

## EZ Series VH (Hybrid Heat Pump)

Perfect fit for Replacing Existing CGC InnKeeper  
and CGC HomeKeeper units



# INSTALLATION/USER MANUAL

MANUFACTURER OF QUALITY AIR CONDITIONING AND HEATING PRODUCTS

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*Islandaire reserves the right to make changes in design and construction at any time without notice.*

# SAFETY INFORMATION

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**WARNING! THE INFORMATION IN THIS MANUAL MUST BE FOLLOWED. IMPROPER INSTALLATION, ADJUSTMENT, ALTERATION, SERVICE, OR MAINTENANCE CAN VOID WARRANTY, CAUSE PROPERTY DAMAGE, PERSONAL INJURY, OR LOSS OF LIFE. A QUALIFIED INSTALLER OR SERVICE AGENCY MUST PERFORM INSTALLATION OR SERVICE. ALL LOCAL AND NATIONAL CODES MUST BE ADHERED TO WHEN INSTALLING THIS PRODUCT!**



**CAUTION!** To prevent damage, this unit should NOT be operated to provide supplementary heating and cooling during the construction period. The unit is designed for operation in a normal indoor environment. Operating this unit in an unenclosed space or exposure to construction environment may result in permanent equipment damage.

## SAFETY PRECAUTIONS

- EZ Series VH Series hybrid heat pump units must be properly installed in accordance with the installation instructions before it is used. Refer to the installation instructions contained within this manual.
- Disconnect the EZ Series VH unit's power cord before making any repairs. It is strongly recommended that any servicing be performed by a qualified individual.
- All air conditioners contain refrigerants, which under federal law must be removed prior to product disposal. If you are disposing of an old product containing refrigerants, check with the company handling disposal about proper disposal procedures.
- These R410A air conditioning units require contractors and technicians to use tools, equipment and safety standards approved for use with this refrigerant. DO NOT use equipment certified for R22 refrigerant only.

# INTRODUCTION

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## OUR COMPANY

Islandaire is the fastest growing specialty air conditioning and heating manufacturer in the country. Founded in 1992 by Robert Hansen, it has grown into a multi-million dollar company in just a few short years. Islandaire builds a full complement of high quality thru-the-wall replacement air conditioners and heat pumps, single package vertical air conditioners and heat pumps, water source heat pumps, and gas units in St. James, New York. Each model fits perfectly into the existing original wall case assembly, thereby saving both time and money during installations.

Our Engineering, Production, Sales and Customer Service departments have been fully integrated to provide the maximum degree of user satisfaction. We at Islandaire feel that this team approach to manufacturing produces a superior overall product and assures a larger degree of flexibility in design and production scheduling to meet tight prototyping or construction timetables.

## THE PERFECT FIT

Thru-wall air conditioners were developed in the late 1950's. Over the next forty years many companies engineered, manufactured and installed a variety of different units throughout the United States and Canada. Today, a number of these companies are no longer in business or have discontinued their line of thru-wall air conditioners and no longer carry replacement parts.

Islandaire offers replacement air conditioners and heat pumps that are interchangeable with units no longer available from the original manufacturer. Our units are engineered to fit perfectly within the existing wall case, thereby reducing installation time and expense. They are manufactured at our modern 75,000 ft<sup>2</sup> (6,968 m<sup>2</sup>) plant on Long Island in New York.

Thank you for considering our products,

*The Islandaire Team*

# APPLICATIONS

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The EZ Series VH Series units are designed and manufactured for new construction or the replacement of units in an existing building. Our EZ Series VH units provide year-round comfort control for hotels, motels, apartments, dormitories, shops, nursing homes, assisted living centers, satellite offices, room additions and other applications that require economical heating and cooling. This unit is designed for single-room use only.

The product is designed for individually-zoned, comfort-controlled heating and cooling. The design standards, heavy duty construction and the focus on indoor noise reduction has established our product as the premier unit of the future. Individually controlled EZ Series VH units are ideal for rooms that are not occupied, such as during vacancies, holidays, weekends or nights. Individual units permit tenants to choose their own degree of comfort and operating economy.

Temperature and fan settings are controlled via wall thermostat. In addition, all units have the flexibility of working with controls that integrate with an energy management system. Whether you are designing a new structure or replacing EZ Series VH units in an existing building, Islandaire will meet your needs.

## NEW CONSTRUCTION

The Islandaire EZ Series VH unit is designed to meet the needs of the architect, engineer, and contractor. For unit installation, Islandaire's expert support network will assist in all applicable aspects of the construction project, from preparing a budget to start-up.

### ADVANTAGES FOR NEW CONSTRUCTION

- Lower Operating Costs and Reliable Comfort for the Occupant
- Design Flexibility For The Architect/Engineer
- Super-quiet performance, indoors and out
- No bulky duct system needed
- No separate equipment room
- No water towers or additional cooling equipment
- Choice of front panel design available

Islandaire helps lower utility costs with energy efficient units that exceed industry standards. Energy savings are achieved in both heating and cooling environments through efficient mechanical design and onboard electronic logic. Unit is designed for optimum efficiency

at 2 US gallons (7.6 liters) per minute/ton. Energy management capability is built into the unit's standard digital controls. These units may also qualify for electrical power company rebates. Consult your local utility provider for rebate opportunities.

## RETROFIT/REPLACEMENT

Islandaire EZ Series VH units are engineered to fit perfectly within self-contained chassis, thereby reducing installation time and expense. Our EZ slide-out chassis enables rapid servicing, thereby reducing downtime; the complete chassis can be replaced in minutes without disrupting other occupants.

## APPLICATION CONSIDERATIONS

It is important for air conditioning systems to be properly sized for each application in order to achieve desired temperature and humidity levels. It is strongly recommended that a professional engineer match the EZ Series VH units with the building structure and regional climate. The following application considerations are all important in choosing the proper EZ Series VH system for the building structure.

### AIRFLOW

Airflow should be balanced based on many factors, such as available ESP, room CFM, and duct work. Consult an HVAC engineer for proper applications. Higher CFMs tend to increase sensible capacity, enhance room circulation and increase duct noise, while lower CFMs tend to increase latent capacity and reduce noise.

### UNDERSIZING

If a EZ Series VH unit is undersized (cooling capacity is less than required capacity for the specific application), the unit will not be able to cool the space down to the desired temperature during very hot days, causing excessive power consumption.

### OVERSIZING

If a EZ Series VH unit is oversized (cooling capacity is greater than required capacity for the specific application), the unit will cool the space down to the desired temperature too quickly creating a cool, yet excessively humid, space.

# APPLICATIONS (CONT.)

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## AIR INFILTRATION

Excessive air infiltration can intensify problems associated with undersizing or oversizing a EZ Series VH unit. This can be the cause of insufficient cooling, dehumidification, or heating. Sources of air infiltration include vents, gaps around windows and doors, and improperly sealed floors, ceiling or wall joints.

## GUARANTEED QUALITY

Each Islandaire unit is designed to operate quietly and efficiently and is backed by the best warranty program available. Standard warranty is for one year parts and labor including five year compressor part only warranty, or two year parts only including five year compressor part only warranty.

Whether it is an exact replacement unit or a new construction project, Islandaire is the smart choice for all your air conditioning and heating needs.

## QUIET OPERATION

The EZ Series VH unit provides whisper quiet operation while delivering maximum airflow required for proper air circulation. Separate indoor and outdoor fan motors further reduce operating sound levels and costs.

The heavy gauge construction of the chassis and cabinet minimizes vibration for quieter operation. Vibration isolators on the rotary compressor keeps it running smoothly and quietly. The unit bulkhead is fully insulated to decrease sound transmission.

## DURABLE CONSTRUCTION

- Islandaire EZ Series VH units are built with durable quality components designed for continuous operation in all environments.
- The fan motor is totally enclosed, preventing damage from moisture and debris and is permanently lubricated for extended life.
- The compressor is a reliable, high-efficiency design rotary compressor. It is hermetically sealed and built for continuous operation.

## CORROSION PROTECTION

All Islandaire EZ Series VH units have special corrosion protection that can help dramatically extend the life of the unit. Listed below are just some of the components that feature corrosion protection:

- **Base Pan** - The base pan of the unit is constructed of 18-gauge galvanized steel to protect it from the elements.
- **Fan Blade** - Constructed of strong engineered plastic that has excellent flame-resistance and dimensional stability over a wide range of service temperatures.
- **Fan Motor** - Specially coated by the manufacturer to resist corrosion (optional).
- **Compressor** - Protectively-coated exterior to enhance equipment life and performance.

# MODEL NOMENCLATURE

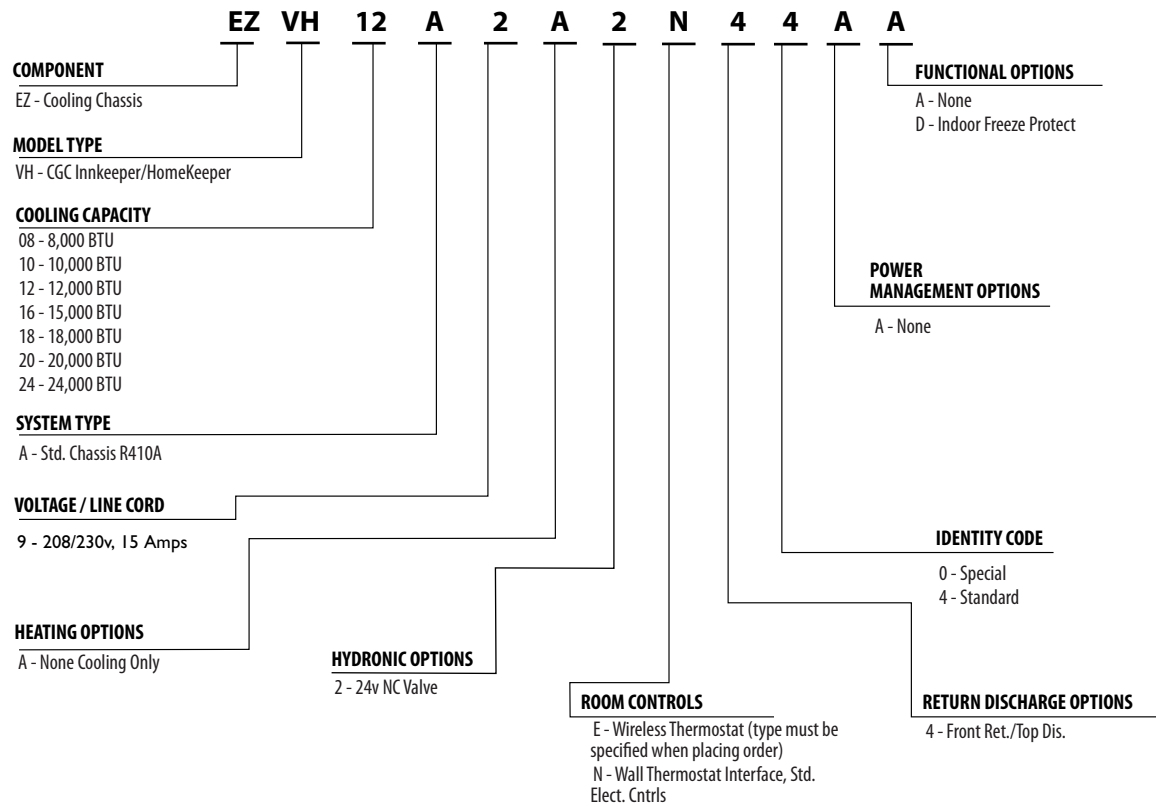
## MODEL NOMENCLATURE

Please review the nomenclature/model number breakdown below for the EZ Series VH options.

**Voltage:** 208/230 Vac

**Units are available in six cooling capacities:** 8,000, 10,000, 12,000, 16,000, 18,000, 20,000 and 24,000 Btu/h

Control choices include multiple-wired, wall-mounted heating/cooling thermostats and a wireless wall thermostat, with occupancy sensor control.



