

HEAT PUMP OUTDOOR UNITS

A7SCP18V

Cold Climate | Variable Capacity | Side Discharge | R-454B | 60Hz

RESIDENTIAL PRODUCT SPECIFICATIONS

SEER2 up to 19.0

HSPF2 up to 10.0

2 to 5 Tons

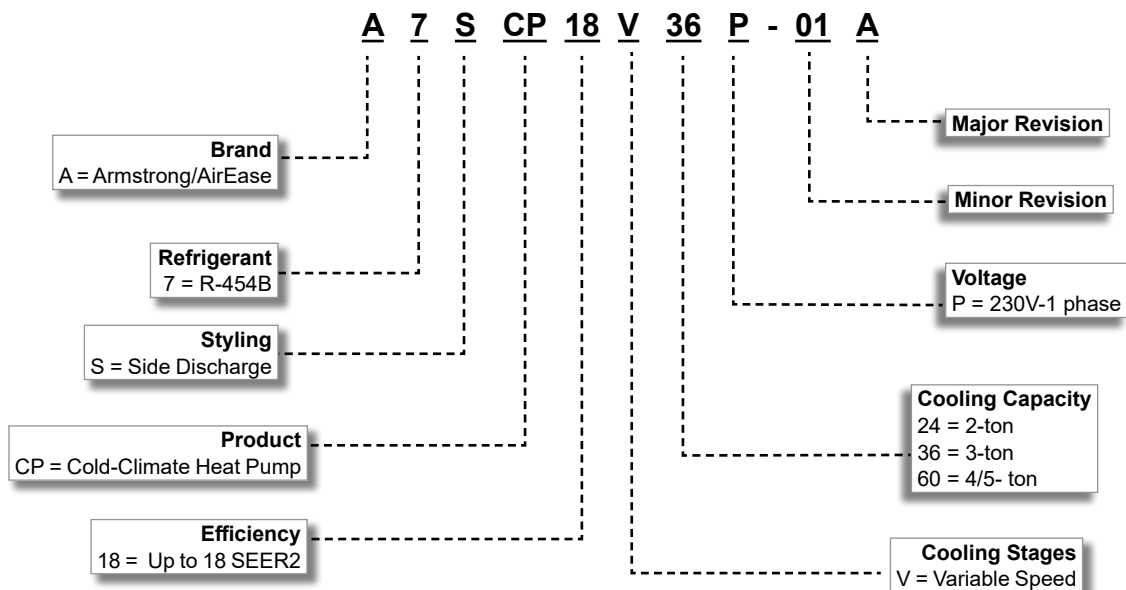


A7SCP18V36
(A7SCP18V24 not shown)



A7SCP18V60

MODEL NUMBER IDENTIFICATION



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APPROVALS AND WARRANTY

APPROVALS

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

WARRANTY

- 10-years limited warranty on all parts,extended warranty available.
- Coverage (Standard 5-year limited parts warranty plus an additional 5-year limited extended parts warranty).
- Warranty must be registered online within 60 days of installation to qualify for 10-year coverage.
- Unregistered equipment defaults to 5-year coverage.
- See full warranty at www.alliedair.com for terms, conditions, and exclusions.

FEATURES

APPLICATIONS

- 2 through 5 ton
- Sound levels as low as 54 dBA
- Single phase power supply (208/230V)
- Side discharge air
- Units shipped completely factory assembled, internally piped, and wired

NOTE - The A7SCP18V model can be configured to operate as a 4 or 5 ton unit.

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

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

REFRIGERATION SYSTEM

R-454B Refrigerant

- Low GWP (Global Warming Potential)
- Zero ODP (Ozone Depletion Potential)
- Low Toxicity/Lower Flammability - A2L

Outdoor Coil

- Aluminum fins fitted to copper tubes

Outdoor Fan

- Direct drive fan moves large air volumes uniformly through entire outdoor coil for high refrigeration capacity
- Fan guard provided

FEATURES

Refrigerant Line Connections, Service Valve

- Flare connection lines are located on side of unit cabinet
- Fully serviceable brass service valve prevents corrosion and provides access to refrigerant system
- Suction and liquid extension pipes furnished

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

COMPRESSOR

Variable Frequency Rotary Compressor

- Designed for installation with a standard 24V thermostat and non-communicating equipment
- Compressor features high efficiency operation
- Balanced for reduced vibration and quiet operation
- Brushless DC motor uses powerful Neodymium magnets, which are approximately 15-20 times stronger than ferrite magnets used in conventional AC compressors

Compressor Crankcase Heater

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

CONTROLS

DC Inverter Control

- Provides continuous operation, while adjusting capacity according to room temperature
- The accurate sensing of cooling loads prevents frequent changes in capacity and ensures efficient, economical operation

Inverter Module Protection

- Protects against differences in current, voltage and temperature
- Displays code on the indoor unit indicating a need for servicing

Outdoor Unit Microprocessor

- Electronic expansion valve control
- Automatic compressor timed-off protection (3 minutes)
- Temperature sensor
- LEDs on control display error codes and assist in troubleshooting
- 4-Way reversing valve control

Electronic Expansion Valve

- Furnished on all models for heating control

Compressor Overcurrent Protection

- Overcurrent protection can result due to any of the following:
 - Ambient temperature is too high
 - Locked rotor on the compressor
 - Outdoor air is blocked or restricted

Condenser High Temperature Protection

- Condenser high temperature can occur due to any of the following conditions:
 - High outdoor ambient
 - Outdoor fan blocked
 - Outdoor coil blocked
- The outdoor coil thermistor continuously monitors the temperature and communicates with the microprocessor
- Depending on the temperature measured, the compressor will be allowed to increase the frequency if needed to meet the load or is forced to run at the current or reduced frequency
- If the temperature becomes excessively high the compressor will be de-energized

Compressor Discharge Temperature Protection

- The compressor discharge line thermistor continuously monitors the temperature and communicates with the microprocessor
- Depending on the temperature measured, the compressor will be allowed to increase the frequency to meet the load or is forced to run at the current or reduced frequency
- If the temperature becomes excessively high, the compressor will be de-energized

Voltage Protection

- Protects unit from low or high voltage fluctuations

Terminal Strip

- Furnished for easy wiring connections

FEATURES

Defrost Control

- Defrost cycle is automatically enabled if there is a build-up of frost on the outdoor coil
- Outdoor fan operation is terminated during the defrost cycle
- Indoor fan changes to ultra low speed during the defrost cycle to help bring warm refrigerant back to the outdoor coil to assist during defrost operation
- Defrost LED is lit on the indoor unit panel on the front cover during a defrost cycle

Reversing Valve

- 4-way interchange reversing valve effects a rapid change in direction of refrigerant flow resulting in quick changeover from cooling to heating and vice versa
- Valve operates on pressure differential between outdoor unit and indoor unit of the system

CABINET

- Constructed of heavy gauge steel
- Tabs on unit base allow secure mounting to slab
- Condensate drain outlets furnished on unit base
- Factory installed pan heater prevents ice build-up in the bottom of the unit during heating operation
- Access cover for power and control wiring connections
- Access cover for service valves
- Rubber dampening pads (4)

SPECIFICATIONS

Size		024	036	060
Nominal Size - Tons		2	3	4/5
Ambient Temperature Range - °F	Cooling	5°F - 115°F	5°F - 115°F	5°F - 115°F
	Heating	-22°F - 86°F	-22°F - 86°F	-22°F - 86°F
Sound Data (low)	dBA	54	57	62
Refrigerant	¹ Charge furnished (R-454B)	3 lbs. 9 oz.	5 lbs. 9 oz.	7 lbs. 8 oz.
	Maximum line length with furnished charge - ft.	15	15	15
	Additional charge required per ft. - oz.	0.55	0.55	0.55
Compressor	Number and Type	(1) Variable Rotary	(1) Variable Rotary	(1) Variable Rotary
	Refrigerant oil type	HAF68D1C	RM68EH	RM68EH
	Refrigerant oil charge - oz.	30.4	29.4	47.3
Connections	Liquid OD (flare) - in.	3/8	3/8	3/8
	² Suction OD (flare) - in.	5/8	3/4	3/4
	Refrigerant line size - Liquid - in.	3/8 - same size as unit connection		
	² Refrigerant line size - Suction - in.	3/4	7/8	7/8
	Maximum line length - ft.	150	150	100
Maximum height difference between indoor and outdoor unit - ft.		50	50	50
Outdoor Coil	Net face area - ft. ²	7.19	9.61	16.7
	Tube diameter - mm	7	7	7
	Rows	3	3	2
	Fins - in.	18	18	18
	Fin type	Hydrophilic aluminum		
	Tube type	Inner Grooved Copper Tube		
Outdoor Fan(s)	HP	1/4	1/4	(2) 1/4
	(Number) Diameter - in.	(1) 22	(1) 25	(2) 24
	Blades	3	3	3
	Total air volume - cfm	3000	3330	5970
	Rpm	680	700	750
	Watts	160	200	(2) 160
Shipping/Net Data - lbs.		137 / 161	157 / 190	245 / 280

ELECTRICAL DATA

Line voltage data (Volts-Phase-Hz)		208/230-1-60	208/230-1-60	208/230-1-60
³ Maximum Overcurrent Protection (MOCP) amps		30	35	60
⁴ Minimum circuit ampacity (MCA)		21	24	37
Compressor	Rated Load Amps	14.5	16.5	26.4
Fan Motor	Rated load amps	1.2	1.5	2.4

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

¹ Refrigerant charge sufficient for 15 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 Line set sizes for Suction Line (unit to line set):

024 - 5/8 to 3/4 in.

