



Technical Product Guide

MULTI MINI-FLOOR CONSOLES

Models:

CONS09HP230V1AF

CONS12HP230V1AF

CONS18HP230V1AF



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PRODUCT OVERVIEW

SUPERIOR DESIGNS PROVIDE EASY SOLUTIONS TO COMPLEX PROBLEMS

GREE Ductless Multi Zone systems provide quiet comfort and energy efficient heating and cooling in up to five different rooms - *without ductwork*. For most residential and light commercial applications, this is the ideal solution to balance comfort, efficiency and ease of installation. This Inverter-driven system offers Seasonal Energy Efficiency Ratings (SEER) up to 16. With individual room control and variable speed compressor operation, comfort is boosted throughout your home or office, while utility bills are held in check.

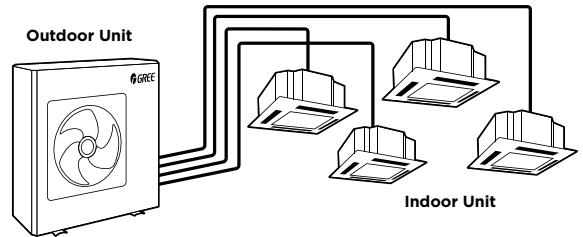


Gree's exclusive G-10 Inverter technology powers the twin rotary compressor inside the Multi Zone outdoor compressor section. The G-10 Inverter constantly adjusts the compressor speed to maintain a comfortable room temperature. This saves energy, reduces outdoor noise and maintains a steady room temperature by eliminating the harsh starts and stops of conventional systems.

When laying out a new project, you'll appreciate the flexibility of Gree's Multi Zone Systems. A single outdoor unit can simultaneously power up to five indoor units while eliminating expensive ductwork. Without those ducts, your installation is simpler, faster and more cost-effective. And the flexibility doesn't stop there, as you can also mix and match your choice of Wall Mount, Ceiling Cassette, Concealed Duct, Universal Floor/Ceiling and Mini Floor Console indoor units to create a unique heating and cooling system to perfectly fit any project.

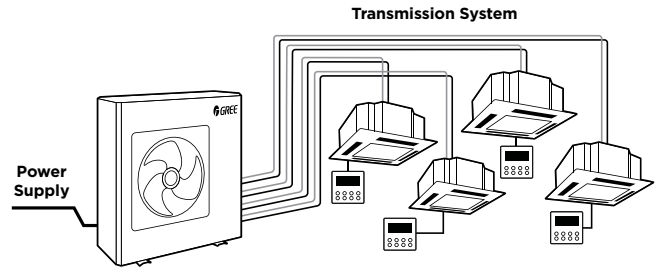
No pipe sweating

No sweating is needed for the pipe connection between the indoor and outdoor units. All piping connections are flared to simplify and ease the piping installation.



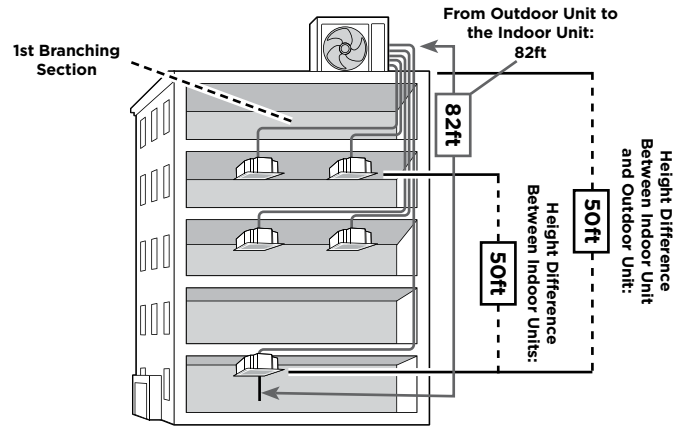
Simple Wiring

No special or hard-to-find communication wire is needed between the indoor and outdoor units. The system uses common 14-4 AWG stranded copper THHN 600V wire. The system's communication is ready as soon as the electrical wiring between the indoor and outdoor units is complete.



High Lift Design

Gree's High Lift design allows for extended piping length, up to 262 feet total, as well as 50 feet of vertical lift from the condensing units. This allows for greater flexibility in the layout of the system.



