



**RETROAIRE™**

Divisions of ECR International, Inc.

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# Commercial Zone-Comfort Solutions





# CONTENTS

	PAGE NO.
<b>E-verter – Variable-Speed Commercial</b>	
<b>Ductless Split Systems</b> . . . . .	2
Air Handlers . . . . .	4-6
Condensers . . . . .	7
<b>13 SEER Fixed Speed Commercial</b>	
<b>Ductless Split Systems</b> . . . . .	8
DX Air Handlers . . . . .	9-11
Condensers . . . . .	12
Chilled Water Air Handlers . . . . .	13-15
<b>RetroAire</b>	
Packaged Terminal Air Conditioners & Heat Pumps . . . . .	16-34
Vertical Packaged Terminal Air Conditioners & Heat Pumps . . . . .	35-42
Water Source Consoles . . . . .	43-46
Selection Guide . . . . .	47-49

*For your Buy American requirements, RetroAire produces in their Utica, NY manufacturing facility, products that comply with "The American Recovery and Reinvestment Act" under the manufactured goods portion of Section 1605, or as COTS (commercially off the shelf items).*





## Variable Speed Ductless Split Systems...

EMI E-verter Ductless Split Systems are an excellent alternative for cooling and heating indoor space when traditional systems are not practical or feasible. Featuring a combination of a variable-speed, load-matching outdoor condenser and one of four indoor air handlers, E-verter Split Systems fit almost anywhere. Using high-efficiency inverter technology, E-verter systems provide precise comfort control to selected spaces at reduced operating cost.

### E-verter Benefits

- Variable speed – load matching
- High efficiency
- 3:1 turn down increases reliability with less cycling
- Quiet operation
- Minimal room temperature swings



*Wired Wall-Mounted or Hand-Held Controller*



## with Inverter Technology

Inverter technology allows the outdoor compressor to continuously adjust its speed to match the indoor zone comfort needs. Air conditioning and heat pump efficiency is improved because the inverter controls compressor output to achieve the set indoor temperature. When demand is high, the compressor speeds up, and when demand is lower, both the speed of the compressor and the speed of the electric meter slow down.

Also, the compressor starts at a low level when demand for air conditioning or heating is needed, avoiding energy spikes generated by conventional systems, and causing less wear and tear on system components.

Once the desired temperature is reached, the inverter compressor lowers its speed to maintain the indoor set temperature rather than shutting off like conventional systems.



## CAHV Series

### Ceiling-Concealed Cassette Air Handler

#### Nominal Capacity

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- Straight Cool & Heat Pump – 8 Unit Variants:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)

#### Features

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- Factory installed condensate pump, includes integral safety switch with 36" (0.9 m) available lift.
- Easily configured for fresh air intake and up to 2 branch air discharge, via duct collar kits.
- Motorized discharge vanes on CAHV18-24.
- Standard Infrared hand-held remote control, or optional OEM Wired Wall Control.
- Selectable filter indicator notifies occupant when unit filter needs cleaning.
- E-boost electric heat options
- Systems Certified by AHRI, to Standard 210/240
- ETL/ETL<sub>c</sub> Listed to UL 1995
- 2009 International Mechanical Code Compliance





## UNHV Series

### Universal Air Handler

Ceiling / Floor Mounted

#### Nominal Capacity

---

- Straight Cool & Heat Pump – 8 Unit Variants:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)

#### Features

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- Multiple drain pans are factory installed,
- Dry mode allows for dehumidification, with minimal change in room temperature.
- Selectable filter indicator notifies when dirty
- Easily configured for fresh air intake.
- Optional metal grille and/or MERV filter available.
- Condensate pump accessory includes integral safety switch with 48" (1.2 m) or 144" (3.6 m) available lift
- Standard Infrared hand-held remote control, or optional OEM Wired Wall Control.
- Systems Certified by AHRI, to Standard 210/240
- ETL/ETL<sub>c</sub> Listed to UL 1995
- 2009 International Mechanical Code Compliance





## WLHV Series

### High Wall Air Handler Wall Mounted

#### Nominal Capacity

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- Straight Cool & Heat Pump – 8 Unit Variants:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)

#### Features

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- Sweep function on louvers provides a wide cooling area.
- Dry mode allows for dehumidification, with minimal change in room temperature.
- Selectable filter indicator notifies occupant when cleaning is required
- Condensate pump accessory includes integral safety switch with 48" (1.2 m) available lift. Internal mount up to 24,000 Btu/h.
- E-boost electric heat options
- Systems Certified by AHRI, to Standard 210/240
- ETL/ETL<sub>c</sub> Listed to UL 1995
- 2009 International Mechanical Code Compliance







## S1CV/S1HV Series

### Single Zone, Variable-Speed Side Discharge Condenser

#### Nominal Capacity

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- Straight Cool & Heat Pump – 8 Unit Variants:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)

#### Features

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- Side discharge cabinet with durable injection molded base and enclosed compressor compartment for quieter operation.
- Environmentally friendly R-410A refrigerant.
- Standard heat pump cooling down to 32°F (0°C) outdoor temperature, and heating down to 0°F (-18°C) outdoor temperature.
- Low ambient accessories available
- 3:1 turn down ration to better maintain constant comfort, with less cycling.
- Single point power connection is standard. (Electric Heat models require Dual Point power connection.)
- Easy access service ports for refrigerant gauges.





## Comfort where it counts...

EMI ductless split systems can provide businesses with economical comfort solutions over conventional ducted systems.

