

A7AC22V

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

RESIDENTIAL PRODUCT SPECIFICATIONS

2 to 5 Tons

SEER2 up to 22.9

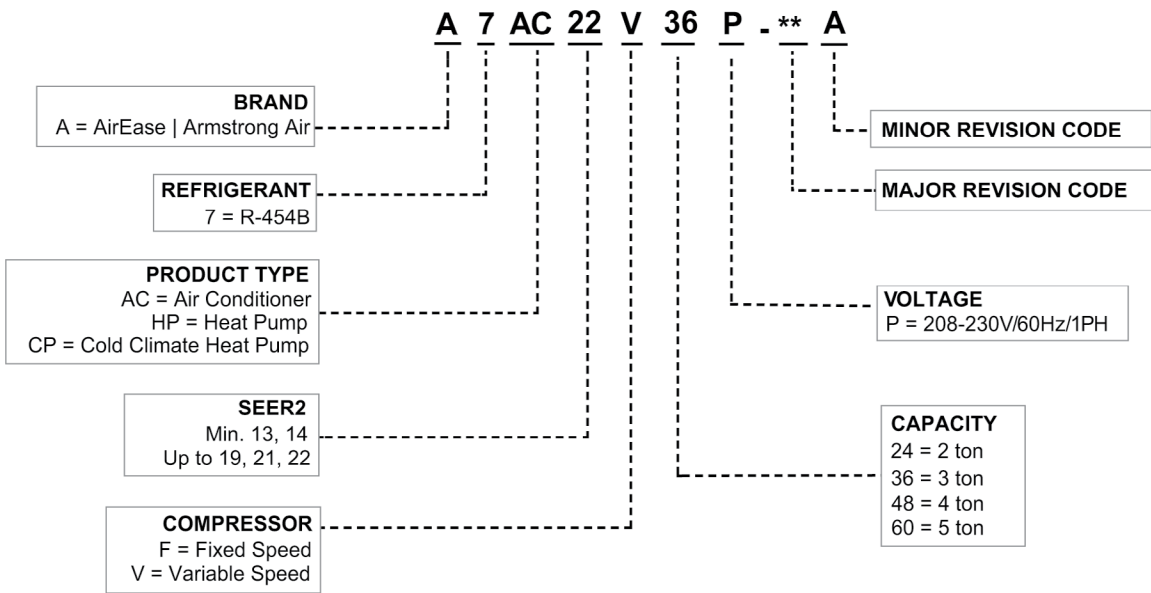
Cooling Capacity | 23,400 to 56,000 Btuh



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

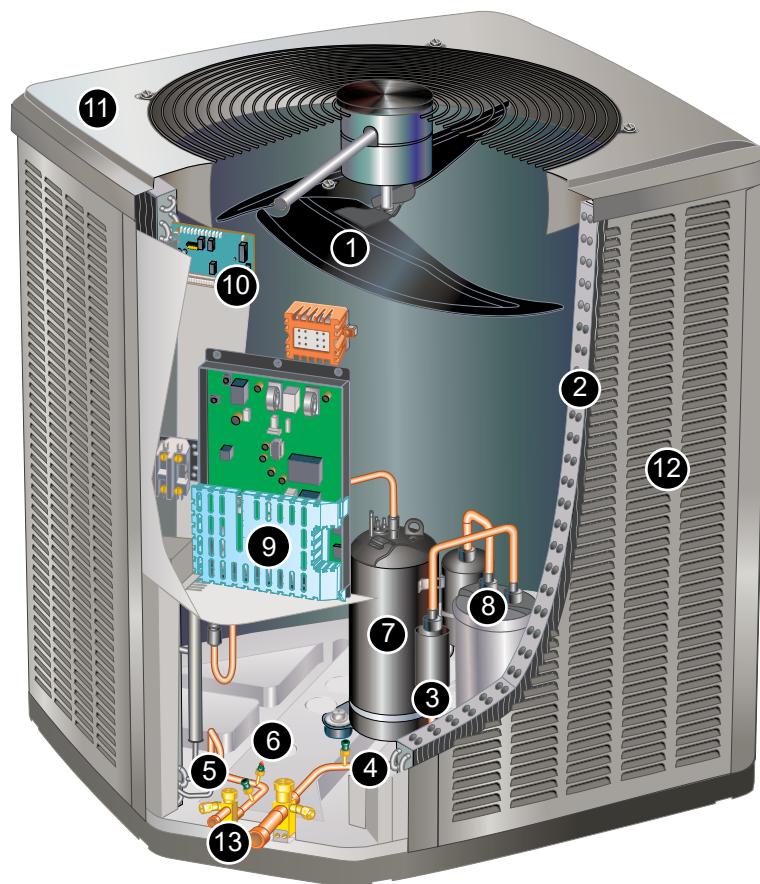


MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

1. Outdoor Coil Fan
2. Omniguard® Coil
3. High Capacity Suction Line Drier
4. Low Pressure Transducer
5. High Pressure Transducer
6. High Pressure Switch
7. Variable Capacity Compressor
8. Accumulator
9. DC Inverter Control
10. Communicating Control
11. Composite Unit Top and Base
12. Louvered Steel Coil Protection
13. 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 60 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

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

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, one-way drier

FEATURES

REFRIGERATION SYSTEM (continued)

- 4 Low Pressure Transducer**
 - Shuts off unit if suction pressure falls below setting
 - Provides loss of charge and freeze-up protection
 - Thread-on pressure transducers for simple, quick service
- 5 High Pressure Transducer**
 - Measures pressure in the liquid line
 - Pressure readings are used to calculate subcooling values to assist with charging
 - Thread-on pressure transducers for simple, quick service
- 6 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

Optional Accessories

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

Loss of Charge Switch Kit

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

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 sensor and a RDS control in the indoor unit
- If a refrigerant is detected the refrigerant detection system will prevent compressor and heating operation until a refrigerant is no longer detected
- Refrigeration detection system also energizes the blower if a refrigerant is detected to dissipate any concentrations of refrigerant from the conditioned space
- Refer to indoor unit Product Specifications documents for additional details

7 Variable Capacity 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

FEATURES

8 Accumulator

- Standard in all models

Compressor Crankcase Heater

- Crankcase heater prevents migration of liquid refrigerant into compressor and ensures proper compressor lubrication
- Factory Installed

Compressor Sound Dampening System

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

9 DC Inverter Control

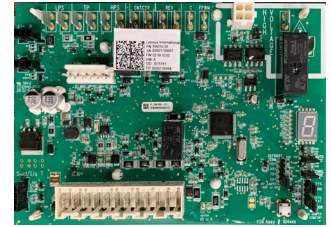
- Converts AC line voltage into filtered variable DC voltage
- Provides continuous compressor operation, while adjusting the capacity according to indoor temperature
- Adjusts compressor output in increments as small as 1%
- The accurate sensing of cooling load prevents frequent changes in capacity and 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)
- Integrated on the Communicating Control for 024 and 036 models
- Separate external inverter control for 048 and 060 models
- The inverter reactor (mounted separately) adds inductance to the line between the inverter and the compressor to limit current rise and protect the compressor



CONTROLS

10 Communicating Control

- Advanced control communicates information about various operating parameters in the air conditioner to the Communicating Thermostat to constantly maintain the highest level of comfort, performance and efficiency available
- **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 transducer monitoring with provisions for lockout
 - Five-Strike lockout protection protects compressor
 - Liquid line temperature and ambient 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 connection to the control. A two-stage or single-stage thermostat can be used.