036 - 3/4 to 7/8 in.

060 - 3/4 to 7/8 in.

³ HACR type circuit breaker or fuse.

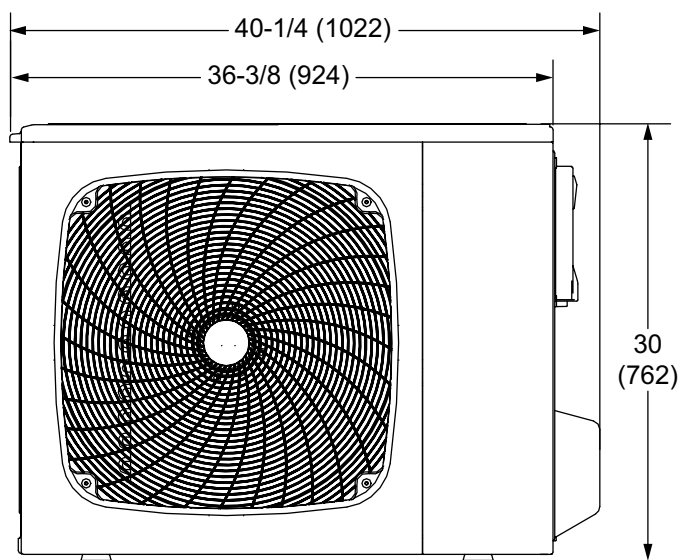
⁴ Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

ACCESSORIES

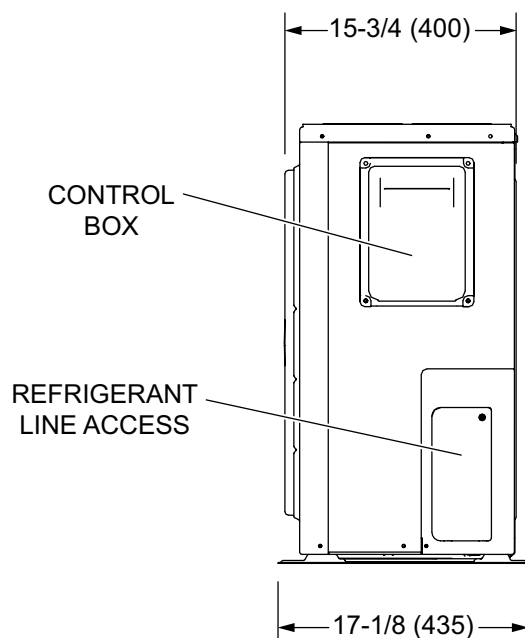
System Accessory	Where Used	Kit Number	Purpose
Wind Baffle	A7SCP18V24P	31T26	Shield against wind interference
Wind Baffle	A7SCP18V36P	31T71	Shield against wind interference
Wind Baffle	A7SCP18V60P	31T73	Shield against wind interference
Snow Hood	A7SCP18V24P	31T74	Prevents snow ingestion
Snow Hood	A7SCP18V36P	31T84	Prevents snow ingestion
Snow Hood	A7SCP18V60P	31T87	Prevents snow ingestion
Coil Guard - Back	A7SCP18V24P	31H63	Protective barrier for outdoor coil
Coil Guard - Side	A7SCP18V24P	31H64	Protective barrier for outdoor coil
Coil Guard - Back	A7SCP18V36P	31H67	Protective barrier for outdoor coil
Coil Guard - Side	A7SCP18V36P	31H68	Protective barrier for outdoor coil
Coil Guard - Back	A7SCP18V60P	31H69	Protective barrier for outdoor coil
Coil Guard - Side	A7SCP18V60P	31H70	Protective barrier for outdoor coil