### FEATURES:

- Superior Energy Efficiency Ratio (EER)
- Hybrid heat pump with no reversing valve
- Hydronic Heat
- High efficiency coaxial condenser coil
- High efficiency evaporator coil
- Commercial duty construction with heavy gauge galvanized steel
- High pressure protection
- Compressor and water circuit freeze protection
- Refrigerant circuit access ports
- Blower assembly, control module or remote available
- Factory mounted demand flow and auto flow valves
- Power disconnect switch
- Quiet operation
- On-board microprocessor provides diagnostics and safeties
- Choice of two front panel design options
- 100% self-contained chassis enables replacement in minutes
- Enhanced Indoor Air Quality with no standing water
- Exceeds ASHRAE 90.1 efficiency rating
- Optimum efficiency at 2 gpm/ton (7.6 lpm/ton) flow rate

### ACCESSORIES:

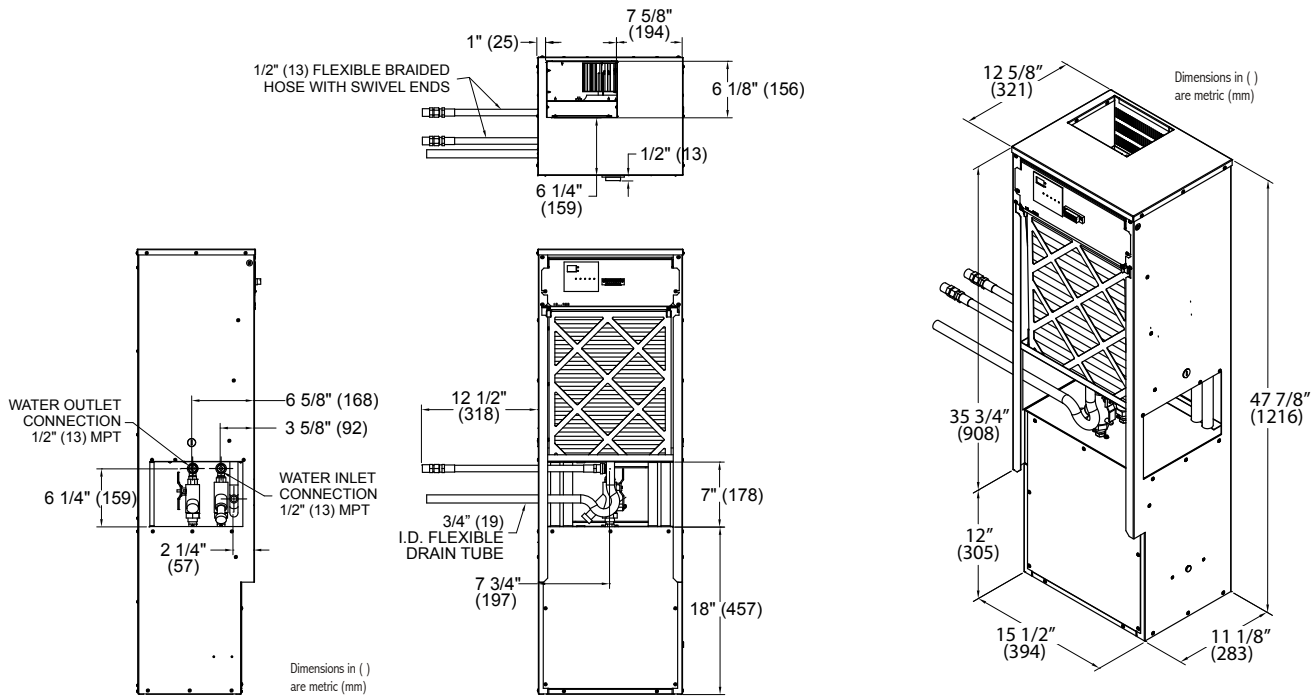
- Choice of Front Access Panel designs
- Return/Discharge Air Grilles
- Wired remote thermostat
- Wireless remote thermostat
- Energy Management Thermostat
- I.R. motion sensor
- Door switch

# PERFORMANCE DATA

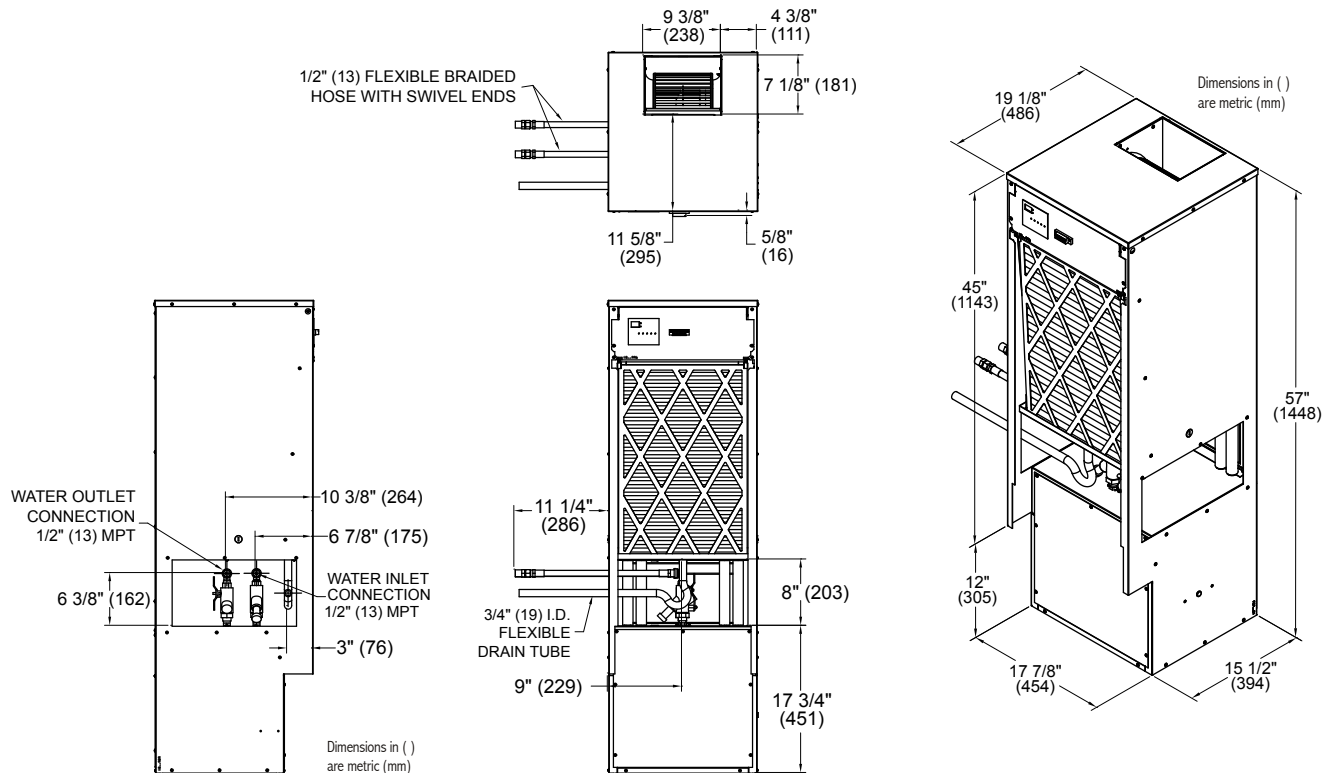
## PERFORMANCE DATA BY MODEL

MODELS							
	EZ08	EZ10	EZ12	EZ16	EZ18	EZ20	EZ24
VOLTS	208 / 230	208 / 230	208 / 230	208 / 230	208 / 230	208 / 230	208 / 230
3TUH COOL (TOTAL)	8,600 / 8,600	9,500 / 9,500	11,500 / 11,500	15,200 / 15,200	17,200 / 17,200	18,200 / 18,200	24,200 / 24,200
AMPS COOL (FLA)	2.79 / 2.52	3.29 / 2.98	4.18 / 3.78	5.63 / 5.09	5.99 / 5.41	5.43 / 4.91	7.81 / 7.07
WATTS COOL	580 / 580	685 / 685	870 / 870	1,170 / 1,170	1,245 / 1,245	1,130 / 1,130	1,625 / 1,625
EER	14.8 / 14.8	13.9 / 13.9	13.2 / 13.2	13.0 / 13.0	13.8 / 13.8	16.1 / 16.1	14.9 / 14.9
CFM HIGH	280 / 280	320 / 320	380 / 380	450 / 450	580 / 580	650 / 650	800 / 800
CFM LOW	250 / 250	280 / 280	320 / 320	380 / 380	450 / 450	550 / 550	700 / 700
GPM	1.4	1.7	2.0	2.8	3.0	3.5	4.0
3TUH HEATING @100 EWT)	6,900	7,800	8,400	12,000	12,800	13,700	15,500
3TUH HEATING @100 EWT)	8,000	9,100	9,800	14,000	15,000	16,000	18,100
3TUH HEATING @100 EWT)	9,200	10,400	11,200	16,000	17,100	18,250	20,700
3TUH HEATING @100 EWT)	11,500	13,000	14,000	20,000	22,000	22,850	25,850
SHIPPING WEIGHT (LB)	110	120	120	132	125	185	220