Allows up to 262 feet of pipe length

Energy Saving

Multi Zone systems allow each room to be individually controlled. Only those rooms requiring air conditioning (or heating) are cooled (or heated), and all of it is accomplished without ductwork. In addition, Gree's G-10 inverter technology reduces energy waste, maximizes efficiency and achieves up to 16 SEER.

PRODUCT OVERVIEW

Self-Diagnostics System

Each indoor and outdoor unit continuously runs a series of multi-point diagnostic tests on the system, to automatically scan for unacceptable operating conditions or malfunctions. If such conditions occur, the system takes corrective action or stops. The fault code will be shown on the indoor, outdoor and wired controller displays. Problems and system status are displayed with comprehensive diagnostic codes to simplify system troubleshooting and shorten repair times.

Flexible Design

Gree's Multi Zone systems have many advantages for both the property owner and the installer. Up to five indoor units, powered by a single outdoor unit, results in flexible zoning solutions for almost any application. Various styles of indoor units may be mixed and matched in any combination to create a unique, multiple zone heating and cooling system. Choose from Wall Mount, Ceiling Cassette, Slim Duct, Universal Floor/Ceiling and Mini Floor Console indoor units. All are lightweight and compact enough to be installed on the wall or in any ceiling space.

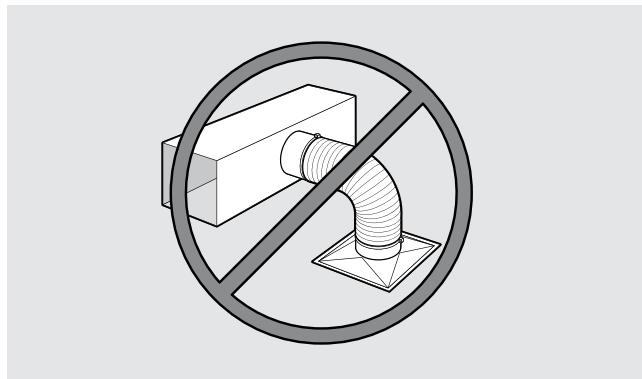
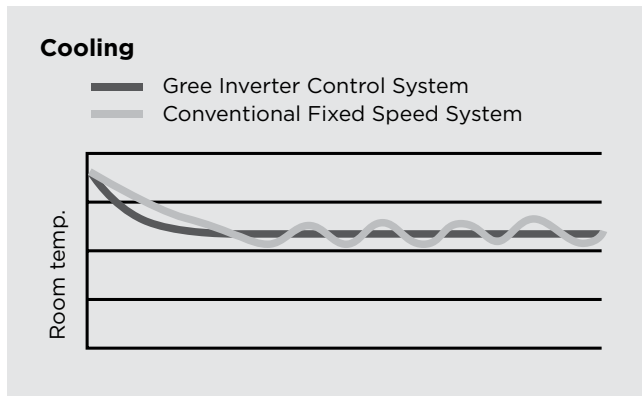
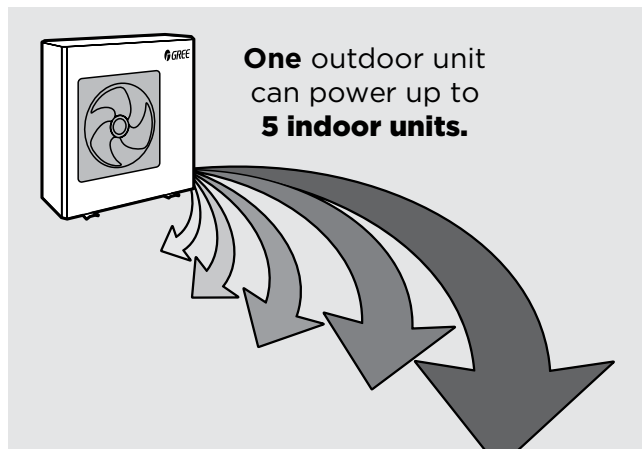
Intelligent Control

Gree's Multi Zone components use state-of-the-art intelligent controls to generate the ultimate in room comfort. G-10 Inverter technology delivers the exact level of required capacity (from 10% to 100%) to maintain room temperature and humidity in the comfort range. The optimized PID controls maintain the room temperature within less than $\pm 1.0^{\circ}\text{F}$ of the room setpoint temperature. The result is a virtually constant room temperature without the typical fluctuations that occur with a conventional fixed speed ON/OFF system.