EMI commercial zoning systems meet the latest U.S. and Canadian energy efficiency standards with compact stylish designs that blend in with decor, and quality components for quiet, reliable long-term cooling and heating comfort.

- Zone cooling is cost efficient
- Systems use environmentally friendly R-410a refrigerant
- Easy operation and maintenance
- Zone systems offer flexible application
- Easy installation



## CAC/CAH (G,H,J,K)

### Ceiling-Concealed Cassette Air Handler

#### Nominal Capacity

---

**Cooling:** 9,000-36,000 Btuh (2.6-10.5 kW)

**Heat Pump:** 9,000-24,000 Btuh (2.6-7.0 kW)

#### Features

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- 4 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)
  - 30,000 Btuh (8.8 kW)
  - 36,000 Btuh (10.5 kW)
- Uses environmentally friendly R-410a refrigerant
- 24 volt Interconnect
- Industry Standard 24 volt Wall Thermostat compatible
- Infra-red Remote Control (H & K rev)
- Branch Supply Duct
- Fresh Air Inlet
- Oscillating Supply Louver (all 24 & 36)
- Optional Electric Heat
- Standard Condensate Pump
- Condensate Overflow Protection
- Permanent Washable Filters
- Certified to AHRI Standard 210/240
- ETL/ETL<sub>c</sub> Listed to UL 1995



## UNCG/UNHG

### Universal Air Handler

Ceiling / Floor Mount

#### Nominal Capacity

---

**Cooling:** 9,000-36,000 Btuh (2.6-10.5 kW)

**Heat Pump:** 9,000-24,000 Btuh (2.6-7.0 kW)

#### Features

---

- 4 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)
  - 30,000 Btuh (8.8 kW)
  - 36,000 Btuh (10.5 kW)
- Same unit for both applications – Ceiling Suspended or Floor Console
- Uses environmentally friendly R-410a refrigerant
- 24 VAC Interconnect
- Industry Standard Wall Thermostat compatible
- Infra-red Remote Control
- Fresh Air Inlet
- Optional Electric Heat
- Dehumidification Mode (with optional electric heat)
- Condensate Overflow Protection
- Permanent Washable Filters
- Accessory Internal Condensate Pump
- Certified to AHRI Standard 210/240
- ETL/ETL<sub>c</sub> Listed to UL 1995



## WLCG/WLHG

### High Wall Air Handler

#### Nominal Capacity

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**Cooling:** 9,000-36,000 Btuh (2.6-10.5 kW)

**Heat Pump:** 9,000-24,000 Btuh (2.6-7.0 kW)

#### Features

---

- 4 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)
  - 30,000 Btuh (8.8 kW)
  - 36,000 Btuh (10.5 kW)
- Uses environmentally friendly R-410a refrigerant
- 24 VAC Interconnect
- Industry Standard Wall Thermostat compatible
- Infra-red Remote Control
- Optional Electric Heat
- Dehumidification Mode (with optional electric heat)
- Oscillating Supply Louver
- Condensate Overflow Protection
- Permanent Washable Filters
- Accessory Internal Condensate Pump (WLHG09, WLHG12, WLHG24)
- Certified to AHRI Standard 210/240
- ETL/ETL<sub>c</sub> Listed to UL 1995



## S1CG/S1HG

### Single Zone, Side Discharge Condenser/Heat Pump

#### Nominal Capacity

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- Straight Cool – 6 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)
  - 30,000 Btuh (8.8 kW)
  - 36,000 Btuh (10.5 kW)
- Heat Pump – 4 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)

#### Features

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- Uses environmentally friendly R-410a refrigerant
- 24 volt Interconnect
- Protected Service Valves
- Optional Coil Corrosion Protection (Coated Al/Cu or Cu/Cu Coil)
- Standard Cooling Operation to 60 °F (15 °C) for S1C, 32 °F (0 °C) for S1HG
- Optional Low Ambient Cooling Operation to 0 °F
- Accessory Architectural Louvers (provides Low Ambient Operation, Hail Protection, Anti-vandalism)
- Certified to AHRI Standard 210/240
- ETL/ETL<sub>c</sub> Listed to UL 1995



## CAF

### Chilled Water Cassette Air Handler

#### Nominal Capacity

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**Cooling:** 8,000-36,000 Btuh (2.6-10.5 kW)

**Heating:** 9,000-24,000 Btuh (2.6-7.0 kW)

#### Features

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- 4 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)
  - 30,000 Btuh (8.8 kW)
  - 36,000 Btuh (10.5 kW)
- Uses environmentally friendly R-410a refrigerant
- 24 volt Interconnect
- Industry Standard Wall Thermostat compatible
- Infra-red Remote Control
- Optional Electric Heat
- Dehumidification Mode (with optional electric heat)
- Oscillating Supply Louver
- Condensate Overflow Protection
- Permanent Washable Filters
- Accessory Internal Condensate Pump (WLHG09, WLHG12, WLHG24)
- ETL/ETL<sub>c</sub> Listed to UL 1995



## CCP

### Chilled Water Ceiling Suspended Air Handler

#### Nominal Capacity

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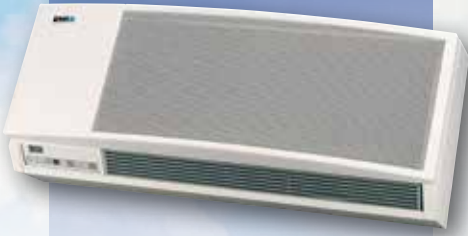
**Cooling:** 9,000-36,000 Btuh (2.6-10.5 kW)  
**Heat Pump:** 9,000-24,000 Btuh (2.6-7.0 kW)