# DIMENSIONAL DIAGRAMS



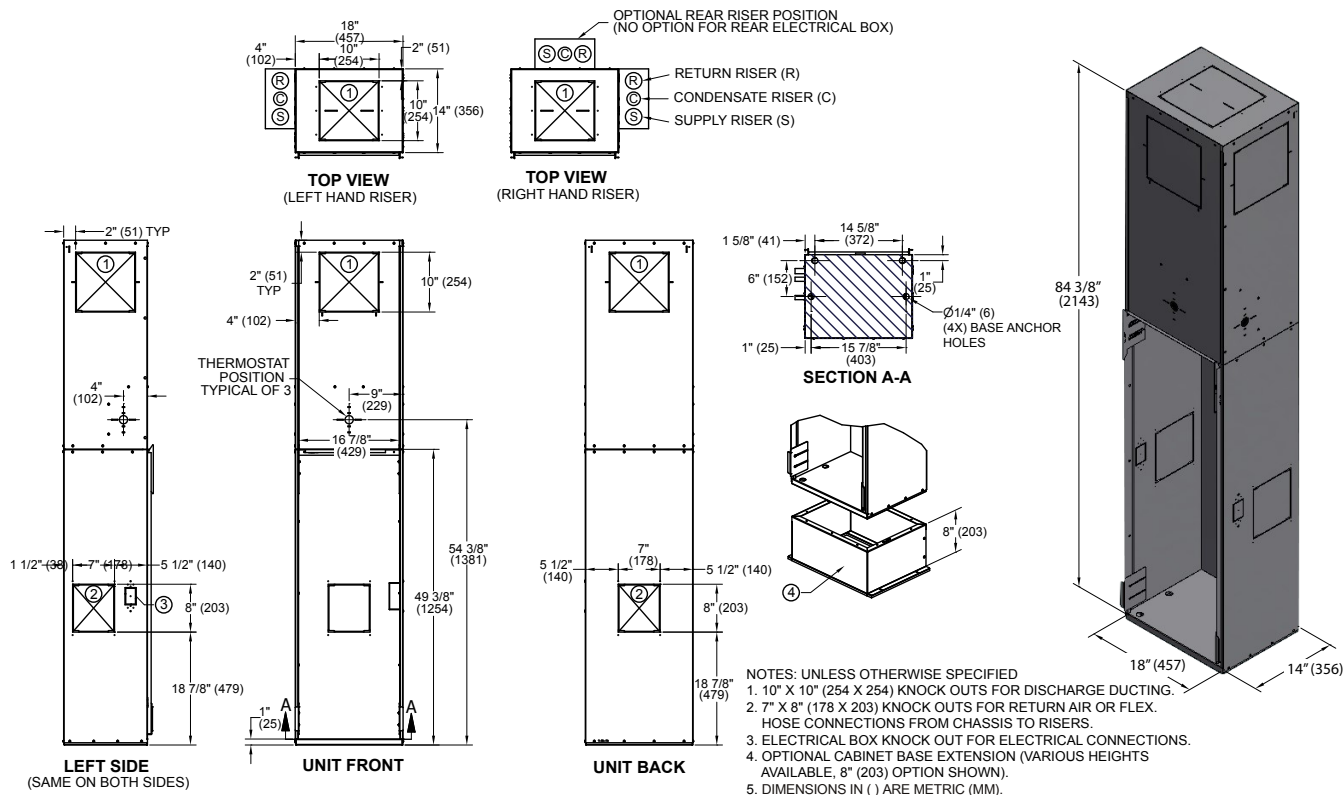
## EZ08 / EZ10 / EZ12 / EZ16 Chassis



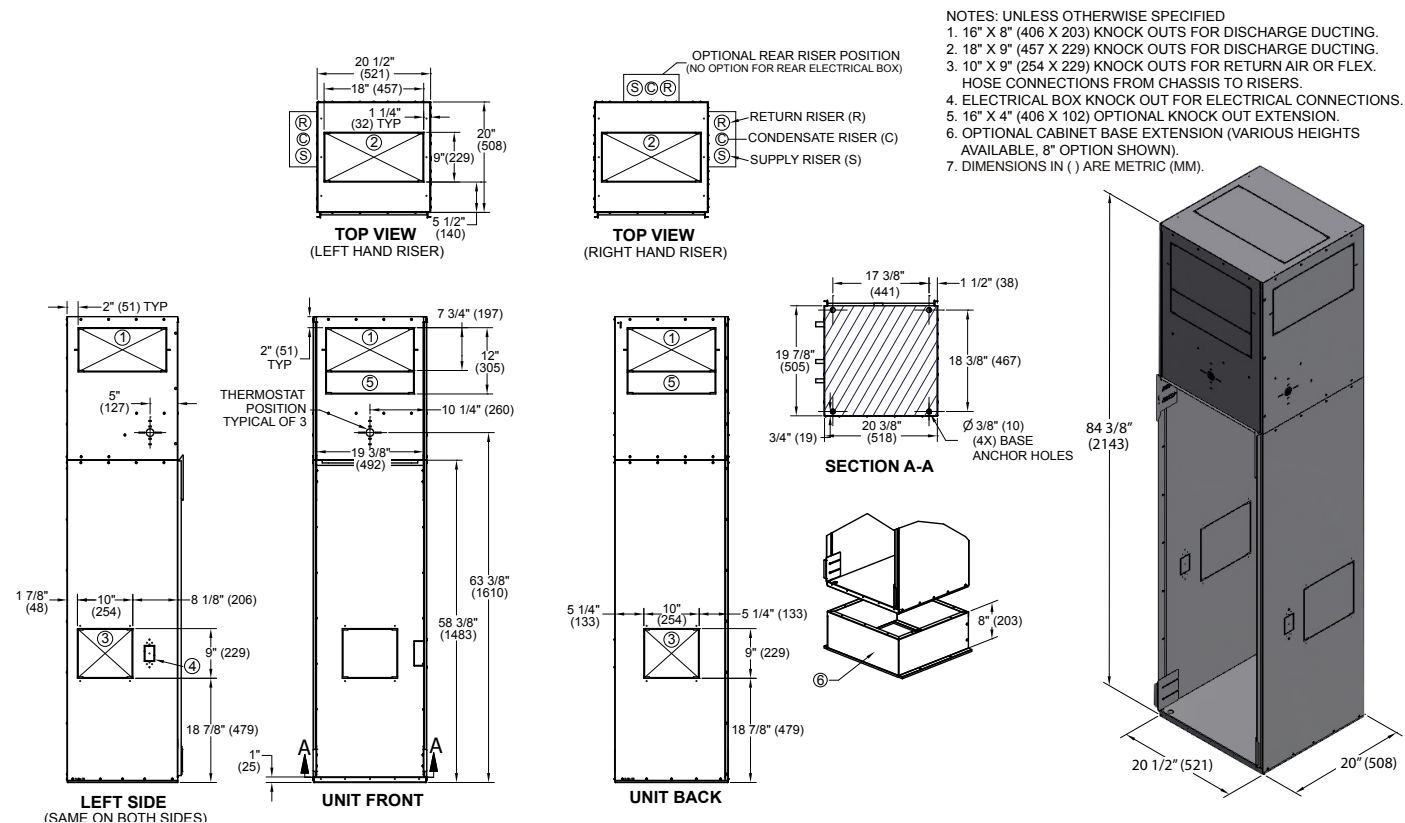
## EZ18 / EZ20 / EZ24 Chassis

# DIMENSIONAL DIAGRAMS (CONT'D)

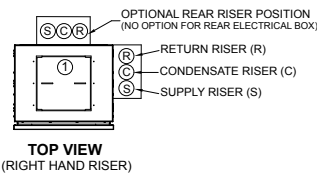
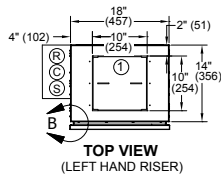
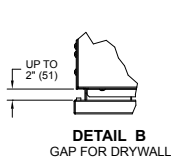
## EZ08 / EZI0 / EZI2 / EZI6 Cabinet



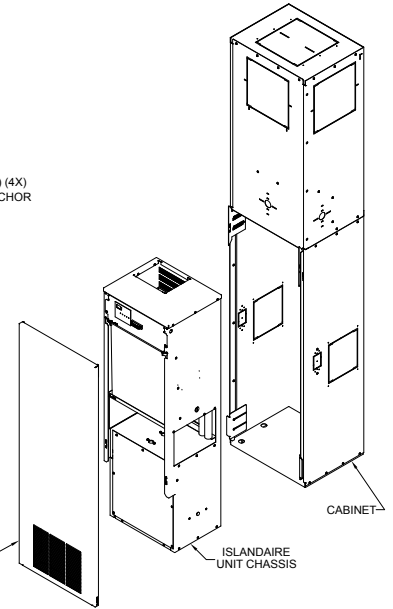
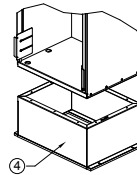
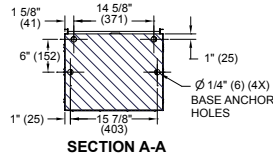
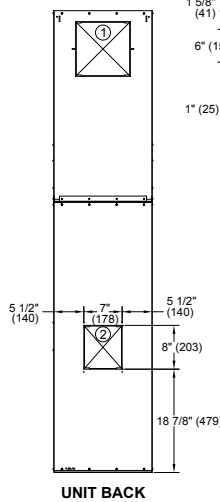
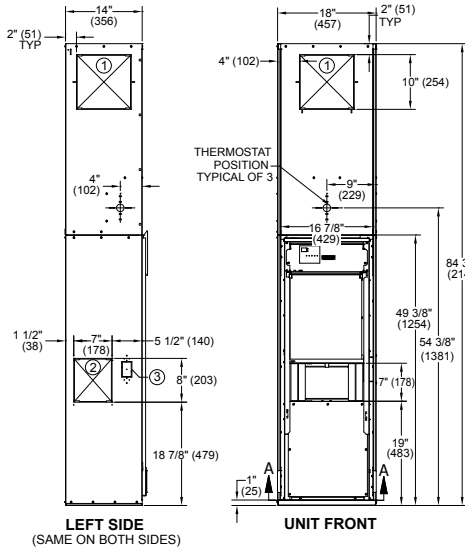
## EZ18 / EZ20 / EZ24 Cabinet



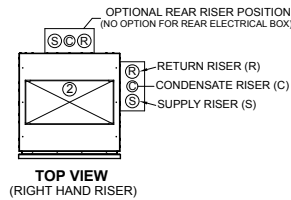
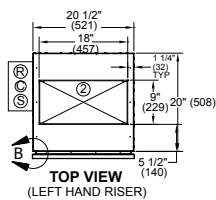
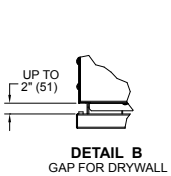
# ASSEMBLY DIAGRAMS



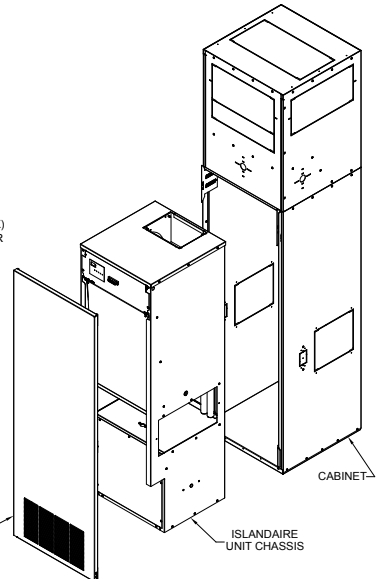
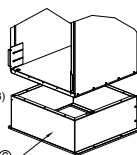
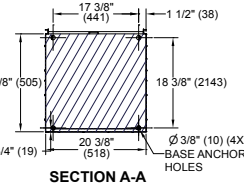
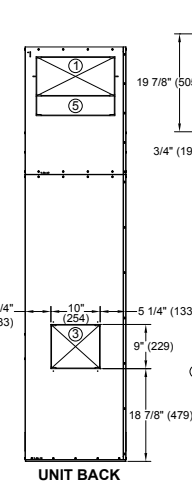
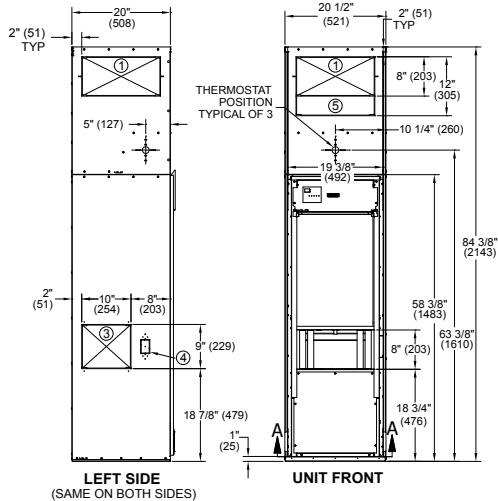
## EZ08 / EZ10 / EZ12 / EZ16 Assembly



- NOTES: UNLESS OTHERWISE SPECIFIED
1. 10" X 10" (254 X 254) KNOCK OUTS FOR DISCHARGE DUCTING.
  2. 7" X 8" (178 X 203) KNOCK OUTS FOR RETURN AIR OR FLEX. HOSE CONNECTIONS FROM CHASSIS TO RISERS.
  3. ELECTRICAL BOX KNOCK OUT FOR ELECTRICAL CONNECTIONS.
  4. OPTIONAL CABINET BASE EXTENSION (VARIOUS HEIGHTS AVAILABLE).
  5. DIMENSIONS IN ( ) ARE METRIC (MM).



## EZ18 / EZ20 / EZ24 Assembly



- NOTES: UNLESS OTHERWISE SPECIFIED
1. 16"x8" KNOCK OUTS FOR DISCHARGE DUCTING.
  2. 18"x9" KNOCK OUTS FOR DISCHARGE DUCTING.
  3. 10"x9" KNOCK OUTS FOR RETURN AIR OR FLEX. HOSE CONNECTIONS FROM CHASSIS TO RISERS.
  4. ELECTRICAL BOX KNOCK OUT FOR ELECTRICAL CONNECTIONS.
  5. 16"x4" OPTIONAL KNOCK OUT EXTENSION.
  6. OPTIONAL CABINET BASE EXTENSION (VARIOUS HEIGHTS AVAILABLE).
  7. DIMENSIONS IN ( ) ARE METRIC (MM).

# HANDLING & STORAGE

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## HANDLING

Care must be taken in handling the cabinet, chassis, risers, and other accessories to ensure that this equipment does not sustain any damage. It is recommended that the chassis and cabinet be transported individually on a two-wheel cart.

The protective shipping packaging should remain on the chassis and cabinet until they are ready for installation. During construction, the unit must not be run and shall be sheltered from contaminants and debris such as dry-wall dust, wood chips, and paint that could damage the fan or block the cooling/heating coil, which may result in diminished performance.

## STORAGE

Dropping the equipment or exposing it to extreme shock or vibration may result in permanent damage to the interior components. This equipment is intended for interior use only and should be stored indoors at all times to protect it from the elements and to help eliminate the potential growth of indoor air quality (IAQ) contaminants. If indoor storage is not possible, the equipment may be stored outdoors during the summer months only, if the following provisions are met:

- The equipment must be placed on a dry surface, or raised off the ground in a manner which allows for air-circulation beneath the unit.
- A waterproof tarp must be used to cover the equipment in order to provide protection from the elements.

- Continuous ventilation to the units must be provided to help prevent moisture accumulation on the interior and exterior surfaces. Moisture buildup on, or within the unit's insulation may result.
- The chassis and units must be stored in their original packaging.
- The individual units shall not be stacked on top of one another.