Low Ambient Operation

- Air conditioner can operate down to 0°F outdoor air temperature

NOTE - A freezestat is recommended for extra protection during low ambient operation.

NOTE -When in non-communicating mode, the A7AC22V can operate in one of three modes which are chosen by modifying the Operation Mode Jumper on the OD control board.(See installation instructions for details).These modes are:

- Comfort: Provides highest dehumidification
- Normal
- Efficiency: Provides the highest efficiency

The factory default setting is the efficiency mode.

FEATURES

CONTROLS (continued)

NOTE - The A7AC22V Air Conditioner 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 wall plate furnished for easy installation



CABINET

- 11 • Composite unit base and top resists corrosion and reduce sound
 - Louvered steel panels surround unit on all four sides
 - Pre-painted finish for all metal surfaces
 - 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
 - Composite base raises the unit off of the mounting surface, away from damaging moisture
 - 12 • **Louvered Coil Protection**
 - Steel louvered panels provides complete coil protection
 - Lift-off panels are easily removed to allow easy cleaning and servicing of coils
- Refrigerant Line Connections, Electrical Inlets and Service Valves**
- Sweat connection suction and liquid lines
 - Located on corner of unit cabinet
 - Suction 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
- 13 • **Braze-Free/Press Fitting Flexibility**
 - Units can accommodate braze-free or press fittings for installation versatility

Optional Accessories

Stand-Off Guard-Edge Raiser Kit

- High density polyethylene feet raise unit off of mounting surface
- Available in 3 in. (76 mm) and 6 in. (152 mm) heights
- Four feet are furnished per order number

SPECIFICATIONS			ALL REGIONS				
Size			024	036	048	060	
Nominal Tonnage			2	3	4	5	
Sound Rating Number Range			dBA	60-68	61-73	62-76	63-75
Connections (Sweat)	Liquid line (OD) - in.		3/8	3/8	3/8	3/8	
	Suction line (OD) - in.		3/4	7/8	7/8	1-1/8	
Compressor Type			Variable Rotary	Variable Rotary	Variable Rotary	Variable Rotary	
Refrigerant	¹ R-454B charge furnished @ 15 FT		6 lbs. 10 ozs.	6 lbs. 11 ozs.	10 Lbs. 3 ozs.	10 Lbs. 7 ozs.	
	¹ R-454B charge furnished @ 30 FT		7 lbs. 3 ozs.	7 lbs. 4 ozs.	10 Lbs. 12 ozs.	11 Lbs. 0 ozs.	
Indoor Unit Expansion Valve (TXV)			26Z70	26Z70	26Z71	26Z72	
Outdoor Coil	Net face area - ft.²	Outer coil	26.24	26.24	26.24	26.24	
		Inner coil	- - -	- - -	25.49	25.49	
	Tube diameter - in.		5/16	5/16	5/16	5/16	
	Rows		1	1	2	2	
	Fins - in.		22	22	22	22	
	HP		1/3 (ECM)	1/3 (ECM)	1/3 (ECM)	1/3 (ECM)	
Outdoor Fan	Diameter - in.		28	28	28	28	
	Blades		2	2	2	2	
	Cfm - minimum speed		1630	1952	2216	3017	
		maximum speed	2900	4042	3556	4274	
	Rpm - minimum speed		275	334	372	495	
		maximum speed	492	672	577	715	
	Watts - minimum speed		14	22	30	60	
		maximum speed	55	113	84	141	
Shipping Data - lbs.			230	230	283	283	
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			20	35	40	50	
³ Minimum circuit ampacity (MCA)			15	21.5	26.4	30.4	
Compressor	Rated load amps		9.9	15.1	19	22.2	
Fan Motor	Full load amps		2.6	2.6	2.6	2.6	
OPTIONAL CONTROLS - ORDER SEPARATELY							
A3 Smart Wi-Fi Thermostat			1.841226	•	•	•	
OPTIONAL ACCESSORIES - ORDER SEPARATELY							
⁵ Freezestat	3/8 in.	93G35	•	•	•	•	
Stand-Off Guard-Edge	3 in. (76 mm)	27X34	•	•	•	•	
Raiser Kit	6 in. (152 mm)	27X35	•	•	•	•	

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 Freezestat is recommended for low ambient operation.

EXPANDED SOUND DATA

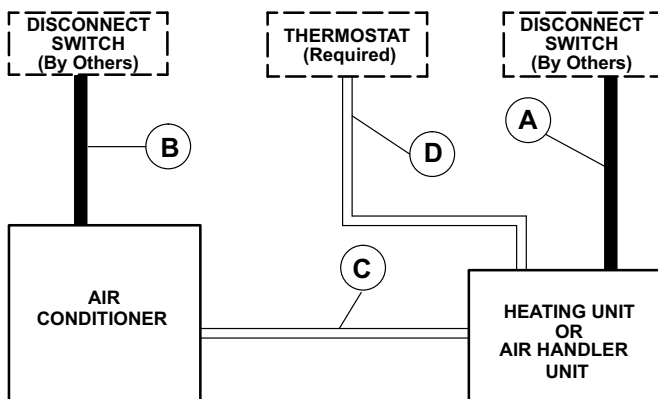
Size	Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - HZ							¹ Sound Rating Number (dBA)	² Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)				
	125	250	500	1000	2000	4000	8000		3	5	10	15	50
024 Min.	38.5	54.5	54.5	49	53	47	53	60	53	48	42	39	28
024 Max.	52	58.5	63	58.5	63.5	59	54	68	61	56	50	47	36
036 Min.	42	54	55.5	49	53	47	54	61	54	49	43	40	29
036 Max.	56.5	64	67	66	65.5	65	57	73	66	61	55	52	41
048 Min.	50.5	58	57.5	53.5	48.5	48	50	62	55	50	44	41	30
048 Max.	54	67.5	70	61.5	66.5	64.5	56.5	74	67	62	56	53	42
060 Min.	51	58	58.5	55.5	50.5	47	50	63	56	51	45	42	31
060 Max.	56	69	69	65.5	70	67.5	57.5	75	68	63	57	54	43

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), dB (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 Wire Power (see Electrical Data)

C - Comfort Sync® Thermostat:

- Four Wire, 18AWG (RSBus)

C - Conventional Thermostat:

- Four Wire Low Voltage, 18AWG

D - Comfort Sync® Thermostat:

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

D - Conventional Thermostat:

- Six Wire Low Voltage, 18AWG

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

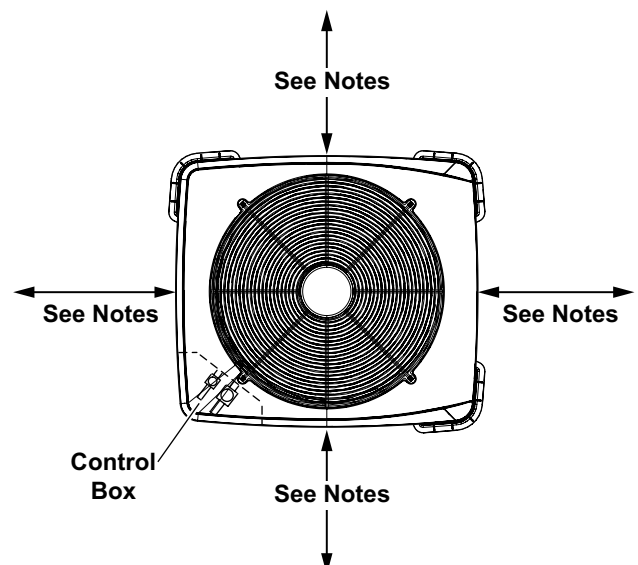
NOTE - Refer to the Comfort Sync® A3 Installation Instructions for optional wiring connections for communicating thermostats.

NOTE - Field wiring not furnished.

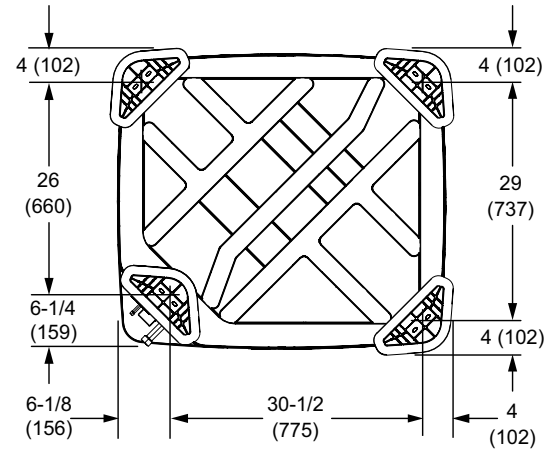
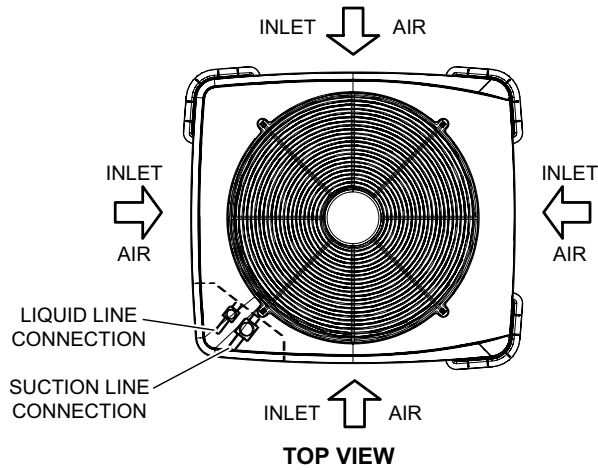
INSTALLATION CLEARANCES

NOTES:

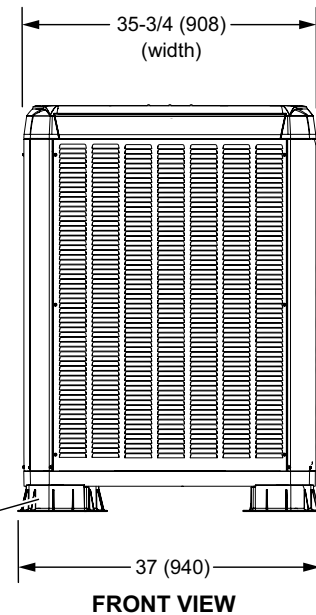
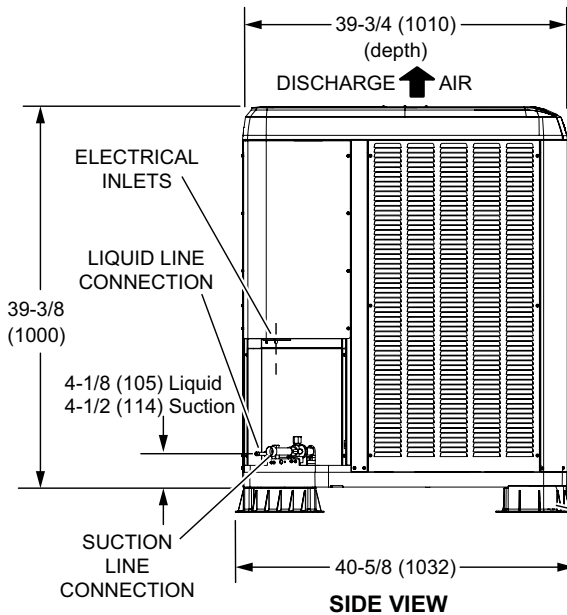
- Service Clearance – 30 in. (762 mm) on one of the sides adjacent to the Control Box.
- One of other three sides must be 36 in. (914 mm).
- One of the two remaining sides may be 12 in. (305 mm).
- The remaining side may be 6 in. (152 mm).
- 48 in. (1219 mm) clearance required on top of unit
- 24 in.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



DIMENSIONS - UNIT



BOTTOM VIEW BASE SECTION
(With Optional Standoff Kit)



¹ STAND-OFF
GUARD-EDGE
RAISER KIT (4)
(Field Installed)

¹ Adds 3 in. (76 mm) or
6 in. (152 mm) to unit height

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

Standard Ratings relating to cooling or heating capacities shall be net values, including the effects of circulating-fan heat, but not including supplementary electric heat. Power input used for calculating efficiency shall be the Total Power.

Standard Ratings of units which do not have indoor air-circulating fans furnished as part of the model, i.e., Coil-only System, shall be established by subtracting from the total cooling capacity 1,505 Btu/h per 1,000 SCFM, and by adding the same amount to the heating capacity for non-mobile-home, non-Space Constrained units. Total Power for both heating and cooling shall be increased by 441 W per 1,000 SCFM 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	5	26Z71	26Z72
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 down to 3.5 ton (042) systems.

