

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	1,365 - 12,966	2,900 - 17,060	4,435 - 25,590	5,800 - 31,400
	Rated Capacity @95°F	Btu/h	9,100	12,000	18,000	22,000
Heating Capacity	Min - Max	Btu/h	2,730 - 17,060	3,070 - 18,766	5,118 - 26,272	5,800 - 33,100
	Rated Capacity @47°F	Btu/h	10,600	12,200	18,600	24,000
	Rated Capacity @17°F	Btu/h	8,900	10,300	15,500	20,000
	Rated Capacity @5°F	Btu/h	11,500	12,200	18,000	24,000
SEER2			30.0	28.0	27.5	27.0
EER2			16.8	15.2	14.3	13.95
HSPF2			11.2	10.0	10.0	10.0
COP @5°F			2.11	2.0	1.8	1.8
Energy Star® South			YES	YES	NO	NO
Energy Star® Certified with Cold Climate Designation			YES	YES	YES	NO
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	
Compressor Type		GREE G20 / DOUBLE CYLINDER / 1 - STAGE INVERTER				
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	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	
ELECTRICAL						
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	
MOCP	A	15	15	25	30	
MCA	A	11	11	23	25.5	
Main Power Wire Size	AWG	Per Local Code				
Interconnecting Wire Size	AWG	14 / 4				
LIMITED WARRANTY		5 Years Parts, 7 Years Compressor - Residential & Commercial				