DIMENSIONS

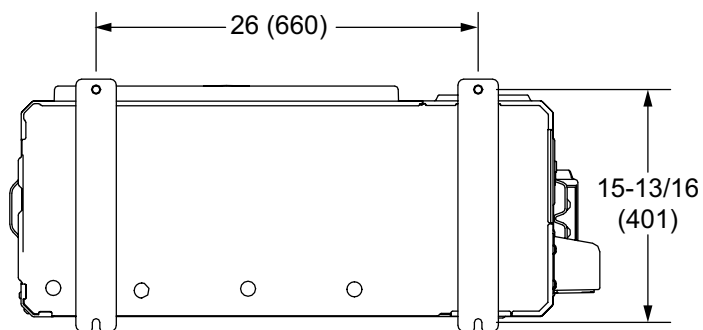
A7SCP18V24



FRONT VIEW



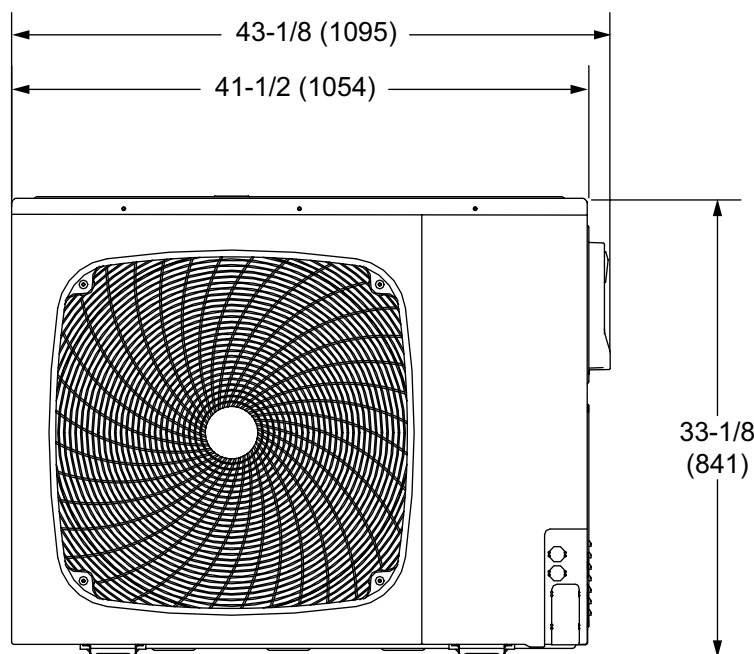
SIDE VIEW



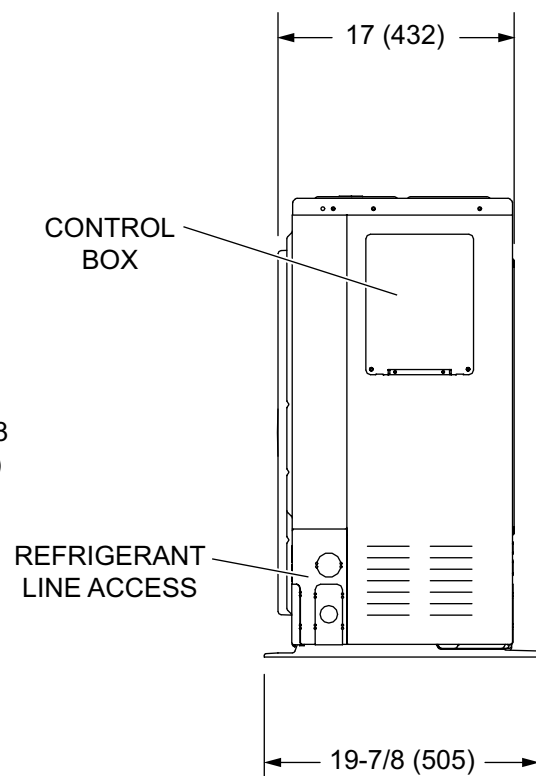
BOTTOM VIEW

DIMENSIONS

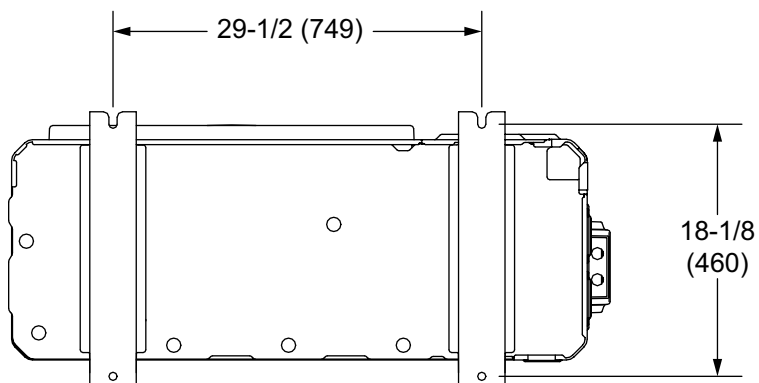
A7SCP18V36



FRONT VIEW



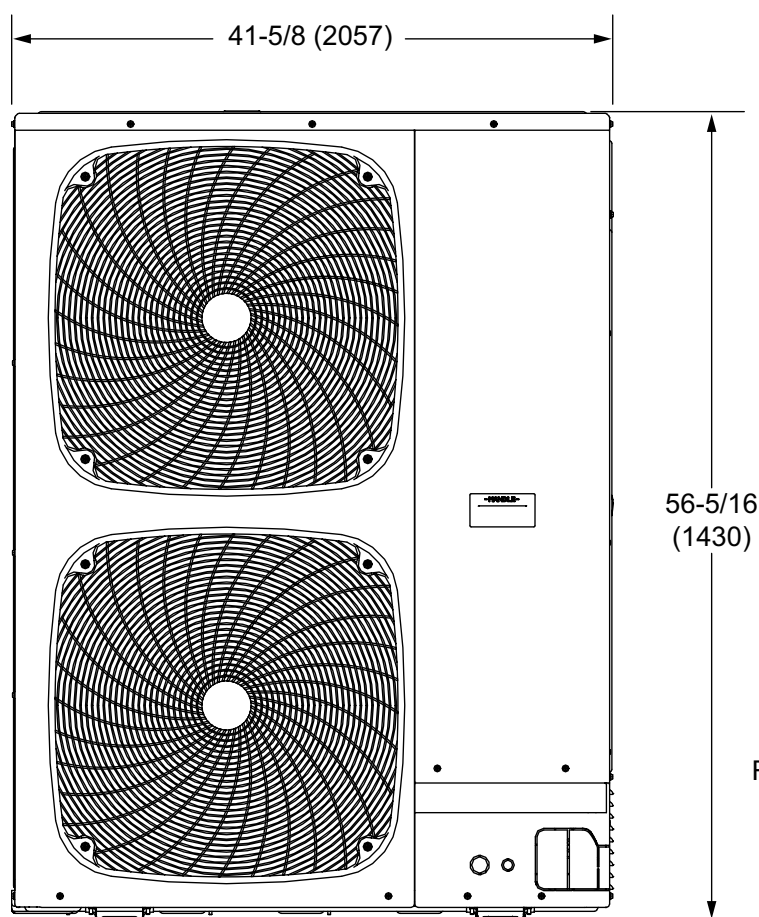
SIDE VIEW



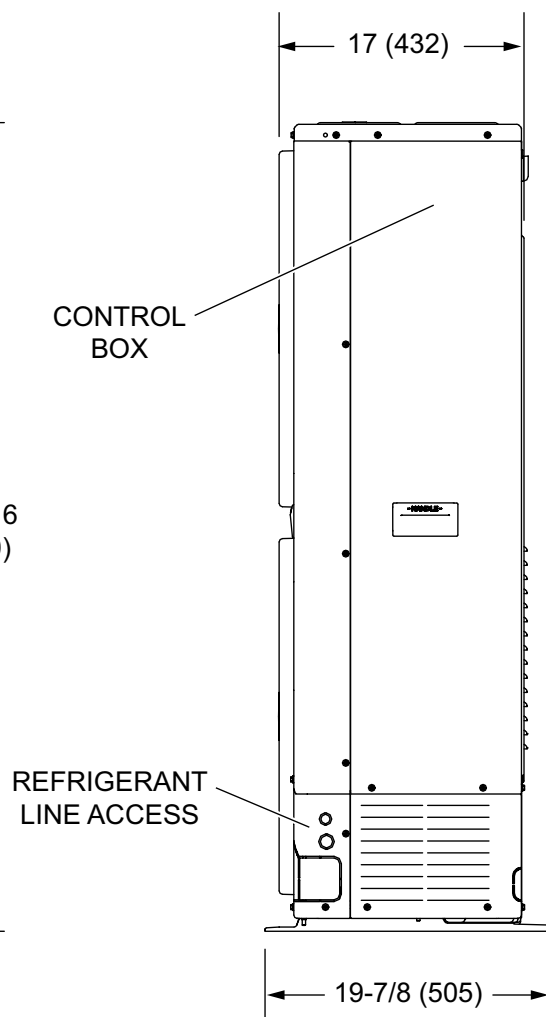
BOTTOM VIEW

DIMENSIONS

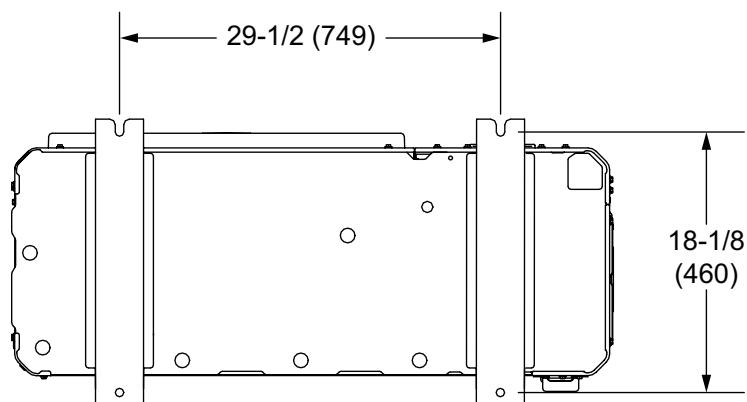
A7SCP18V60



FRONT VIEW



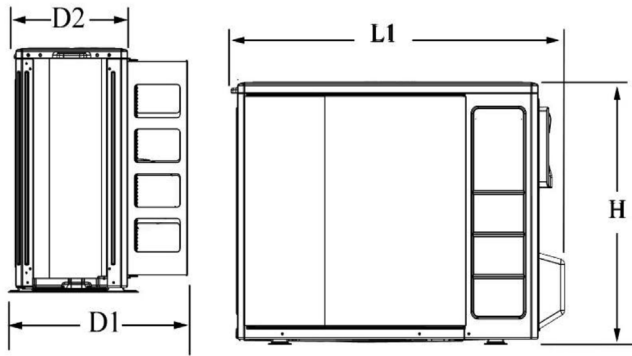
SIDE VIEW



BOTTOM VIEW

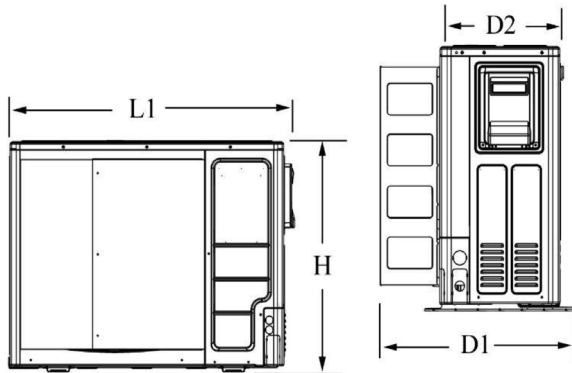
DIMENSIONS WITH WIND BAFFLE ACCESSORY

A7SCP18V24



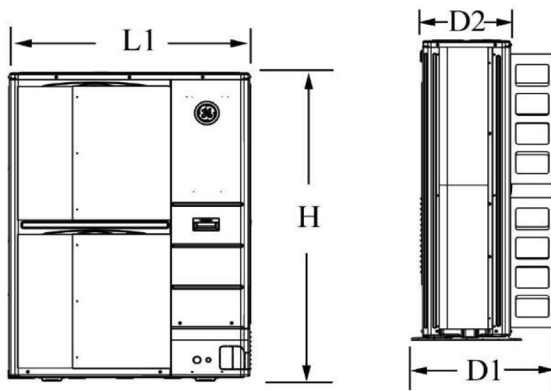
Model	L1	H	D1	D2
A7SCP18V24	40.375" (1025 mm)	36.25" (921 mm)	23.5" (597 mm)	14.625" (371 mm)

A7SCP18V36



Model	L1	H	D1	D2
A7SCP18V36	43.125" (1095 mm)	41.375" (1051 mm)	25.75" (654 mm)	15.75" (400 mm)

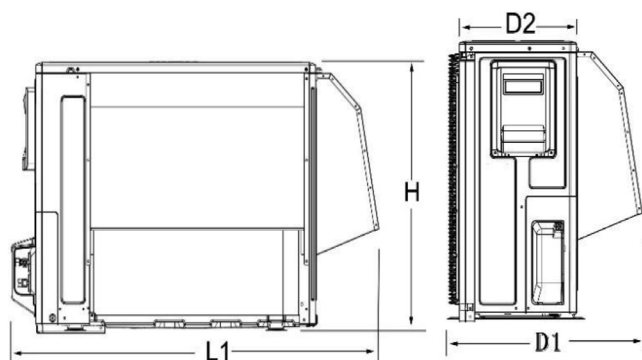
A7SCP18V60



Model	L1	H	D1	D2
A7SCP18V60	41.625" (1057 mm)	41.625" (1057 mm)	25.75" (654 mm)	15.75" (400 mm)