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

A7AC22V24P - 7AH2AV24PXC [COOLING PERFORMANCE (MINIMUM CAPACITY)]

Outdoor	Indoor	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 Air Volume	Entering Wet Bulb Temperature	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			
		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	
A7AC22V24P	7AH2AV24PXC			330	10	0.34	0.99	1	1	9.6	0.43	1	1	1	9.2	0.51	1	1	1
			59°F (15°C)	430	10.8	0.33	1	1	1	10.4	0.42	1	1	1	9.9	0.51	1	1	1
				530	11.4	0.33	1	1	1	11	0.42	1	1	1	10.4	0.51	1	1	1
				330	10.2	0.34	0.8	0.96	1	9.6	0.43	0.82	0.99	1	9.2	0.51	0.85	1	1
			63°F (17.2°C)	430	10.8	0.33	0.89	1	1	10.4	0.42	0.92	1	1	9.9	0.51	0.95	1	1
			530	11.5	0.33	0.98	1	1	11	0.42	1	1	1	10.4	0.51	1	1	1	
			330	10.7	0.33	0.63	0.79	0.93	10.2	0.42	0.64	0.8	0.96	9.7	0.51	0.66	0.83	0.99	
		67°F (19.4°C)	430	11.2	0.33	0.69	0.87	1	10.7	0.42	0.7	0.9	1	10.1	0.51	0.72	0.93	1	
			530	11.6	0.33	0.75	0.96	1	11	0.42	0.77	0.99	1	10.5	0.51	0.79	1	1	
			330	11.3	0.33	0.47	0.62	0.76	10.8	0.42	0.48	0.63	0.79	10.2	0.51	0.48	0.65	0.8	
7AH2AV24PXC		71°F (21.7°C)	430	11.9	0.32	0.5	0.68	0.85	11.3	0.42	0.51	0.7	0.88	10.7	0.51	0.52	0.72	0.91	
			530	12.2	0.32	0.54	0.74	0.95	11.6	0.41	0.55	0.77	0.98	11	0.51	0.56	0.79	1	
														10.3	0.6	0.57	0.82	1	

A7AC22V24P - 7AH2AV24PXC [COOLING PERFORMANCE (INTERMEDIATE CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil										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)				
				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	80°F 26.7°C			85°F 29.4°C	Dry Bulb	75°F 23.9°C			80°F 26.7°C	85°F 29.4°C	Dry Bulb			75°F 23.9°C	80°F 26.7°C	85°F 29.4°C			Dry Bulb	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Dry Bulb	75°F 23.9°C
A7AC22V24P	7AH2AV24PXC			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
				400	0.67	0.94	1	1	13	0.78	0.97	1	1	12.4	0.9	1	1	1	11.7	1.02	1	1	1	10.9	1.15	1	1	1
		59°F (15°C)		500	0.66	1	1	1	14	0.78	1	1	1	13.4	0.91	1	1	1	12.6	1.03	1	1	1	11.7	1.16	1	1	1
				600	0.66	1	1	1	14.8	0.79	1	1	1	14	0.91	1	1	1	13.2	1.04	1	1	1	12.3	1.17	1	1	1
		63°F (17.2°C)		400	0.67	0.76	0.91	1	13.3	0.78	0.78	0.93	1	12.6	0.9	0.8	0.96	1	11.7	1.02	0.83	1	1	10.9	1.15	0.86	1	1
				500	0.66	0.82	0.99	1	14	0.78	0.84	1	1	13.4	0.91	0.88	1	1	12.6	1.03	0.91	1	1	11.7	1.16	0.95	1	1
				600	0.66	0.88	1	1	14.8	0.79	0.91	1	1	14	0.91	0.95	1	1	13.2	1.04	0.99	1	1	12.3	1.17	1	1	1
		67°F (19.4°C)		400	0.66	0.6	0.74	0.87	14.2	0.78	0.61	0.76	0.9	13.4	0.91	0.63	0.78	0.93	12.5	1.03	0.64	0.81	0.96	11.6	1.16	0.67	0.84	1
				500	0.66	0.64	0.81	0.95	14.8	0.79	0.66	0.82	0.98	13.9	0.91	0.67	0.85	1	13	1.03	0.69	0.89	1	12	1.16	0.72	0.93	1
				600	0.66	0.68	0.86	1	15.3	0.79	0.7	0.89	1	14.3	0.91	0.72	0.93	1	13.4	1.04	0.74	0.96	1	12.4	1.17	0.78	1	1
				400	0.66	0.46	0.59	0.71	15	0.79	0.47	0.6	0.73	14.1	0.91	0.47	0.61	0.75	13.3	1.04	0.48	0.63	0.78	12.2	1.17	0.49	0.66	0.81
		71°F (21.7°C)		500	0.66	0.48	0.63	0.78	15.6	0.79	0.49	0.65	0.8	14.7	0.91	0.49	0.66	0.83	13.8	1.04	0.51	0.69	0.87	12.8	1.17	0.52	0.71	0.91
				600	0.66	0.5	0.67	0.84	16	0.79	0.51	0.69	0.87	15.1	0.91	0.52	0.71	0.91	14.2	1.04	0.53	0.74	0.95	13.1	1.18	0.55	0.78	1

COOLING PERFORMANCE EXTENDED RATINGS

A7AC22V24P - 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)						105° F (40.6° C)						Sensible To Total Ratio (S/T)						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)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)			
						Dry Bulb	80°F 26.7°C	85°F 29.4°C			Dry Bulb	75°F 23.9°C	80°F 26.7°C			85°F 29.4°C	Dry Bulb	75°F 23.9°C			80°F 26.7°C	85°F 29.4°C	Dry Bulb			75°F 23.9°C	80°F 26.7°C	85°F 29.4°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	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	
A7AC22V24P	7AH2AV24PXC	59°F (15°C)	710	22.3	1.16	0.95	1	1	21.4	1.34	0.98	1	1	19.5	1.71	1	1	1	18.3	1.9	1	1	1	1	1	1	1	1	1
			810	23.1	1.16	1	1	22.2	1.34	1	1	21.2	1.53	1	1	20.2	1.72	1	1	19	1.92	1	1	1	1	1	1	1	
			910	23.9	1.16	1	1	22.9	1.35	1	1	21.9	1.54	1	1	20.9	1.73	1	1	19.6	1.93	1	1	1	1	1	1	1	
		710	22.8	1.16	0.77	0.92	1	21.7	1.34	0.79	0.94	1	20.7	1.52	0.81	0.97	1	19.5	1.71	0.83	1	1	1	1	1	1	1	1	
		810	23.4	1.16	0.81	0.97	1	22.3	1.34	0.83	0.99	1	21.2	1.53	0.85	1	1	20.2	1.72	0.88	1	1	1	1	1	1	1	1	
		910	24	1.16	0.84	1	1	23	1.35	0.86	1	1	21.9	1.54	0.89	1	1	20.9	1.73	0.92	1	1	1	1	1	1	1	1	
		710	24.1	1.16	0.61	0.75	0.89	23	1.35	0.62	0.77	0.91	21.9	1.54	0.63	0.79	0.94	20.7	1.73	0.64	0.81	0.97	19.3	1.92	0.66	0.84	1		
		810	24.7	1.16	0.63	0.79	0.94	23.6	1.35	0.64	0.81	0.96	22.4	1.54	0.65	0.83	0.99	21.2	1.73	0.67	0.86	1	19.7	1.93	0.69	0.89	1		
		910	25.2	1.16	0.66	0.82	0.98	24.1	1.35	0.66	0.84	1	22.8	1.54	0.67	0.87	1	21.6	1.74	0.7	0.9	1	20.1	1.93	0.73	0.94	1		
		710	25.4	1.16	0.46	0.59	0.73	24.3	1.36	0.47	0.61	0.74	23.2	1.55	0.47	0.62	0.77	21.9	1.74	0.48	0.63	0.79	20.4	1.94	0.49	0.65	0.82		
810	26.1	1.17	0.48	0.62	0.76	24.9	1.36	0.47	0.63	0.79	23.8	1.55	0.49	0.65	0.81	22.3	1.75	0.5	0.66	0.83	20.8	1.95	0.5	0.69	0.87				
910	26.6	1.17	0.49	0.64	0.8	25.4	1.36	0.49	0.66	0.82	24.1	1.55	0.51	0.68	0.85	22.7	1.75	0.51	0.69	0.88	21.2	1.95	0.52	0.72	0.92				