If the unit was previously in use, ensure that all water in the coil has been blown out and that all hose connections are plugged during storage.

### Cabinet

The cabinet should be stored upside down to prevent damaging the foam gaskets on the underside of the cabinet. The cabinet, risers, and chassis should be stored in a non-corrosive environment sheltered from conditions of extreme temperature or humidity. Subjecting the unit and risers to conditions of this nature may result in significantly reduced performance, reliability and/or operational life.

### Chassis

The chassis must be stored in an upright position at all times with the compressor section towards the ground and the fan section oriented upwards. Failure to maintain the chassis in an upright position may result in permanent damage to the unit. Dropping the chassis or exposing it to extreme shock or vibration may also result in permanent damage to the interior components and piping.

# INSTALLATION

## OVERVIEW

Units must be installed in accordance with all applicable codes and regulations of all governing authorities having jurisdiction. The information below details the correct installation procedure for the EZ Series VH vertical stack unit. Please read this document in its entirety prior to proceeding with unit installation. It is the responsibility of the installing contractor to ensure adequate service clearance for regular maintenance or for repair in place. The installing contractor will be responsible for removing the unit if it is not serviceable in place.

## LOCATION AND PLACEMENT

Determine cabinet location ensuring adequate clearance is provided for proper operation and additional space is provided for the service technician to work on the unit. It is the responsibility of the installing contractor to ensure adequate service clearance for regular maintenance or for repair in place. The installing contractor will be responsible for removing the unit if it is not serviceable in place.

Specific site conditions may warrant variations in locations and dimensions. Locate unit in an indoor area. The ambient temperature surrounding the unit must not be less than 45 °F (7 °C). Do not locate the unit in areas that may be subjected to freezing temperatures.

Locate core holes for risers.

### Clearances

The vertical stack product has a sound-dampening front cover panel. The sound-dampening panel slides off with minimal service clearance, however, in the event of chassis replacement the front service entrance must permit straight horizontal removal of the chassis.

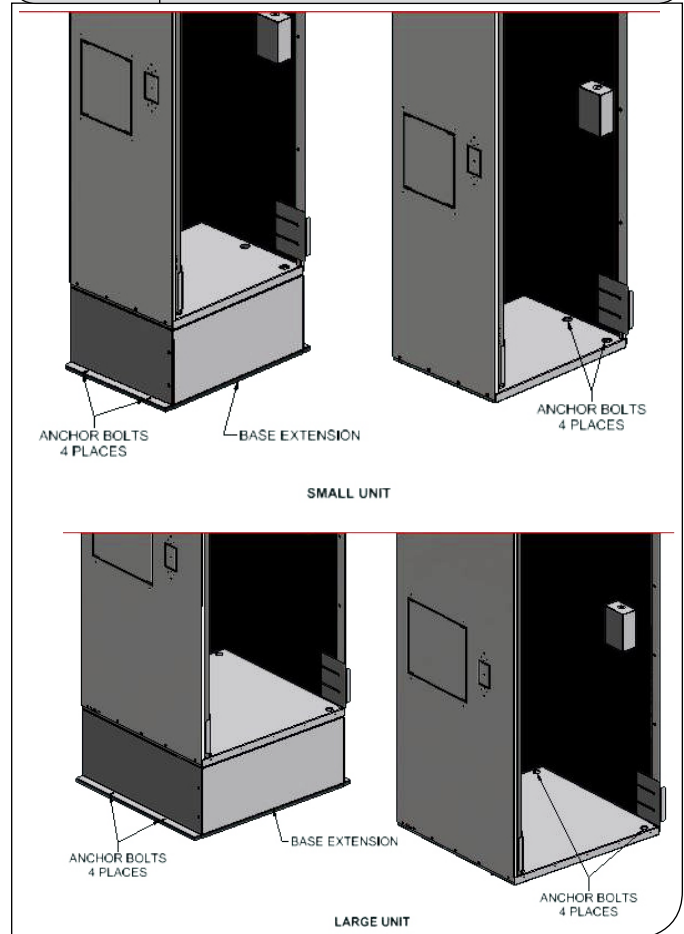
The return air path must be unobstructed during operation. A minimum clearance of 18 inches in front of the air return is required. Ensure that drapes, beds, bedspreads, furniture, etc., DO NOT block either the return or discharge air openings.

## INSTALLING THE CABINET

To install the Cabinet, proceed as follows:

1. Position the cabinet in mounting location. Shim cabinet to level as needed, then anchor the cabinet to floor using appropriate hardware for floor construction (see Figure 1).

Figure 1. Anchoring Cabinet to Floor



2. If installing a base extension, bolt the extension to the concrete floor.
3. The riser knockout is to be left exposed for riser installation.

## RISER INSTALLATION

The supply and return risers are standard type “M” copper. Type “L” copper is optional. The condensate riser is type “M” copper. Riser length and schedule shall be coordinated with the mechanical contractor. Refer to the consulting engineers instructions for riser anchoring requirements.

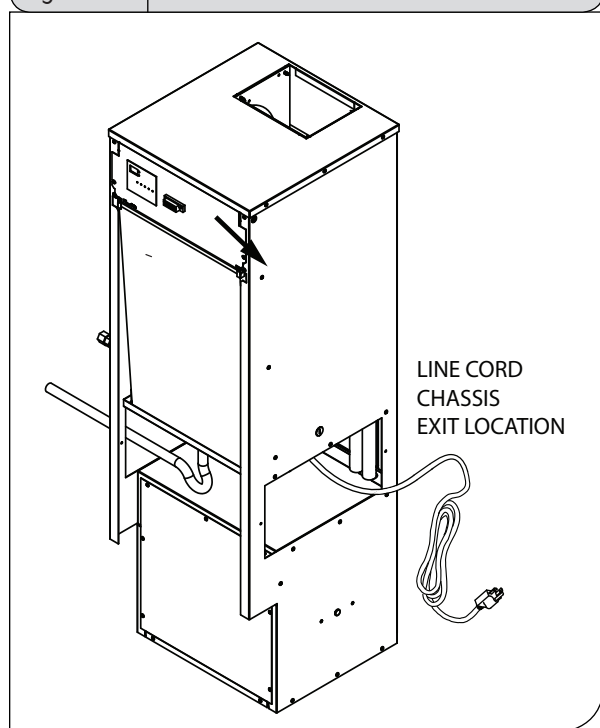
# INSTALLATION (CONT'D)

## UNIT POWER CONNECTION

Electrical connections are made to the cabinet. Cabinets have knockouts for a standard single gang electrical box. The box must not protrude into cabinet more than ½ inch (13 mm) or it will interfere with the chassis installation or removal.

Units are equipped with an 8 foot power cord (actual usable length is shorter as approximately 24 inches (610 mm) is internal to chassis).

Figure 2. LCDI Power Cord



A receptacle may be included with unit if ordered. Receptacles required to match factory supplied cord are as follows.

LINE VOLTAGE	208/230	208/230
MAXIMUM AMPERAGE	12	16
WALL SOCKET CONFIGURATION		
RECEPTACLE NUMBER	NEMA 6-15R	NEMA 6-20R

\* All data is subject to change

Once the unit is connected to power, measure the unit supply voltage. Voltage must fall within the voltage utilization range as shown in the table below.

## VOLTAGE MEASUREMENTS

SUPPLY VOLTAGE		
UNIT VOLTAGE RATING	VOLTAGE UTILIZATION RANGE	
	MINIMUM	MAXIMUM
230/208	197	253

## REMOTE WALL MOUNTED THERMOSTAT



**WARNING!** Ensure power to the unit is shut off prior to making any electrical connections.

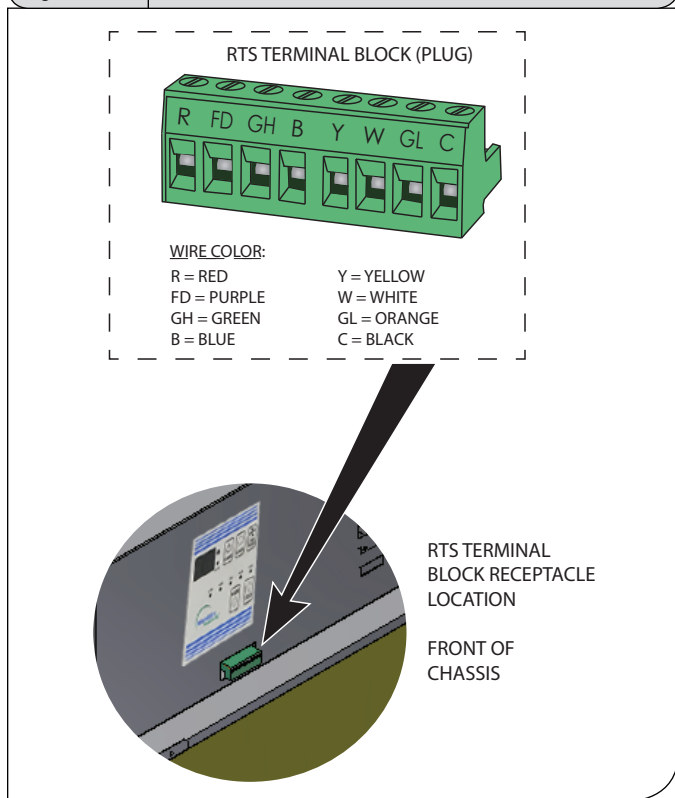
The EZ Series VH unit can be controlled by any remote electronic thermostat that can interface with RCBWYG terminals. In terms of outputs, there are two types of thermostats: mechanical and solid-state. Refer to the manual provided with the thermostat for proper connections and settings.

The EZ Series VH unit does not have a reversing valve. The compressor is OFF in heat mode. DO NOT use Heat Pump configuration on thermostats. Set thermostat to Gas or ELC.

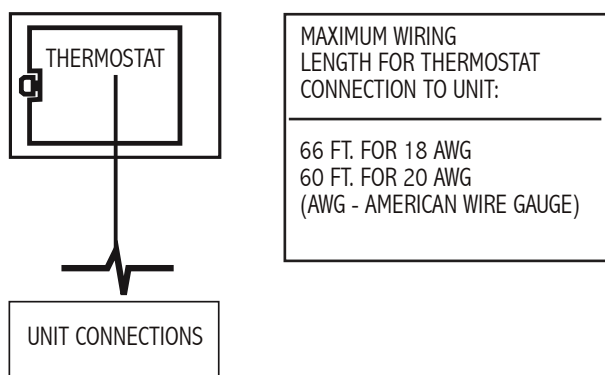
A Remote Thermostat Terminal Block with removable plug is located on the front of the chassis next to the touchpad Control Panel. It provides a connection for a remote thermostat and energy management inputs (any type 24 Vac thermostat can be used).

# INSTALLATION (CONT'D)

Figure 3. Thermostat Terminal Block



1. Remove the Remote Thermostat Terminal Block plug from the terminal block receptacle and connect the thermostat wires to the plug as indicated in Figure 3.
2. Re-insert plug into terminal block receptacle.



## TERMINAL BLOCK WIRING

During a call, the remote thermostat will pass R back to the controller on a respective terminal. See below for descriptions of each terminal.

### Terminal R (Red)

Low voltage terminal to supply voltage to an external wall-mounted thermostat. This terminal is capable of supplying 100 mA at 18-30 Vac RMS over the entire input voltage range specified.

### Terminal FD (Purple)

When this low voltage terminal is connected to the R terminal, the compressor and electric heater are disabled to provide an energy management system interface.

### Terminal GH (Green)

When this low voltage terminal is connected to the R terminal and the unit is in remote mode, the blower/fan will be requested for operation on high speed.

### Terminal B (Blue)

When this low voltage terminal is connected to the R terminal and the unit is in the remote mode, the reversing valve is energized. Hydronic and electric heat shall be attempted as backups if the B terminal is asserted and the compressor is locked out or disabled. This is subject to the configured heat modes available.

### Terminal Y (Yellow)

When this low voltage terminal is connected to the R terminal, and the unit is in remote mode, the compressor will be switched on (the GL or GH terminal must also be connected to the R terminal).

### Terminal W (White)

When this low voltage terminal is connected to the R terminal, and the unit is in the remote mode, first hydronic heat is attempted, and electric heat is switched on as backup (the GL and GH terminal must also be connected to the R terminal). This is subject to the configured heat modes available.