Ductless Saves Money

Realize energy savings by eliminating heat loss from inefficient and leaky ductwork. The average ducted air distribution system could reduce overall system efficiency by up to 30 percent. Eliminating ductwork allows you to downsize equipment while upsizing performance.

Diagnostic Code	Malfunction
E1	Compressor High Pressure Protection
E2	Indoor Coil Anti-Freeze Protection
E3	Low Pressure Protection
E4	High Discharge Temperature Protection
E5	Compressor High Temperature Protection
E6	Indoor/Outdoor Communication Failure
E7	Heating & Cooling Modes Conflict
E9	Condensate Water Too High
F4	Outdoor Coil Sensor Failure



+Multi Mini-Floor Consoles



Gree's +Multi Mini Console indoor units are aesthetically pleasing and the perfect size for any room. The space saving design provides energy efficient solutions for difficult areas that may not have abundant space on the ceiling or walls. It can be mounted as low as six inches above the floor and has front panel access to the filter for ease of cleaning. Each +Multi Mini Console unit can be operated by an infrared remote controller.

FEATURES AND BENEFITS

Whisper Quiet

Gree systems are energy efficient and quiet. Wall mounted units operate with sound levels starting as low as 25 dB(A).

Modern Appearance

Designed to be a comfortable fit in virtually any living space. This slim compact cabinet sits inconspicuously on the wall, and blends into most interior designs.

Unit Display

Gree wall mounted units have a large, easy-to-read display and indicator lights giving instant feedback on room setpoint, operating mode and much more. The display can also be turned off based on your personal preference.

Multi-Speed Fan

The indoor fan can run at up to four different speeds (Low, Medium, High or Turbo) for either COOLING or HEATING mode for maximum comfort and quiet operation.

Time Guard

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

Power Failure Mode

Power interruptions are no problem. User selections and system parameters are stored in non-volatile memory. These parameters are retained during a power failure. When power is returned, the system will automatically return to the last operating mode.

Intelligent Pre-Heating

The Multi Zone system guards against the annoying COLD BLOW in heating mode, and constantly monitors the discharge air temperature. It will delay the indoor fan until the indoor coil has warmed up to prevent blowing uncomfortable cool air into the room.

IR Wireless Remote Controller

The Gree Multi-functional infrared hand held wireless controller is sleek, ergonomically designed, easy to use and has a large backlit LCD display.

FEATURES AND BENEFITS

Mode Button

The units can be set to five different operating modes: HEAT, COOL, DRY, FAN ONLY and AUTO. *Note: AUTO MODE has fixed setpoints of 68° F heating and 78° F cooling, which are not changeable. The system will automatically select heating or cooling to maintain room temperature within this band.*

Timer Mode

The unit can be programmed to turn ON or OFF after a specific amount time. The time period is adjustable between one half and 24 hours.

Swing Louver

The unit has adjustable swing louvers which can be controlled from the wireless controller. Vertical swing louver allows five different vertical (up & down) air discharge directions including Continuous Sweep. Maximize comfort by adjusting the direction of airflow in the room by moving the louvers up or down.

Privacy Lock Mode

The wireless controller has a Privacy Lock to avert unauthorized access and stop tampering with system settings.

Sleep Mode

The unit will automatically adjust room temperature during sleep time. This slight change in temperature will not affect your comfort level due to the natural effects that sleeping has on the body, but it will save on energy consumption and will lower electric bills.

Fahrenheit °F / Celsius °C

The wireless controller can be set to display in either °F or °C.

Easy To Clean Air Filters

Removable air filters easily slide in and out from the front of the indoor unit. The front panel does not need to be removed to access or change the filter. The filters are washable and permanent.

Self-Diagnosis

With an on-board computer using real-time diagnostics, the Gree Multi Zone system helps to prolong its own life. The automatic diagnosis feature continuously scans for unacceptable operating conditions or malfunctions. If such conditions occur, the system takes corrective action or stops. Fault codes are shown on the unit display to facilitate easy troubleshooting and repair.

