Vireo

Presenting the new **Vireo** inverter heat pump mini-split from Gree, the most trusted HVAC manufacturer in the world. With the highest cutting edge technology, it is driven by Gree's famous G10 inverter compressor system up to 23 SEER, achieving energy savings year around.

The product also has unparalleled features that make it a perfect option for your home or office needs.. Its aesthetic and minimalistic design blends well with any décor and its high-quality construction guarantees a long product life. In addition, the system has a convenient control center that allows complete control of the temperature, operation, fan speed, airflow direction and more. The **Vireo** is a smart decision all around, combining world-class technology, aesthetic design and cool comfort that will not impact the environment or your wallet.

FEATURES
AND
BENEFITS

XK-41 Tether Controller
(Sold Separately)

MINIMALISTIC DESIGN | The unit is designed to blend well in any living space. The slim compact cabinet hangs inconspicuous on the wall and mixes well with most interior designs.

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

MULTIPLE SPEED FAN | The indoor fan can operate at different speeds, up to four (low, medium, high or turbo) for COOLING or HEATING mode, optimizing maximum comfort and quiet operation.

CONTROL CENTER | The Vireo comes with a multi-functional infrared hand held remote control. It is sleek, easy to use and ergonomically designed with a large LCD display. An optional XK-41 Wired Tether Controller can be mounted to the wall up to 30 feet from the unit. Both provides compete control over operation mode, temperature, fan speed, airflow among other functions.

TIMER | The unit may be programmed to turn ON or OFF after a selected time period. The time period can be adjusted between one half hour and 24 hours.

I FEEL MODE | This feature allows the unit to sense the room temperature from the remote control which is closest to you, instead of the indoor unit, this means that it will adjusts for airflow and temperature for maximum personal comfort in cooling mode.

ADJUSTABLE AIRFLOW | The Vireo system has a bi-directional airflow control for maximum comfort. The indoor unit has adjustable vertical swing louvers and can be set in multiple discharge directions from the wireless or wired controllers.

PRIVACY LOCK MODE | Both the wired and wireless controllers have a privacy lock to prevent unauthorized access that can tamper system settings.

SLEEP MODE | The Vireo has three sleep modes that automatically adjust the room's temperature during your sleep. The slight shift in temperature in these models will not affect your comfort level but it will significantly save in energy consumption.

QUIET MODE | The Vireo will function at very low noise levels, to achieve this the unit will operate at normal speed for the first ten (10) minutes or until the room set point temperature is reached, then it will operate quietly and a low fan speed.

ENERGY SAVINGS MODE | This feature will automatically select the optimal compressor and fan speeds to allow for energy savings while operating in Cooling or Heating modes. The compressor and fan will automatically slow down as the room temperature reaches the set point.

FAHRENHEIT ° F / CELSIUS ° C | The wired and wireless controllers can be programmed to display the temperature reading in °F or °C.

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

HIGH EFFICIENCY G-10 INVERTER TECHNOLOGY | The G10 inverter operates at different capacities , making it is the most efficient technology today. Unlike conventional systems, that regulate room temperatures running at the maximum capacity and then turning off completely, the G10 inverter technology eliminates these frequent starts/stops. The inverter technology ensures the system will reach the desired temperature much faster and maintain consistent comfort levels, therefore achieving higher efficiency and significant energy savings.

HEAT PUMP ADVANTAGE | Gree heat pumps, powered by the G10 Inverter, provide the same heating capacity as electric heat, while using as little as 1/3 of the electricity.

RESILIENT CONSTRUCTION | The outdoor condensing 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 system will operate from 170V to 253V (230V models) and 104V to 127V (115V models) adapting to unstable power supply areas and avoiding system failure.

QUIET OPERATION | the Vireo system will not disturb your comfort as it operates very quietly, with indoor sound levels as low as 26 dB(A).

INTELLIGENT DEFROST | this function increases energy savings by defrosting only when needed.

BLUE FIN CONDENSER | Blue Fin condenser coating maintains excellent heat transfer properties and provides years of reliable service.

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. This is thanks to the system's memory which stores user selections and system parameters.

INTELLIGENT PRE-HEATING | This convenient feature monitors the discharge air temperature, and delays the indoor fan until the coil has warmed up to prevent uncomfortable blowing cold air into the room.

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

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

5/7 YEAR LIMITED WARRANTY | Enjoy one of the most comprehensive warranty in the industry. Seven (7) years on compressor and Five (5) years.