COOLING PERFORMANCE EXTENDED RATINGS

A7AC22V36P - 7AH2AV36PXC [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	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		
A7AC22V36P	7AH2AV36PXC	59°F (15°C)	450	11.3	0.31	1	1	1	10.8	0.4	1	1	1	10.3	0.49	1	1	1	9.8	0.58	1	1	1		
			530	11.8	0.31	1	1	1	11.3	0.4	1	1	1	10.7	0.49	1	1	1	10.2	0.58	1	1	1		
		63°F (17.2°C)	600	12.1	0.31	1	1	1	11.6	0.4	1	1	1	11	0.49	1	1	1	10.4	0.58	1	1	1		
			450	11.3	0.31	0.92	1	1	10.8	0.4	0.95	1	1	10.3	0.49	0.98	1	1	9.8	0.58	1	1	1		
		67°F (19.4°C)	530	11.8	0.31	0.98	1	1	11.3	0.4	1	1	1	10.7	0.49	1	1	1	10.2	0.58	1	1	1		
			600	12.1	0.31	1	1	1	11.6	0.4	1	1	1	11	0.49	1	1	1	10.4	0.58	1	1	1		
		71°F (21.7°C)	450	11.6	0.31	0.7	0.9	1	11.1	0.4	0.72	0.93	1	10.5	0.49	0.74	0.96	1	9.8	0.58	0.77	0.99	1		
			530	11.9	0.31	0.75	0.97	1	11.3	0.4	0.77	1	1	10.8	0.49	0.8	1	1	10.2	0.58	0.82	1	1		
					600	12.1	0.31	0.79	1	1	11.6	0.4	0.81	1	1	11	0.49	0.84	1	1	10.4	0.58	0.88	1	1
					450	12.3	0.3	0.51	0.7	0.88	11.7	0.4	0.52	0.72	0.9	11.1	0.49	0.53	0.74	0.94	10.4	0.58	0.54	0.76	0.98
			530	12.5	0.3	0.53	0.74	0.95	11.9	0.4	0.54	0.77	0.98	11.3	0.49	0.56	0.79	1	10.6	0.58	0.57	0.82	1		
			600	12.7	0.3	0.55	0.79	1	12.1	0.4	0.57	0.81	1	11.5	0.49	0.58	0.84	1	10.7	0.58	0.6	0.88	1		

A7AC22V36P - 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)								
				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)			Total Cooling Capacity	Comp. Motor Input	Sensible To Total Ratio (S/T)									
						Dry Bulb	80°F 26.7°C	85°F 29.4°C			Dry Bulb	80°F 26.7°C	85°F 29.4°C			Dry Bulb	80°F 26.7°C	85°F 29.4°C			Dry Bulb	80°F 26.7°C	85°F 29.4°C			Dry Bulb	80°F 26.7°C	85°F 29.4°C			Dry Bulb	80°F 26.7°C	85°F 29.4°C	Dry Bulb	80°F 26.7°C	85°F 29.4°C	Dry Bulb	80°F 26.7°C	85°F 29.4°C	
A7AC22V36P	7AH2AV36PXC	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	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			
			630	18.5	0.79	1	1	1	17.6	0.94	1	1	1	16.8	1.09	1	1	1	15.9	1.24	1	1	1	14.9	1.39	1	1	1	1	1	1	1	1	1	1	1	1			
			780	19.5	0.79	1	1	1	18.7	0.94	1	1	1	17.8	1.09	1	1	1	16.8	1.24	1	1	1	15.7	1.4	1	1	1	1	1	1	1	1	1	1	1	1	1		
			930	20.4	0.78	1	1	1	19.5	0.94	1	1	1	18.6	1.09	1	1	1	17.5	1.25	1	1	1	16.3	1.41	1	1	1	1	1	1	1	1	1	1	1	1	1		
			630	18.6	0.79	0.83	0.99	1	17.6	0.94	0.85	1	1	16.8	1.09	0.88	1	1	15.9	1.24	0.91	1	1	14.9	1.39	0.95	1	1	1	1	1	1	1	1	1	1	1	1		
			780	19.6	0.79	0.9	1	1	18.7	0.94	0.93	1	1	17.8	1.09	0.96	1	1	16.8	1.24	1	1	1	15.7	1.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			930	20.4	0.78	0.97	1	1	19.5	0.94	1	1	1	18.6	1.09	1	1	1	17.5	1.25	1	1	1	16.3	1.41	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
			630	19.5	0.79	0.64	0.81	0.96	18.6	0.94	0.66	0.83	0.99	17.5	1.09	0.68	0.86	1	16.4	1.24	0.69	0.89	1	15.3	1.4	0.72	0.93	1	1	1	1	1	1	1	1	1	1	1	1	
			780	20.2	0.79	0.69	0.88	1	19.2	0.94	0.71	0.91	1	18.1	1.09	0.73	0.94	1	17	1.24	0.76	0.98	1	15.8	1.4	0.79	1	1	1	1	1	1	1	1	1	1	1	1	1	1
			930	20.7	0.78	0.74	0.96	1	19.6	0.94	0.76	0.99	1	18.6	1.09	0.79	1	1	17.6	1.25	0.82	1	1	16.3	1.41	0.86	1	1	1	1	1	1	1	1	1	1	1	1	1	1
A7AC22V36P	7AH2AV36PXC	71°F (21.7°C)	630	20.6	0.78	0.48	0.64	0.79	19.6	0.94	0.49	0.65	0.81	18.6	1.09	0.49	0.66	0.83	17.5	1.25	0.51	0.69	0.87	16.3	1.41	0.52	0.71	0.91	1	1	1	1	1	1	1	1	1			
			780	21.3	0.78	0.5	0.69	0.87	20.2	0.94	0.52	0.7	0.89	19.2	1.09	0.53	0.73	0.93	18	1.25	0.54	0.75	0.96	16.7	1.41	0.55	0.79	1	1	1	1	1	1	1	1	1				
			930	21.8	0.78	0.54	0.74	0.94	20.7	0.94	0.55	0.75	0.97	19.6	1.09	0.56	0.78	1	18.3	1.25	0.57	0.81	1	17	1.41	0.59	0.86	1	1	1	1	1	1	1	1	1	1			