Agency Listings

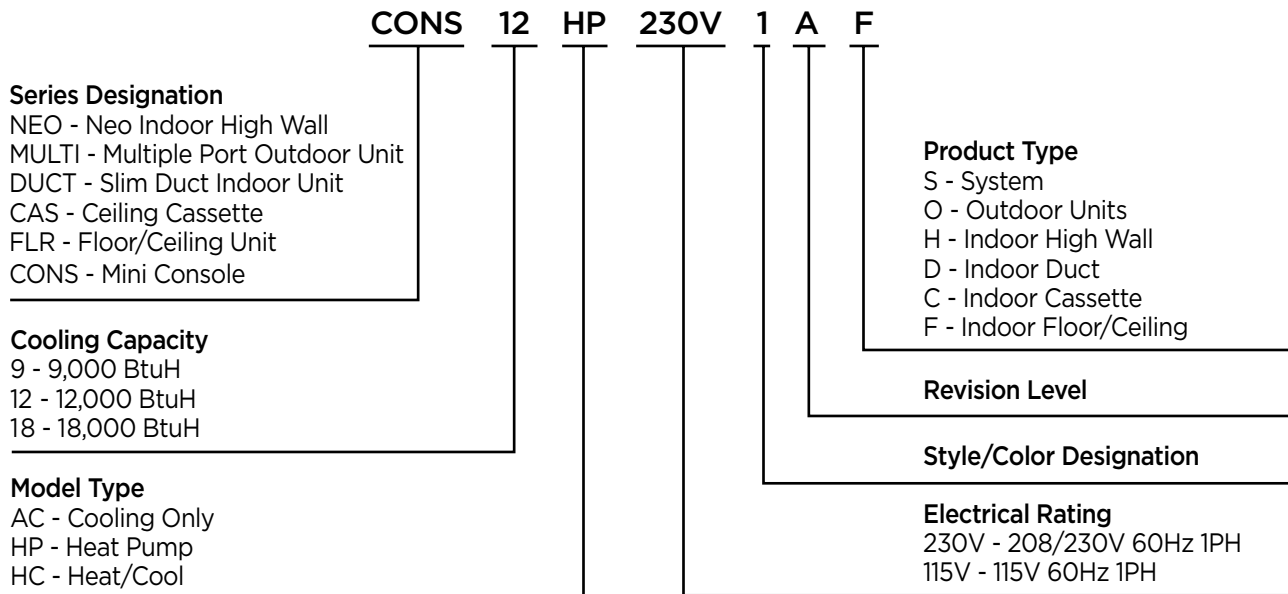
All systems are listed with AHRI (Air conditioning, Heating, and Refrigeration Institute) and are ETL Certified per UL Standards.

7/5 Year Limited Warranty

Enjoy one of the most comprehensive warranties in the industry. Seven (7) years on compressor and Five (5) years on all parts.

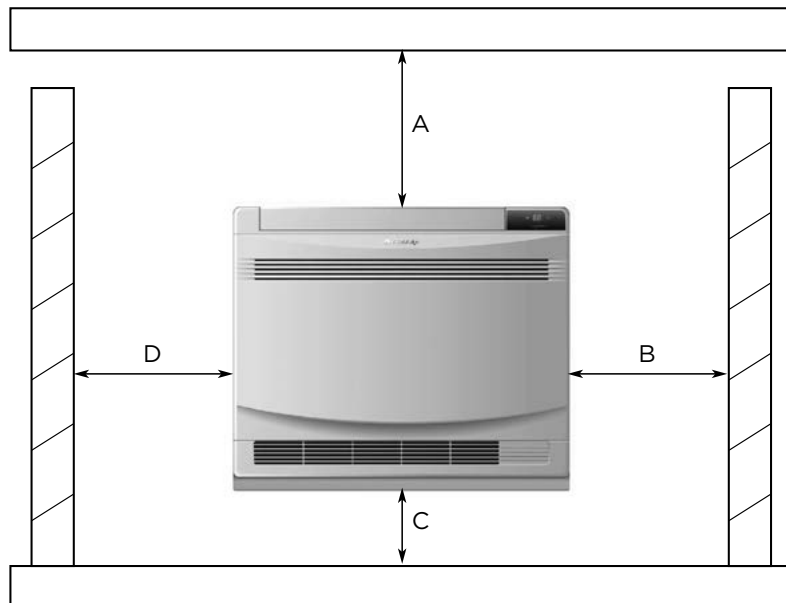
+Multi Mini-Floor Consoles

NOMENCLATURE



MINIMUM INDOOR CLEARANCE SPECIFICATIONS

The unit installation must meet or exceed the following minimum clearances for proper operation.



