



# ARCTIC

## HEAT PUMPS

### R32 Air-to-Water Heat Pump

3 MODELS:

035ZA/BE-R32  
-30000 BTU-

050ZA/BE-R32  
-48000 BTU-

060ZA/BE-R32  
-60000 BTU-

- FEATURES:**
- Panasonic EVI (Enhanced Vapor Injection) DC variable speed compressor
  - Ability to operate as low as -22 °F (-30 °C)
  - Multi-heat pump staging
  - R32 refrigerant
  - Reversible operation for heating and chilling
  - Automatic integration of backup/emergency heat
  - Intelligent defrost based on ambient temperature
  - Ultra-quiet DC motor fans
  - Bluefin technology - Evaporator and condenser fins epoxy coated for a high degree of corrosion resistance
  - Wi-Fi enabled for full remote control and adjustability



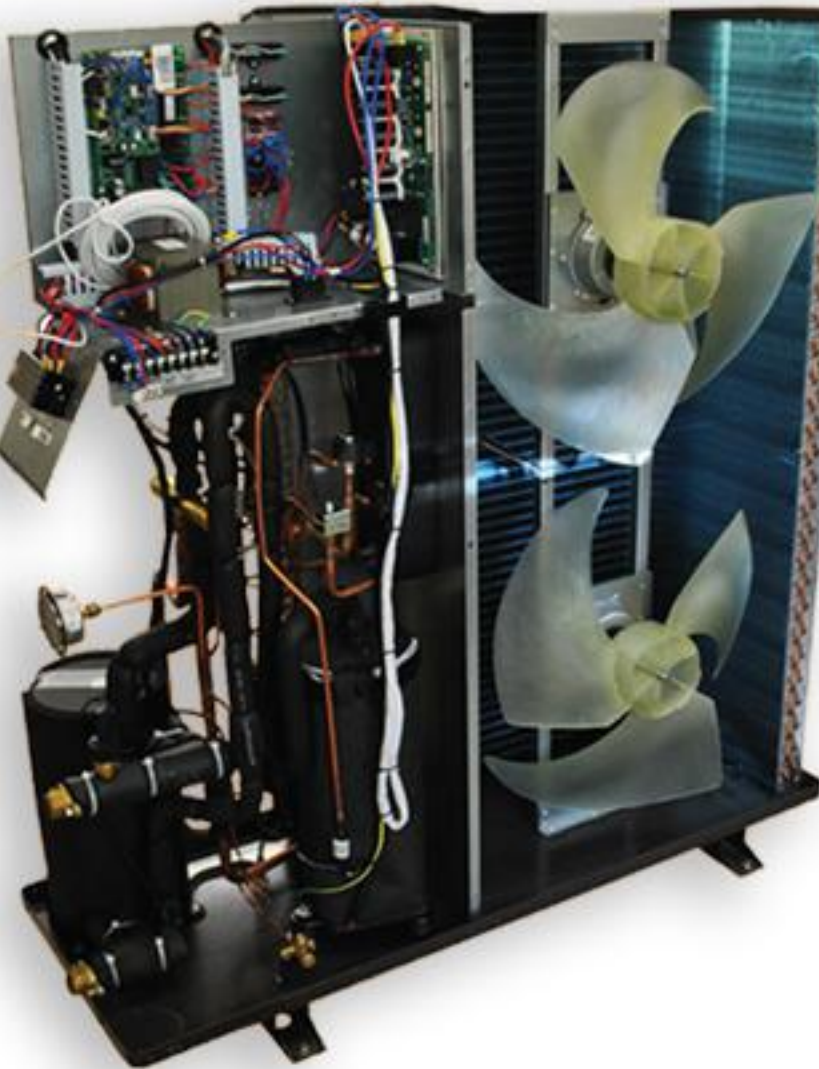
Arctic EVI air to water heat pumps are efficient and reliable hydronic heating and cooling devices specifically designed for North America. They are industry leading in their ability to produce high BTU output and maintain a high COP rating in cold outdoor temperatures. Our heat pumps combine advanced technologies that make them the most efficient, reliable, and quietest air to water heat pumps available.