COOLING PERFORMANCE EXTENDED RATINGS

A7AC22V36P - 7AH2AV36PXC [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)									
						Dry Bulb	80°F 26.7°C	85°F 29.4°C			Dry Bulb	75°F 23.9°C	80°F 26.7°C			85°F 29.4°C	Dry Bulb	75°F 23.9°C			80°F 26.7°C	85°F 29.4°C	Dry Bulb	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C				
A7AC22V36P	7AH2AV36PXC	59°F (15°C)	cfm	kBtuh	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Total Cooling Capacity	Comp. Motor Input	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Total Cooling Capacity	Comp. Motor Input	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Total Cooling Capacity	Comp. Motor Input	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Total Cooling Capacity	Comp. Motor Input	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C		
			1050	32.1	1.87	0.96	1	1	1	31	2.14	0.98	1	1	1	29.8	2.39	1	1	1	28.1	2.62	1	1	1	26.4	2.85	1	1	1
			1200	33.3	1.88	1	1	1	32.2	2.15	1	1	1	1	30.7	2.4	1	1	1	29.3	2.64	1	1	1	27.5	2.86	1	1	1	
		63°F (17.2°C)	1350	34.6	1.89	1	1	1	33.1	2.16	1	1	1	1	31.6	2.41	1	1	1	30	2.65	1	1	1	28.2	2.87	1	1	1	
			1050	32.9	1.88	0.78	0.93	1	31.5	2.14	0.79	0.95	1	29.8	2.39	0.81	0.98	1	28.2	2.62	0.84	1	1	26.5	2.85	0.87	1	1	1	
			1200	33.8	1.89	0.81	0.98	1	32.2	2.15	0.84	1	1	30.7	2.4	0.86	1	1	29.2	2.64	0.89	1	1	27.5	2.86	0.93	1	1	1	
		67°F (19.4°C)	1350	34.5	1.89	0.85	1	1	33.1	2.16	0.87	1	1	31.6	2.41	0.9	1	1	30	2.65	0.93	1	1	28.2	2.87	0.98	1	1	1	
			1050	34.7	1.89	0.61	0.76	0.9	33.2	2.16	0.62	0.77	0.93	31.6	2.41	0.63	0.79	0.95	29.8	2.64	0.65	0.82	0.99	27.7	2.86	0.67	0.85	1	1	
			1200	35.6	1.9	0.63	0.79	0.95	34	2.16	0.65	0.81	0.97	32.4	2.42	0.67	0.84	1	30.4	2.65	0.68	0.87	1	28.1	2.87	0.71	0.91	1	1	
		71°F (21.7°C)	1350	36.2	1.9	0.66	0.83	1	34.5	2.17	0.68	0.86	1	32.8	2.42	0.69	0.88	1	30.7	2.66	0.71	0.91	1	28.5	2.87	0.73	0.96	1	1	
			1050	36.5	1.9	0.46	0.6	0.73	35.1	2.17	0.47	0.61	0.76	33.2	2.43	0.47	0.63	0.77	31.3	2.66	0.48	0.64	0.8	29.2	2.88	0.49	0.66	0.83	0.89	
			1200	37.5	1.91	0.47	0.63	0.77	35.8	2.18	0.48	0.64	0.8	33.9	2.43	0.48	0.65	0.82	32	2.67	0.49	0.68	0.85	29.7	2.89	0.51	0.7	0.89	0.94	
			1350	38.3	1.92	0.49	0.65	0.81	36.4	2.19	0.49	0.67	0.83	34.6	2.44	0.5	0.69	0.86	32.5	2.67	0.51	0.71	0.9	30.2	2.89	0.53	0.73	0.94	0.94	

A7AC22V48P - 7AH2AV48PXC [COOLING PERFORMANCE (MINIMUM CAPACITY)]

Outdoor	Indoor	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	80°F 26.7°C	85°F 29.4°C			Dry Bulb	75°F 23.9°C	80°F 26.7°C			85°F 29.4°C	Dry Bulb	75°F 23.9°C			80°F 26.7°C	85°F 29.4°C	Dry Bulb	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C			
A7AC22V48P	7AH2AV48PXC	Total Air Volume	Entering Wet Bulb Temperature	cfm	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Total Cooling Capacity	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Total Cooling Capacity	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	Total Cooling Capacity	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C
					760	19.8	0.62	1	1	1	19.1	0.76	1	1	18.3	0.9	1	1	1	17.3	1.05	1	1	1	1	1	1
		900	20.8	0.61	1	1	1	19.9	0.75	1	1	19	0.9	1	1	1	18	1.05	1	1	1	1	1	1	1	1	1
		960	21.1	0.61	1	1	1	20.2	0.75	1	1	19.3	0.9	1	1	1	18.3	1.05	1	1	1	1	1	1	1	1	1
		760	19.8	0.62	0.88	1	1	19.1	0.76	0.91	1	18.3	0.9	0.94	1	1	17.3	1.05	0.97	1	1	1	1	1	1	1	1
		900	20.8	0.61	0.94	1	1	19.9	0.75	0.98	1	19	0.9	1	1	1	18	1.05	1	1	1	1	1	1	1	1	1
		960	21.1	0.61	0.97	1	1	20.2	0.75	1	1	19.3	0.9	1	1	1	18.4	1.05	1	1	1	1	1	1	1	1	1
		760	20.6	0.61	0.68	0.86	1	19.6	0.76	0.69	0.89	1	18.7	0.9	0.71	0.91	1	17.6	1.05	0.73	0.95	1	1	1	1	1	1
		900	21.2	0.61	0.72	0.93	1	20.2	0.75	0.74	0.95	1	19.2	0.9	0.76	0.99	1	18.1	1.05	0.79	1	1	1	1	1	1	1
		960	21.3	0.61	0.73	0.96	1	20.4	0.75	0.76	0.98	1	19.4	0.9	0.78	1	1	18.3	1.05	0.81	1	1	1	1	1	1	1
71°F (21.7°C)		760	21.7	0.6	0.5	0.67	0.84	0.91	0.91	20.7	0.75	0.51	0.69	0.86	0.97	19.7	0.9	0.51	0.7	0.89	1	18.6	1.05	0.52	0.73	0.93	
		900	22.3	0.6	0.51	0.71	0.91	0.91	0.91	21.3	0.74	0.52	0.74	0.93	0.97	20.2	0.89	0.54	0.75	0.97	1	19.1	1.04	0.55	0.78	1	
		960	22.5	0.59	0.54	0.74	0.94	0.94	0.94	21.5	0.74	0.54	0.75	0.97	0.97	20.4	0.89	0.55	0.78	1	1	19.2	1.04	0.56	0.8	1	

