



GE Zoneline[®] vertical packaged terminal air conditioners

2010 Home Products and Services



Appearance

All the benefits of PTAC with the aesthetics and versatility of central air.



- Zoneline® vertical units provide a more home-like appearance.
- Versatile design optimizes floor space.
- The entire unit can be easily concealed in closet with an outside wall.
- Ideal for use in hotels, motels, office buildings, schools and apartments.
- Specifically designed for quiet operation.

Inside story

Zoneline vertical units are easy to install and even easier to service.

Simplicity

Unique Sleeve Design

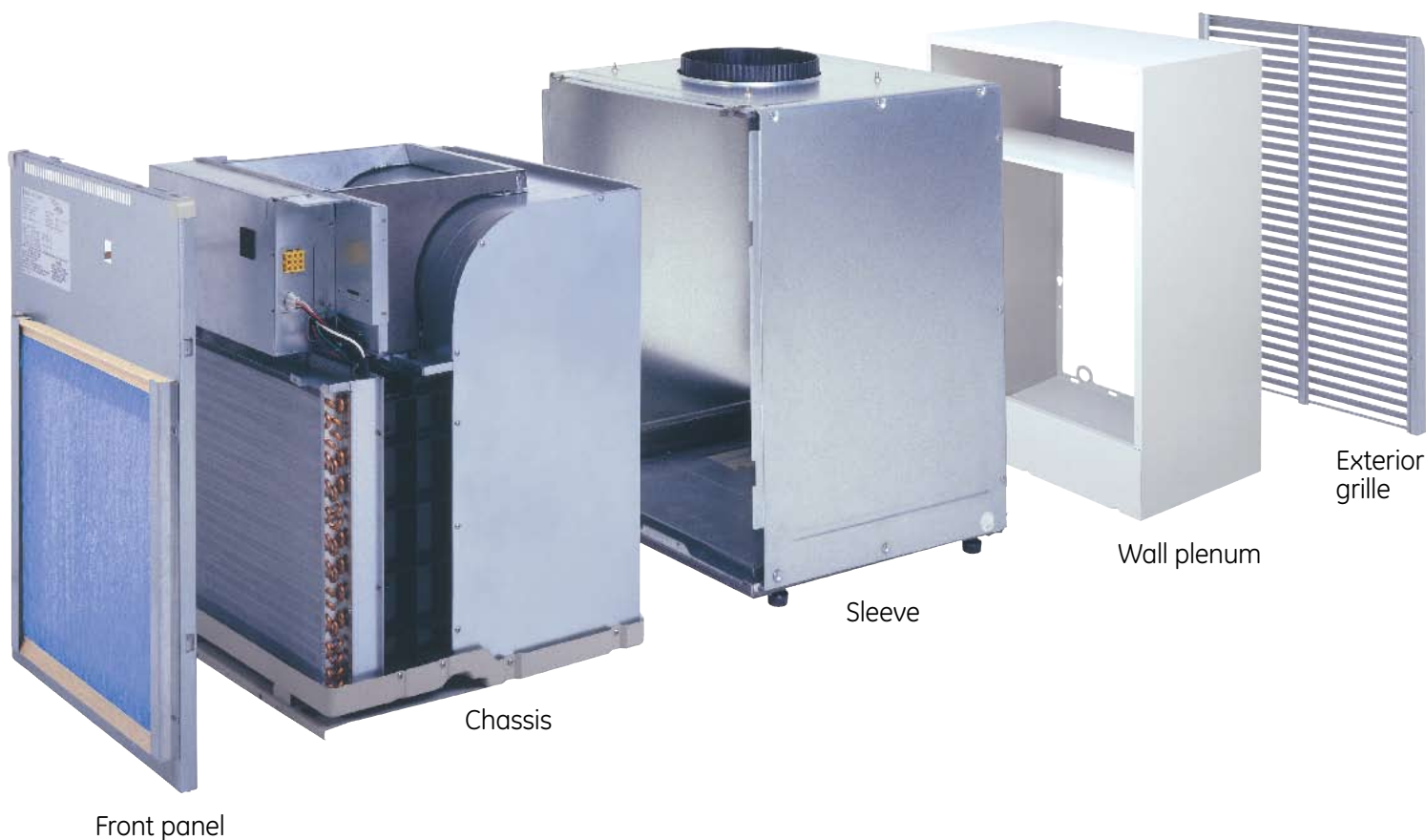
- Makes units easy to install.