### Terminal GL (Orange)

When this low voltage terminal is connected to the R terminal, and the unit is in remote mode, the blower/fan will be requested for operation on low speed.

### Terminal C (Black)

Low voltage terminal, 24 Vac common, to provide opposite polarity voltage to wall thermostat.

# INSTALLATION (CONT'D)

## REMOTE THERMOSTAT INTERFACE

A wiring harness with a male mating plug is provided to enable unit connection for remote thermostat and energy management inputs. To convert from unit control to remote thermostat control, proceed as follows:

1. In standby off mode, press MODE and WARM (+) buttons simultaneously for 3 seconds. The buzzer will chime and LED display reads "P" or "R".
2. P = Unit control panel has control of unit
3. R = Remote thermostat has control of unit
4. Make sure "R" is selected. If not, toggle setting by pressing and holding the MODE and WARM (+) buttons simultaneously for 3 seconds.
5. Plug in the supplied thermostat harness (see Figure 3).
6. Connect wires to field-supplied thermostat.

## WIRELESS WALL THERMOSTAT

Wireless wall thermostats are designed to provide precise thermostat control without the installation labor and expense of wiring.

- Powered by 24 Vac or AA batteries
- Mounts in any suitable location that will provide an accurate room temperature reading.
- Large LCD display provides the user with current room temperature, set point temperature, time, program interval, and other system status information.

### Remote Control Mode

Used with a wireless wall thermostat, the RCN communicates with the thermostat using unlicensed 900 MHz, radio frequency range.

## FRONT DESK CONTROL

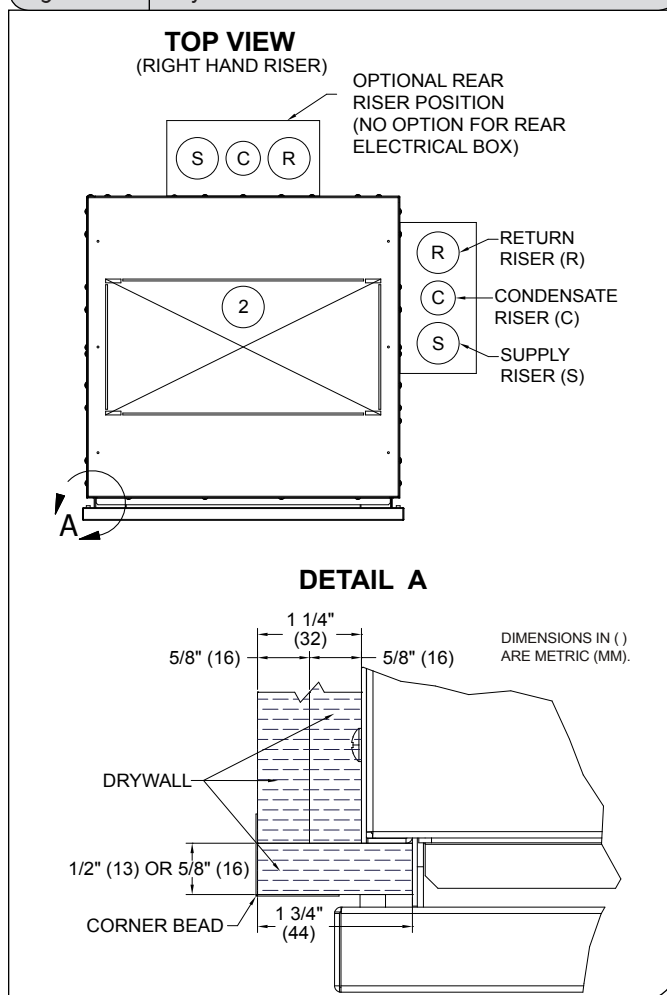
Low voltage terminals on the main control board allow easy connection to a front desk energy management system. Front desk controls allow the unit to be operated from a remote location. Front desk controls can reduce energy consumption by allowing front desk personnel to turn the unit off when a room is vacant.

Energy management functionality allows the unit performance to be customized to control its power consumption. Displaying fault codes help personnel quickly diagnose and correct any problems if they occur.

## DRY WALLING AND CHASSIS INSTALLATION

1. Glue or attach drywall with screws to front of unit to ensure the proper fit of cabinet as shown in Figure 4.

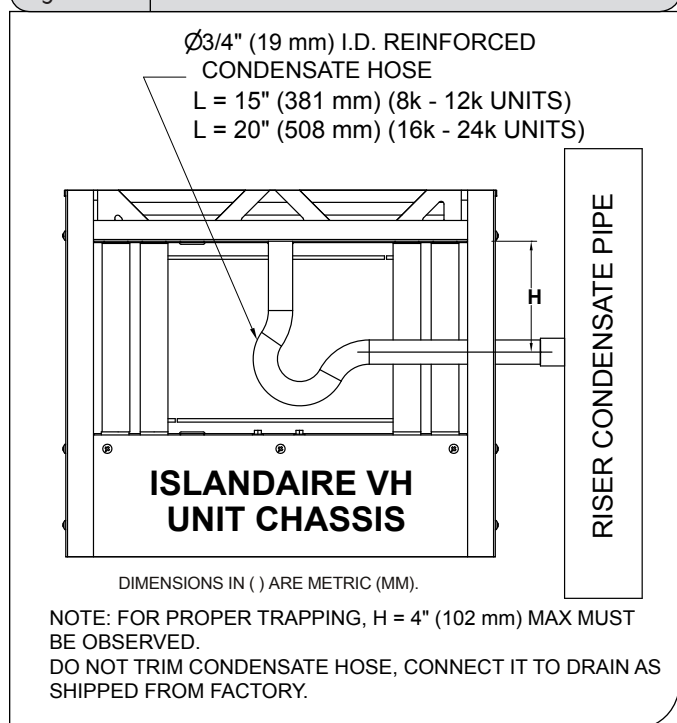
Figure 4. Drywall Attachment



# INSTALLATION (CONT'D)

2. It is permissible to glue or screw drywall directly to the side of the cabinet as long as the riser bundle is not on that side. The drywall screw length must not be longer than the drywall thickness plus a maximum 3/8" (10 mm).
3. Use studs to frame in the riser side of the cabinet as necessary. Keep screws away from the riser pipes.
4. Remove supplied 1/2" (13 mm) MPT-to-JIC fittings from hoses supplied in hose kit and install fittings into riser female threaded pipe connections.
5. Install chassis in cabinet.
6. Connect Supply/Return hoses and condensate line to risers ensuring condensate hose is trapped as shown in Figure 5.

Figure 5. Hose Connection



7. Perform a leak test and ensure the hose clamp on the condensate line is tight.

## FRONT ACCESS PANEL

The Front Access Panel provides sound dampening and access to the unit for servicing. To install, proceed as follows:

1. Locate the two (2) upper and two (2) lower Front Access Panel Mounting Brackets as shown in Figure 6.

Figure 6. Front Access Panel



2. Adjust all bracket mounting positions as needed to provide appropriate depth for Front Access Panel when it is mounted (see Figure 7).

# INSTALLATION (CONT'D)

Figure 7. Front Access Panel

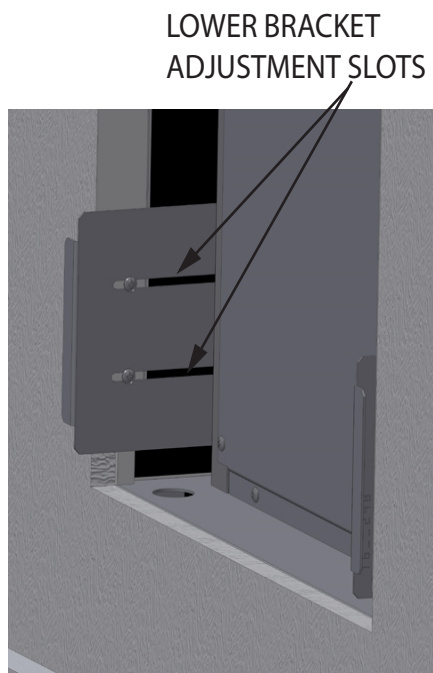
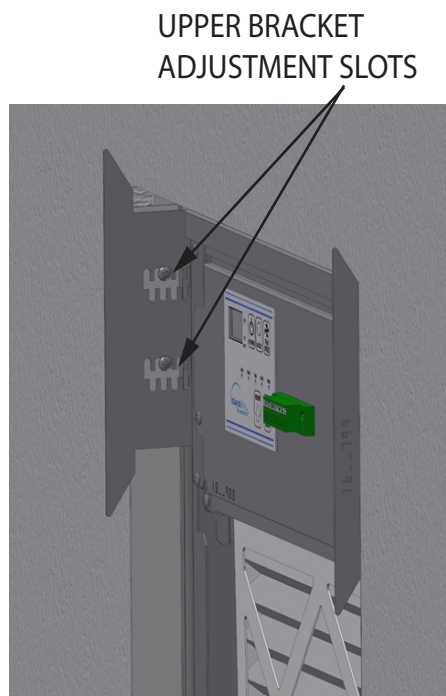


Figure 8. Front Access Panel (Rear View)

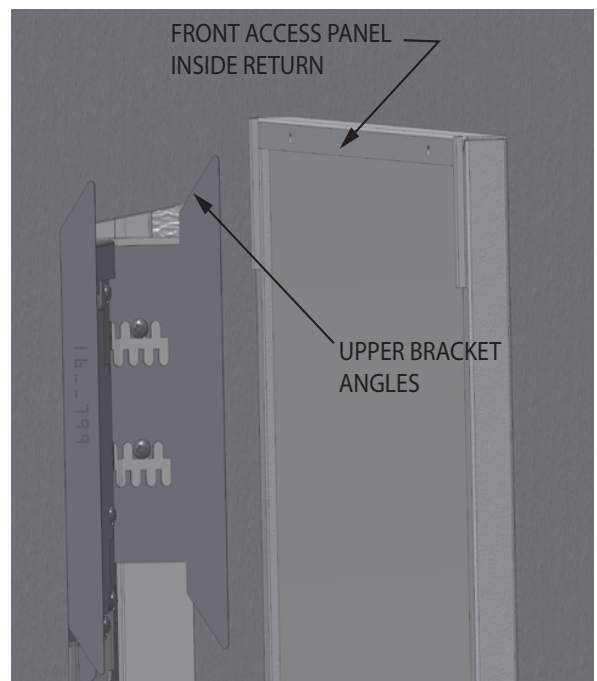


Figure 9. Front Access Panel Installed



3. Lift up the top of Front Access Panel above the upper mounting brackets, align the panel with both top and bottom brackets, then slowly lower panel so the top inside return of the panel hangs onto the two angled top brackets and the bottom of panel is secured behind both lower brackets (see Figure 8).

# PRE-START CHECKS & START UP

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## PRE-START CHECKS & START UP

### SYSTEM FLUSHING

Proper system cleaning and flushing is an important aspect of the commissioning and startup procedure for the unit. Ensure the system has been flushed properly. This prevents fouling of the unit's heat exchangers. It is common for debris to settle out in areas of the system where there is low flow or low fluid velocity. This causes nuisance alarms as a result of a fouling heat pump. It is necessary to flush these units out as they appear to contain debris build up. This is the responsibility of the contractor and not a heat pump defect.

**NOTE: A potential issue may arise during construction where the system fluid loop is drained after being cleaned, flushed and tested. The EZ Series VH unit will not completely drain and may hold fluid in the condenser or heating coil. Extensive damage may result to internal components if the system fluid freezes unless adequate glycol is added.**

### SYSTEM WATER TEMPERATURE

Ensure that system water temperature is within an acceptable range to facilitate start-up:

80 - 120 °F (27 - 49 °C) for cooling

100 - 140 °F (38 - 60 °C) for heating.

### SYSTEM WATER PH

System water should have a neutral pH balance of approximately 7.5, which will extend the life of the hoses, heat exchangers, and other water side components.

### WATER FLOW RATE

Open all isolation valves to the unit. Ensure that the entering and leaving fluid temperatures of the unit in operation are acceptable. There is typically an 8 - 12 degree drop or rise in temperature, depending on whether the unit is in cooling or heating mode, respectively. Under extreme conditions, slight variances in the temperature may be noted.

