

INTRODUCING THE  
**ZONELINE® UltimateV12™**  
PRODUCT AND ACCESSORIES GUIDE



Inverter Technology & Adjustable Speed Makeup Air  
complete the ultimate VTAC experience.



**GE APPLIANCES**

**PTAC Direct Sales, Inc.**  
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[www.PTACdirect.com](http://www.PTACdirect.com)

## ZONELINE® UltimateV12™



The GE Zoneline® UltimateV12™ brings a new level of intelligence and performance to our user friendly line of Vertical Terminal Air Conditioners.

The UltimateV12 is the next generation of VTAC featuring Inverter Technology and Adjustable Speed Makeup Air, enabling controlled and precise performance in a broad range of applications.

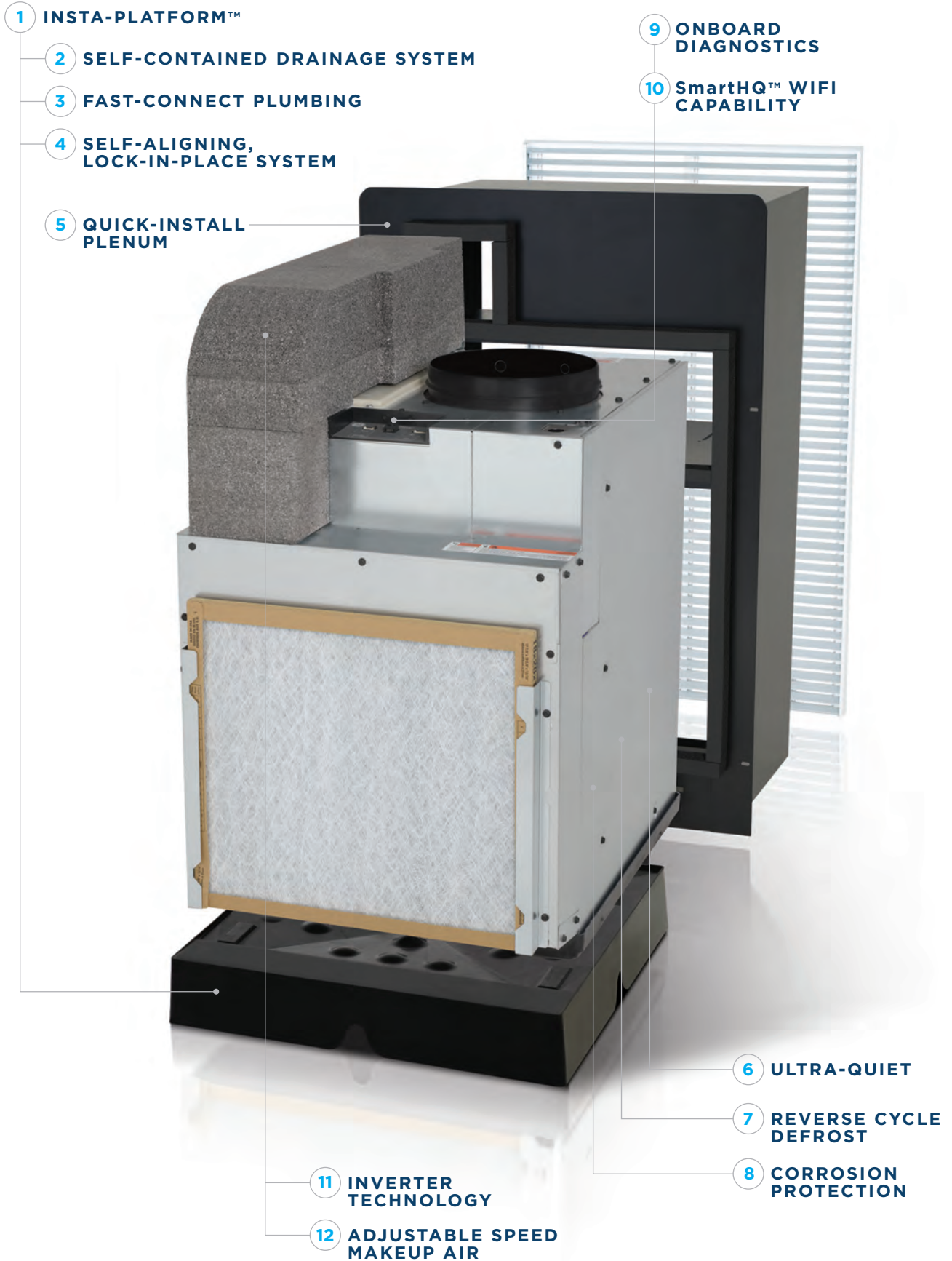


### UltimateV12 FACT:

#### **RAK190V 2-WAY COMMUNICATION**

*The variable speed design of this system paired with the RAK190V 2-Way Communication Thermostat provides the ultimate control. This unit maintains temperature at slower running speeds, which results in the ultimate sound and energy performance.*

## 12-INNOVATIVE FEATURES

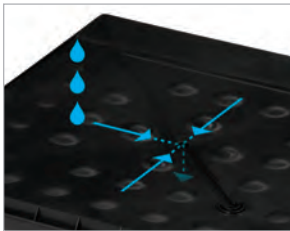


## FEATURES AND BENEFITS



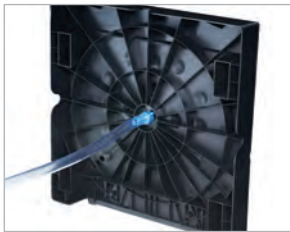
### INSTA-PLATFORM™

Eliminates the need for on-site customized platform construction saving time and money.



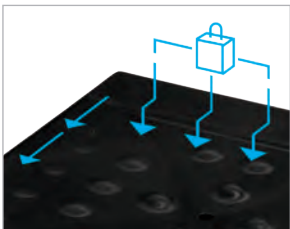