Three-Way, Slide-Out Chassis

- Specially designed case makes maintenance and service quick and easy.

Accessories

Model #	Description	Size
RAVAL1	Exterior Grille	19-3/4" W x 32" H
RAVRG1	Access Panel (in lieu of door)	28 " W x 48" H Cutout
RAVRG2	Return Air Grille	20-3/8" W x 20-3/8" H Cutout
RAVRMS	Freeze Sentinel™/Temperature Limiting Room Sensor	
RAK164D1	Solid State Digital Thermostat (5 connection wires required)	
RAK164P1	Solid State Digital Programmable Thermostat (5 connection wires required)	
RAK148D1	Solid State Digital Heat Pump Thermostat (6 connection wires required)	
RAK148P1	Solid State Digital Programmable Heat Pump Thermostat (6 connection wires required)	
RAVHW1	Hydronic heating kit – 1 row	
RAVHW2	Hydronic heating kit – 2 rows	
RAVHW3	Hydronic heating kit – 3 rows	



Plenum Sizes

RAVWP6 Plenum

19-3/4" W x 32" H (up to 6" Wall Thickness)

RAVWP8 Plenum

19-3/4" W x 32" H (up to 8" Wall Thickness)

RAVWP12 Plenum

19-3/4" W x 32" H (up to 12" Wall Thickness)

RAVWP15 Plenum

19-3/4" W x 32" H (up to 15" Wall Thickness)

Minimum Clearances

Front

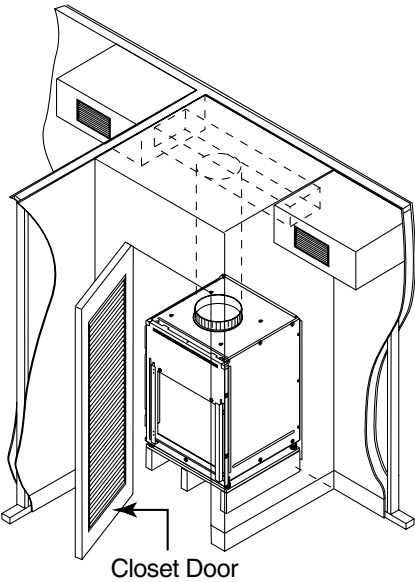
- Allow 4 inches in front of unit. When determining closet depth, note that plenum may protrude into closet, depending on wall thickness.

Sides

- Allow 3 inches on each side of unit.
- For side-access closets only. Allow 5 inches on the side where access is required and 5 inches in front of unit.

Platform

- An 8" – 12"-high field-supplied platform is recommended for drain access.



Vertical View

Vertical Zoneline Unit for Hydronic Applications

GE offers a cool only vertical Zoneline unit for Hydronic applications where a hot water heating loop is available. GE offers one-, two- or three-row Hydronic kits, ranging from 17,000 to 39,000 BTU* output.

*BTU ratings are based upon tested values of input/output water temps and inlet air temps.



Power connection kits are required on all vertical Zoneline chassis (see chart below).

The correct kit for the installation is determined by the voltage and amperage of the electrical circuit and the means of connecting the unit to the building wiring. If the unit is to be plugged into a receptacle, a power cord kit would be used; if the unit is to be permanently connected, a direct connect kit would be used.

230/208 volt	Line cord connected units		
Power Connection Kit	RAK3152	RAK3202	RAK3302
Heater KW	2.61/2.19	3.42/2.87	4.81/4.07
Min. circuit amps	15	20	30
Recommended protective device	15 Amp time-delay fuse or breaker	20 amp time-delay fuse or breaker	30 amp time-delay fuse or breaker
230/208 volt	Direct connected units		
Power Connection Kit	RAK4157	RAK4207	RAK4307
Heater KW	2.61/2.19	3.42/2.87	4.81/4.07
Min. circuit amps	15	20	30
Recommended protective device	15 Amp time-delay fuse or breaker	20 amp time-delay fuse or breaker	30 amp time-delay fuse or breaker
265/277 volt	Direct connected units		
Power Connection Kit	RAK5157	RAK5207	RAK4307
Heater KW	2.71	3.55	5.03
Heater Amps	10.6	13.9	19.6
Min. circuit amps	15	20	30
Recommended protective device	15 Amp time-delay fuse or breaker	20 amp time-delay fuse or breaker	30 amp time-delay fuse or breaker

265/277-volt units and line cord kits available by special order



RAK3152/3202/3302
230/208-volt cord connection kit

Power connection kits
See specification sheet for heater KW and branch circuit ampacity.

