



sapphire

World-Class Performance
Up to 38 SEER
Ultra Heating



Introducing **Sapphire**, the ultra high-efficiency smart ductless split system from Gree, one of the world's most trusted HVAC manufacturers. You can keep any room comfortable without sacrificing aesthetics. The quiet, unobtrusive design delivers advanced performance with an industry-best energy efficiency rating of up to 38 SEER in cooling and 15.0 HSPF in heating.

The Sapphire provides ULTRA Heating technology to keep you reliably warm when temperatures drop as low as -22°F.

Universal WIFI technology makes operation simple – enjoy direct control from your smartphone using the GREE+ app.

Unparalleled efficiency and technology make **Sapphire** the perfect choice for any home or office.



sapphire

ULTRA HEATING Technology that gives true year round comfort in cold climate by delivering up to 90% heating capacity at -22° F.

VARIABLE SPEED TWO-STAGE COMPRESSOR

Gree's advance 2-stage compressor provides extended heating capacity at ultra-low temperature and additional cooling capacity in high temperature environments.

G-10 INVERTER TECHNOLOGY Gree's G-10 Inverter Technology gives the Sapphire system a wide range of heating and cooling capacities to reach the desired room temperature much faster and maintain consistent comfort levels year round.



QUIET OPERATION Cutting operation noise to a minimum, the Sapphire series is among the industry's quietest outdoor units.

HEAT PUMP ADVANTAGE Gree heat pumps, powered by the G-10 Inverter, provide heat at up to 1/3 the cost of electric heat.

RESILIENT CONSTRUCTION The outdoor unit has a robust, heavy gauge steel frame construction which is easy to maintain while providing years of reliable operation.

LOW VOLTAGE START-UP The Sapphire System will operate from 187V to 253V adapting to unstable power supply areas, avoiding system failure.

INTELLIGENT DEFROST Saving energy by defrosting only when needed, the Sapphire series monitors the frost build up on the coil surface.

TIME GUARD Among the system's many safeties is a Time Guard function to prevent rapid cycling of the compressor. A protective time delay restricts compressor restarts after shutoff.

SELF-DIAGNOSTICS The system has a built-in computer which uses real-time diagnostics which help prolong the unit's life. The automatic diagnostics feature continuously scans for errors or malfunctions and fault codes are shown on the unit display to facilitate troubleshooting and repair.

Features and Benefits

ULTRA HIGH EFFICIENCY

Seasonal rating of up to 38 SEER cooling and 15 HSPF heating, making it among the most energy efficient heat pumps available today.

ENERGY STAR® Energy Star rated, recognized nationwide for products with high efficiency and lower utility costs.





Features and Benefits

4-WAY AIRFLOW 4-way adjustable swing louvers can direct the airflow anywhere it is needed in the room.

WHISPER QUIET OPERATION The Sapphire operates below typical library sound levels with sound ratings as low as 19 dB(A).

SUBTLE APPEARANCE The wall-mounted units are designed to blend well in any living space. The slim compact cabinet hangs inconspicuously on the wall and mixes well with most interior designs.

UNIT DISPLAY Sapphire wall-mounted units have an easy-to-read backlit display and indicator lights, which provide information on room set point and operating mode, among other features. The display may be turned off for your convenience.

7 SPEED FAN The indoor fan can operate at different speeds, up to seven, for COOL or HEAT mode to provide maximum comfort and quiet operation.

180° VERTICAL AIR SUPPLY Wide angle air guides enable a full 180° swing up and down for superior air distribution throughout the room.

POWER FAILURE MODE If the power is interrupted and returns, your comfort will not be compromised, the system will automatically return to the last operating mode.

INTELLIGENT PREHEATING The Sapphire series monitors the discharge air temperature, and delays the indoor fan until the coil has warmed up to prevent uncomfortable cold air blowing into the room.

POLYMERIC AIR FILTERS Protect your unit and improve air quality by preventing dust and debris from degrading system performance. The filters are washable and permanent for your convenience.

Controller Features

WIRELESS REMOTE CONTROLLER

The multi-functional hand-held wireless controller is sleek, ergonomically designed and easy to use with a large LCD display.



TIMER The unit may be programmed to turn ON or OFF after a selected time.

I FEEL MODE Senses the room temperature from the remote control (cooling mode only) which is closest to you, instead of at the indoor unit. This means that it will adjust airflow and temperature for maximum personal comfort.

PRIVACY LOCK MODE Hand held remote controllers feature a privacy lock to prevent unauthorized access to system settings.