#### Features

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- Straight Cool – 6 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)
  - 30,000 Btuh (8.8 kW)
  - 36,000 Btuh (10.5 kW)
- Heat Pump – 4 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)
- Uses environmentally friendly R-410a refrigerant
- 24 volt Interconnect
- Protected Service Valves
- Optional Coil Corrosion Protection (Coated Al/Cu or Cu/Cu Coil)
- Standard Cooling Operation to 60°F (15°C) for S1C, 32°F (0°C) for S1HG
- Optional Low Ambient Cooling Operation to 0°F
- Accessory Architectural Louvers (provides Low Ambient Operation, Hail Protection, Anti-vandalism)
- ETL/ETL<sub>c</sub> Listed to UL 1995





## WCP

### Chilled Water High Wall Air Handler

#### Nominal Capacity

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**Cooling:** 8,000-36,000 Btuh (2.6-10.5 kW)

**Heating:** 9,000-24,000 Btuh (2.6-7.0 kW)

#### Features

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- 4 Units Cover:
  - 9,000 Btuh (2.6 kW)
  - 12,000 Btuh (3.5 kW)
  - 18,000 Btuh (5.2 kW)
  - 24,000 Btuh (7.0 kW)
  - 30,000 Btuh (8.8 kW)
  - 36,000 Btuh (10.5 kW)
- Uses environmentally friendly R-410a refrigerant
- 24 volt Interconnect
- Industry Standard Wall Thermostat compatible
- Infra-red Remote Control
- Optional Electric Heat
- Dehumidification Mode (with optional electric heat)
- Oscillating Supply Louver
- Condensate Overflow Protection
- Permanent Washable Filters
- Accessory Internal Condensate Pump (WLHG09, WLHG12, WLHG24)
- ETL/ETL<sub>c</sub> Listed to UL 1995

# RETROAIRE™



## The right fit for comfort...

RetroAire provides quality “Thru-The-Wall” PTAC’s and PTHP’s air conditioners and heat pumps for replacement, and SPVU’s for renovation and new construction applications. RetroAire products are ideal for hotels, motels, healthcare, commercial, residential, and institutional facilities. With over 75 standard units available to replace 50+ original models, RetroAire offers quiet, efficient and economical alternatives for all your air conditioning project requirements.

RetroAire products are designed, tested, and assembled to ensure that you get the very best in commercial heating and cooling comfort, and value. Each one meets or exceeds all recognized safety, performance efficiency standards.

RetroAire warranties are among the strongest in the industry.

Basic Model Groups:

PTAC – Packaged Terminal Air Conditioner

PTHP – Packaged Terminal Heat Pump

SPVU – Single Packaged Vertical Unit



## R-410a PTAC/PTHP

### Packaged Terminal Air Conditioners and Heat Pumps (Air Source)

#### Nominal Capacity

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**Cooling:** 9,000-18,000 Btuh (2.6-5.3 kW)

**Heat Pump:** 9,000-15,000 Btuh (2.6-4.4 kW)

#### Features

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- Designed to fit into existing wall sleeves for easy replacement
- Energy Efficiency Ratios, as high as 9.5, offer considerable energy savings
- Uses environmentally friendly R-410a refrigerant
- Heavy gauge galvanized steel cabinets – G90U corrosion rating
- Quiet, low speed evaporator (indoor) blowers; two speed on most models
- All heat exchanger coils (condenser and evaporator) have high efficiency rifled-tubes
- Condenser (outdoor) fan remains off when unit is in electric heat or vent mode, for energy savings
- Positive condensate re-evaporation
- Corrosion inhibiting, powder coated condenser pan, accessible for cleaning through removable covers
- Preset switch for cycling or continuous operation of evaporator fan

# R10C/H PTAC/PTHP

Packaged Terminal Air Conditioners and Heat Pumps

## Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,200	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	8,500	11,700	14,000	N/A
<b>Efficiency</b> (COP)	(2.9)	(2.6)	(2.52)	N/A

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	34 1/2"	14 1/4"	18 7/8"

## Features

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (09 & 12)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI Standard 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

## Replaces

- Adirondack Aire 16 & 45
- American Air Filter 16 & ENR
- AAF/American Standard 45
- Carteret 45
- Comitale CAF16 & CAF45
- Iceair RS16
- Islandaire EZ16 & EZ45
- McQuay/Remington Type 45, PNES, PNHS
- NelsonAire 16 & 45
- Simon-Aire SS16 & SS45
- Singer/ Snyder General 45

# R11C PTAC

Packaged Terminal Air Conditioners

## Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,000	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	N/A			
<b>Efficiency</b> (EER/COP)	N/A			

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	34 <sup>7</sup> / <sub>16</sub> "	13 <sup>15</sup> / <sub>16</sub> "	18 <sup>5</sup> / <sub>8</sub> "

## Features

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (09 & 12)
- 265/277V (12 & 15)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI Standard 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

## Replaces

- Comitale CWRB0
- Islandaire EZ RB
- Westinghouse RB

# R15C PTAC

Packaged Terminal Air Conditioners

## Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,000	11,800	14,500	16,300
<b>Efficiency</b> (EER)	(9.2)	(8.34)	(8.0)	(8.0)
<b>Heat Pump</b> (Btuh)	N/A			
<b>Efficiency</b> (EER/COP)	N/A			