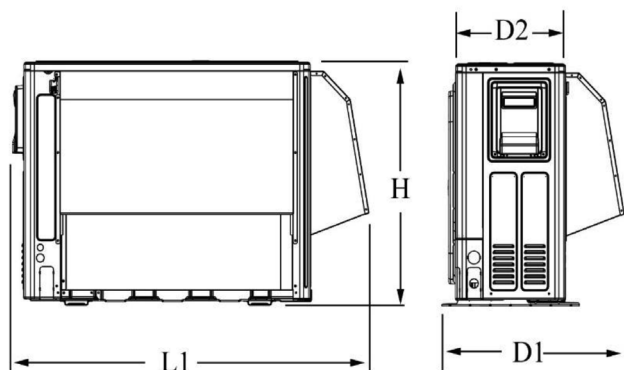
DIMENSIONS WITH SNOW HOOD ACCESSORY

A7SCP18V24



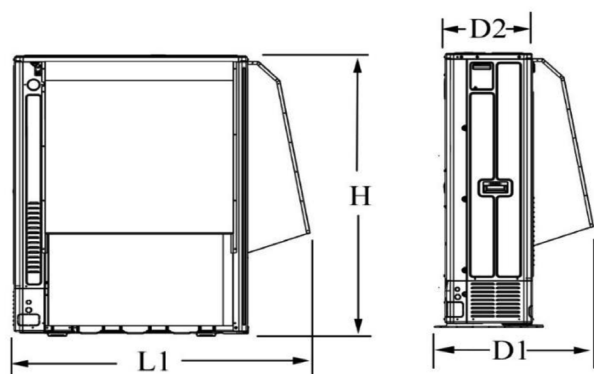
Model	L1	H	D1	D2
A7SCP18V24	47.5" (1208 mm)	36.25" (921 mm)	22.75" (578 mm)	14.625" (371 mm)

A7SCP18V36



Model	L1	H	D1	D2
A7SCP18V36	51.625" (1310 mm)	41.375" (1051 mm)	26.375" (670 mm)	15.75" (400 mm)

A7SCP18V60



Model	L1	H	D1	D2
A7SCP18V60	52.825" (1344 mm)	41.625" (1057 mm)	29.125" (739 mm)	15.75" (400 mm)

INSTALLATION CLEARANCES

Clearance Requirements

When installing, allow sufficient space for airflow clearance, wiring, refrigerant piping, and service. For proper airflow, quiet operation and maximum efficiency. Position so water, snow, or ice from roof or eaves cannot fall directly on unit. Refer to **Table 1** and **Table 2** for installation clearances.

Table 1. Single-Unit Clearances

	Minimum Clearance					
Location	A	B	C	D	E	F
Service	24" (610 mm) (recommended)					
Front	14" (360 mm)	Open	14" (360 mm)	Open	20" (510 mm)	Open
Back	Open	4" (110 mm)	Open	4" (110 mm)	4" (110 mm)	4" (110 mm)
Side	Open	Open	Open	12" (310 mm)	Open	Open
Top	Open	Open	40" (1020 mm)	20" (510 mm)	Open	20" (510 mm)

NOTE: At least one side should be unobstructed by a wall or other barrier. Barriers on at least one side of the front and back shall be lower than the outdoor unit.

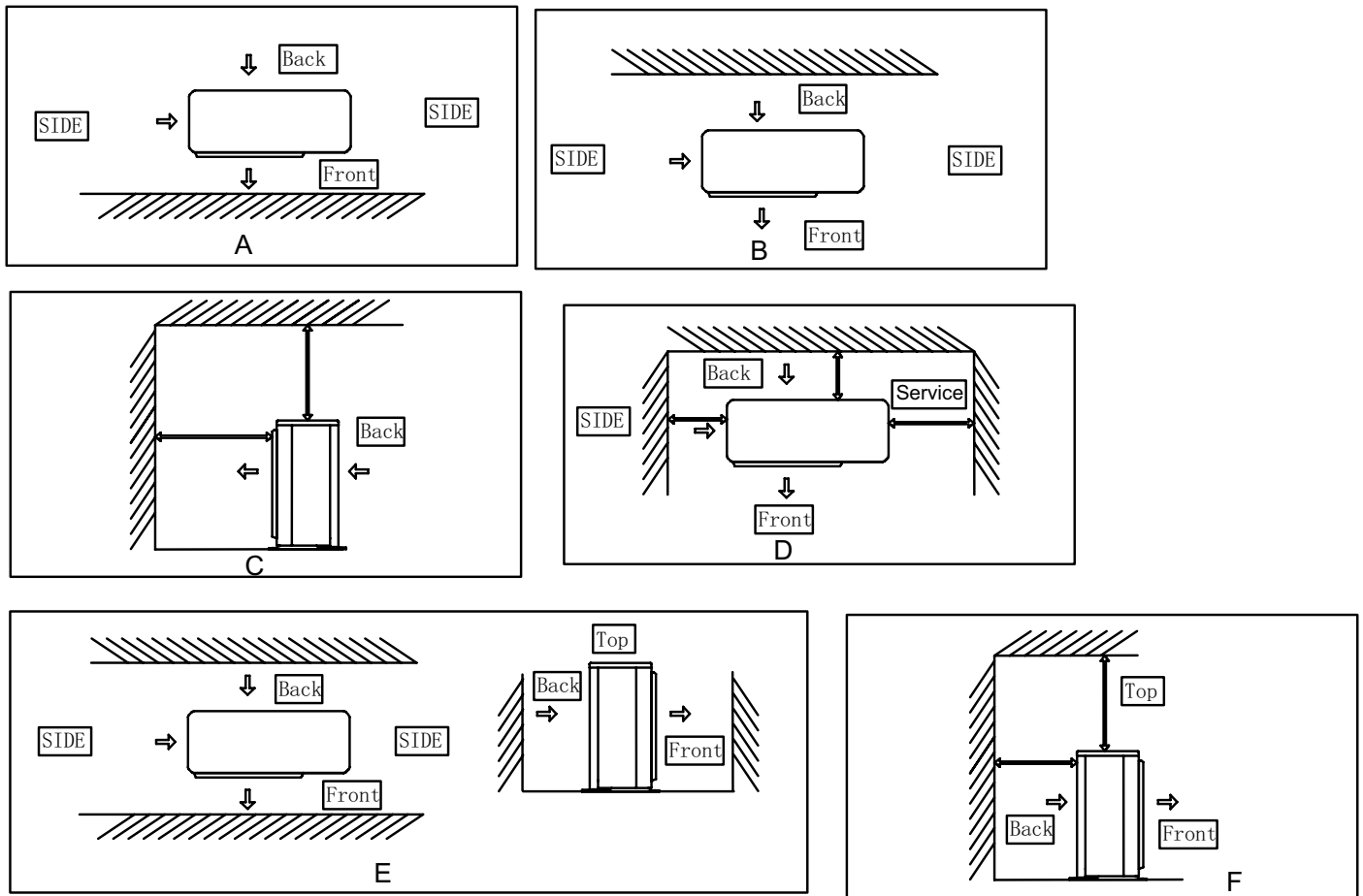


Figure 1. Single-Unit Clearance Configurations

Table 2. Multiple-Unit Clearances

Location	G	H	I	J
Service	24" (610 mm) (recommended)			
Front	Open	Open	20" (510 mm)	as shown in the figure
Back	4" (110 mm)	8" (200 mm)	8" (200 mm)	as shown in the figure
Side	as shown in the figure	12" (310 mm)	Open	12" (310 mm)
Top	Open	Open	Open	Open

NOTE: At least one side should be unobstructed by a wall or other barrier. Barriers on at least one side of the front and back shall be lower than the outdoor unit.

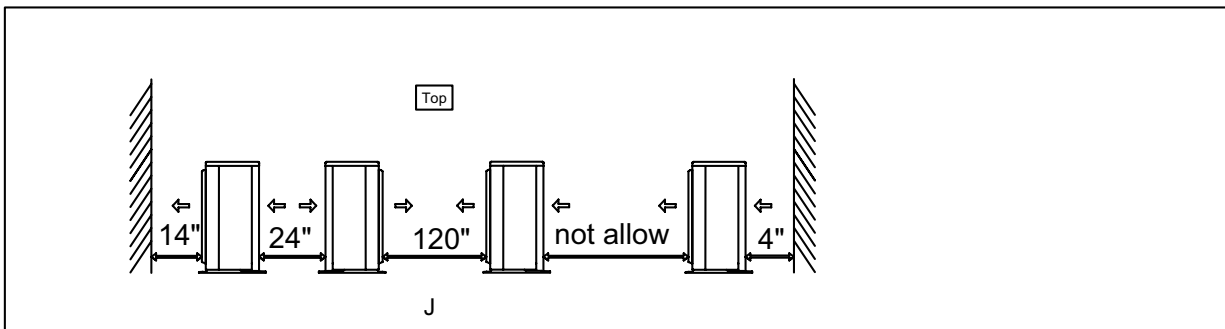
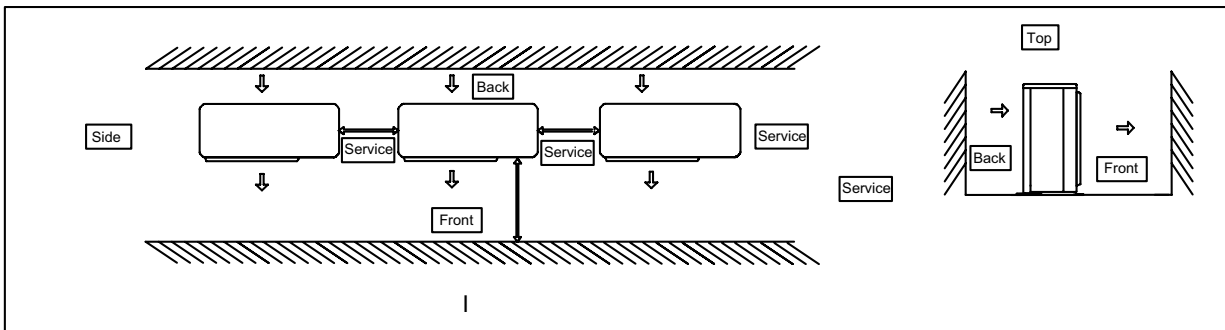
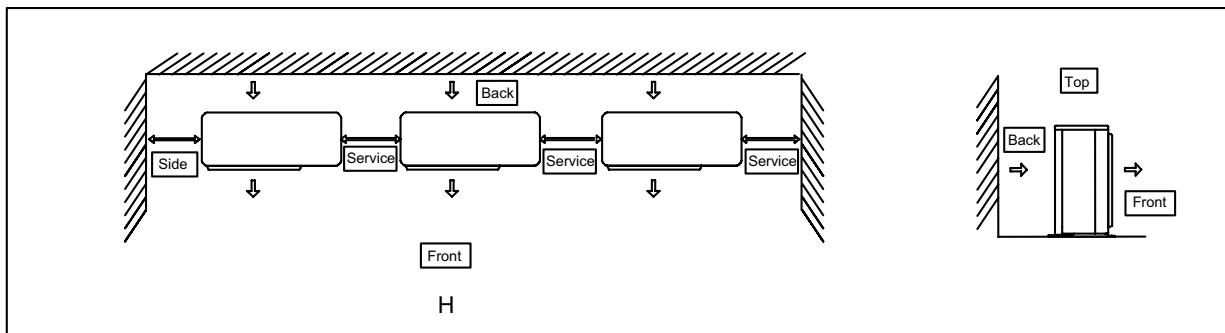
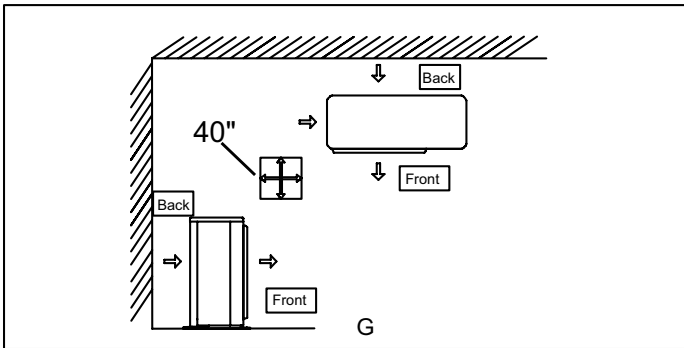


