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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

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GREE_SAPPHIRE_R32_080524



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 - 15,354	4,435 - 25,590	5,800 - 31,400
	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 - 17,060	5,118 - 26,272	5,800 - 33,100
	Rated Capacity @95°F	Btu/h	10,600	12,200	18,595	24,000
	Rated Capacity @17°F	Btu/h	6,700	7,000	11,800	18,000
	Rated Capacity Max @5°F	Btu/h	11,500	12,200	15,000	24,000
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			2.1	2.0	1.8	1.8
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		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			