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	35"	18 1/4"	15 3/4"

## Features

- R-410a Refrigerant
- Modular Chassis Design
- 208/230V all sizes
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

## Replaces

- Adirondack Aire Series 25
- Adirondack Aire Series 41
- American Air Filter 25
- AAF/American Standard 41
- Comitale National Inc. Type CAF250
- Comitale National Inc. Type CA410
- Ice Aire RS41
- Ice Cap RS41
- Islandaire EZ Series 41
- Nelson Aire 25
- McQuay/Remington 41
- Singer/Snyder General 41

**R20C/H PTAC/PTHP**

Packaged Terminal Air Conditioners and Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,200	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	8,500	11,700	14,000	N/A
<b>Efficiency</b> (COP)	(2.9)	(2.6)	(2.52)	N/A
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	35 15/16"	14 13/16"	18 1/8"	

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (09 & 12)
- 265V (12 & 15)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Adirondack Aire Series RM
- Applied Comfort SCEA
- Applied Comfort SCHA
- Climate Master 703
- Climate Master 704
- Comitale National Inc. Type CTPI
- Cool Heat RM
- Ice Air RSZ
- Ice Cap RSZ
- IslandAire EZ Series CM
- IslandAire EZ Series RM
- Simon-Aire Model SSZ
- TPI Ra-Matic
- Weather Twin RM
- Weather Twin S
- Weather Twin SC
- Zoneaire RM
- Zoneaire S
- Zoneaire SC

## R21C PTAC

Packaged Terminal Air Conditioners

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,000	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	N/A			
<b>Efficiency</b> (EER/COP)	N/A			

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b> (9k–15k)	35 15/16"	16 1/2"	20 1/4"
<b>Dimensions</b> (18,000)	35 15/16"	16 1/2"	25 1/4"

### Features

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

### Replaces

- Climate Master 701
- Islandaire EZ Series C7



**R22C/H PTAC/PTHP**

Packaged Terminal Air Conditioners and Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,200	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	9,000	12,000	15,000	N/A
<b>Efficiency</b> (COP)	(2.90)	(2.60)	(2.52)	N/A
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	37 7/8"	14 15/16"	19 3/32"	

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 265V (12 & 15)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Adirondack Aire Series RK
- Ice Air RSK
- Ice Cap RSK
- IslandAire EZ Series RK
- Simon-Aire Model SSK

**R23C/H PTAC/PTHP**

Packaged Terminal Air Conditioners

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,200	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	9,000	12,000	15,000	N/A
<b>Efficiency</b> (COP)	(2.90)	(2.60)	(2.52)	N/A
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	42 1/4"	14 1/2"	19 1/4"	

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Ice Air RSK

**R24C/H PTAC/PTHP**

Packaged Terminal Air Conditioners and Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,200	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	9,000	12,000	15,000	N/A
<b>Efficiency</b> (COP)	(2.90)	(2.60)	(2.52)	N/A
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	40"	15"	19 1/4"	

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Ice Air RSCT
- Ice Cap RSCT
- Islandaire EZ Series RT
- McQuay RSCT
- McQuay PDNS

**R25C/H PTAC/PTHP**

Packaged Terminal Air Conditioners and Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,000	12,000	13,600
<b>Efficiency</b> (EER)	(9.2)	(8.7)	(7.9)
<b>Heat Pump</b> (Btuh)	8,100	11,600	13,500
<b>Efficiency</b> (COP)	(2.92)	(2.79)	(2.51)

	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>
<b>Dimensions</b>	27 3/8"	19 3/32"	18 3/4"

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Climate Master ET
- Friedrich ET

**R30C/H PTAC/PTHP**

Packaged Terminal Air Conditioners and Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,000	11,200	13,500
<b>Efficiency</b> (EER)	(9.0)	(8.4)	(7.75)
<b>Heat Pump</b> (Btuh)	8,300	11,000	13,500
<b>Efficiency</b> (EER/COP)	(2.67)	(2.60)	(2.51)
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>
<b>Dimensions</b>	30 3/4"	17 1/8"	22"

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Adirondack Aire Series ZCR
- Applied Comfort CSMB
- Applied Comfort DMQ
- Carrier 51P
- Carrier 51PH
- Ice Cap RSC
- Islandaire EZ Series CS
- Keeprite C
- Keeprite CHP
- Zoneaire C
- Zoneaire RM

# R35C/H PTAC/PTHP

Packaged Terminal Air Conditioners and Heat Pumps

## Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,200	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	8,500	11,700	14,000	N/A
<b>Efficiency</b> (COP)	(2.9)	(2.6)	(2.52)	N/A
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	43 5/8"	15"	18 1/4"	

## Features

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- 265V (9,12, 15)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

## Replaces

- Adirondack Aire Series EA
- Comitale Type CEAF/CEAL/CEAR/CRS
- Ice Air RSEA
- Ice Cap RSEA
- Islandaire EZ Series ED
- McQuay/Remington/Singer EA
- McQuay/Remington ES
- McQuay/Remington MQA/MQT
- McQuay PDAE/PDHE/PMES/PMRS
- McQuay/Remington/Singer RS
- Simon-Aire Model SSEA

## R40C PTAC

Packaged Terminal Air Conditioners

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,000	12,000	13,500
<b>Efficiency</b> (EER)	(9.3)	(8.4)	(7.8)
<b>Heat Pump</b> (Btuh)	N/A		
<b>Efficiency</b> (EER/COP)	N/A		