Dimension	(inches)	(mm)
A	59	1500
B	59	1500
C	6	150
D	59	1500

PERFORMANCE SPECIFICATIONS & DATA

Mini-Floor Console

MODEL NUMBER	COOLING CAPACITY (BtuH)	HEATING CAPACITY (BtuH)	DEHUMIDIFICATION (Pts./hr.)
CONS09HP230V1AF	8,874	9,556	1.7
CONS12HP230V1AF	11,946	12,969	3.0
CONS18HP230V1AF	18,089	19,795	3.8

Mini-Floor Console

MODEL NUMBER	AIR FILTER TYPE	AIR FLOW	FAN TYPE
CONS09HP230V1AF	Polymeric Mesh	4-way	Centrifugal
CONS12HP230V1AF	Polymeric Mesh	4-way	Centrifugal
CONS18HP230V1AF	Polymeric Mesh	4-way	Centrifugal

Mini-Floor Console

MODEL NUMBER	COOLING (CFM)					
	LOW FAN	MEDIUM 1 FAN	MEDIUM 2 FAN	MEDIUM 3 FAN	MEDIUM 4 FAN	HIGH FAN
CONS09HP230V1AF	147	165	194	241	253	294
CONS12HP230V1AF	165	212	235	283	306	353
CONS18HP230V1AF	188	241	265	324	365	383

Mini-Floor Console

MODEL NUMBER	HEATING (CFM)					
	LOW FAN	MEDIUM 1 FAN	MEDIUM 2 FAN	MEDIUM 3 FAN	MEDIUM 4 FAN	HIGH FAN
CONS09HP230V1AF	147	165	194	241	253	294
CONS12HP230V1AF	165	212	235	283	306	353
CONS18HP230V1AF	188	241	265	324	365	383

AIR THROW DATA

Mini-Floor Console

MODEL NUMBER	HEATING (CFM)					
	LOW FAN	MEDIUM 1 FAN	MEDIUM 2 FAN	MEDIUM 3 FAN	MEDIUM 4 FAN	HIGH FAN
CONS09HP230V1AF	2.0	3.6	2.9	3.6	3.9	4.5
CONS12HP230V1AF	2.5	3.1	3.4	4.1	4.6	5.0
CONS18HP230V1AF	3.0	3.4	4.1	4.4	5.1	5.5

+Multi Mini-Floor Consoles

SOUND DATA

Mini-Floor Console - Sound Pressure

MODEL NUMBER	LOW FAN	MEDIUM 1 FAN	MEDIUM 2 FAN	MEDIUM 3 FAN	MEDIUM 4 FAN	HIGH FAN
CONS09HP230V1AF	25 dBA	26 dBA	30dBA	36 dBA	38 dBA	40 dBA
CONS12HP230V1AF	27 dBA	32 dBA	35 dBA	38 dBA	40 dBA	43 dBA
CONS18HP230V1AF	33 dBA	35 dBA	37 dBA	44 dBA	46 dBA	48 dBA

Mini-Floor Console - Sound Power

MODEL NUMBER	LOW FAN	MEDIUM 1 FAN	MEDIUM 2 FAN	MEDIUM 3 FAN	MEDIUM 4 FAN	HIGH FAN
CONS09HP230V1AF	35 dBA	36 dBA	40dBA	46 dBA	48 dBA	50 dBA
CONS12HP230V1AF	37 dBA	42 dBA	45 dBA	48 dBA	50 dBA	53 dBA
CONS18HP230V1AF	43 dBA	45 dBA	47 dBA	54 dBA	56 dBA	58 dBA

Note: 1. Sound pressure ratings are estimated sound pressure measurements, 3 feet from unit.
2. Sound power ratings are per AHRI 270 and AHRI 350.