### SELF-CONTAINED DRAINAGE SYSTEM

Easy installation allows for simple chassis removal while leaving plumbing completely intact.



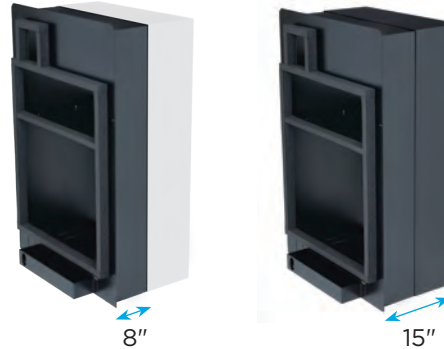
### FAST-CONNECT PLUMBING

Allows preliminary plumbing to be installed outside the closet and prior to installing the chassis.



### SELF-ALIGNING LOCK-IN-PLACE SYSTEM

The Insta-Platform and the VTAC are self-aligning with a lock-in-place system ensuring the unit is engaged with the plenum gasket.



### QUICK-INSTALL PLENUM

Plenum is easily installed from the interior without the need for exterior building access. Caulking is required. It conveniently expands from 8" to 15" for a custom fit.



### ULTRA-QUIET

Delivers quiet cooling power with smooth sound for a good night's sleep.



### REVERSE CYCLE DEFROST

The variable speed compressor and advanced defrost capability allow for the best heat pump operation down to 0° F.

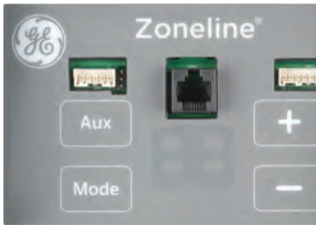


### CORROSION PROTECTION

Exclusive rust-proof basepan and bulkhead provide another level of corrosion protection.



## FEATURES AND BENEFITS



### ONBOARD DIAGNOSTICS

Electronic controls give clear and fast diagnostics data and fault codes, for fast and easy resolution.



### SMARTHQ™ WIFI CAPABILITY

Optional SmartHQ module\* gives property managers the ability to monitor multiple units remotely, enhancing guests' experience.