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	26 1/2"	15 1/2"	21 1/32"

### Features

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI Standard 310/380
- ETL/ETL<sub>C</sub> listed to UL 484

### Replaces

- Adirondack Aire Series MX
- Fedders CMEA
- Ice Air RSF
- Islandaire EZ Series MX
- Simon-Aire Model SSMX

# R45C/H PTAC/PTHP

Packaged Terminal Air Conditioners and Heat Pumps

## Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,200	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	8,500	11,700	14,000	N/A
<b>Efficiency</b> (COP)	(2.9)	(2.6)	(2.52)	N/A
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	34 1/2"	14 1/8"	18 5/8"	

## Features

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- 265V (12 & 15)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI Standard 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

## Replaces

- American Standard 40
- Ice Cap 40
- Islandaire EZ Series 40



## R50C PTAC

Packaged Terminal Air Conditioners

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,000	12,000	14,500	16,300
<b>Efficiency</b> (EER)	(9.0)	(8.4)	(8.0)	(8.0)
<b>Heat Pump</b> (Btuh)	N/A			
<b>Efficiency</b> (EER/COP)	N/A			

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	41 <sup>5</sup> / <sub>16</sub> "	13 <sup>17</sup> / <sub>32</sub> "	13 <sup>5</sup> / <sub>16</sub> "

### Features

- R-410a Refrigerant
- Modular Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 3kW
- Hydronic Heat Option
- Tested in accordance with AHRI Standard 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

### Replaces

- Comitale National Inc. Type CNIII0
- Islandaire EZ Series N3

# R60C/H PTAC/PTHP

Packaged Terminal Air Conditioners and Heat Pumps

## Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,000	12,000	14,500	16,000
<b>Efficiency</b> (EER)	(9.0)	(8.7)	(8.2)	(8.2)
<b>Heat Pump</b> (Btuh)	8,100	11,000	14,000	N/A
<b>Efficiency</b> (COP)	(2.90)	(2.70)	(2.65)	N/A
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	35"	23 9/16"	15 7/8"	

## Features

- R-410a Refrigerant
- Modular Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- 265V (12 & 15)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 3, 4, 5kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI Standard 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

## Replaces

- Adirondack Aire Series EK
- Comitale National Inc. Type CRKO
- Ice Air RSK/K
- Islandaire EZ Series KF
- McQuay/Remington EK
- McQuay/Remington K
- Singer/Snyder General EK
- Singer/Snyder General K

## R65C PTAC

Packaged Terminal Air Conditioners

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,000	12,000
<b>Efficiency</b> (EER)	(9.0)	(8.34)
<b>Heat Pump</b> (Btuh)	N/A	
<b>Efficiency</b> (EER/COP)	N/A	

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	28 3/8"	13"	21 1/8"

### Features

- R-410a Refrigerant
- Modular Chassis Design
- 208/230V all sizes
- 115V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 3, 4kW
- Hydronic Heat Option
- Tested in accordance with AHRI Standard 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

### Replaces

- Comitale National Inc. Type CRJO
- Islandaire EZ Series JA
- McQuay EJ
- McQuay J
- McQuay PMEJ
- McQuay PMEJ
- Remington EJ
- Remington J
- Singer EJ

**R90C/H PTAC/PTHP**

Packaged Terminal Air Conditioners and Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,200	12,000	14,700	16,500
<b>Efficiency</b> (EER)	(9.5)	(8.8)	(8.3)	(8.3)
<b>Heat Pump</b> (Btuh)	8,500	11,700	14,000	
<b>Efficiency</b> (COP)	(2.9)	(2.6)	(2.52)	
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	35 <sup>13</sup> / <sub>16</sub> "	14 <sup>3</sup> / <sub>4</sub> "	17 <sup>15</sup> / <sub>16</sub> "	

**Features**

- R-410a Refrigerant
- Modular Chassis Design
- 208/230V all sizes
- 115V (9 & 12)
- 265V (12 - 18)
- Unit Mount or Remote Thermostat
- Electric Heat Options: 3, 4kW
- Hydronic Heat Option
- Fresh Air Option
- Tested in accordance with AHRI Standard 310/380
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Climate Master 700
- Climate Master AD
- Friedrich 700
- Friedrich AD
- Ice Cap RSCM
- Islandaire EZ Series AD
- Simon-Aire Model SSCM



## VPRC/VPRH

### Vertical Packaged Terminal Air Conditioners and Heat pumps

#### Nominal Capacity

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**Cooling:** 9,000-35,600 Btuh (2.8-10.4 kW)

**Heat Pump:** 9,000-36,000 Btuh (2.8-10.5 kW)

#### Features

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- Uses environmentally friendly R-410aA refrigerant
- Low voltage connection
- All 208/230V models supplied with a line cord with proper plug to match outlet servicing the unit (265 V are hard wired)
- Fresh air manual dampers allow for the introduction of fresh air into a room
- Slinger Ring For Positive Condensate Re-evaporation
- Wall Sleeve and anodized aluminum Condenser Louver
- Each VPAC is equipped for a 24V wall thermostat connection. A plug connection is located at the control box location (right, left or front mount)
- Diagnostic Control Codes allow for quick startup and troubleshooting
- ETL/ETL<sub>c</sub> Listed to UL 484
- AHRI Certification to Standard 390
- Suitable for New Construction/Replacement