GREE

MODEL		VIR09HP115V1A	VIR12HP115V1A	VIR09HP230V1A	VIR12HP230V1A	VIR18HP230V1A	VIR24HP230V1A	VIR30HP230V1A	VIR36HP230V1A
System Type					HEAT PUMP				
SYSTEM PERFORMANCE									
Cooling Capacity (min-max)	Btu/h	9,000 (2,764-10,918)	12,000 (3,514-14,569)	9,000 (3,100-9,600)	12,000 (3,100-13,000)	18,000 (6,800-20,000)	22,000 (6,824-27,296)	28,000 (9,485-30,026)	33,600 (7,404-35,997)
Heating Capacity (min-max)	Btu/h	9,900 (2,081-13,989)	12,200 (2,764-16,582)	11,000 (1,911-12,000)	13,000 (2,400-14,000)	19,800 (7,340-23,500)	23,000 (6,824-30,708)	28,400 (9,997-32,994)	34,600 (14,979-35,997)
SEER/EER		23 / 13.0	22 / 12.5	23 / 14.0	22 / 12.5	20 / 12.5	20 / 12.5	18 /10.4	18 /8.2
HSPF/COP		11.0/3.1	11.0/3.6	11.0/3.2	10.1 /3.5	11.0/4.7	10.0 / 3.4	9.0 / 3.0	9.0 / 2.7
Energy Star®		Yes	Yes	Yes	Yes	Yes	Yes	No	No
Cooling Temperature Range	°F	0 ~ 115	0 ~ 115	0 ~ 115	0 ~ 115	0 ~ 115	0 ~ 115	0 ~ 115	0 ~ 115
Heating Temperature Range	°F	-4 ~ 75	-4 ~ 75	-4 ~ 75	-4 ~ 75	-4 ~ 75	-4 ~ 75	-4 ~ 75	-4 ~ 75
INDOOR UNIT									
Air flow (min-max)	CFM	171-377	171-400	171-377	171-400	335-559	530-706	412-706	412-736
Sound Pressure Level (min-max)	db(A)	26-43	28-45	29-43	29-45	39-47	36-48	37-51	37-54
Dehumidification	pt/hr	1.7	3.0	1.7	3.0	3.8	4.2	6.3	7.4
Unit Dimension (WxHxD)	in	33.4 x 11.4 x 8.2	33.4 x 11.4 x 8.2	33.4 x 11.4 x 8.2	33.4 x 11.4 x 8.2	38.2 x 11.8 x 8.8	42.4 x 12.8 x 9.7	53.1 x 12.8 x 10.0	53.1 x 12.8 x 10.0
Package Dimension (WxHxD)	in	36.3 x 14.9 x 11.1	36.3 x 14.9 x 11.1	36.3 x 14.9 x 11.1	36.3 x 14.9 x 11.1	41.0 x 15.1 x 12.6	45.2 x 16.3 x 13.8	56.7 x 16.6 x14.1	56.7 x 16.6 x14.1
Net/Gross (Packaged)Weight	lbs	23 / 28	23 / 28	22 / 27	22 / 27	29 / 35	34 / 42	42 / 52	42 / 52
OUTDOOR UNIT									
Compressor Type					DC INVERTER DRIVEN ROTARY				
Sound Pressure Level	db(A)	53	53	53	54	55	59	62	65
Unit Dimension (WxHxD)	in	33.4 x 21.3 x 12.6	33.4 x 21.3 x 12.6	33.4 x 21.3 x 12.6	33.4 x 21.3 x 12.6	37.6 x 27.6 x 15.6	38.6 x 31.1 x 16.8	38.6 x 31.1 x 16.8	38.6 x 31.1 x 16.8
Package Dimension (WxHxD)	in	34.7 x 23.4 x 14.3	34.7 x 25.4 x 14.3	34.7 x 23.4 x 14.3	34.7 x 25.4 x 14.3	40.5 x 29.5 x 18.0	42.6 x 33.7 x 19.2	42.6 x 33.7 x 19.2	42.6 x 33.7 x 19.2
Net/Gross (Packaged) Weight	lbs	72 / 77	77 / 84	78 / 84	86 / 93	115 / 125	142 / 153	154 / 165	161 / 172
Refrigerant / Charge	oz	R410A / 42.3	R410A / 47.6	R410A / 45.9	R410A / 47.6	R410A / 56.4	R410A / 77.6	R410A / 84.7	R410A / 91.7
INSTALLATION									
Line Set Size (Liquid - Suction)	in	1/4"- 3/8"	1/4"- 1/2"	1/4"- 3/8"	1/4"- 1/2"	1/4"- 5/8"	1/4"- 5/8"	1/4"- 5/8"	1/4"- 5/8"
Pre-Charge Length	ft	25	25	25	25	25	25	25	25
Max. Line Run	ft	50	66	50	66	82	82	98	98
Max. Elevation	ft	33	33	33	33	33	33	33	33
ELECTRICAL									
Power Supply		115V / 60Hz	115V / 60Hz	208-230V / 60Hz	208-230V / 60Hz	208-230V / 60Hz	208-230V / 60Hz	208-230V / 60Hz	208-230V / 60Hz
Rated Current Cooling	amps	11.3	11.5	5.8	6.0	6.9	14.5	17.0	20.0
Rated Current Heating	amps	10.7	12.0	6.0	6.3	8.4	14.5	17.5	20.0
MCA	amps	12	17	9	9	16	20	20	24
MOCP	amps	20	25	15	15	25	30	30	40
Interconnecting Wire					AWG14 / 4				

Test conditions are based on AHRI 210/240.
*1. Rating conditions (cooling)-Indoor: D.B. 80º F (27º C), W.B. 67º F (19º C); Outdoor: D.B. 95º F (35º C), W.B. 75º F (24º C).
  Rating conditions (heating)-Indoor: D.B. 70º F (21º C), W.B. 60º F (16º C); Outdoor: D.B. 47º F (8º C), W.B. 43º F (6º C).

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7 YEAR COMPRESSOR
5 YEAR PARTS

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