A7AC22V48P - 7AH2AV48PXC [COOLING PERFORMANCE (INTERMEDIATE CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil										125° F (51.7° C)																
				85° F (29.4° C)					95° F (35° C)					105° F (40.6° C)					115° F (46.1° 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									
			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	Dry Bulb	85°F 29.4°C	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C					
A7AC22V48P	7AH2AV48PXC	59°F (15°C)	900	271	1.28	0.99	1	1	1	25.8	1.49	1	1	1	24.6	1.7	1	1	1	23.3	1.93	1	1	1	21.8	2.16	1	1	1	
			1070	28.5	1.28	1	1	1	1	1	26	1.71	1	1	1	24.5	1.94	1	1	1	22.8	2.17	1	1	1	1	1			
			1270	29.8	1.28	1	1	1	1	1	27.2	1.72	1	1	1	25.6	1.95	1	1	1	23.9	2.18	1	1	1	1	1			
		900	275	1.28	0.8	0.96	1	1	1	25.9	1.49	0.82	0.99	1	24.7	1.71	0.85	1	1	23.3	1.93	0.88	1	1	21.8	2.16	0.92	1	1	
		1070	28.5	1.28	0.86	1	1	1	1	27.2	1.49	0.88	1	1	26	1.71	0.91	1	1	24.5	1.94	0.94	1	1	22.8	2.17	0.99	1	1	
		1270	29.9	1.28	0.91	1	1	1	1	28.7	1.5	0.94	1	1	27.2	1.72	0.97	1	1	25.6	1.95	1	1	1	23.9	2.18	1	1	1	
		900	291	1.28	0.63	0.78	0.93	0.93	0.96	26.1	1.49	0.64	0.8	0.96	26.1	1.71	0.65	0.82	0.99	24.2	1.94	0.67	0.86	1	22.4	2.17	0.7	0.9	1	
		1070	29.9	1.28	0.66	0.83	0.99	0.99	0.85	1	28.6	1.49	0.67	0.85	1	26.9	1.72	0.69	0.88	1	24.9	1.94	0.72	0.93	1	23	2.18	0.75	0.97	1
		1270	30.7	1.28	0.7	0.89	1	1	0.92	1	29.3	1.5	0.71	0.92	1	27.4	1.72	0.74	0.96	1	25.6	1.95	0.77	1	1	23.8	2.18	0.8	1	1
		77°F (21.7°C)	900	30.4	1.28	0.47	0.61	0.76	0.63	0.78	27.4	1.72	0.48	0.64	0.8	25.7	1.95	0.49	0.67	0.83	23.8	2.18	0.5	0.69	0.87	21.8	2.19	0.53	0.74	0.95
1070	31.3		1.28	0.49	0.65	0.81	0.67	0.83	28.3	1.72	0.5	0.69	0.87	26.4	1.95	0.51	0.71	0.9	24.4	2.19	0.53	0.74	0.95	21.8	2.19	0.53	0.74	0.95		
1270	32.3		1.27	0.51	0.69	0.87	0.71	0.9	30.7	1.5	0.52	0.71	0.94	28.9	1.73	0.52	0.73	0.94	26.8	1.96	0.54	0.77	0.98	25	2.2	0.55	0.8	1		

COOLING PERFORMANCE EXTENDED RATINGS

A7AC22V48P - 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)					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
A7AC22V48P	7AH2AV48PXC	59°F (15°C)	cfm																									
			1400	43.2	2.57	0.95	1	1	41.3	2.9	0.97	1	1	39.6	3.25	0.99	1	1	37.7	3.6	1	1	1	35.7	3.96	1	1	1
			1600	44.7	2.58	0.99	1	1	43	2.92	1	1	41.1	3.27	1	1	1	39.1	3.62	1	1	1	37	3.99	1	1	1	
			1800	46.1	2.6	1	1	1	44.2	2.94	1	1	42.3	3.29	1	1	1	40.4	3.65	1	1	1	38.1	4.01	1	1	1	
			1400	44.2	2.58	0.77	0.92	1	42.2	2.92	0.78	0.94	1	40.4	3.26	0.8	0.96	1	38.2	3.61	0.82	0.99	1	35.7	3.96	0.85	1	1
		63°F (17.2°C)	1600	45.3	2.59	0.8	0.96	1	43.2	2.93	0.82	0.99	1	41.1	3.27	0.84	1	1	39.1	3.63	0.86	1	1	37	3.99	0.9	1	1
			1800	46.3	2.6	0.83	1	1	44.3	2.94	0.85	1	1	42.4	3.29	0.88	1	1	40.4	3.65	0.91	1	1	38.1	4.01	0.95	1	1
			1400	46.5	2.6	0.6	0.74	0.88	44.4	2.94	0.61	0.76	0.91	42.2	3.29	0.63	0.78	0.93	40	3.64	0.64	0.8	0.96	37.6	4	0.65	0.83	1
			1600	47.7	2.61	0.62	0.78	0.93	45.6	2.95	0.63	0.8	0.95	43.3	3.3	0.65	0.82	0.98	41	3.66	0.67	0.85	1	38.1	4.01	0.68	0.88	1
			1800	48.6	2.62	0.65	0.81	0.97	46.5	2.96	0.66	0.83	1	44.2	3.31	0.67	0.85	1	41.5	3.67	0.69	0.89	1	38.9	4.03	0.71	0.92	1
71°F (21.7°C)	1400	48.8	2.62	0.46	0.59	0.72	46.7	2.97	0.46	0.59	0.74	44.5	3.32	0.47	0.61	0.76	41.9	3.67	0.47	0.64	0.78	39.3	4.04	0.48	0.65	0.81		
	1600	50	2.63	0.47	0.61	0.76	47.8	2.98	0.47	0.62	0.78	45.2	3.33	0.48	0.64	0.8	42.7	3.69	0.48	0.66	0.82	40.2	4.05	0.49	0.68	0.86		
			1800	51	2.63	0.48	0.64	0.8	48.4	2.98	0.48	0.65	0.81	46.1	3.34	0.48	0.67	0.84	43.6	3.7	0.5	0.68	0.87	40.8	4.06	0.52	0.7	0.91

A7AC22V60P - 7AH2AV60PXC [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)		Total Cooling Capacity	Comp. Motor Input							
					Dry Bulb	85°F 29.4°C			Dry Bulb	80°F 26.7°C			75°F 23.9°C	Dry Bulb			85°F 29.4°C	Dry Bulb	80°F 26.7°C	75°F 23.9°C	Dry Bulb	85°F 29.4°C	
A7AC22V60P	7AH2AV60PXC	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					
				880	21.5	0.56	1	1	1	20.7	0.69	1	1	1	1	18.9	0.98	1	1	1			
			980	22.1	0.55	1	1	1	21.2	0.69	1	1	1	1	1	19.3	0.98	1	1	1			
			1130	22.9	0.54	1	1	1	21.9	0.68	1	1	1	1	1	20	0.97	1	1	1			
			880	21.5	0.56	0.9	1	1	20.8	0.69	0.93	1	1	19.8	0.84	0.96	1	18.9	0.98	1			
			980	22.1	0.55	0.94	1	1	21.2	0.69	0.97	1	1	20.3	0.83	1	1	19.3	0.98	1			
			1130	22.9	0.54	1	1	1	22	0.68	1	1	1	21	0.83	1	1	20	0.97	1			
			880	22.1	0.55	0.69	0.89	1	21.2	0.69	0.71	0.91	1	20.1	0.83	0.73	0.94	1	19	0.98	1		
			980	22.5	0.54	0.72	0.92	1	21.4	0.69	0.74	0.95	1	20.4	0.83	0.76	0.98	1	19.4	0.98	1		
			1130	23	0.54	0.76	0.98	1	22	0.68	0.78	1	1	21	0.83	0.81	1	20	0.97	1			
A7AC22V60P	7AH2AV60PXC	67°F (19.4°C)	880	23.3	0.53	0.51	0.69	0.86	22.2	0.68	0.52	0.71	0.89	21.2	0.83	0.53	0.72	0.92	20	0.97	0.53	0.75	0.96
			980	23.7	0.53	0.52	0.71	0.9	22.5	0.68	0.54	0.73	0.93	21.5	0.82	0.55	0.76	0.96	20.3	0.97	0.55	0.78	1
			1130	24.1	0.52	0.54	0.76	0.96	23	0.67	0.55	0.78	1	21.8	0.82	0.56	0.81	1	20.6	0.97	0.58	0.84	1
			880	23.3	0.53	0.51	0.69	0.86	22.2	0.68	0.52	0.71	0.89	21.2	0.83	0.53	0.72	0.92	20	0.97	0.53	0.75	0.96