## VPRC09/VPRH09

Vertical Packaged Terminal  
Air Conditioners and Heat Pumps

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	9,000
<b>Efficiency</b> (EER)	(9.0)
<b>Heat Pump</b> (Btuh)	9,000
<b>Efficiency</b> (COP)	(3.0)

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	25"	40"	21 <sup>7</sup> / <sub>16</sub> "

### Features

- R-410a Refrigerant
- Single Chassis Design
- Custom Wall Sleeve
- 208/230V all models
- 265V all models
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Suitable for New Construction/Replacement
- Certified to AHRI Standard 390
- ETL/ETL<sub>c</sub> listed to UL 484

### Replaces

- Carrier 50ET
- Carrier 50QT
- First Company DPU
- RetroAire RC/RH71
- RetroAire VPAC/VPHP
- RetroAire VRAC/VRHP
- Singer VI
- US A/C Products DIU

## VPRC12/VPRH12

Vertical Packaged Terminal  
Air Conditioners and Heat Pumps

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	12,000
<b>Efficiency</b> (EER)	(9.0)
<b>Heat Pump</b> (Btuh)	11,400
<b>Efficiency</b> (COP)	(3.0)

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	25"	40"	21 <sup>7</sup> / <sub>16</sub> "

### Features

- R-410a Refrigerant
- Single Chassis Design
- Custom Wall Sleeve
- 208/230V all models
- 265V all models
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Suitable for New Construction/Replacement
- Certified to AHRI Standard 390
- ETL/ETL<sub>c</sub> listed to UL 484

### Replaces

- Carrier 50ET
- Carrier 50QT
- First Company DPU
- RetroAire RC/RH71
- RetroAire VPAC/VPHP
- RetroAire VRAC/VRHP
- Singer VI
- US A/C Products DIU

## VPRC18/VPRH18

Vertical Packaged Terminal  
Air Conditioners and Heat Pumps

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	17,200
<b>Efficiency</b> (EER)	(9.0)
<b>Heat Pump</b> (Btuh)	16,200
<b>Efficiency</b> (COP)	(3.0)

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	25"	40"	21 <sup>7</sup> / <sub>16</sub> "

### Features

- R-410a Refrigerant
- Single Chassis Design
- Custom Wall Sleeve
- 208/230V all models
- 265V all models
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Suitable for New Construction/Replacement
- Certified to AHRI Standard 390
- ETL/ETL<sub>c</sub> listed to UL 484

### Replaces

- Carrier 50ET
- RetroAire RC/RH71
- RetroAire VPAC/VPHP
- RetroAire VRAC/VRHP
- Singer VI



## VPRC19/VPRH19

Vertical Packaged Terminal  
Air Conditioners and Heat Pumps

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	18,400
<b>Efficiency</b> (EER)	(9.0)
<b>Heat Pump</b> (Btuh)	16,400
<b>Efficiency</b> (COP)	(3.0)

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	25"	50"	26 <sup>7</sup> / <sub>16</sub> "

### Features

- R-410a Refrigerant
- Single Chassis Design
- Custom Wall Sleeve
- 208/230V all models
- 265V all models
- Unit Mount or Remote Thermostat
- Electric Heat Options: 3, 4, 5, 7, 10kW
- Hydronic Heat Option
- Suitable for New Construction/Replacement
- Certified to AHRI Standard 390
- ETL/ETL<sub>c</sub> listed to UL 484

### Replaces

- RetroAire VPAC/VPHP

## VPRC24/VPRH24

Vertical Packaged Terminal  
Air Conditioners and Heat Pumps

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	23,200
<b>Efficiency</b> (EER)	(9.0)
<b>Heat Pump</b> (Btuh)	21,600
<b>Efficiency</b> (COP)	(3.0)

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	25"	50"	26 <sup>7</sup> / <sub>16</sub> "

### Features

- R-410a Refrigerant
- Single Chassis Design
- Custom Wall Sleeve
- 208/230V all models
- 265V all models
- Unit Mount or Remote Thermostat
- Electric Heat Options: 3, 4, 5, 7, 10kW
- Hydronic Heat Option
- Suitable for New Construction/Replacement
- Certified to AHRI Standard 390
- ETL/ETL<sub>c</sub> listed to UL 484

### Replaces

- RetroAire VPAC/VPHP

## VPRC30/VPRH30

Vertical Packaged Terminal  
Air Conditioners and Heat Pumps

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	31,600
<b>Efficiency</b> (EER)	(9.0)
<b>Heat Pump</b> (Btuh)	32,000
<b>Efficiency</b> (COP)	(3.0)

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	28"	56"	28"

### Features

- R-410a Refrigerant
- Single Chassis Design
- Custom Wall Sleeve
- 208/230V all models
- 265V all models
- Unit Mount or Remote Thermostat
- Electric Heat Options: 5, 7, 10kW
- Suitable for New Construction/Replacement
- Certified to AHRI Standard 390
- ETL/ETL<sub>c</sub> listed to UL 1995

### Replaces

- Armstrong Magic Pak
- RetroAire VPAC/VPHP

## VPRC36/VPRH36

Vertical Packaged Terminal  
Air Conditioners and Heat Pumps

### Nominal Capacity & Efficiency

<b>Air Conditioner</b> (Btuh)	35,600
<b>Efficiency</b> (EER)	(9.0)
<b>Heat Pump</b> (Btuh)	36,000
<b>Efficiency</b> (COP)	(3.0)

	WIDTH	HEIGHT	DEPTH
<b>Dimensions</b>	28"	56"	28"