### WATER SYSTEM FREEZE PROTECTION

Ensure that freeze protection is provided for the outdoor portion of the loop water system. Inadequate freeze protection can lead to coil damage.

### REMOVE AIR FROM FLUID SYSTEM

Air in the system impairs unit operation and can cause erosion in the system piping. Air balancing of the system should be performed while the unit's fan is operating at high-speed. In order to ensure the fan is operating at high-speed, the unit must be placed in Cool mode.

### CLEAN UNIT FILTERS

Confirm unit filters are clean. This ensures there is adequate air flow across the coil.

### FAN ROTATION

Inspect the fan section to ensure it is free and clear of any debris and the fan rotates freely.

# OPERATING GUIDELINES

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## OPERATING GUIDELINES

- This equipment is designed for indoor installation ONLY.
- Do NOT operate the unit while the building is still under construction or restoration. Construction dust can clog the filter and cause permanent damage to other components.
- Do not block airflow to/from the unit. Efficient operation of the unit depends on free circulation of air. Ensure that objects such as drapes, furniture, plants, etc., are not blocking the supply and return airflow.
- Do NOT operate unit without filter in place and proper return air clearance, as this will void any warranties. Operating without the filter in place or with a damaged filter will allow dirt and dust to reach the indoor coil and reduce the airflow and efficiency of the unit.
- Keep doors and windows closed. Leaving them open will increase the workload on the unit and will result in higher operating cost and excessive condensate.
- To maintain optimum performance, keep the air intake filter clean. A dirty filter reduces the efficiency of the system and can cause erratic performance of controls. It can also result in damage to the heating element and compressor. Inspect and clean the filter at least once a month or more often as conditions dictate. Replace as necessary with a factory approved filter. Changing the filter will decrease cost of operation, save energy, prevent clogged heat exchanger coils, and reduce the risk of premature component failure.
- Coils should be inspected periodically for lint build-up, dirt, debris, and for bent fins. Clean coils with a soft brush and compressed air or vacuum. Do NOT use sharp objects to clean coils.
- Clean the drain system regularly to prevent clogging.
- The fan motors are permanently lubricated and do not require re-oiling.

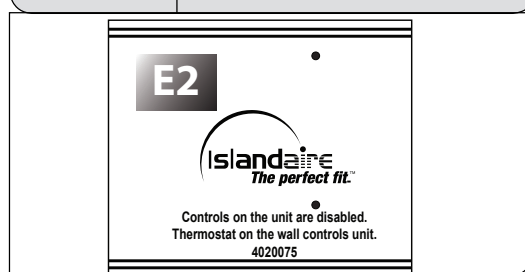
# ERROR CODES

## CONTROL PANEL DISPLAY DIAGNOSTICS

The Islandaire EZ Series VH unit is equipped with an electronic system that performs self-diagnostic tests using associated sensors that inform service personnel about possible problems. For example, built-in safety features protect the unit from the damaging effects of freezing temperatures and power interruptions.

If abnormal conditions are detected, an error code is displayed, removing the guess work in troubleshooting a unit. Error codes are continuously displayed during troubleshooting and maintenance until the problem has been resolved.

Figure 10. Display - Error Code



ERROR CODE	DIAGNOSIS	CAUSE	NOTE
E2	RETURN AIR (RA) TEMPERATURE SENSOR FAILURE	RA SENSOR BROKEN OR LOOSE AT BOARD CONNECTION	UNIT OPERATION DISABLED
E3	INDOOR COIL (IDC) TEMPERATURE SENSOR FAILURE	IDC SENSOR LOOSE OR BROKEN AT BOARD CONNECTION	UNIT OPERATION DISABLED
E5	OUTDOOR COIL (ODC) TEMPERATURE SENSOR FAILURE	ODC SENSOR BROKEN OR LOOSE AT BOARD CONNECTION	UNIT OPERATION DISABLED
E8	OVERHEAT / FREEZE PROTECTION	<ul style="list-style-type: none"> <li>• REFRIGERANT RESTRICTION</li> <li>• DIRTY FILTER / EVAPORATOR COIL</li> <li>• FAILED EVAPORATOR MOTOR</li> <li>• RETURN SUPPLY AIR RESTRICTED</li> </ul>	UNIT OPERATION DISABLED
E9	SYN. FAULT TERMINALS OPEN	HIGH PRESSURE SWITCH OPEN: <ul style="list-style-type: none"> <li>• DIRTY CONDENSER COIL (COOLING)</li> <li>• FAILED CONDENSER MOTOR (COOLING)</li> <li>• ENSURE BAFFLES ARE INSTALLED (IF REQUIRED)</li> <li>• REFRIGERANT RESTRICTION</li> <li>• DIRTY FILTER / EVAPORATOR COIL (HEAT PUMP)</li> <li>• EVAPORATOR MOTOR FAILURE (HEAT PUMP)</li> <li>• ALL ADDITIONAL SAFETIES TIED TO SYN. FAULT TERMINALS SHOULD BE CHECKED</li> <li>• LOW/NO REFRIGERANT</li> </ul>	UNIT OPERATION DISABLED

# ROUTINE MAINTENANCE

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**WARNING!** To prevent injury or death due to electrical shock or contact with moving parts, disconnect the power to unit before servicing.

## INSPECT FILTERS

Establish a regular maintenance schedule. Clean filters frequently and replace as required. A vacuum can be used to clean filters, as well as the surface of coil components. To remove the filter from the unit, remove the front panel and slide out filter.

## CHECK FAN MOTORS ANNUALLY

Inspect fan motors for unusual signs of wear. The fan motor is permanently lubricated when shipped from the factory and does not require lubrication.

## AMPERAGE CHECK ON COMPRESSOR AND FAN MOTOR

Current draw on this equipment should not exceed normal full load or rated load amps by more than 10% of the values noted on the unit's rating plate.

## SAFETY CONTROL RESET

All Islandaire heat pump units contain high and low pressure switches to prevent the machine from operating under abnormal conditions of temperature or water flow. If multiple pressure alarms occur within 24 hours, the compressor operation will be permanently locked out until the unit is reset, or power is disconnected for 20 seconds.

**NOTE:** If the unit must be reset more than twice, check for a dirty air filter, abnormal entering water temperature, inadequate water flow (using  $\Delta T$  method described below), or internal malfunctions that may be causing high or low pressure conditions. If alarms continue, contact a trained service technician and ensure problems are resolved prior to re-setting the unit.

**$\Delta T$  Method:** The normal water temperature differential of the EZ Series VH unit is 8 - 15 °F (4.4 - 8.3 °C) in heating mode and 10 - 15 °F (5.5 - 8.3 °C) in cooling mode.

## DRAIN PAN AND CONDENSATE HOSE

Inspect and clean, if necessary, the condensate hose and drain pan on a regular basis.

# CONTROL & MONITORING FEATURES

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## CONTROL & MONITORING FEATURES

The Islandaire EZ Series VH unit can be operated using several different control systems. The smart logic control utilizes a built-in sensor for measuring room temperature. When a pre-determined (user-defined) set point is reached, smart logic controls automatically adjust the unit operation to maintain the room temperature.

Described below are some of the important built-in automatic control features and a brief description of each function.

### **ROOM FREEZE PREVENTION**

The indoor freeze protection monitoring system prevents unoccupied rooms from reaching freezing levels that can damage plumbing and fixtures. This feature is automatic regardless of mode and does not require any additional settings. This feature can be turned on or off by adjusting DIP switch settings on the main control board.

If the temperature in a vacant room falls below 50 °F (10 °C), the freeze prevention thermostat automatically starts the heating cycle to prevent freezing conditions. All other operations will be disabled until the temperature rises above 58 °F (14 °C). When the temperature of the freeze prevention thermostat rises above 58 °F (14 °C), the system will resume normal operation.

### **HIGH TEMP COMPRESSOR PROTECTION**

The life of the compressor is extended through built-in temperature protection. The system will initiate a compressor lockout if the compressor temperature exceeds 154 °F (68 °C) or if the outdoor air temperature falls below 35 °F (2 °C).

### **LOW TEMP COMPRESSOR PROTECTION**

An indoor frost sensor will disable the operation of the compressor if freezing conditions exist. This protects the compressor from damage due to airflow reduction or low outdoor air temperature. When the coil temperature rises to a safe temperature the compressor resumes normal operation.

### **COMPRESSOR SHORT CYCLE PROTECTION**

Built-in 3 minute timing delay: If cycle is interrupted, the compressor will not restart for 3 minutes. On all initial power-ups, there is a one-time, 3 minute time delay before the unit will function.

### **AUTO RESTART**

To prevent multiple units from powering up simultaneously after a power outage, there will be a random 5 to 15 second delay before the unit turns on after power has been restored.

# PERFORMANCE SPECIFICATIONS

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## EZ SERIES VH HYBRID HEAT PUMP

### PART I: SPECIFICATIONS

Capacities: 8000, 10,000, 12,000, 16,000, 18,000, 20,000 and 24,000 Btu/h

### PART II: GENERAL

#### 1.01 SYSTEM DESCRIPTION

Single piece, electrically-controlled unit using hermetic rotary compressor for cooling, hybrid heat pump system for heating.

- A. Chassis: Shall be entirely constructed of galvanized, heavy 18 gauge (0.0046 mm) steel.
- B. Cabinet: Shall be anodized aluminum as shown on plans. Chassis shall be easily installed from the inside of the building after the cabinet has been installed. Return/Discharge Vents must be approved by the EZ Series VH manufacturer as to free area and air circulation requirements.

#### 1.02 QUALITY ASSURANCE

System shall be tested and certified by ETL. Chassis capacity and efficiency performance shall be certified in accordance with AHRI standard 390. Chassis shall meet ASHRAE Standard 90.1 for minimum energy efficiency.

#### 1.03 DELIVERY, STORAGE AND HANDLING

- A. The packaging of the chassis shall be sufficient to protect the chassis from damage during shipment via an enclosed truck.
- B. Chassis and front access panel shall be shipped in separate cartons. Universal handling instructions shall be defined and visible on the cartons from the front, back and sides.
- C. Unit shall be stored and handled per manufacturer's recommendations.

#### 2.01 EQUIPMENT

- A. General: Factory-assembled, single-piece heating and/or cooling unit. Contained within the unit enclosure shall be compressor, coils, fans and fan motor, heating means, controls, all wiring and piping, and a full refrigerant charge (R410A).
- B. Chassis: The chassis shall be a factory-assembled, single piece heating and/or cooling unit, that is simple to install and operate. Just slide the chassis into the cabinet, connect plumbing and electrical power/thermostatic control system, and apply power.
- C. Operating Characteristics: Chassis shall be capable of starting and running at 115 °F (46 °C) ambient outdoor temperature per maximum load criteria of AHRI Standard 390.
- D. Electrical: Chassis shall be equipped with a power cord. The chassis current draw shall be specified on the chassis nameplate and match electrical requirements specified on the Contract drawing schedule and specifications. The power cord plug configuration shall conform to NEMA standards.
- E. Airflow System: The airflow system shall consist of a permanently-lubricated, two-speed DC fan motor for the indoor (EVAP) fan that is dynamically balanced for quiet operation, with a multi-blade axial flow design, and an integrated slinger ring. The fan motor shall be an enclosed design to reduce the effects of moisture and corrosion.

# PERFORMANCE SPECIFICATIONS (CONT'D)

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- F. Compressor and Refrigerant: The rotary-type compressor shall be fully hermetic with internal and external vibration isolation. The refrigeration system will be sealed and contain a full refrigerant charge (R410A).
- G. Coils: Coils to be constructed of high-efficiency aluminum fins and seamless axial-grooved copper tubing, necessary to achieve EER and COP rating, as specified in supporting documentation. Coils will be hydro-phillic-coated for greater moisture dispersion.
- H. Condensate Removal System: Condensation must be disposed of using a (external)(internal) drain system as shown on plans.