Learn more at [smarthqsolutions.com/management](http://smarthqsolutions.com/management)



### INVERTER TECHNOLOGY

Variable speed operation provides an advantage with shorter recovery time, improved efficiency, sound quality and dehumidification. Consistent room temperature allows for total room comfort.



### ADJUSTABLE SPEED MAKEUP AIR

Makeup air and customizable variable speed fan technology provide the precise airflow for specific applications. For energy savings, Makeup air delivery can be cycled based on occupancy, using a compatible occupancy detecting thermostat. Optional MERV 13 filtration available.



### UltimateV12 FACT:

**SAVE 60%  
ON INSTALLATION TIME†**

*Complete installation from  
the interior makes installation  
60% faster!*

†Compared to Friedrich Vert-I-Pak models or GEA AZ91 series models, including installing and building a platform.

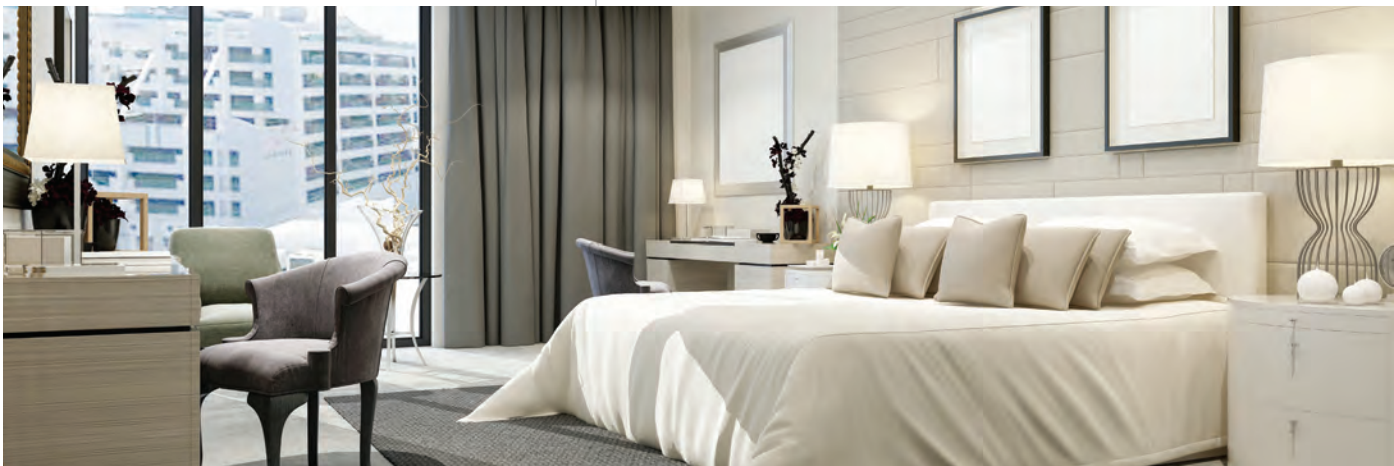
\*SmartHQ module part number PBX23W00Y0, PBX23W00Y1 or SHCM10PK (10 Pack).

## INVERTER TECHNOLOGY THE REASONS WHY



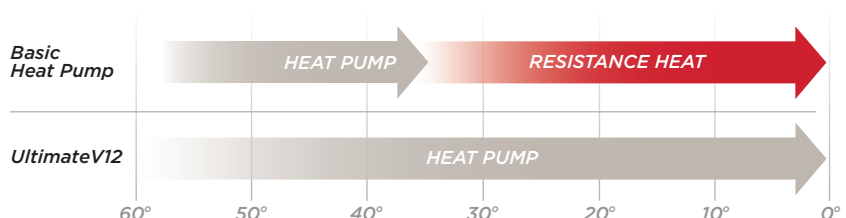
Inverter Technology is the latest innovation in Zoneline Vertical Terminal Air Conditioning. By enabling variable speed operation, it improves:

- **Temperature Recovery Time**—ensuring occupant comfort by quickly reaching the desired setpoint temperature
- **Efficiency**—aligns compressor output to room needs thereby reducing energy consumption
- **Low Ambient Heat Pump**—the variable speed compressor and advanced defrost capability allows for the best in heat pump operation down to 0° F
- **Two-Way Thermostat Capability**—advanced thermostat communication allows for true compressor speed control and adjusts cooling & dehumidification outputs to precisely match room needs
- **Sound Quality**—operates at slower speeds longer and smoothly changes speed to avoid abrupt start-ups
- **Dehumidification**—with 3 selectable levels of enhanced dehumidification, it maintains comfortable room conditions using variable speed to reduce humidity, even in challenging environments



### UltimateV12 HEAT PUMP SAVINGS

- COP of 3.6 at rated conditions
- Heat Pump operates down to 0° F
- Minimizes use of costly back-up heat

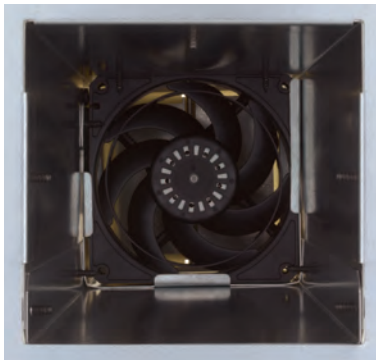


## ADJUSTABLE SPEED MAKEUP AIR

### MAKEUP DUCT INLET FAN



Open



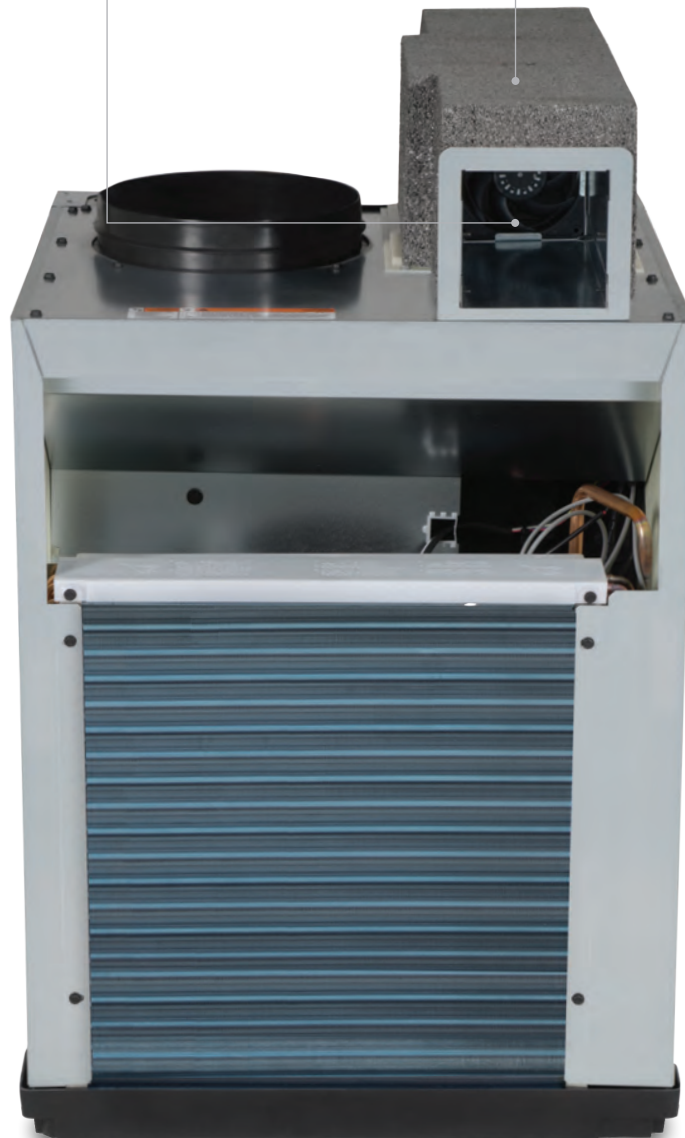
Closed

A dedicated variable speed fan allows for the delivery of room specific volumes of conditioned Makeup air of up to 70 CFM.

The RAK190V thermostat provides the ability to achieve energy savings by cycling Makeup air based on occupancy status.