### Features

- R-410a Refrigerant
- Single Chassis Design
- Custom Wall Sleeve
- 208/230V all models
- 265V all models
- Unit Mount or Remote Thermostat
- Electric Heat Options: 5, 7, 10, 15kW
- Certified to AHRI Standard 390
- ETL/ETL<sub>c</sub> listed to UL 1995

### Replaces

- Armstrong Magic Pak
- RetroAire VPAC/VPHP



## CMH / CWC / CWH / WMH

### Water Source Consoles for Replacement or New Construction

#### Nominal Capacity

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**Cooling:** 9,300-16,500 Btuh (2.7-4.8 kW)

**Heat Pump:** 9,300-10,800 Btuh (2.7-6.1 kW)

#### Features

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- Straight cool or heat pump with electric or hydronic heat for water loop applications
- Uses environmentally friendly R-410a refrigerant
- Multiple hydronic piping connection and control box location options ensure easy installation
- 24 volt controls allow for easy adaptation to Building Management Systems
- Condenser coil is copper inner tube with steel outer tube design. Refrigerant flow is through the copper inner tube and heat is exchanged with a counter flow of water through the outer shell.
- High Efficiency Rotary Compressor with 5 year warranty

**CMH**

## High Efficiency Water Source Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,300	13,000	15,000
<b>Efficiency</b> (EER)	(11.3)	(11.5)	(11.3)
<b>Heat Pump</b> (Btuh)	11,200	13,500	15,600
<b>Efficiency</b> (COP)	(4.0)	(3.9)	(3.5)

	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>
<b>Dimensions</b>	41 <sup>5</sup> / <sub>32</sub> "	19 <sup>3</sup> / <sub>4</sub> "	12 <sup>9</sup> / <sub>16</sub> "

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (08 & 12)
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Tested in accordance with AHRI/ISO 13256-1
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Climate Master 801 series
- Friedrich 801 series

**CWC/H**

## High Efficiency Water Source Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,300	12,200	13,000	16,500
<b>Efficiency</b> (EER)	(11.3)	(11.1)	(11.5)	(12.2)
<b>Heat Pump</b> (Btuh)	11,200	13,500	15,600	20,800
<b>Efficiency</b> (COP)	(4.0)	(3.6)	(3.9)	(3.8)
	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>	
<b>Dimensions</b>	34 <sup>2</sup> / <sub>32</sub> "	18 <sup>5</sup> / <sub>8</sub> "	9 <sup>5</sup> / <sub>8</sub> "	

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (08-13)
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Tested in accordance with AHRI/ISO 13256-1
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Climate Master WC
- Climate Master 800 Series
- Friedrich WC
- Friedrich 800 Series

**WMH**

## High Efficiency Water Source Heat Pumps

**Nominal Capacity & Efficiency**

<b>Air Conditioner</b> (Btuh)	9,300	13,000	15,000
<b>Efficiency</b> (EER)	(11.3)	(11.5)	(11.3)
<b>Heat Pump</b> (Btuh)	11,200	15,600	18,300
<b>Efficiency</b> (COP)	(4.0)	(3.9)	(3.5)

	<b>WIDTH</b>	<b>HEIGHT</b>	<b>DEPTH</b>
<b>Dimensions</b>	37 13/16"	26 1/4"	10 1/8"

**Features**

- R-410a Refrigerant
- Single Chassis Design
- 208/230V all sizes
- 115V (08 & 12)
- 265V all sizes
- Unit Mount or Remote Thermostat
- Electric Heat Options: 2, 3, 4, 5kW
- Hydronic Heat Option
- Tested in accordance with AHRI/ISO 13256-1
- ETL/ETL<sub>c</sub> listed to UL 484

**Replaces**

- Climate Control WM Series
- McQuay WM Series
- Singer WM Series



# PTAC, VPAC and Water Source Replacement Selection Index

ORIGINAL BRAND / MODEL	PAGE NO.	ORIGINAL BRAND / MODEL	PAGE NO.
Adirondack Aire Series 16	18	Comitale National Inc. Type CAF16	18
Adirondack Aire Series 25	20	Comitale National Inc. Type CAF250	20
Adirondack Aire Series 41	20	Comitale National Inc. Type CA410	20
Adirondack Aire Series 45	18	Comitale National Inc. Type CA45	18
Adirondack Aire Series EA	28	Comitale National Inc. Type CEAF	28
Adirondack Aire Series EK	32	Comitale National Inc. Type CEAL	28
Adirondack Aire Series MX	29	Comitale National Inc. Type CEAR	28
Adirondack Aire Series RK	23	Comitale National Inc. Type CNIII0	31
Adirondack Aire Series RM	21	Comitale National Inc. Type CRJO	33
Airdondack Aire Series ZCR	27	Comitale National Inc. Type CRKO	32
		Comitale National Inc. Type CRS	28
Applied Comfort CSMB	27	Comitale National Inc. Type CTPI	21
Applied Comfort DMQ	27	Comitale National Inc. Type CWRBO	19
Applied Comfort SCEA	21		
Applied Comfort SCHA	21	Cool Heat RM	21
Amana Curtain Unit	<i>Contact Factory</i>	Emerson 8T	<i>Contact Factory</i>
American Air Filter 16	18	Fedders CMEA	29
American Air Filter 25	20		
American Air Filter ENR	18	First Company DPU	36, 37
American Standard 40	30	Friedrich 700	34
American Standard 41	20	Friedrich 800	45
American Standard 45	18	Friedrich 801	44
		Friedrich AD	34
Armstrong Magic Pak	41, 42	Friedrich ET	26
		Friedrich WC	45
Carrier 50ET	36-38		
Carrier 50QT	36, 37	Ice Air RS16	18
Carrier 51P	27	Ice Air RS41	20
Carrier 51PH	27	Ice Air RSCT	25
		Ice Air RSEA	28
		Ice Air RSF	29
Carteret 45	18	Ice Air RSK	23
		Ice Air RSK	24
Climate Control WM	46	Ice Air RSK/K	32
		Ice Air RSZ	21
Climate Master 700	34		
Climate Master 701	22	Ice Cap 40	30
Climate Master 703	21	Ice Cap RS41	20
Climate Master 704	21	Ice Cap RSC	27
Climate Master 800	45	Ice Cap RSCM	34
Climate Master 801	44	Ice Cap RSCT	25
Climate Master AD	34	Ice Cap RSEA	28
Climate Master ET	26	Ice Cap RSK	23
Climate Master WC	45		