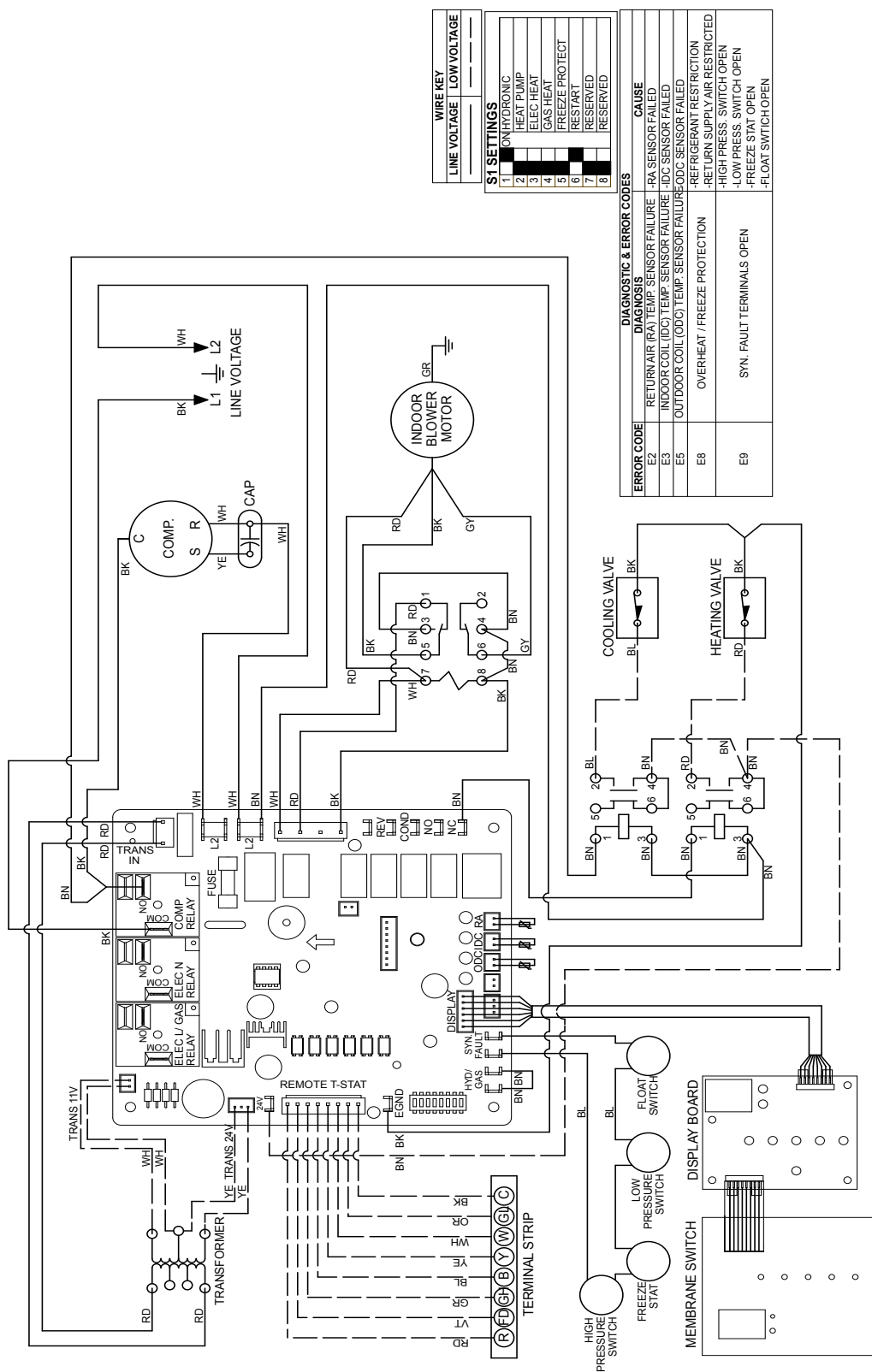
## 3.01 CONTROLS

All standard models shall be equipped with electromechanical controls to simplify the serviceability of the unit.

- A. Standard Control: The chassis shall have a remote thermostat (RTS) terminal block and removable plug to enable easy interface with a modern remote wall thermostat.
- B. Thermostat: The chassis shall come from the factory ready for wall thermostat installation.
- C. Protection Circuits: Compressor shall have automatic reset, over temperature and over current protection. The fan motor shall have an inherent, automatic reset over temperature protection.

# WIRING DIAGRAM

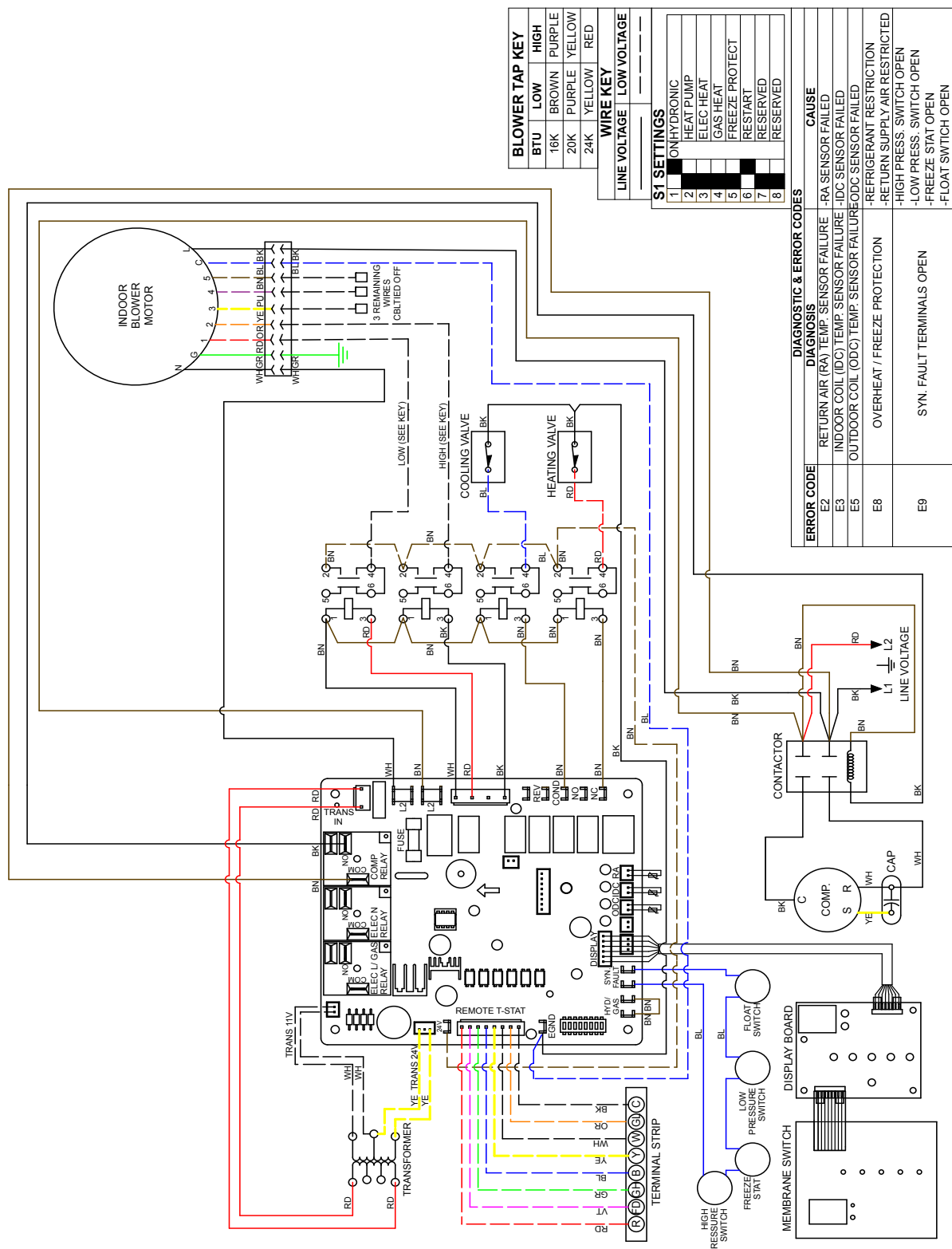
Figure 11. Wiring Diagram - EZ Series VH EZ08 / EZ10 / EZ12 / EZ16 Units



\*NOTE: ABOVE DIAGRAM IS TYPICAL. FOR UNIT SPECIFIC WIRING, REFER TO DIAGRAM PROVIDED WITH UNIT (ENCLOSED IN VINYL POUCH)

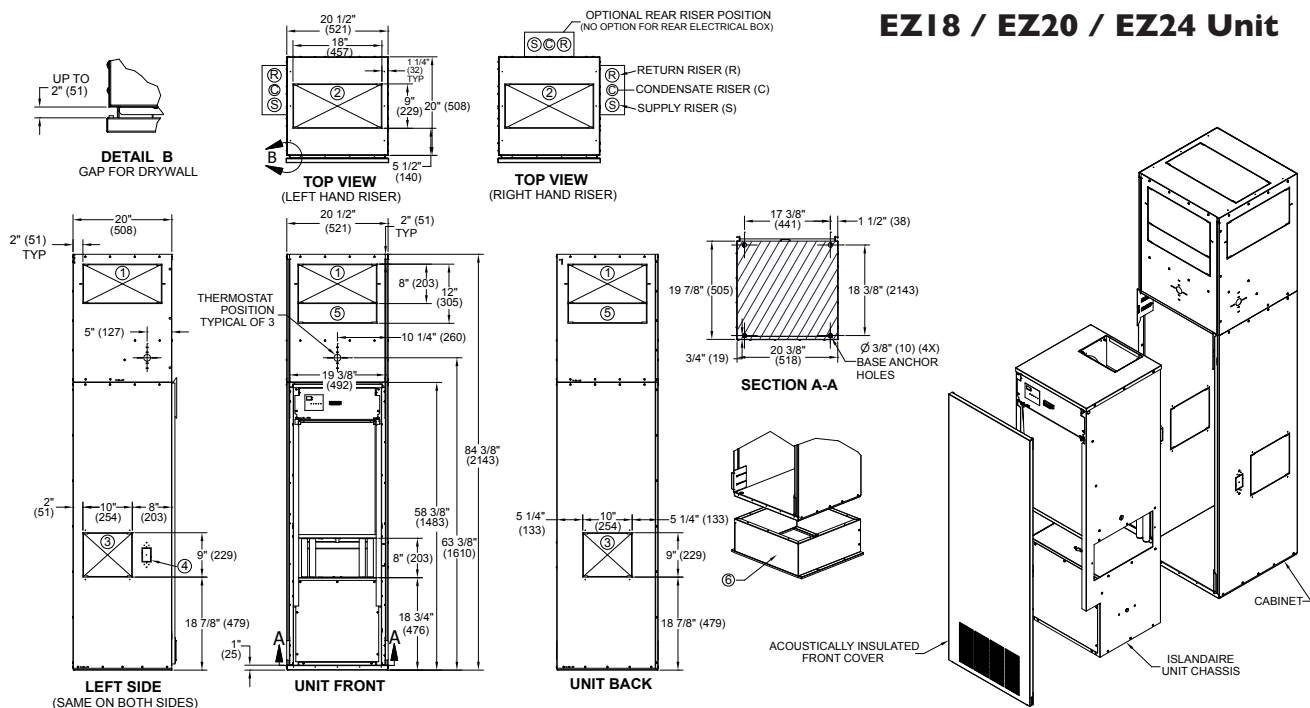
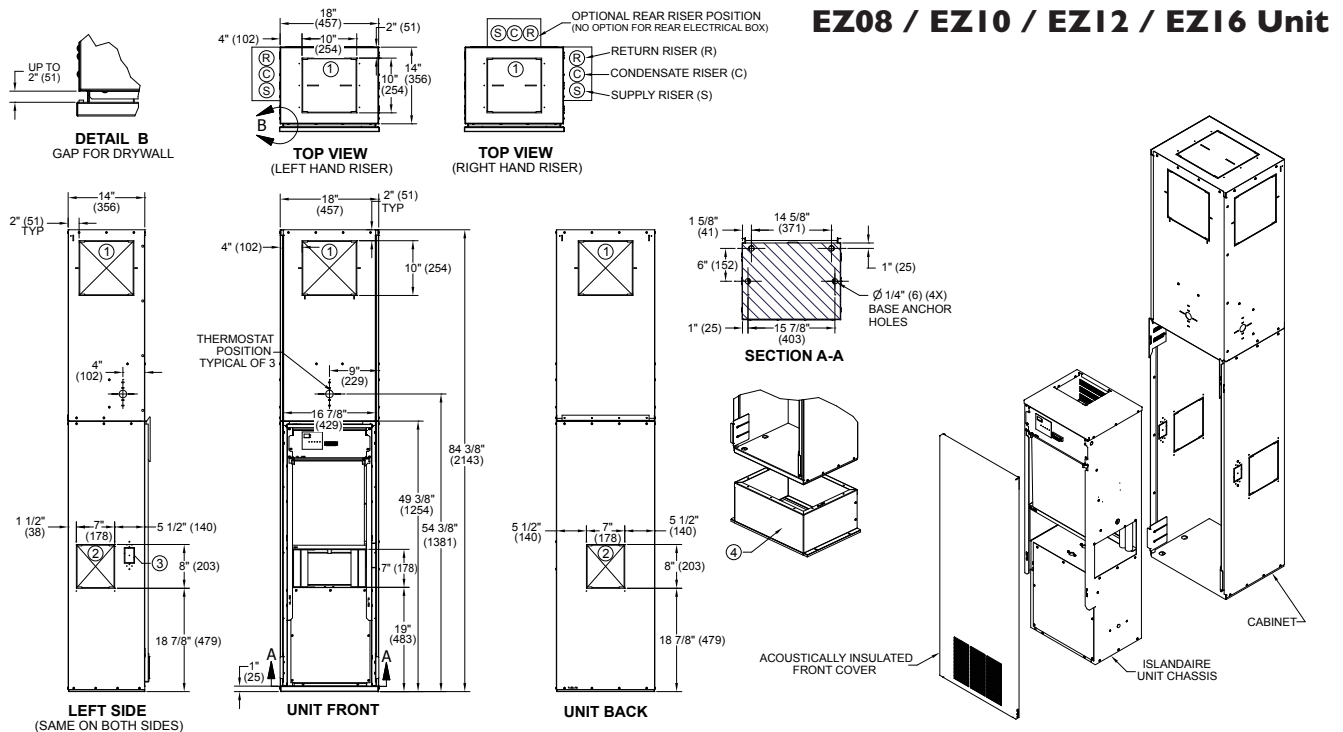
# WIRING DIAGRAM (CONT'D)