Performance

Quiet operation. Home-like appearance. Versatile room design.



R-410A refrigerant

R-410A meets 2010 U.S. Environmental Protection Agency requirements for the phase-out of ozone-depleting hydrochlorofluorocarbons (HCFCs) found in the older R-22 refrigerant.



Electronic Temperature Limiting*

Prevents expensive overheating and overcooling.

Year-Round Comfort

Individual heating and cooling temperature controls.

Heat/Cool Multiple Rooms

Ducting allows a single unit to serve multiple rooms.

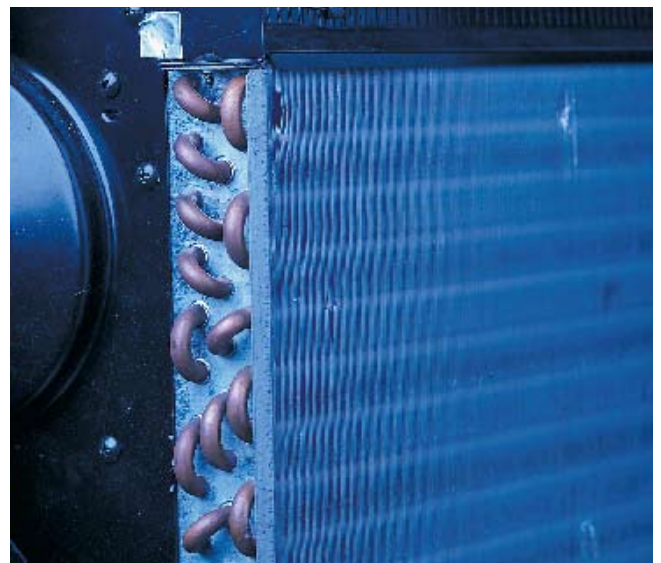
Remote Installation

All Zoneline® units are compatible with GE wall-mounted remote controls.



Freeze Sentinel™*

Provides protection against damage caused by freezing temperatures in unoccupied rooms, regardless of unit setting.



Full Corrosion Treatment

Special treatments are placed on the outdoor coil and other components to extend the life of the unit. (Standard)

*Requires RAVRMS Kit.

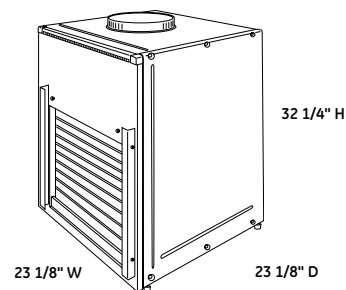
Specifications

	AZ85E09DAC	AZ85E12DAC	AZ85E18DAC	AZ85H09DAC	AZ85H12DAC	AZ85H18DAC
	Electric resistance heat			Heat pumps		
Features						
Cooling (BTUH)	9,000/8,800	11,700/11,500	17,900/17,700	8,800/8,600	11,700/11,500	17,800/17,700
E.E.R. (BTUH/Watt)	10.5/10.5	10.6/10.6	9.3/9.3	10.5/10.5	10.6/10.6	9.3/9.3
Dehumidification (pints/hr.)	2.5	3.2	5.0	2.5	3.2	5.0
Heating (BTUH)				8,200/8,000	10,400/10,300	16,400/16,200
COP @ 47°				3.4/3.4	3.4/3.4	3.0/3.0
Voltage (V)	230/208	230/208	230/208	230/208	230/208	230/208
Unit Width (in.)	23-1/8	23-1/8	23-1/8	23-1/8	23-1/8	23-1/8
Unit Depth (in.)	23-1/8	23-1/8	23-1/8	23-1/8	23-1/8	23-1/8
Unit Height (in.)	32-1/4	32-1/4	32-1/4	32-1/4	32-1/4	32-1/4
Indoor CFM (Hi/Med/Low)	520/460/360	590/500/380	600/520/400	520/460/360	590/500/380	600/520/400