The RAA13V is an optional MERV 13 filter that reduces dust, pollen, mold, bacteria, viruses and other airborne pathogens from entering the room. It provides cleaner Makeup air to improve overall indoor air quality, with easy access from the front side of unit.

### ADJUSTABLE SPEED MAKEUP AIR



NOTE: AZ9V models are not recommended for installation within two miles of coastal areas.



## THE SELMER STORY

### BUILDING SOMETHING GREAT

GE Appliances has expanded its production of VTAC product in 2021, with a 5-million-dollar investment and adding positions to the plant in Selmer, TN.

The goal is to provide vital solutions to the current environment and overall air quality. Adding break through Inverter Technology and Makeup Air improves efficiency and energy usage. SmartHQ™ WiFi connection and quick diagnostic capabilities heighten the owner and guest experience.

Designed, engineered and assembled in the U.S., ZONELINE® UltimateV12™ is manufactured with a one purpose in mind—  
***to build something great!***



### OUR STORY



*“Every UltimateV12 VTAC that leaves Selmer is built with precision and pride.”*



*“Building and assembling the Vertical Zoneline is my contribution to improving air quality and the environment.”*



## ACCESSORIES

The GE Zoneline® UltimateV12™ system requires a set of essential accessories for proper operation.



**RAK150VF2  
2-STAGE COOL/HEAT  
THERMOSTAT**



**POWER CONNECTION**



**ACCESS PANEL WITH  
RETURN GRILLE  
(RAVRG4)**  
Cutout: 28-1/8"W X 55-7/8"H



**RAA13V  
MERV 13 FILTER  
(OPTIONAL)**



**RAK190V  
2-WAY ENERGY MANAGEMENT  
THERMOSTAT  
Q4 2022**



**INSTA-PLATFORM™  
(RAVDPLAT)**



**WALL PLENUM  
(RAVWPT15B)**  
Cutout: 24"W X 40"H



**GRILLE  
(RAVAL4)**

**18"x20"x1" FILTER INCLUDED  
WITH UNIT CHASSIS**

### COMPLETE ACCESSORY LIST (Must be ordered separately)

KIT NUMBER	DESCRIPTION
<b>RAK150VF2</b>	Two Fan Speed Thermostat for Two Stage Compressor
<b>RAK190V</b>	Two Way Communicating, Occupancy Detection, Energy Management Thermostat
<b>RAVAL4</b>	Exterior Grille
<b>RAVRG2</b>	Return Air Grille for Flush Door
<b>RAVRG4</b>	Access Panel with Return Air
<b>RAVWPT15B</b>	Wall Plenum for walls 8"-deep to 15" thick
<b>RAK315D</b>	230-208 Volt Direct Connect Power Supply Kit, 2.45/2 kW heat, 15 Amp
<b>RAK320D</b>	230-208 Volt Direct Connect Power Supply Kit, 3.45/2.82 kW heat, 20 Amp
<b>RAK330D</b>	230-208 Volt Direct Connect Power Supply Kit, 5/4.08 kW heat, 30 Amp
<b>RAK515D</b>	265-Volt Universal Direct Connect Power Supply Kit, 2.45 kW heat, 15 Amp
<b>RAK520D</b>	265-Volt Universal Direct Connect Power Supply Kit, 3.45 kW heat, 20 Amp
<b>RAK530D</b>	265-Volt Universal Direct Connect Power Supply Kit, 5 kW heat, 30 Amp
<b>RAVDPLAT</b>	Insta-Platform™
<b>SHCM10PK</b>	SmarthQ™ Connect Module - (10 pack)
<b>RAA13V</b>	MERV 13 Makeup Air Filter

## SPECIFICATIONS

### IMPORTANT NOTICE

Equipment used as a primary source for heating or cooling is an integral part of the building in which it is installed. Proper application is essential for satisfactory performance over a wide range of operating conditions. It is strongly recommended that a professional engineer determine proper application.

If this unit is a replacement unit, its specifications and performance may differ from those of the unit it is replacing. For that reason, we again strongly recommend that a professional engineer determine proper application.