Figure 2. Multiple-Unit Clearance Configurations

TXV USAGE

All Allied coils and air handlers are shipped with a factory installed TXV. In most cases, no substitution is needed. If a different size TXV is required, it will be listed in the "TXV SUBSTITUTION" table by size. The correct TXV must be ordered separately and field installed.

Size	Order Number
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	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.

A7SCP18V24P - 7AH1AV24PX [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)			
						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		
A7SCP18V24P	7AH1AV24PX	59°F (15°C)	400	8.4	0.27	1	1	1	8.4	0.35	1	1	1	8.8	0.47	1	1	1	
			600	8.6	0.28	1	1	1	8.6	0.36	1	1	1	9	0.48	1	1	1	
			650	8.9	0.28	1	1	1	8.9	0.36	1	1	1	9.3	0.48	1	1	1	
		63°F (17.2°C)	400	10	0.31	1	1	1	10	0.4	1	1	1	10.3	0.53	1	1	1	
			600	10.2	0.31	1	1	1	10.2	0.4	1	1	1	10.5	0.54	1	1	1	
			650	10.5	0.31	1	1	1	10.5	0.41	1	1	1	10.8	0.54	1	1	1	
		67°F (19.4°C)	400	11.7	0.34	1	1	1	11.6	0.45	1	1	1	11.9	0.59	1	1	1	
			600	11.9	0.35	1	1	1	11.8	0.45	1	1	1	12.1	0.6	1	1	1	
			650	12.3	0.35	1	1	1	12.2	0.46	1	1	1	12.5	0.6	1	1	1	
		71°F (21.7°C)	400	13.3	0.39	0.81	1	1	13.2	0.5	0.83	1	1	13.5	0.66	0.84	1	1	1
600	13.6		0.39	0.88	1	1	13.5	0.51	0.91	1	1	13.8	0.67	0.94	1	1	1		
650	14		0.39	0.96	1	1	13.9	0.51	0.96	1	1	14.2	0.67	0.99	1	1	1		

A7SCP18V24P - 7AH1AV24PX [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)							
						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		
				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					
A7SCP18V24P	7AH1AV24PX	59°F (15°C)		cfm																													
			400	14.4	0.66	0.95	1	1	15.2	1.16	0.96	1	1	14.1	1.33	1	1	1	12	1.34	0.86	1	1	10.6	1.43	0.97	0.99	1	1				
			600	15.3	0.71	1	1	16.1	1.23	1	1	15	1.4	1	1	12.8	1.42	1	1	11.2	1.5	1	1	1	1.5	1	1	1	1				
		650	15.9	0.73	1	1	16.8	1.27	1	1	15.6	1.47	1	1	13.2	1.47	1	1	11.8	1.57	1	1	1	1.57	1	1	1	1					
		400	15	0.84	0.87	0.93	0.99	17.5	1.33	0.88	0.94	1	16.3	1.47	0.91	0.94	1	13.4	1.35	0.91	1	1	12.2	1.54	0.99	1	1	1					
		600	16	0.89	0.91	0.99	1	18.5	1.41	0.92	1	1	17.2	1.57	0.95	1	1	14.3	1.43	1	1	1	12.9	1.61	1	1	1	1					
		650	16.8	0.93	1	1	19.3	1.47	0.95	1	1	18	1.62	1	1	14.7	1.48	1	1	1	1.68	1	1	1	1.68	1	1	1	1				
		400	17	0.93	0.8	0.86	0.92	19	1.42	0.8	0.86	0.95	18.9	1.72	0.83	0.86	1	15	1.54	0.96	1	1	13.7	1.65	1	1	1	1					
		600	18.1	0.97	0.82	0.9	0.97	20.2	1.48	0.83	0.88	0.99	20.1	1.76	0.85	0.88	1	15.7	1.62	1	1	1	14.5	1.74	1	1	1	1					
		650	18.9	0.99	1	1	1	21	1.52	0.85	0.93	1	20.9	1.81	1	1	1	16.4	1.69	1	1	1	15.1	1.81	1	1	1	1					
71°F (21.7°C)			400	18.3	0.94	0.65	0.79	0.84	20.8	1.51	0.65	0.79	0.85	21.1	1.74	0.68	0.79	0.92	16.3	1.66	0.82	0.91	1	15.1	1.78	1	1	1					
			600	19.5	1	0.7	0.82	0.89	21.9	1.6	0.71	0.82	0.9	22.3	1.83	0.74	0.82	0.98	17.4	1.74	1	1	1	16.2	1.88	1	1	1					
			650	20.3	1.03	0.88	1	1	22.9	1.65	0.75	0.84	0.92	23.2	1.9	0.93	1	1	18.1	1.8	1	1	1	16.7	1.95	1	1	1	1				

COOLING PERFORMANCE EXTENDED RATINGS

A7SCP18V24P - 7AH1AV24PX [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	Dry Bulb			Dry Bulb	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					
A7SCP18V24P	7AH1AV24PX	59°F (15°C)	620	19.7	117	0.9	1	1	18.8	1.36	0.92	1	1	1	19.3	2.13	1	1	1				
			820	20.1	118	1	1	1	1	1	20.8	1.92	1	1	1	15.6	1.88	1	1	1			
			900	20.7	118	1	1	1	1	1	21.4	1.93	1	1	1	16.1	1.89	1	1	1			
		620	23.8	1.47	0.73	0.86	0.98	22.1	1.62	0.75	0.88	1	21.7	1.94	0.81	0.88	1	1	1	1			
		820	24.3	1.49	0.82	0.97	1	22.6	1.64	0.83	1	1	22.1	1.96	0.9	1	1	1	1	1			
		900	25	1.49	1	1	1	23.3	1.65	0.89	1	1	22.8	1.97	1	1	1	1	1	1			
		620	25.3	1.5	0.59	0.71	0.83	23.5	1.65	0.6	0.72	0.9	23.1	1.98	0.65	0.72	1	1	1	1			
		820	25.8	1.51	0.64	0.79	0.93	24	1.67	0.65	0.75	0.98	23.6	2	0.7	0.75	1	1	1	1			
		900	26.6	1.52	1	1	1	24.7	1.68	0.69	0.86	1	24.3	2.01	1	1	1	1	1	1			
		620	26.9	1.52	0.46	0.57	0.68	25	1.68	0.46	0.58	0.7	24.5	2.02	0.5	0.58	0.84	0.91	0.91	0.91			
		820	27.4	1.54	0.48	0.63	0.77	25.5	1.7	0.48	0.64	0.79	25	2.04	0.52	0.64	0.95	0.88	1	1			
		900	28.2	1.54	0.79	1	1	26.3	1.71	0.5	0.67	0.84	25.8	2.05	0.85	1	1	0.92	1	1			