A7AC22V60P - 7AH2AV60PXC [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)		Total Cooling Capacity	Comp. Motor Input				
						Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb						
A7AC22V60P	7AH2AV60PXC	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		
				30.5	1.47	0.96	1	1	29.4	1.71	0.99	1	1	28	1.95	1	1	26.8	2.2	1	1	25.3	2.45	1	1
			1140	32.1	1.47	1	1	30.9	1.71	1	1	29.5	1.96	1	1	28	2.21	1	1	26.2	2.47	1	1	1	
			1390	34	1.48	1	1	32.4	1.72	1	1	31.1	1.97	1	1	29.3	2.22	1	1	27.5	2.49	1	1	1	
			980	31.2	1.47	0.78	0.93	1	29.8	1.71	0.8	0.96	1	28.2	1.95	0.83	0.99	1	26.8	2.2	2.45	0.89	1	1	
			1140	32.3	1.47	0.82	0.98	1	30.9	1.71	0.85	1	1	29.5	1.96	0.87	1	1	28.1	2.21	2.47	0.94	1	1	
			1390	34	1.48	0.88	1	1	32.4	1.72	0.91	1	1	31.1	1.97	0.94	1	1	29.3	2.22	2.49	1	1	1	
			980	32.9	1.47	0.62	0.76	0.9	31.4	1.71	0.63	0.78	0.92	29.6	1.96	0.65	0.8	0.96	28.1	2.21	2.47	0.68	0.86	1	
			1140	33.9	1.48	0.65	0.8	0.96	32.2	1.72	0.66	0.83	0.98	30.7	1.96	0.68	0.85	1	28.7	2.22	2.47	0.72	0.93	1	
			1390	35.1	1.48	0.68	0.86	1	33.2	1.72	0.7	0.9	1	31.5	1.97	0.72	0.93	1	29.6	2.23	2.49	0.77	1	1	
A7AC22V60P	7AH2AV60PXC	71°F (21.7°C)	980	34.6	1.48	0.47	0.61	0.74	32.9	1.72	0.47	0.62	0.76	31.2	1.97	0.48	0.64	0.78	29.4	2.22	2.48	0.5	0.67	0.84	
			1140	35.5	1.48	0.48	0.64	0.78	33.9	1.72	0.49	0.65	0.8	32.1	1.97	0.5	0.67	0.83	30.2	2.23	2.49	0.52	0.71	0.9	
		1390	36.7	1.48	0.51	0.68	0.84	35	1.73	0.51	0.69	0.87	33.1	1.98	0.52	0.71	0.91	31.1	2.24	2.5	0.55	0.77	0.99		

COOLING PERFORMANCE EXTENDED RATINGS

A7AC22V60P - 7AH2AV60PXC [COOLING PERFORMANCE (MAXIMUM CAPACITY)]

Outdoor	Indoor	Entering Wet Bulb Temperature	Total Air Volume	Outdoor Air Temperature Entering Outdoor Coil												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	80°F 26.7°C	85°F 29.4°C			Dry Bulb	75°F 23.9°C	80°F 26.7°C			85°F 29.4°C	Dry Bulb	75°F 23.9°C			80°F 26.7°C	85°F 29.4°C	Dry Bulb	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C		
A7AC22V60P	7AH2AV60PXC	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	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C
			1520	50.3	3.3	0.91	1	1	48.6	3.71	0.93	1	1	46.5	4.12	0.95	1	1	44.7	4.55	0.98	1	1	42.3	4.99	1	1	1
			1770	52.7	3.34	0.95	1	1	50.8	3.74	0.98	1	1	48.9	4.16	0.99	1	1	46.4	4.59	1	1	1	44	5.04	1	1	1
			2020	54.7	3.36	0.99	1	1	52.4	3.77	1	1	1	50.3	4.19	1	1	1	48	4.62	1	1	1	45.7	5.08	1	1	1
			1520	52.2	3.33	0.74	0.87	1	50	3.73	0.75	0.89	1	47.9	4.14	0.77	0.92	1	45.2	4.56	0.79	0.95	1	42.8	5.01	0.81	0.98	1
			1770	53.8	3.35	0.77	0.92	1	51.3	3.75	0.79	0.95	1	49.3	4.17	0.81	0.97	1	46.5	4.59	0.83	1	1	44	5.04	0.86	1	1
			2020	55	3.36	0.8	0.97	1	52.6	3.77	0.82	0.99	1	50.3	4.19	0.84	1	1	48	4.62	0.87	1	1	45.8	5.08	0.9	1	1
			1520	54.5	3.36	0.59	0.72	0.84	52.5	3.77	0.6	0.73	0.86	50.1	4.19	0.61	0.75	0.89	47.6	4.61	0.62	0.77	0.91	44.7	5.06	0.63	0.79	0.95
			1770	56.6	3.38	0.61	0.75	0.89	53.9	3.79	0.62	0.77	0.91	51.4	4.21	0.63	0.79	0.95	48.8	4.64	0.65	0.81	0.97	46.1	5.09	0.66	0.83	1
			2020	57.6	3.39	0.63	0.79	0.94	55.1	3.81	0.64	0.8	0.96	52.6	4.23	0.65	0.83	0.99	49.8	4.66	0.67	0.85	1	46.8	5.1	0.69	0.88	1
			1520	57.4	3.39	0.45	0.58	0.7	54.8	3.8	0.45	0.59	0.71	52.4	4.23	0.46	0.6	0.73	49.8	4.66	0.47	0.61	0.75	47	5.1	0.47	0.62	0.77
			1770	58.9	3.4	0.46	0.6	0.73	56.4	3.82	0.47	0.61	0.75	53.9	4.25	0.47	0.62	0.77	51	4.68	0.47	0.64	0.79	48.1	5.13	0.48	0.65	0.82
			2020	60.3	3.42	0.47	0.63	0.77	57.8	3.84	0.48	0.64	0.79	55.1	4.27	0.49	0.65	0.81	52.3	4.7	0.49	0.67	0.83	49.1	5.15	0.5	0.69	0.86

REVISIONS

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



Contact us at 1-800-448-5872

NOTE - Due to Allied Air's ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency.

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