ELECTRICAL DATA

Mini-Floor Console

MODEL NUMBER	RATED POWER SUPPLY (volt-phase-hz)	VOLTAGE RANGE (volts)	INDOOR FAN	
			RLA (amps)	POWER (watts)
CONS09HP230V1AF	208/230v-1ph-60hz	187-253	0.3	30.0
CONS12HP230V1AF	208/230v-1ph-60hz	187-253	0.3	30.0
CONS18HP230V1AF	208/230v-1ph-60hz	187-253	0.3	30.0

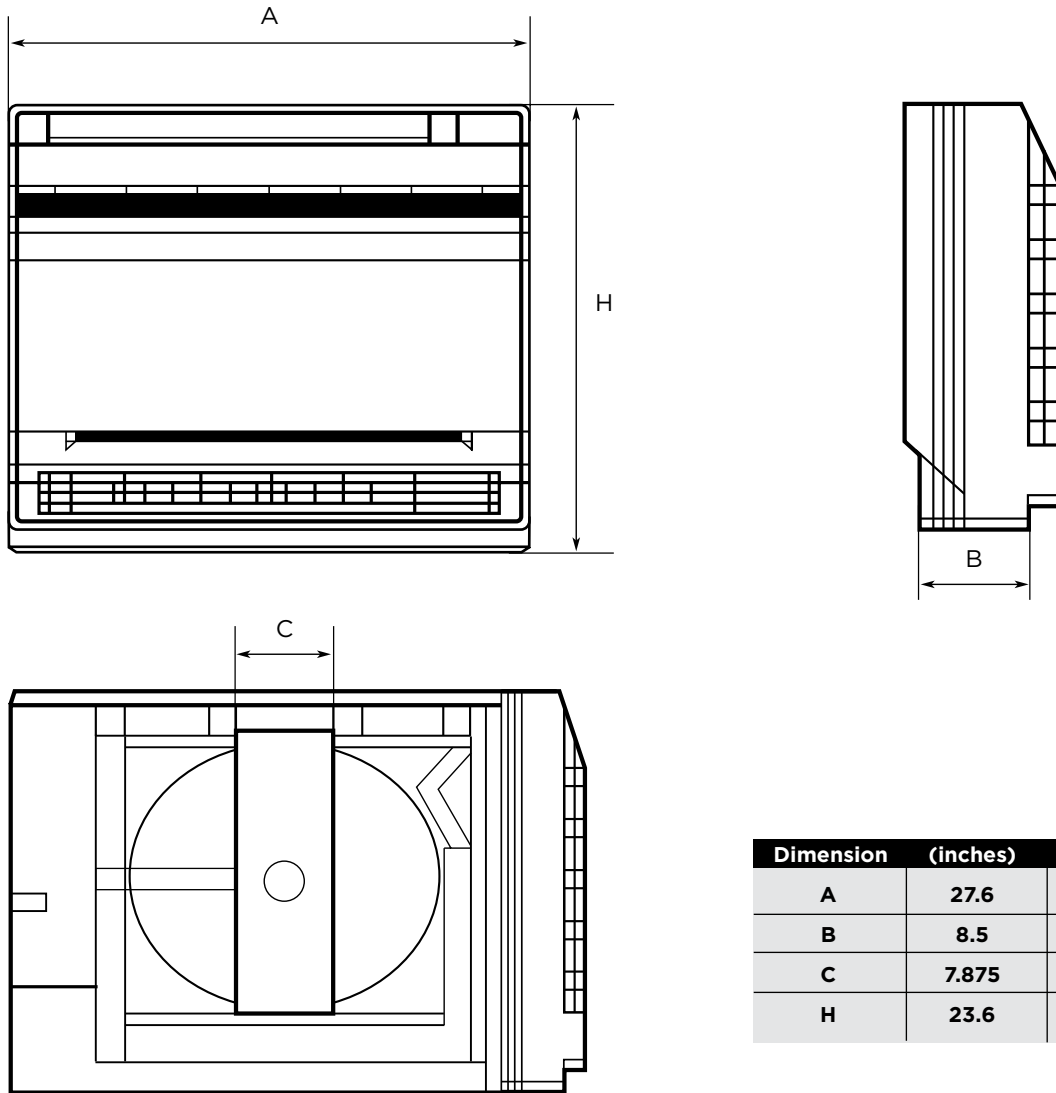
Legend: RLA - Rated Load Amps

PRODUCT WEIGHT

Mini-Floor Console

MODEL NUMBER	PRODUCT WEIGHT	
	NET OPERATING	GROSS SHIPPING
CONS09HP230V1AF	30 lbs.	40 lbs.
CONS12HP230V1AF	30 lbs.	40 lbs.
CONS18HP230V1AF	30 lbs.	40 lbs.