CONTROL THE COMFORT WITH YOUR SMARTPHONE

For the ultimate in convenience, the Sapphire has Universal WIFI and smartphone control. Simple and easy, allowing you to adjust comfort levels from anywhere you have WIFI access through your smartphone. The system is compatible with devices using standard Android or IOS operating systems.

SLEEP MODE The Sapphire provides three sleep mode options that automatically adjust the room's temperature. The slight shift in temperature will not affect your comfort level but it will significantly save in energy consumption.

FAHRENHEIT °F / CELSIUS °C The Sapphire controllers can be programmed to display the temperature reading in °F or °C.

System Features



AGENCY LISTINGS All systems are listed with AHRI (Air Conditioning, Heating, and Refrigeration Institute) and are ETL Certified per UL Standards.

5 YEAR LIMITED WARRANTY Enjoy one of the most comprehensive warranties in the industry with 5-year on parts coverage.



MODELS		SAP09HP230V1A	SAP12HP230V1A	SAP18HP230V1A	SAP24HP230V1A
System Type		HEAT PUMP			
SYSTEM PERFORMANCE					
Cooling Capacity (min-max)	Btu/h	9,000 (1,535-12,966)	12,000 (2,900-15,354)	18,000 (4,094-21,837)	22,000 (6,800-30,700)
Heating Capacity (min-max)	Btu/h	9,000 (2,388-13,648)	12,200 (3,071-18,766)	18,000 (4,094-24,566)	24,000 (6,800-32,000)
SEER/EER		38.0/16.5	30.5 / 15.3	24.5 / 13.5	21.5 / 13.0
HSPF/COP		15.0 / 4.47	14.0 / 3.8	12.0 / 3.52	12.0 / 3.5
Energy Star®		Yes	Yes	Yes	Yes
Cooling Temperature Range	°F	0 - 129	0 - 129	0 - 129	0 - 129
Heating Temperature Range	°F	-22 - 75	-22 - 75	-22 - 75	-22 - 75
INDOOR UNIT					
Air flow (min-max)	CFM	206 - 424	235 - 500	353 - 736	383 - 824
Sound Level (min-max)	dB(A)	19 - 45	22 - 49	34 - 51	34 - 54
Dehumidification	pt/hr	1.69	2.96	3.8	4.23
Unit Dimension (WxHxD)	in	39.9 x 12.1 x 8.7	39.9 x 12.1 x 8.7	44.2 x 13.0 x 9.7	44.2 x 13.0 x 9.7
Package Dimension (WxHxD)	in	42.5 x 14.9 x 12.4	42.5 x 14.9 x 12.4	47.0 x 16.1 x 13.8	47.0 x 16.1 x 13.8
Weight (Net/Gross)	lbs	29.8 / 36.4	29.8 / 37.5	36.4 / 43.0	36.4 / 43.0
OUTDOOR UNIT					
Compressor Type		G-10 INVERTER DRIVEN 2-STAGE ROTARY			
Sound Level	dB(A)	53	53	59	59
Unit Dimension (WxHxD)	in	35.4 x 23.5 x 14.9	35.4 x 23.5 x 14.9	38.6 x 31.1 x 16.8	38.6 x 31.1 x 16.8
Package Dimension (WxHxD)	in	37.3 x 25.4 x 16.5	37.3 x 25.4 x 16.5	42.6 x 33.7 x 19.2	42.6 x 33.7 x 19.2
Weight (Net/Gross)	lbs	99.2 / 105.8	99.2 / 105.8	141.1 / 152.1	147.7 / 158.8
Refrigerant Charge - R410A	oz	45.9	49.4	74.1	81.1
Coil Type		Copper / Aluminum with Acrylic Resin Coating			
INSTALLATION					
Line Set Size (Liquid - Gas)	in	1/4 - 1/2	1/4 - 1/2	1/4 - 5/8	1/4 - 5/8
Pre-Charge Length	ft	25	25	25	25
Max. Line Run	ft	49	98	131	164
Max. Elevation	ft	33	49	66	98
ELECTRICAL					
Voltage / Phase / Hertz		208-230V /1/ 60Hz	208-230V /1/ 60Hz	208-230V /1/ 60Hz	208-230V /1/ 60Hz
Rated Current Cooling	amps	6.2	6.5	10.8	16.4
Rated Current Heating	amps	6.9	6.9	10.8	16.4
MCA	amps	9	9	22	22
MOCP	amps	15	15	30	35
Interconnecting Wire		AWG14 / 4	AWG14 / 4	AWG14 / 4	AWG14 / 4
Limited Warranty		5 Years on Parts			



Specifications are subject to change without notice. Manufacturer reserves the right to discontinue or change at any time, specifications or designs without notice or without incurring obligations.
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