

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	7,971 - 15,942	9,554 - 19,107	10,768 - 27-381	17,654 - 35,308
	Capacity @95°F	Btu/h	9,100	12,000	18,000	22,000
Heating Capacity	Min - Max	Btu/h	8,134 - 16,600	8,632 - 18,766	9,878 - 27,743	16,111 - 32,879
	Capacity @47°F	Btu/h	10,600	12,200	18,600	24,000
	Capacity @17°F	Btu/h	8,900	10,300	15,500	20,000
	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
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			