

vireo



 **GREE**



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 year round comfort that will not impact the environment or your wallet.

## FEATURES AND BENEFITS



*XK-41 Wired Controller  
(Sold Separately)*

**MINIMALISTIC DESIGN** | The unit is 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** | The Vireo wall-mounted units have an easy-to-read 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.

**MULTIPLE SPEED FAN** | The indoor fan can operate at one of four speeds (low, medium, high or turbo) for cool or heat 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 Controller can be mounted to the wall up to 26 feet from the unit. Both provide

complete 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.

**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 adjust airflow and temperature for maximum personal comfort in cool 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 to system settings.

**SLEEP MODE** | The Vireo has three sleep modes 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.

**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 at 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 cool or heat modes. The compressor and fan will automatically slow down as the room temperature approaches 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-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.





**HIGH EFFICIENCY G-10 INVERTER TECHNOLOGY** | The G10 inverter operates at different capacities, making it 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 heat at up to 1/3 the cost of electric heat, while using as little as 1/3 of the electricity.

**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 system will operate from 187V to 253V (230V models) and 103V to 127V (115V models) adapting to unstable power, avoiding system failure.

**WHISPER QUIET OPERATION** | The Vireo system will not disturb your comfort as it operates below typical library sound levels with dB(A) ratings as low as 26 dB(A).

**INTELLIGENT DEFROST** | This 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 PREHEATING** |

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

**POLYMERIC AIR FILTERS** | Protects your unit and improve air quality by preventing 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.

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



MODELS		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 / 10.35	18 / 8.2
HSPF/COP		11.0 / 3.1	11.0 / 3.6	11.0 / 3.2	11.0 / 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 – 109
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 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 x 14.1	56.7 x 16.6 x 14.1
Weight (Net/Gross)	lbs	23.2 / 27.6	23.2 / 27.6	22.1 / 26.5	22.1 / 26.5	28.7 / 35.3	34.2 / 41.9	41.9 / 51.8	41.9 / 51.8
OUTDOOR UNIT									
Compressor Type		G10 INVERTER DRIVEN ROTARY							
Sound Level (min-max)	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
Weight (Net/Gross)	lbs	71.7 / 77.2	77.2 / 83.8	78.3 / 83.8	86.0 / 92.6	114.7 / 124.6	142.2 / 153.2	154.4 / 165.4	161.0 / 172.0
Refrigerant / Charge R410A	oz	42.3	47.6	45.9	47.6	56.4	77.6	84.7	91.7
Coil Type		Copper / Aluminum with BLUE FIN Coating							
INSTALLATION									
Line Set Size (Liquid - Gas)	in	1/4"- 3/8" Flared	1/4"- 1/2" Flared	1/4"- 3/8" Flared	1/4"- 1/2" Flared	1/4"- 5/8" Flared	1/4"- 5/8" Flared	1/4"- 5/8" Flared	1/4"- 5/8" Flared
Pre-Charge Length	ft	25	25	25	25	25	25	25	25
Max. Line Run	ft	49	66	49	66	82	82	98	98
Max. Elevation	ft	33	33	33	33	33	33	33	33
ELECTRICAL									
Voltage / Phase / Hertz		115V /1/ 60Hz	115V /1/ 60Hz	208-230V /1/ 60Hz	208-230V /1/ 60Hz	208-230V /1/ 60Hz	208-230V /1/ 60Hz	208-230V /1/ 60Hz	208-230V /1/ 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							
Limited Warranty		7 Years on Compressor / 5 Years on Parts							

Test conditions are based on AHRI 210/240.

1. Rating conditions (cooling)-Indoor: D.B. 80°F (27°C), W.B. 67°F (19°C); Outdoor: D.B. 95°F (35°C), W.B. 75°F (24°C).

Rating conditions (heating)-Indoor: D.B. 70°F (21°C), W.B. 60°F (16°C); Outdoor: D.B. 47°F (8°C), W.B. 43°F (6°C).

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