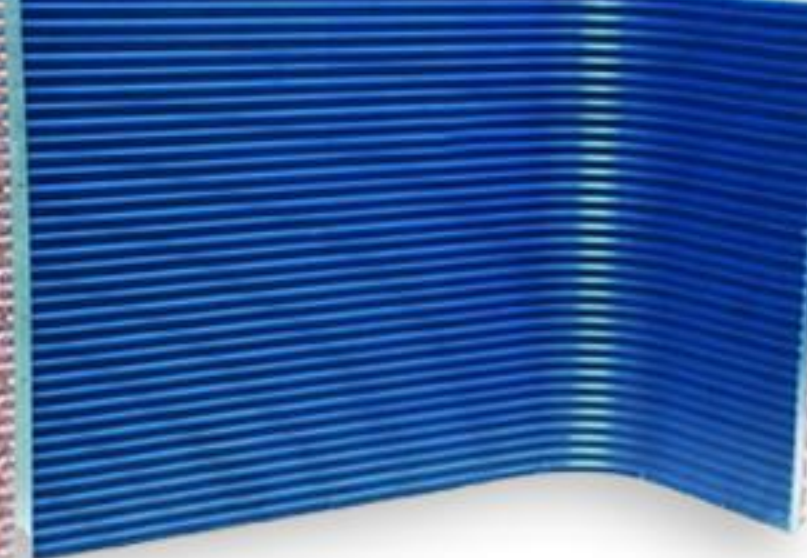
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Winnipeg, Canada



Mono-Block Design



Bluefin Technology



Intelligent Controller



| Model                                  |                | 035ZA/BE-R32      | 050ZA/BE-R32      | 060ZA/BE-R32      |
|--|----------------|-------------------|-------------------|-------------------|
| Power Supply                           | V/P/Hz         | 220-240V 1/60     |                   |                   |
| Maximum Water Temperature (Heating)    | °C/°F          | 50 / 122          |                   |                   |
| Minimum Water Temperature (Cooling)    | °C/°F          | 5 / 41            |                   |                   |
| Ambient Temp Low Limit                 | °C/°F          | -35 / -31         |                   |                   |
| Ambient Temp High Limit                | °C/°F          | 43 / 109          |                   |                   |
| Rated Heating Capacity                 | KW/BTU         | 10 / 34121        | 15 / 51182        | 18 / 61418        |
| Heating Power Input                    | KW             | 2.7               | 4.05              | 4.86              |
| Heating Current Input                  | A              | 11.7              | 17.6              | 21.1              |
| COP                                    | COP            | 3.7               | 3.7               | 3.7               |
| Rated Heating Capacity                 | KW/BTU         | 7 / 23884         | 11 / 37533        | 13 / 44357        |
| Heating Power Input                    | KW             | 2.5               | 3.93              | 4.64              |
| Heating Current Input                  | A              | 10.9              | 17.1              | 20.2              |
| COP                                    | COP            | 2.8               | 2.8               | 2.8               |
| Rated Heating Capacity                 | KW/BTU         | 6 / 20472         | 10 / 34121        | 12 / 40945        |
| Heating Power Input                    | KW             | 2.95              | 5.13              | 6.32              |
| Heating Current Input                  | A              | 13                | 21.6              | 26.5              |
| COP                                    | COP            | 2                 | 1.9               | 1.9               |
| Rated Cooling Capacity                 | KW/BTU         | 71 / 24226        | 10.5 / 35827      | 12.2 / 41628      |
| Cooling Power Input                    | KW             | 3.2               | 4.16              | 4.97              |
| Heating Current Input                  | A              | 13.9              | 18.1              | 21.6              |
| COP                                    | COP            | 2.2               | 2.5               | 2.5               |
| Total Load                             | AMPS           | 23.1              | 34.1              | 36.7              |
| Breaker Sizing                         | AMPS           | 30                | 45                | 50                |
| Nominal Water Flow Volume              | GPM/m3/h       | 7.57 / 1.72       | 11.36 / 2.58      | 13.65 / 3.1       |
| Water Side Pressure Drop               | Ft of Head/kPa | 13.39 / 40        | 16.73 / 50        | 26.77 / 80        |
| Water Inlet/Outlet (Extrernal Threads) | Inch           | 1"                |                   |                   |
| Compressor                             | Type           | Twin-Rotary       |                   |                   |
|  | Speed Range    | 30-100            |                   |                   |
|  | Brand          | Panasonic         |                   |                   |
| Refrigerant                            |                | R32               |                   |                   |
| Refrigerant Amount                     | oz/kg          | 52.91 / 1.5       | 70.55 / 2.0       | 70.55 / 2.0       |
| Sound Level (1 Meter Distance)         | dB(A)          | 53                | 54                | 55                |
| IP Rating                              |                | IPX4              |                   |                   |
| Net Weight                             |                | 84/185            | 117/258           | 119/262           |
| Unit Dimensions (L/W/H)                |                | 1020/440/880      | 1000/440/1395     | 1000/440/1395     |
| Unit Dimensions (L/W/H)                |                | 40.2"/17.3"/34.6" | 39.4"/17.3"/54.9" | 39.4"/17.3"/54.9" |