

R32
sapphire

THE PREMIER GEM OF
HEATING AND COOLING



THE HALLMARK OF ELEGANCE, EFFICIENCY
AND PERFORMANCE

Sapphire is the product of choice for its sleek design, quiet operation, and industry-leading efficiency. For all applications, the performance data speaks for itself. Experience the next generation of mini-splits.

- UP TO 30.0 SEER2 / 16.8 EER2 / 11.2 HSPF2 EFFICIENCY
- COOLING RANGE: -20°F - 122°F
- HEATING RANGE: -22°F - 86°F
- MAXIMUM LINE LENGTH: 131 FT.

- Precise airflow control
- Intelligent pre-heating & defrost
- Auto-Clean
- Self-diagnosis
- Multiple fan speeds
- Automatic voltage adaptation & low voltage start-up
- Sleep & Timer functions
- Swing louver control



SYSTEM TYPE		HEAT PUMP				
Outdoor Model		SAP09HP230V1R32AO	SAP12HP230V1R32AO	SAP18HP230V1R32AO	SAP24HP230V1R32AO	
Indoor Model		SAP09HP230V1R32AH	SAP12HP230V1R32AH	SAP18HP230V1R32AH	SAP24HP230V1R32AH	
SYSTEM PERFORMANCE						
Cooling Capacity	Min - Max	Btu/h	1365 - 12966	2900 - 15354	4435 - 25590	5800 - 31400
	Capacity @95°F	Btu/h	9100	12000	18000	22000
Heating Capacity	Min - Max	Btu/h	2730 - 17060	3070 - 17060	5118 - 26272	5800 - 33100
	Rated Capacity @95°F	Btu/h	10600	12200	18595	24000
	Rated Capacity @17°F	Btu/h				
	Rated Capacity Max @5°F	Btu/h				
SEER2			30.0	27.0	27.5	27.5
EER2			16.8	15.2	14.3	14.0
HSPF2			11.2	10.0	9.7	10.0
COP @5°F						
COP @47°F			4.4	4.6	4.1	3.9
Cooling Temperature Range		°F	-20 - 122	-20 - 122	-20 - 122	-20 - 122
Heating Temperature Range		°F	-22 - 86	-22 - 86	-22 - 86	-22 - 86
Refrigerant Type			R32			
INDOOR UNIT		SAP09HP230V1R32AH	SAP12HP230V1R32AH	SAP18HP230V1R32AH	SAP24HP230V1R32AH	
Air flow (Min - Max)	CFM	265 - 506	353 - 565	471 - 736	353 - 765	
Sound Pressure Level (Min - Max)	dB(A)	23 - 42	27 - 43	35 - 49	36 - 53	
Dehumidification	pt/hr	1.69	2.96	3.80	7.40	
External Dimensions (W x H x D)	in	38-3/16 x 13-21/32 x 10-1/8	38-3/16 x 13-21/32 x 10-1/8	43-45/64 x 13-21/32 x 10-1/8	43-45/64 x 13-21/32 x 10-1/8	
Package Dimension (W x H x D)	in	40-7/16 x 13-11/32 x 16-1/2	40-7/16 x 13-11/32 x 16-1/2	45-55/64 x 13-21/32 x 16-1/2	45-55/64 x 13-21/32 x 16-1/2	
Net Weight	lbs	33.1	33.1	38.6	39.7	
Gross Weight	lbs	38.6	38.6	45.2	46.3	
OUTDOOR UNIT		SAP09HP230V1R32AO	SAP12HP230V1R32AO	SAP18HP230V1R32AO	SAP24HP230V1R32AO	
Sound Pressure Level	dB(A)	56	55	59	62	
External Dimensions (W x H x D)	in	34-3/8 x 21-27/32 x 14-51/64	34-3/8 x 21-27/32 x 14-51/64	37 23/32 x 25 63/64 x 15 53/64	39 3/8 x 29 3/8 x 16 13/16	
Package Dimension (W x H x D)	in	37-7/16 x 24-13/32 x 16-31/32	37-7/16 x 24-13/32 x 16-31/32	40-5/8 x 29-1/64 x 17-61/64	42-33/64 x 31-57/64 x 19-1/64	
Net Weight	lbs	78.3	78.3	94.8	115.8	
Gross Weight	lbs	84.9	84.9	104.7	126.8	
REFRIGERANT PIPING						
Refrigerant Charge - R410A	oz	35.3	35.3	47.6	56.4	
Additional Charge	oz/ft	0.2	0.2	0.4	0.4	
Line Set Size (Liquid - Gas) - Flared Connections	in	1/4 - 1/2	1/4 - 1/2	1/4 - 5/8	1/4 - 5/8	
Pre-Charge Length	ft	25				
Pipe Length (Min - Max)	ft	10 - 131	10 - 131	10 - 131	10 - 131	
Max. Pipe Elevation	ft	82	82	82	82	
SYSTEM PERFORMANCE						
Power Supply		208-230V / 1Ph / 60Hz (Powered by the Outdoor Unit)				
Voltage Range (Min - Max)	VAC	187 - 253				
Rated Current - Cooling	A	5.9	5.9	12.5	14	
Rated Current - Heating	A	7.6	7.8	16	21.5	
MCA	A	11	11	20	25	
MOCP	A	15	15	25	40	
Suggested Breaker Size	A	15	15	20	25	
Main Power Wire Size	AWG	Per Local Code				
Interconnecting Wire Size	AWG	14 / 4				
LIMITED WARRANTY		5 Years Parts, 7 Years Compressor - Residential & Commercial				