### GE AZ9V SERIES-230-208V\* AZ9VH12DBM

VOLTAGE	230-208
FEATURES	
Cooling BTUH	12,100
Cooling BTU Range (95F outdoor)	5,200-16,200
Max Cooling BTU (115F)	11,200
Max Cooling BTU (75F)	20,000
Cooling EER	11.6
IEER**	20
Cooling Watts	1,040
Cooling Amps	4.7
Sensible Heat Ratio(SHR)-nominal cool, high fan	75%
Dehumidification (pints per hour)-nominal cooling, high fan	3.16
Makeup air CFM	30-70 (no filter) 25-70 (with MERV13 Filter Kit)
Refrigerant	R-410A
Indoor CFM (hi/lo) (0.1 ESP)	465/380
HEAT PUMP	
Heat Pump BTU	11,400
Heating BTU Range @47F	4,500-13,000
Heat Pump COP @47F	3.6
Heating BTU @17F (nominal/max)	6,100/9,400
Heat Pump COP @17F (nominal/max)	2.2/2.1
Heat Pump Watts	925
Heat Pump Amps	4.4
CASE DIMENSIONS	
Width (in.)	23-5/8
Depth (in.)	28-3/8
Height (in.)	36-7/8
Net weight (lbs.)	145
Approx. ship. weight (lbs.)	158
Closet ID for front install (min.)	29-5/8"W x 32"D
Closet ID for side install using full door (min.)***	29-5/8"W x 34"D
Closet ID for side install using RAVRG4***	34"W x 40"D

\*230V Performance Data Listed

\*\* Tested to proposed 2021 AHRI 390 standard

\*\*\* See installation instructions for side installation details

### GE AZ9V SERIES-265V HEAT PUMP WITH BACKUP ELECTRIC HEAT AZ9VH12EBM

VOLTAGE	265
FEATURES	
Cooling BTU	12,200
Cooling BTU Range (95F outdoor)	5,200-16,200
Max Cooling BTU (115F)	11,200
Max Cooling BTU (75F)	20,000
Cooling EER	11.6
IEER**	20
Cooling Watts	1,050
Cooling Amps	4.2
Sensible Heat Ratio(SHR)-nominal cool, high fan	77%
Dehumidification (pints per hour)-nominal cooling, high fan	3.16
Makeup air CFM	30-70 (no filter) 25-70 (with MERV13 Filter Kit)
Refrigerant	R-410A
Indoor CFM (hi/lo) (0.1 ESP)	465/380
HEAT PUMP	
Heat Pump BTU	11,300
Heating BTU Range @47F	4,500-13,000
Heat Pump COP @47F	3.6
Heating BTU @17F (nominal/max)	6,100/9,400
Heat Pump COP @17F (nominal/max)	2.2/2.1
Heat Pump Watts	915
Heat Pump Amps	3.8
CASE DIMENSIONS	
Width (in.)	23-5/8
Depth (in.)	28-3/8
Height (in.)	36-7/8
Net weight (lbs.)	145
Approx. ship. weight (lbs.)	158
Closet ID for front install (min.)	29-5/8"W x 32"D
Closet ID for side install using full door (min.)***	29-5/8"W x 34"D
Closet ID for side install using RAVRG4***	34"W x 40"D

### POWER CONNECTION REQUIREMENTS (RESISTANCE HEAT)

230-208 VOLT	12,000 BTUh		
POWER CONNECTION KIT	RAK315D	RAK320D	RAK330D
Heater BTUh	8,360/6,838	11,770/9,629	17,060/13,952
Total Watts	2,568/2,122	3,568/2,940	5,118/4,207
Heater Watts	2,450/2,004	3,450/2,822	5,000/4,089
Total Heating Amps	10.7/9.6	15/13.6	21.7/19.7
MCA	15	20	30
Recommend Protective Device (MOCP)	15 amp time delay fuse or breaker	20 amp time delay fuse or breaker	30 amp time delay fuse or breaker