COOLING PERFORMANCE EXTENDED RATINGS

A7SCP18V36P - 7AH1AV36PX [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			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				
A7SCP18V36P	7AH1AV36PX	59°F (15°C)	640	12.7	0.35	1	1	1	13.9	0.58	1	1	1	1	16.8	1.2	1	1	1			
			725	13	0.35	1	1	1	14.2	0.59	1	1	1	1	171	1.21	1	1	1			
			910	13.4	0.35	1	1	1	14.6	0.59	1	1	1	1	176	1.22	1	1	1			
		63°F (17.2°C)	640	15	0.39	0.96	1	1	16.1	0.64	1	1	1	1	19.9	1.38	1	1	1			
			725	15.3	0.39	1	1	1	16.4	0.64	1	1	1	1	20.3	1.39	1	1	1			
			910	15.8	0.39	1	1	1	16.9	0.64	1	1	1	1	20.9	1.4	1	1	1			
		67°F (19.4°C)	640	17.3	0.43	0.74	0.94	1	18.4	0.69	0.76	0.97	1	23.6	1.3	0.79	1	23.3	1.57	0.81	1	1
			725	17.7	0.43	0.87	1	1	18.8	0.7	0.88	1	1	24.1	1.31	0.91	1	23.8	1.58	0.95	1	1
			910	18.2	0.43	0.92	1	1	19.4	0.7	0.95	1	1	24.8	1.32	1	1	24.5	1.59	1	1	1
		71°F (21.7°C)	640	19.8	0.47	0.54	0.73	0.91	20.9	0.75	0.55	0.75	0.94	26.2	1.39	0.56	0.77	0.97	25.8	1.67	0.57	0.8
725	20.2		0.48	0.58	0.83	1	21.3	0.76	0.61	0.87	1	26.7	1.4	0.63	0.9	1	26.3	1.69	0.64	0.94	1	
910	20.8		0.48	0.64	0.9	1	21.9	0.77	0.64	0.94	1	27.5	1.41	0.66	0.99	1	27.1	1.7	0.68	1	1	

A7SCP18V36P - 7AH1AV36PX [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									
			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					
A7SCP18V36P	7AH1AV36PX	59°F (15°C)	640	171	0.92	0.86	1	1	22.3	1.7	0.66	0.77	0.8	19	1.65	0.77	0.91	0.94	17.1	1.75	0.86	1	1	14.3	1.73	1	1	1
			725	18.2	0.97	1	1	23.7	1.8	0.92	0.97	1	20.2	1.74	1	1	18.2	1.84	1	1	15.2	1.82	1	1	1	1		
			910	18.9	1	1	1	24.6	1.87	0.97	1	21	1.81	1	1	18.9	1.91	1	1	15.8	1.9	1	1	1	1			
		63°F (17.2°C)	640	20	1.06	0.74	0.88	1	25.8	1.97	0.58	0.68	0.77	22.5	1.94	0.66	0.78	0.89	19	1.75	0.78	0.92	1	16.1	1.85	0.92	1	1
			725	21.3	1.11	1	1	27.4	2.08	0.78	0.93	1	23.9	2.04	0.9	1	20.2	1.84	1	1	17.1	1.95	1	1	1	1		
			910	22.2	1.16	1	1	28.5	2.16	0.86	1	24.9	2.12	0.99	1	21	1.91	1	1	17.8	2.03	1	1	1	1			
		67°F (19.4°C)	640	22.9	1.2	0.66	0.71	0.93	28.6	2.17	0.52	0.57	0.75	26	2.24	0.55	0.62	0.82	21	1.98	0.66	0.77	1	18	1.98	0.77	0.9	1
			725	24.4	1.27	0.8	0.95	1	30.4	2.28	0.64	0.76	0.97	27.7	2.35	0.7	0.83	1	22.3	2.09	0.87	1	1	19.2	2.09	1	1	1
			910	25.4	1.32	0.93	1	1	31.6	2.38	0.75	0.85	1	28.8	2.45	0.82	0.93	1	23.2	2.17	1	1	1	20	2.17	1	1	1
		71°F (21.7°C)	640	25.2	1.28	0.52	0.63	0.77	30.7	2.3	0.48	0.52	0.63	28.9	2.24	0.51	0.55	0.67	23	2.11	0.64	0.69	0.84	20	2.11	0.74	0.79	0.97
725	26.8		1.35	0.61	0.87	1	32.7	2.42	0.57	0.71	0.82	30.7	2.35	0.59	0.76	0.87	24.5	2.22	0.87	0.95	1	21.3	2.23	1	1	1		
910	27.9		1.4	0.63	0.9	1	34	2.52	0.61	0.84	0.94	31.9	2.45	0.63	0.9	1	25.5	2.31	0.96	1	1	22.2	2.31	1	1	1		

COOLING PERFORMANCE EXTENDED RATINGS

A7SCP18V36P - 7AH1AV36PX [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	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb			Dry Bulb	Dry Bulb						
				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		
A7SCP18V36P	7AH1AV36PX	59°F (15°C)	cfm	23.5	1.6	0.85	0.95	0.99	1	27.7	2	0.87	0.99	1	27.4	2.35	0.93	0.99	1	27.6	2.78	1	1	1	1
			1050	24	1.61	0.94	0.99	1	28.3	2.02	0.94	1	1	28	2.38	1	1	1	28.2	2.8	1	1	1	1	
			1330	24.7	1.62	0.99	1	1	29.1	2.03	0.94	1	1	28.8	2.39	1	1	1	29	2.82	1	1	1	1	
		930	31.5	1.85	0.69	0.81	0.92	32.6	2.4	0.71	0.83	1	30.2	2.53	0.76	0.83	1	29.3	2.82	0.86	0.87	1	1		
		1050	32.1	1.87	0.77	0.91	1	33.3	2.43	0.78	1	1	30.8	2.56	0.84	1	1	29.9	2.85	0.96	1	1	1		
		1330	33.1	1.88	0.85	1	1	34.3	2.44	0.84	1	1	31.7	2.57	0.95	1	1	30.8	2.86	1	1	1	1		
		930	34.2	1.95	0.55	0.67	0.78	35.3	2.53	0.56	0.68	0.85	31.9	2.57	0.61	0.68	1	31.1	2.86	0.69	0.71	1	1		
		1050	34.9	1.97	0.6	0.74	0.87	36	2.55	0.61	0.71	0.92	32.6	2.59	0.66	0.71	1	31.7	2.89	0.75	0.74	1	1		
		1330	35.9	1.98	0.65	0.83	0.98	37.1	2.57	0.65	0.81	1	33.6	2.61	0.74	0.85	1	32.7	2.91	0.79	0.85	1	1		
		71°F (21.7°C)	930	37	2.06	0.43	0.54	0.64	37.2	2.56	0.43	0.55	0.66	33.8	2.6	0.47	0.55	0.79	32.8	2.9	0.53	0.57	1	1	
			1050	37.8	2.08	0.45	0.59	0.72	38	2.58	0.45	0.6	0.74	34.5	2.62	0.49	0.6	0.89	33.5	2.93	0.55	0.63	1	1	
			1330	38.9	2.09	0.49	0.65	0.8	39.1	2.6	0.47	0.63	0.79	35.5	2.64	0.53	0.66	1	34.5	2.95	0.58	0.66	1	1	

A7SCP18V60P - 7AH1AV60PX [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	kBtu/h	kW	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	
A7SCP18V60P	7AH1AV60PX	59°F (15°C)	1035	23.5	0.62	1	1	1	24.3	1	1	1	1	1	26.9	1.69	1	1	1	26.4	2.04	1	1	1
			1160	24	0.63	1	1	1	1	24.8	1.01	1	1	1	27.4	1.71	1	1	1	26.9	2.06	1	1	1
			1615	24.7	0.63	1	1	1	1	25.5	1.01	1	1	1	28.2	1.72	1	1	1	27.7	2.07	1	1	1
		1035	27.2	0.44	1	1	1	1	28.8	1.24	1	1	1	32.3	2.05	1	1	1	31.6	2.43	1	1	1	
		1160	27.8	0.44	1	1	1	1	29.4	1.25	1	1	1	33	2.07	1	1	1	32.2	2.46	1	1	1	
		1615	28.6	0.44	1	1	1	1	30.3	1.26	1	1	1	34	2.08	1	1	1	33.2	2.47	1	1	1	
		1035	30.7	0.59	0.77	0.99	1	32	1.37	0.8	1	1	36.1	2.25	0.83	1	1	31.6	2.65	0.85	1	1	1	
		1160	31.3	0.59	0.91	1	1	32.7	1.39	0.92	1	1	36.8	2.27	0.96	1	1	32.2	2.67	1	1	1	1	
		1615	32.2	0.6	0.97	1	1	33.7	1.39	1	1	1	37.9	2.28	1	1	1	33.2	2.69	1	1	1	1	
		1035	34.1	0.74	0.57	0.76	0.96	35.5	1.5	0.58	0.79	0.99	38.8	2.32	0.59	0.81	1	35.2	2.65	0.6	0.84	1	1	
71°F (21.7°C)	1160	34.8	0.75	0.61	0.88	1	36.2	1.52	0.64	0.91	1	39.6	2.35	0.66	0.94	1	35.9	2.67	0.67	0.99	1	1		
	1615	35.8	0.75	0.67	0.94	1	37.3	1.53	0.67	0.99	1	40.8	2.36	0.69	1	1	37	2.69	0.72	1	1	1		

