	50	4.61	58.4	3.129	50	4.85	57.7	2.966
47	4.27	55.8	3.184	47	4.49	55.1	3.02	47	4.72	54.4	2.866
45	4.25	55.2	3.165	45	4.48	54.6	3.005	45	4.7	53.8	2.845
40	4.12	51.6	3.036	40	4.34	51	2.881	40	4.56	50.3	2.735
35	4	48	2.903	35	4.21	47.4	2.755	35	4.42	46.8	2.618
30	3.88	44.4	2.764	30	4.08	43.9	2.629	30	4.28	43.4	2.499
25	3.76	41	2.625	25	3.96	40.8	2.509	25	4.16	40.4	2.394
20	3.65	38	2.501	20	3.83	37.7	2.386	20	4.02	37.3	2.28
17	3.61	34.8	2.331	17	3.79	34.4	2.22	17	3.96	34	2.124
15	3.58	34	2.294	15	3.75	33.4	2.183	15	3.93	33.3	2.094
10	3.45	30.7	2.147	10	3.61	30.5	2.059	10	3.78	30.2	1.976
5	3.21	27.3	2.041	5	3.35	27.1	1.96	5	3.49	26.9	1.893
0	3.09	24.9	1.925	0	3.22	24.7	1.856	0	3.33	24.4	1.792
-5	3.76	22.5	1.813	-5	3.96	22.3	1.752	-5	4.16	22.1	1.698
-10	2.85	20.5	1.716	-10	2.94	20.3	1.666	-10	3.03	20.2	1.621
-15	2.72	18.6	1.626	-15	2.79	18.4	1.585	-15	2.86	18.2	1.547
-20	2.59	16.9	1.55	-20	2.64	16.7	1.518	-20	2.7	16.7	1.492

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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