### POWER CONNECTION REQUIREMENTS (RESISTANCE HEAT)

265 VOLT	12,000 BTUh		
POWER CONNECTION KIT	RAK515D	RAK520D	RAK530D
Heater BTUH	8,360	11,770	17,060
Total Watts	2,568	3,568	5,118
Heater Watts	2,450	3,450	5,000
Total Heating Amps	9.2	13	18.9
MCA	15	20	30
Recommend Protective Device (MOCP)	15 amp time delay fuse or breaker	20 amp time delay fuse or breaker	30 amp time delay fuse or breaker

## PROVIDING SUPPORT



**Todd Allen**  
Commercial Trainer, Zonline

The UltimateV12™ is the next generation of GE Appliances' VTAC innovation. As the only Vertical Terminal Air Conditioner in the industry providing complete installation from the interior, we've taken it to the next level by introducing Inverter Technology. This enables both owners and guests to enjoy the comforts and benefits, by maintaining shorter recovery time and precise temperature control—providing efficient cooling across all climate conditions.

We provide the latest information about Zonline product through training materials and videos. Knowledge through training is key in conveying our message and positioning our product as the Ultimate owner & guest experience.

Sincerely,  
Todd Allen

## INSTALL & MAINTAIN MY ZONELINE

What to Look for  
in Heating & Cooling Units

Common Air Conditioner Terminology

Vertical Air Conditioner  
Installation Guide

Service & Support

Download Zonline Literature

What BTUH Size Do I Need?

PTAC Installation Guide

Accessories for your  
Vertical Air Conditioner

Parts & Accessories

Contact Zonline  
Technical Support

Do I Need Heat Pump  
or Electric Resistance?

PTAC Installation Guide

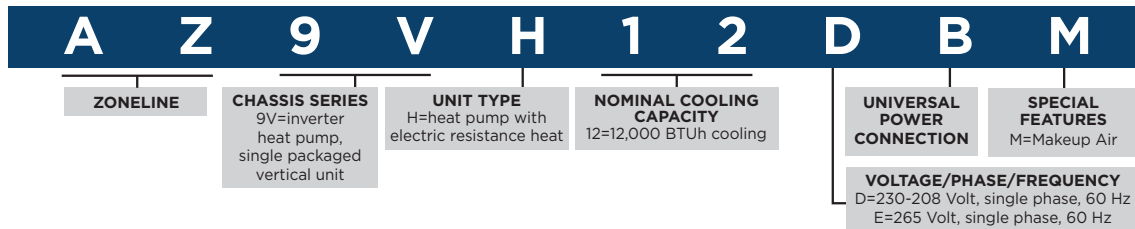
Selecting the Right Accessories  
for your PTAC

How to Clean and Maintain  
your Zonline

Warranty Information



## NOMENCLATURE



## WARRANTY

- 1** **From Date Of Original Purchase** Any part of the air conditioner which fails due to a defect in materials or workmanship. During this **limited one-year warranty**, GE will provide, free of charge, all labor and related service costs to replace the defective part.
- 5** **From Date Of Original Purchase** Sealed Refrigerating System - if any part of the Sealed Refrigerating System (the compressor, condenser, evaporator, and all connecting tubing, including the makeup air system) should fail due to a defect in materials or workmanship. During this **limited five-year warranty**, GE will provide, free of charge, all labor and related service costs to replace the defective part.
- 2-5** **From Date Of Original Purchase** Fan Motors, Switches, Heater, Heater Protectors, Compressor Overload, Solenoids, Circuit Boards, Auxiliary Controls, Thermistors, Freeze Sentinel, Frost Controls, Pump, Capacitors, Varistors and Indoor Blower Bearing, if any of these parts should fail due to a defect in materials or workmanship. During this **additional four-year limited warranty**, GE will provide the replacement part free of charge. The customer will be responsible for any labor and related service costs.



**GE APPLIANCES**  
a Haier company

**AIR & WATER**  
SOLUTIONS

GE is a trademark of the General Electric Company. Manufactured under trademark license.

GE Appliances has a policy of continuous improvement of its products and reserves the right to change materials and specifications without notice.

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