A7SCP18V60P - 7AH1AV60PX [COOLING PERFORMANCE (INTERMEDIATE 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							
				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	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			
A7SCP18V60P	7AH1AV60PX	59°F (15°C)	cfm	172	1.53	0.86	1	1	32.4	2.75	0.94	1	1	25.9	2.56	0.97	1	1	21.8	2.56	0.86	1	1	19.1	2.84	0.97	0.99	1
			1160	18.2	1.62	1	1	34.3	2.91	0.98	1	1	27.6	2.7	1	1	23.3	2.71	1	1	20.4	2.98	1	1	1	1		
			1615	19	1.69	1	1	35.7	3.03	0.98	1	1	28.8	2.83	1	1	24	2.81	1	1	21.2	3.11	1	1	1	1		
		1035	30.9	1.82	0.74	0.88	1	40.2	3.63	0.86	0.92	1	35.9	3.76	0.89	0.92	1	25.8	2.79	0.83	0.98	1	22.1	3.02	0.98	1	1	
		1160	33	1.93	1	1	42.6	3.84	0.9	1	1	38.1	4	0.93	1	1	27.5	2.95	1	1	23.4	3.16	1	1	1	1		
		1615	34.5	2.01	1	1	44.4	3.99	0.92	1	1	39.7	4.12	1	1	28.4	3.06	1	1	24.1	3.29	1	1	1	1			
		1035	35.7	2.09	0.69	0.73	0.93	43.7	3.83	0.7	0.84	0.93	41.7	4.35	0.73	0.84	1	28.7	3.13	0.7	0.81	1	24.9	3.19	0.85	0.9	1	
		1160	38.1	2.18	0.84	0.95	1	46.2	4.01	0.79	0.86	0.96	44	4.59	0.84	0.86	1	30.2	3.3	0.92	1	1	26.3	3.38	1	0.96	1	
		1615	39.8	2.3	0.98	1	1	48.2	4.21	0.83	0.91	1	45.9	4.77	0.89	0.95	1	31.5	3.46	1	1	1	27.5	3.51	1	1	1	
		1035	41	2.41	0.55	0.66	0.81	47.3	4.04	0.52	0.68	0.83	46.3	4.33	0.54	0.7	0.9	31.5	3.34	0.68	0.74	0.84	27.6	3.41	0.79	0.82	1	
1160	43.7	2.56	0.64	0.91	1	50.1	4.26	0.56	0.78	0.88	48.9	4.58	0.58	0.8	0.95	33.5	3.51	0.93	1	1	29.6	3.6	1	1	1			
1615	45.6	2.65	0.66	0.95	1	52.1	4.42	0.58	0.82	0.9	50.9	4.76	0.64	0.85	1	35	3.62	1	1	1	30.4	3.73	1	1	1			

COOLING PERFORMANCE EXTENDED RATINGS

A7SCP18V60P - 7AH1AV60PX [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	75°F 23.9°C	kW	kBtuh	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)								
						75°F 23.9°C	80°F 26.7°C	85°F 29.4°C			75°F 23.9°C	80°F 26.7°C	85°F 29.4°C			75°F 23.9°C	80°F 26.7°C	85°F 29.4°C	75°F 23.9°C	80°F 26.7°C	85°F 29.4°C			
A7SCP18V60P	7AH1AV60PX	63°F (17.2°C)	2190	51.5	3.24	0.9	1	1	53.5	4.49	0.84	1	1	41.7	4.57	1	1	31.3	3.78	1	1	1		
				1500	53.3	3.38	0.56	0.67	0.79	53.9	4.46	0.57	0.68	0.85	50.8	5	0.61	0.68	1	42.2	4.54	0.73	0.75	1
				1675	54.4	3.41	0.61	0.75	0.88	55	4.5	0.62	0.71	0.92	51.8	5.05	0.67	0.71	1	43.1	4.59	0.79	0.78	1
				2190	56	3.43	0.69	0.88	1	56.7	4.53	0.65	0.81	1	53.4	5.07	0.78	0.9	1	44.4	4.61	0.84	0.9	1
				1500	60.3	3.89	0.44	0.54	0.64	57	4.49	0.44	0.55	0.66	53.8	5.04	0.47	0.55	0.8	45	4.58	0.56	0.61	1
				1675	61.5	3.93	0.45	0.6	0.73	58.2	4.54	0.45	0.61	0.75	54.9	5.09	0.49	0.61	0.9	45.9	4.62	0.59	0.67	1
	7AH1AV60PX	71°F (21.7°C)	2190	63.3	3.95	0.52	0.69	0.85	59.9	4.56	0.47	0.63	0.8	56.5	5.12	0.56	0.7	1	47.3	4.65	0.61	0.7	1	
				1500	53.3	3.38	0.56	0.67	0.79	53.9	4.46	0.57	0.68	0.85	50.8	5	0.61	0.68	1	42.2	4.54	0.73	0.75	1
				1675	54.4	3.41	0.61	0.75	0.88	55	4.5	0.62	0.71	0.92	51.8	5.05	0.67	0.71	1	43.1	4.59	0.79	0.78	1
				2190	56	3.43	0.69	0.88	1	56.7	4.53	0.65	0.81	1	53.4	5.07	0.78	0.9	1	44.4	4.61	0.84	0.9	1
				1500	60.3	3.89	0.44	0.54	0.64	57	4.49	0.44	0.55	0.66	53.8	5.04	0.47	0.55	0.8	45	4.58	0.56	0.61	1
				1675	61.5	3.93	0.45	0.6	0.73	58.2	4.54	0.45	0.61	0.75	54.9	5.09	0.49	0.61	0.9	45.9	4.62	0.59	0.67	1

HEATING PERFORMANCE EXTENDED RATINGS

A7SCP18V24P - 7AH1AV24PX - 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	400	12.028	0.45	11.64	0.44	11.737	0.5	10.864	0.48
	600	12.4	0.42	12	0.41	12.1	0.46	11.2	0.44
	650	12.648	0.4	12.24	0.39	12.342	0.44	11.424	0.43
70° F	400	10.864	0.42	10.573	0.41	10.67	0.47	9.894	0.45
	600	11.2	0.39	10.9	0.38	11	0.43	10.2	0.42
	650	11.424	0.37	11.118	0.37	11.22	0.41	10.404	0.4
75° F	400	10.767	0.45	10.379	0.44	9.603	0.43	8.924	0.42
	600	11.1	0.42	10.7	0.41	9.9	0.4	9.2	0.39
	650	11.322	0.4	10.914	0.39	10.098	0.38	9.384	0.37

A7SCP18V24P - 7AH1AV24PX - 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	620	26.675	1.6	22.989	1.62	19.788	1.95	22.795	3.42	12.61	2.13
	820	27.5	1.48	23.7	1.5	20.4	1.81	23.5	3.16	13	1.97
	900	28.05	1.6	24.174	1.62	20.808	1.74	23.97	3.04	13.26	1.9
70° F	620	26.093	1.7	22.504	1.72	19.4	2.07	22.31	3.57	12.416	2.23
	820	26.9	1.57	23.2	1.59	20	1.92	23	3.31	12.8	2.06
	900	27.438	1.7	23.664	1.72	20.4	1.84	23.46	3.18	13.056	1.98
75° F	620	25.705	1.81	22.213	1.82	19.109	2.19	22.116	3.74	12.222	2.32
	820	26.5	1.67	22.9	1.68	19.7	2.02	22.8	3.46	12.6	2.15
	900	27.03	1.81	23.358	1.82	20.094	1.94	23.256	3.33	12.852	2.06

A7SCP18V24P - 7AH1AV24PX - 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	1.478089	27.5	4.35	65	1.574758	26.9	4.03	65	1.671508	26.5	3.79
60	1.478089	26.675	4.16	60	1.574758	26.093	3.85	60	1.671508	25.705	3.63
55	1.504044	25.87475	4.03	55	1.602379	25.31021	3.73	55	1.695754	24.93385	3.51
50	1.517022	25.18737	3.89	50	1.616189	24.65511	3.6	50	1.707877	24.26693	3.39
47	1.53	24.5	3.76	47	1.63	24	3.48	47	1.72	23.6	3.28
45	1.496952	23.7	3.67	45	1.590908	23.2	3.44	45	1.684752	22.9	3.24
40	1.575063	22.989	3.42	40	1.67	22.504	3.21	40	1.77	22.213	3.02
35	1.653174	22.29933	3.19	35	1.75	21.82888	3	35	1.85	21.54661	2.82
30	1.731284	21.63035	2.98	30	1.83	20.91444	2.76	30	1.93	20.6233	2.59
25	1.809395	20.4	2.74	25	1.916713	20	2.56	25	2.023688	19.7	2.41
20	1.7271	18.952	2.65	20	1.8462	18.72	2.47	20	1.9673	18.334	2.3
17	1.71	18.4	2.58	17	1.81	18	2.42	17	1.91	17.8	2.27
15	1.6758	17.48	2.48	15	1.7738	17.1	2.32	15	1.8527	16.91	2.24
10	3.2232	24.91	2.02	10	3.408884	23.92	1.85	10	3.534149	23.712	1.76
5	3.16	23.5	1.95	5	3.309596	23	1.81	5	3.464852	22.8	1.74
0	2.863635	21.855	1.97	0	2.997197	20.7	1.8	0	3.14	20.52	1.7
-5	1.809395	19.2324	1.9	-5	1.916713	18.009	1.73	-5	2.023688	17.8524	1.63
-10	2.270905	16.34754	1.81	-10	2.372399	15.30765	1.63	-10	2.48	14.99602	1.54
-15	1.97454	13	1.61	-15	2.06	12.8	1.55	-15	2.15	12.6	1.46
-20	1.777086	11.05	1.48	-20	1.65	10.24	1.47	-20	1.72	10.08	1.43