DIMENSIONAL SPECIFICATIONS



Dimension	(inches)	(mm)
A	27.6	700
B	8.5	215
C	7.875	200
H	23.6	600

MODEL NUMBER	SUCTION/GAS LINE PORT SIZE	LIQUID LINE PORT SIZE	DRAIN CONNECTOR
CONS09HP230V1AF	3/8-in OD Flared	1/4-in OD Flared	0.67in/17mm OD
CONS12HP230V1AF	3/8-in OD Flared	1/4-in OD Flared	0.67in/17mm OD
CONS18HP230V1AF	1/2-in OD Flared	1/4-in OD Flared	0.67in/17mm OD

Note: Size refrigerant lines based on evaporator port sizes.

Limited Warranty Statement



DUCTLESS HEAT PUMP MULTI-SPLIT SYSTEMS

Effective on new GREE Ductless purchases on or after March 1, 2013

CONS09HP230V1AF

CONS12HP230V1AF

CONS18HP230V1AF

GREE distributor (hereinafter "Company") warrants this product against failure due to defect in materials or workmanship under normal use and maintenance as follows. All warranty periods begin on the date of original installation. If the date cannot be verified, the warranty period begins one hundred twenty (120) days from date of manufacture. If a part fails due to defect during the applicable warranty period Company will provide a new or remanufactured part, at Company's option, to replace the failed defective part at no charge for the part. This limited warranty is subject to all provisions, conditions, limitations and exclusions listed below.

- A warranty period of Seven (7) years on compressor to the original registered end user.
- A warranty period of Five (5) years on all parts to the original registered end user.
- A warranty period of One (1) year on the remote control provided with the original unit.
- Limited warranty applies only to systems that are properly installed by a state certified or licensed HVAC contractor, under applicable local and state law in accordance with all applicable building codes and permits; GREE installation and operation instructions and good trade practices.
- Warranty applies only to products remaining in their original installation location.
- Defective parts must be returned to the distributor through a registered servicing dealer for credit.

LIMITATIONS OF WARRANTIES

All implied warranties and/or conditions (including implied warranties or conditions of merchantability and fitness for a particular use or purpose) are limited to the duration of this limited warranty, some states or provinces do not allow limitations on how long an implied warranty or condition lasts, so the above may not apply to you. The express warranties made in this warranty are exclusive and may not be altered, enlarged, or changed by any distributor, dealer, or other person, whatsoever.

THIS WARRANTY DOES NOT COVER:

1. Labor or other costs incurred for diagnosing, repairing, removing, installing, shipping, servicing or handling of either defective parts, or replacement parts, or new units.
2. Product cleaning required prior to warranty service and repair.
3. Normal maintenance as outlined in the installation and servicing instructions or Owner's Manual, including filter cleaning and/or replacement and lubrication.
4. Failure, damage or repairs due to faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation.
5. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or damages due to the inadequacy or interruption of electrical service.
6. Failure or damage due to floods, winds, fires, lightning, accidents, corrosive environments (rust, etc.) or other conditions beyond the control of the Company.
7. Failure or damage of coils or piping due to corrosion on installations within one (1) mile of sea coast or corrosive body.
8. Parts not supplied or designated by Company, or damages resulting from their use.
9. Products installed outside continental USA and Canada.
10. Electricity or fuel costs, or increases in electricity or fuel costs for any reason whatsoever, including additional or unusual use of supplemental electric heat.
11. Any cost to replace, refill or dispose of refrigerant, including the cost of refrigerant.
12. Shipping damage or damage as a result of transporting the unit.
13. Accessories such as condensate pumps, line sets and so forth are not covered.
14. Any special, indirect or consequential property or commercial damage of any nature whatsoever. Some states or provinces do not allow the exclusion of incidental or consequential damages, so the above limitation may not apply to you.

FOR WARRANTY SERVICE OR REPAIR:

Contact your installing contractor. You may find the installer's name on the equipment or in your Owner's packet.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state or province to province.

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