Figure 12. Wiring Diagram - EZ Series VH EZ18 / EZ20 / EZ24 Units



\*NOTE: ABOVE DIAGRAM IS TYPICAL. FOR UNIT SPECIFIC WIRING, REFER TO DIAGRAM PROVIDED WITH UNIT (ENCLOSED IN VINYL POUCH)

# SUBMITTAL DIAGRAM



# TYPICAL WARRANTY

## LIMITED ONE YEAR PARTS AND LABOR PLUS ADDITIONAL 2<sup>ND</sup> THROUGH 5<sup>TH</sup> YEAR SEALED SYSTEM PART ONLY WARRANTY COVERING ISLANDAIRE THRU-WALL AIR CONDITIONERS & HEAT PUMPS

THIS WARRANTY APPLIES TO THE AIR CONDITIONER UNIT ("THE UNIT") THAT IS THE SUBJECT OF THIS SALE AND IS IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED. THIS WARRANTY DOES NOT APPLY TO ANY ACCESSORY THAT IS NOT A PART OF THE UNIT AS SHIPPED BY ISLANDAIRE. THIS WARRANTY APPLIES ONLY TO THE ORIGINAL EQUIPMENT AT THE ORIGINAL INSTALLATION LOCATION. PROOF OF PROPER, ROUTINE MAINTENANCE WILL BE REQUIRED IN ORDER TO MAINTAIN EXTENDED WARRANTY.

ISLANDAIRE the "Company" of St. James, New York warrants that the unit is free from defects in material and workmanship under normal use and service, for the twelve-month period following the date of installation\*.

WARRANTY Coverage includes repair or replacement, at the Company's option, of any defective parts that fail under normal use for the first 365 days after the date of equipment installation\* under the terms, conditions and limitations of the warranty. All defective parts shall be returned within thirty days after removal to the Company at such locations as the Company may designate. Islandaire reserves the right to impose an inspection charge and/or a restocking fee in cases where parts or equipment have been improperly returned as defective and/ or as being in warranty. **A warranty part can only be replaced one time over the duration of the warranty period.**

WARRANTY coverage also includes Labor Charges on all covered repairs performed by a Islandaire Authorized Service Agent in accordance with the terms, conditions and limitations of the warranty. Extra charges such as emergency calls, nuisance calls, mileage, overtime or shipping are not covered.

On occasion, wires may become disconnected or components may be dislodged from their bases as a result of rough handling during transport, causing improper functioning of the unit. Immediately following installation, the installing contractor is responsible to check, test and start the unit, including physically operating the unit in both cooling and heating modes, and correcting any minor deficiencies noted. Additionally, the installing contractor is responsible to provide unit operation instruction by an experienced person.

ADDITIONAL SEALED SYSTEM WARRANTY Coverage includes replacement of any part of the sealed refrigeration system, including the compressor, evaporator, condenser and connecting tubing, that proves to be defective from the 2nd through 5th year from date of installation. Labor is not included. Freight charges for replacement and return of defective warranty parts will be the Company's responsibility.

**IN NO EVENT SHALL THE COMPANY'S MAXIMUM LIABILITY EXCEED THE SELLING PRICE OF THE UNIT CLAIMED TO BE DEFECTIVE.**

As a condition precedent to the Company's obligation under this WARRANTY, it shall be the obligation of the Owner during the designated WARRANTY period to furnish the following information to the Company within three days after unit failure: 1) Model Number and Serial Number of unit involved, 2) A full and complete description of the problem encountered with the unit. Upon receipt of the above information, the Company will reply to the Owner within a period not to exceed fifteen working days, with a description of the action the Company desires to take.

**For warranty service, contact an Islandaire Authorized HVAC Service Agent.**

**Contact the Islandaire Customer Service Department at U.S. 800-886-2759.**

To validate this WARRANTY, you must complete the registration information below and return the pre-addressed card to Islandaire within seven days of equipment installation. The actual warranty type for your equipment is stated on the original Islandaire invoice for said equipment. Proof of installation date is required. **\*Please be advised where no Warranty Registration Card has been returned, the original date of invoice of the equipment shall become the start date of the warranty period.**

[illegible]

# EZ REPLACEMENT GUIDE

Original Model	Case Height	Case Width	Our Model
<b>Amana®</b>			
PT 42 x 16 Series	16	42	<b>42</b>
PB 26 x 16 Series	16	26	<b>26</b>
<b>American Air Filter®</b>			
Enersaver Type 16	16	37 1/2	<b>16</b>
Type 16 Hydronic	16	41 1/2	<b>16</b>
Nelsonaire Series 25	16	36 1/2	<b>25</b>
<b>American Standard®</b>			
TW Series Type 41	16	36 1/2	<b>41</b>
Type 40 Remotaire(SR)	16 1/2	37	<b>40</b>
<b>Applied Comfort®</b>			
DM/DMQ	18 5/16	32	<b>CS</b>
SC Series	16	40	<b>SC</b>
SC Series	16	36	<b>RM</b>
<b>Carrier®</b>			
51PH Wallmate	18 15/16	32	<b>CS</b>
<b>Cartaret®</b>			
Type 45	16 1/2	37	<b>45</b>
<b>Chromalox®</b>			
Space Command	16 1/2	45 1/8	<b>CH</b>
CAM (2 section)	15	35 1/2	<b>CX</b>
<b>Chrysler®</b>	15 1/2	36	<b>CY</b>
<b>Climate Master®</b>			
Climate Master Series 700AD	16	36	<b>AD</b>
Climate Master Series 701	16	40 1/2	<b>C7</b>
Climate Master Series 702, 703 & 704	16	36	<b>CM</b>
<b>Dunham Bush®</b>			
New Port III	25	52	<b>N3</b>
New Port IV	25	52	<b>N3</b>
<b>Fedders®</b>			
Maxizone Series	16 1/4	27	<b>MX</b>
Unizone	16	48	<b>UN</b>
<b>Friedrich®</b>			
Climate Master Series 700AD	16	36	<b>AD</b>
Climate Master Series 701	16	40 1/2	<b>C7</b>
Climate Master Series 702, 703 & 704	16	36	<b>CM</b>
ET Series	20	28	<b>ET</b>
TE Series	16	42	<b>TE</b>
Vert-I-Pak	32	23	<b>VP</b>
<b>General Electric®</b>			
Zoneline	16	42	<b>42</b>
AJ Series	16	26	<b>26</b>
AZ Vertical	31	23 1/4	<b>VP</b>
<b>Heil Quaker®</b>			
SEA Series	14 1/2	35 7/8	<b>HQ</b>
SHA Series	14 1/2	35 7/8	<b>HQ</b>
Series C	18 5/16	32	<b>CS</b>
<b>Ice-Cap / Ice Air®</b>			
RSK Series	16	36	<b>RK</b>
RSCT Series	15 3/4	41	<b>RT</b>
RSWL Series	13 1/4	56 1/2	<b>WL</b>
<b>ITT Nesbitt®</b>			
Challenger Series	16 1/4	42 1/4	<b>NC</b>
Roomate Series - N	-	-	<b>CY</b>
Modular Roomate (MW)	-	-	<b>NR</b>

Original Model	Case Height	Case Width	Our Model
<b>Keeprite®</b>			
Climette	18 5/16	32	<b>CS</b>
Seasonall	18 5/16	32	<b>CS</b>
<b>Lennox®</b>			
PTEIA Series	22 1/4	38	<b>PT</b>
<b>McQuay®</b>			
C/EC	27 3/8	54 1/2	<b>EC</b>
EB Series	22	30 5/8	<b>EB</b>
J/EJ Series	14	30	<b>JA</b>
K, EK and RK Series	13 15/16	36	<b>KF</b>
Type EA, ES and RS	16 3/8	44 7/8	<b>ED</b>
Type NE	16	42	<b>NE</b>
<b>Mueller®</b>			
Climatrol	16	48	<b>UN</b>
<b>Remington®</b>			
J/EJ Series	14	30	<b>JA</b>
K, EK and RK Series	13 15/16	36	<b>KF</b>
Type 41	16	36 1/2	<b>41</b>
Type 45	16 1/2	37	<b>45</b>
<b>Simonaire®</b>			
SSK	15 3/4	41	<b>RT</b>
SSEZ	15 3/4	41	<b>RT</b>
SSCT	15 3/4	41	<b>RT</b>
<b>Singer®</b>			
C/EC	27 3/8	54 1/2	<b>EC</b>
EB	22	30 5/8	<b>EB</b>
J/EJ Series	14	30	<b>JA</b>
K, EK and RK Series	13 15/16	36	<b>KF</b>
Type 41	16	36 1/2	<b>41</b>
Type 45	16 1/2	37	<b>45</b>
Type EA, ES and RS	16 3/8	44 7/8	<b>ED</b>
<b>Slant Fin®</b>			
JK	16	42	<b>JK</b>
CC Monterrey	16	42	<b>CC</b>
Monterrey	17 1/2	36	<b>FM</b>
<b>Suburban Dynaline®</b>			
Gas Unit	16	42	<b>GS</b>
<b>TPI®</b>			
Ra-Matic	16	36	<b>RM</b>
<b>Weil-Mclain</b>			
ClimateMaster Series 700AD	16	36	<b>AD</b>
Climate Master Series 702, 703 & 704	16	36	<b>CM</b>
<b>Westinghouse®</b>			
RB Series	15	38 1/2	<b>RB</b>
<b>Worthington®</b>	16	48	<b>UN</b>
<b>Zoneaire®</b>			
CHP Series	18 5/16	32	<b>CS</b>
CSM Series	18 5/16	32	<b>CS</b>
Zoneaire, RM Series	16	36	<b>RM</b>
Zoneaire, SC Series	16	40	<b>SC</b>
<b>Custom Products</b>			
Vertical Units, Fan Coils, and other related HVAC products. (Consult with Factory)			

*If you don't see the unit you're looking for in the above list, please call us about having a unit custom designed for you.*

**Ask your salesman about our  
DR. EZ Series VH option!\***



\*100% conditioned  
fresh air

**Contact Sales for information  
about our custom-sized  
PTAC/PTHP and Water Source  
Heat Pump Units**



Scan for more information

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Ph: 631-471-2900 • Fax: 631-471-2913



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