HEATING PERFORMANCE EXTENDED RATINGS

A7SCP18V36P - 7AH1AV36PX - 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	640	15.229	0.62	15.714	0.71	16.393	0.87	16.199	0.95
	725	15.7	0.58	16.2	0.65	16.9	0.81	16.7	0.88
	910	16.014	0.55	16.524	0.63	17.238	0.78	17.034	0.84
70° F	640	11.834	0.44	11.446	0.45	10.573	0.46	9.797	0.47
	725	12.2	0.41	11.8	0.42	10.9	0.43	10.1	0.43
	910	12.444	0.39	12.036	0.4	11.118	0.41	10.302	0.42
75° F	640	11.446	0.5	11.058	0.5	10.185	0.51	9.506	0.51
	725	11.8	0.46	11.4	0.46	10.5	0.47	9.8	0.48
	910	12.036	0.44	11.628	0.44	10.71	0.45	9.996	0.46

A7SCP18V36P - 7AH1AV36PX - 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	930	39.382	2.53	34.241	2.64	27.548	2.93	29.585	4.47	16.199	2.49
	1050	40.6	2.34	35.3	2.44	28.4	2.71	30.5	4.14	16.7	2.3
	1330	41.412	2.53	36.006	2.64	28.968	2.61	31.11	3.97	17.034	2.21
70° F	930	38.8	2.67	33.756	2.77	27.16	3.07	29.1	4.64	15.908	2.57
	1050	40	2.48	34.8	2.57	28	2.84	30	4.29	16.4	2.38
	1330	40.8	2.67	35.496	2.77	28.56	2.73	30.6	4.12	16.728	2.29
75° F	930	36.472	2.56	33.271	2.9	26.772	3.2	28.809	4.81	15.52	2.65
	1050	37.6	2.37	34.3	2.69	27.6	2.97	29.7	4.46	16	2.46
	1330	38.352	2.56	34.986	2.9	28.152	2.85	30.294	4.28	16.32	2.36

A7SCP18V36P - 7AH1AV36PX - INDOOR COIL AIR VOLUME - 1050CFM

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	2.343751	40.6	4.15	65	2.475944	40	3.9	65	2.370308	37.6	3.8
60	2.343751	39.382	3.96	60	2.475944	38.8	3.75	60	2.370308	36.472	3.58
55	2.416876	38.20054	3.81	55	2.547972	37.636	3.58	55	2.555154	35.37784	3.38
50	2.380314	37.35027	3.75	50	2.583986	36.818	3.47	50	2.647577	35.38892	3.28
47	2.49	36.5	3.55	47	2.62	36	3.37	47	2.74	35.4	3.19
45	2.44234	35.3	3.47	45	2.56553	34.8	3.3	45	2.688827	34.3	3.14
40	2.510291	34.241	3.3	40	2.63	33.756	3.14	40	2.76	33.271	2.98
35	2.578242	33.21377	3.13	35	2.7	32.74332	2.98	35	2.83	32.27287	2.83
30	2.646192	32.21736	2.97	30	2.77	30.37166	2.7	30	2.9	29.93644	2.57
25	2.714143	28.4	2.56	25	2.840169	28	2.44	25	2.966019	27.6	2.32
20	2.5957	26.112	2.47	20	2.7604	25.8	2.33	20	2.884	26.145	2.26
17	2.57	25.6	2.42	17	2.68	25.3	2.31	17	2.8	24.9	2.2
15	2.4929	24.576	2.39	15	2.5996	24.288	2.27	15	2.716	23.904	2.16
10	4.2228	32.94	2.04	10	4.420275	31.2	1.84	10	4.590287	30.888	1.78
5	4.14	30.5	1.91	5	4.291529	30	1.83	5	4.456589	29.7	1.75
0	3.680944	27.45	1.9	0	3.813647	27	1.82	0	3.96	26.73	1.74
-5	2.714143	23.607	1.84	-5	2.840169	23.8	1.81	-5	2.966019	23.5224	1.73
-10	2.762832	19.82988	1.76	-10	2.857882	20.196	1.74	-10	2.96	19.99404	1.69
-15	2.303777	16.7	1.73	-15	2.38	16.4	1.65	-15	2.46	16	1.58
-20	2.0734	14.195	1.62	-20	1.9	13.12	1.57	-20	1.97	12.8	1.52

HEATING PERFORMANCE EXTENDED RATINGS

A7SCP18V60P - 7AH1AV60PX - 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	1035	19.303	0.76	19.594	0.78	19.012	0.77	18.818	0.83
	1160	19.9	0.7	20.2	0.72	19.6	0.72	19.4	0.77
	1615	20.298	0.67	20.604	0.69	19.992	0.69	19.788	0.74
70° F	1035	12.125	1.12	14.841	0.81	15.229	0.79	15.714	0.78
	1160	12.5	1.03	15.3	0.75	15.7	0.73	16.2	0.73
	1615	12.75	0.99	15.606	0.72	16.014	0.7	16.524	0.7
75° F	1035	11.64	0.9	12.707	0.79	13.192	0.79	13.58	0.8
	1160	12	0.83	13.1	0.73	13.6	0.73	14	0.74
	1615	12.24	0.8	13.362	0.71	13.872	0.7	14.28	0.71

A7SCP18V60P - 7AH1AV60PX - 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	1500	57.424	4.01	54.126	4.86	45.687	5.01	42.292	6.25	24.638	3.13
	1675	59.2	3.71	55.8	4.5	47.1	4.64	43.6	5.79	25.4	2.89
	2190	60.384	4.01	56.916	4.86	48.042	4.45	44.472	5.56	25.908	2.78
70° F	1500	53.544	3.45	51.798	4.44	44.814	5.18	41.71	6.52	24.347	3.41
	1675	55.2	3.19	53.4	4.11	46.2	4.8	43	6.04	25.1	3.16
	2190	56.304	3.45	54.468	4.44	47.124	4.61	43.86	5.8	25.602	3.03
75° F	1500	51.119	3.42	50.634	4.61	43.844	5.36	40.837	6.71	23.862	3.62
	1675	52.7	3.17	52.2	4.27	45.2	4.96	42.1	6.21	24.6	3.35
	2190	53.754	3.42	53.244	4.61	46.104	4.76	42.942	5.97	25.092	3.22

A7SCP18V60P - 7AH1AV60PX - INDOOR COIL AIR VOLUME - 1675CFM

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	3.70811	59.2	3.68	65	3.192894	55.2	3.87	65	3.16735	52.7	3.7
60	3.70811	57.424	3.35	60	3.192894	53.544	3.53	60	3.16735	51.119	3.36
55	4.339055	55.70128	3.05	55	3.696447	51.93768	3.24	55	3.768675	49.58543	3.04
50	4.654528	56.60064	2.94	50	3.948223	53.46884	3.17	50	4.069337	51.69271	2.98
47	4.97	57.5	2.83	47	4.2	55	3.1	47	4.37	53.8	2.94
45	4.503997	55.8	2.98	45	4.109324	53.4	3.06	45	4.267956	52.2	2.91
40	4.537188	54.126	2.87	40	4.28	51.798	2.88	40	4.44	50.634	2.72
35	4.570379	52.50222	2.77	35	4.45	50.24406	2.7	35	4.61	49.11498	2.57
30	4.60357	50.92715	2.66	30	4.62	48.22203	2.51	30	4.78	47.15749	2.39
25	4.636761	47.1	2.45	25	4.799706	46.2	2.33	25	4.962121	45.2	2.22
20	4.5032	45.217	2.42	20	4.6592	44.29	2.3	20	4.7689	44.205	2.25
17	4.33	43.9	2.42	17	4.48	43	2.3	17	4.63	42.1	2.19
15	4.2434	41.705	2.33	15	4.727936	41.71	2.13	15	4.88	40.837	2.04
10	5.9058	46.216	1.96	10	6.220567	44.72	1.82	10	6.338888	43.784	1.74
5	5.79	43.6	1.89	5	6.039386	43	1.79	5	6.214596	42.1	1.71
0	5.6742	41.856	1.84	0	5.918598	41.28	1.75	0	6.090304	40.416	1.66
-5	4.636761	40.18176	1.8	-5	4.799706	39.6288	1.71	-5	4.962121	38.79936	1.64
-10	2.980229	26.162	1.94	-10	3.253866	25.853	1.79	-10	3.451962	25.338	1.66
-15	2.893426	25.4	1.9	-15	3.159093	25.1	1.78	-15	3.35142	24.6	1.66
-20	2.604084	21.59	1.75	-20	2.843184	21.335	1.64	-20	3.016278	20.91	1.52

REVISIONS

Sections	Description of Change
Cooling & Heating Performance Extended Ratings	Added extended ratings data for cooling and heating performance
Accessories	Added system accessories, including details on where used, kit number, and purpose
Dimensions	Added dimensions with wind baffle and snow hood accessories



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NOTE - Due to our 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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