	AZ85E09EAC	AZ85E12EAC	AZ85E18EAC	AZ85H09EAC	AZ85H12EAC	AZ85H18EAC
265 Volt Models	Electric resistance heat			Heat pumps		
Features						
Cooling (BTUH)	9,000	11,700	17,900	8,800	11,700	17,800
E.E.R.	10.5	10.6	9.3	10.5	10.6	9.3
Dehumidification (pints/hr.)	2.5	3.2	5.0	2.5	3.2	5.0
Heating (BTUH)				8,200	10,400	16,400
COP @ 47°				3.4	3.4	3.0
Voltage (V)	265	265	265	265	265	265
Unit Width (in.)	23-1/8	23-1/8	23-1/8	23-1/8	23-1/8	23-1/8
Unit Depth (in.)	23-1/8	23-1/8	23-1/8	23-1/8	23-1/8	23-1/8
Unit Height (in.)	32-1/4	32-1/4	32-1/4	32-1/4	32-1/4	32-1/4
Indoor CFM (Hi/Med/Low)	520/460/360	590/500/380	600/520/400	520/460/360	590/500/380	600/520/400

See Power connection kits section for Universal Heater information.
265 Volt available by special order.

Overall Unit Dimensions



ZVAC Hydronic Kit Specifications

	RAVHW1		RAVHW2			RAVHW3	
Performance specifications for hydronic heating kits applied to AZ85W-series ZVAC models: The ZVAC hydronic heat kits are matched up (applied) to the AZ75W-series models as shown below:							
	RAVHW1 (1-Row Kit)		RAVHW2 (2-Row Kit)			RAVHW3 (3-Row Kit)	
ZVAC cool-only PTAC model—matched to hydronic kit as shown	AZ85W09DAC	AZ85W12DAC	AZ85W09DAC	AZ85W12DAC	AZ85W18DAC	AZ85W12DAC	AZ85W18DAC
Voltage (60 Hertz)	230/208	230/208	230/208	230/208	230/208	230/208	230/208
Heating capacity designed to meet standard ARI rating conditions of 200°F water entering temp/180°F water exiting temp/70°F entering air temp	17,300/16,200	20,200/19,100	25,900/23,500	29,400/27,600	34,700/32,900	33,200/31,100	39,600/37,300
External static pressure	0.25"	0.25"	0.25"	0.25"	0.25"	0.25" (Max.)	0.25" (Max.)
Air flow (SCFM)	297/256	385/344	297/256	364/328	470/430	362/330	467/426
Water flow rate (GPM)	1.8/1.7	2.1/2.0	2.7/2.4	3.0/2.8	3.5/3.3	3.4/3.2	4.1/3.8
Water press drop* (ft. of water)	2.7/2.4	3.6/3/3	3.7/3.1	5.0/4.3	6.7/6.0	6.5/5.7	9.2/7.9
Face velocity (ft./min.)	238/205	308/275	238/205	291/262	376/262	290/264	374/341
Heat exchanger fin height (in.)	12	12	12	12	12	12	12
Heat exchanger finned length (in.)	15	15	15	15	15	15	15
Heat exchanger – fin per inch	11	11	11	11	11	10	10
Heat exchanger – fin material	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum	Aluminum
Weight/Dimensions for hydronic kits:							
Hydronic heat kit model #	RAVHW1		RAVHW2			RAVHW3	
Hydronic heat kit height, inches	13-5/8		13-5/8			13-5/8	
Hydronic heat kit width, inches	19		19			19	
Hydronic heat kit depth, inches	22		22			22	
Shipping weight, pounds	32		35			38	
Net weight, pounds	27		30			33	

Vertical Zonline® warranty*

What is covered

Limited one-year warranty

One year from the date of the original purchase, GE will replace 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.

Limited five-year warranty

Five years from the date of the original purchase, GE will replace Sealed Refrigerating System, if any part of the Sealed Refrigerating System (the compressor, condenser, evaporator, and all connecting tubing) 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.



Listed by
Underwriters'
Laboratories.



Limited second through fifth year parts warranty

For the second through the fifth year from the date of the original purchase, GE will replace Fan Motors, Switches, Heater, Heater Protectors, Compressor Overload, Solenoids, Circuit Boards, Auxiliary Controls, Thermistors, Frost Controls, ICR 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, you will be responsible for any labor and related service costs.

*See written warranty for details

For GE appliance service in the U.S., call
1-800-GE CARES. In Canada, call 1-888-209-0999.



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

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