*Continues next page*

# PTAC, VPAC and Water Source Replacement Selection Index

ORIGINAL BRAND / MODEL	PAGE NO.	ORIGINAL BRAND / MODEL	PAGE NO.
Ice Cap RSZ	21	Nelson Aire 16	18
		Nelson Aire 25	20
Islandaire EZ Series 16	18	Nelson Aire 45	18
Islandaire EZ Series 40	30		
Islandaire EZ Series 41	20	Remington 41	20
Islandaire EZ Series 45	18	Remington 45	18
Islandaire EZ Series AD	34	Remington EA	29
Islandaire EZ Series C7	22	Remington EB	Contact Factory
Islandaire EZ Series CM	21	Remington EJ	33
Islandaire EZ Series CS	27	Remington EK	32
Islandaire EZ Series EB	Contact Factory	Remington ES	28
Islandaire EZ Series ED	28	Remington J	33
Islandaire EZ Series JA	33	Remington K	32
Islandaire EZ Series KF	32	Remington MQA	28
Islandaire EZ Series MX	29	Remington MQT	28
Islandaire EZ Series N3	31	Remington RS	28
Islandaire EZ Series RB	19		
Islandaire EZ Series RK	23	RetroAire CMH	44
Islandaire EZ Series RM	21	RetroAire CWC/CWH	45
Islandaire EZ Series RT	25	RetroAire RC/RH10	18
		RetroAire RC/RH11	19
Keeprite C	27	RetroAire RC15	20
Keeprite CHP	27	RetroAire RC/RH20	21
		RetroAire RC21	22
McQuay 45	18	RetroAire RC/RH22	23
McQuay EA	28	RetroAire RC23	24
McQuay EJ	33	RetroAire RC/RH24	25
McQuay EK	32	RetroAire RC/RH25	26
McQuay ES	28	RetroAire RC/RH30	27
McQuay J	33	RetroAire RC/RH35	28
McQuay K	32	RetroAire RC40	29
McQuay MQA	28	RetroAire RC/RH45	30
McQuay MQT	28	RetroAire RC50	31
McQuay PDAE	28	RetroAire RC/RH55	Contact Factory
McQuay PDHE	28	RetroAire RC/RH60	32
McQuay PDNS	25	RetroAire RC65	33
McQuay PMEH	33	RetroAire RC/RH71	36-38
McQuay PMEJ	33	RetroAire RC/RH90	34
McQuay PMES	28	RetroAire VPAC/VPHP	36-42
McQuay PMRS	28	RetroAire VRAC/VRHP	36-38
McQuay PNES	18	RetroAire WMH	46
McQuay PNHS	18		
McQuay RS	28	Sears 8T	Contact Factory
McQuay RSCT	25		
McQuay WM	46	Simon-Aire SS16	18
		Simon-Aire SS45	18

Continues next page

# PTAC, VPAC and Water Source Replacement Selection Index

ORIGINAL BRAND / MODEL	PAGE NO.	ORIGINAL BRAND / MODEL	PAGE NO.
Simon-Aire Model SSCM	34	TPI Ra-Matic	21
Simon-Aire Model SSEA	28		
Simon-Aire Model SSK	23	US A/C Products DIU	36, 37
Simon-Aire Model SSMX	29		
Simon-Aire Model SSZ	21	Weather Twin RM	21
		Weather Twin S	21
Singer 41	20	Weather Twin SC	21
Singer 45	18		
Singer EA	28	Westinghouse RB	19
Singer EJ	33		
Singer EK	32	Zoneaire C	27
Singer K	32	Zoneaire RM	21
Singer RS	28	Zoneaire RM	27
Singer VI	36-38	Zoneaire S	21
Singer WM	45	Zoneaire SC	21
Snyder General 41	20	<i>Custom Applications - Consult Factory</i>	
Snyder General 44	18		
Snyder General K	32		



## Commercial Ductless Split-System Air Conditioners & Heat Pumps

2201 Dwyer Avenue, Utica, NY 13501  
Ph: 800-325-5479 • Fax: 866-432-7329  
E-Mail: [EMI@Enviromaster.com](mailto:EMI@Enviromaster.com)  
Web: [www.Enviromaster.com](http://www.Enviromaster.com)



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# RETROAIRE™

## Vertical and Replacement Packaged Terminal Air Conditioners & Heat Pumps

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Web: [www.RetroAire.com](http://www.RetroAire.com)

