



# R32 All Inverter

## Commercial Modular Chiller



### Main Features



#### Environment friendly

- R32 refrigerant with low GWP
- Zero impact on ozone layer
- Less carbon emission



#### All DC Inverter

- High efficiency for energy saving
- Quick start-up and less frequent start/stop
- Precise consumption on real load



#### Silence

- Multiple silence modes
- Adapt to the noise requirements at different times of the day



#### High reliability

- Multi anti-freeze protection
- Alternative cycle duty/defrosting operation
- Back-up function



#### Comfort

- Automatically adjust the target outlet temperature
- Stable and comfortable outlet temperature

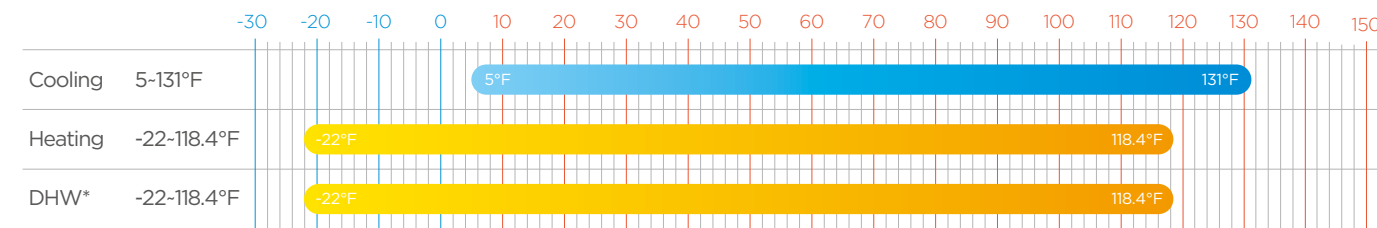


#### High-efficiency

- Efficient plate heat exchanger
- High energy efficiency ratio

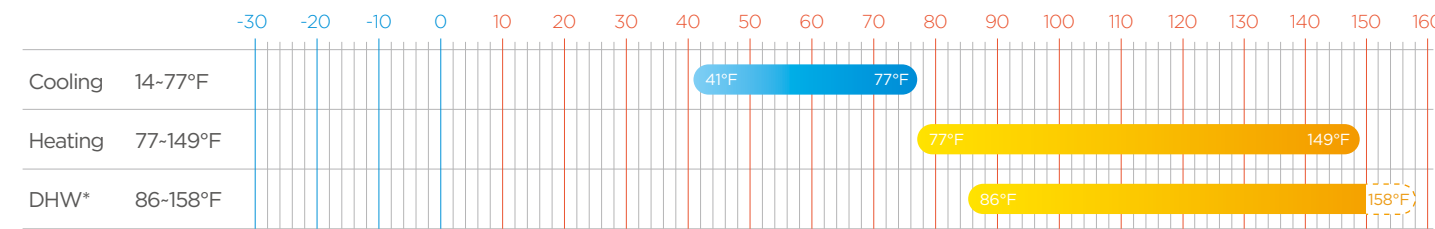
### Application

#### Operating temperature range



\* Only for 20T  
Note For 380V Modular Chiller Cooling 5-118.4°F; Heating -13-109.4°F; DHW -4-109.4°F

#### Supply water temperature range



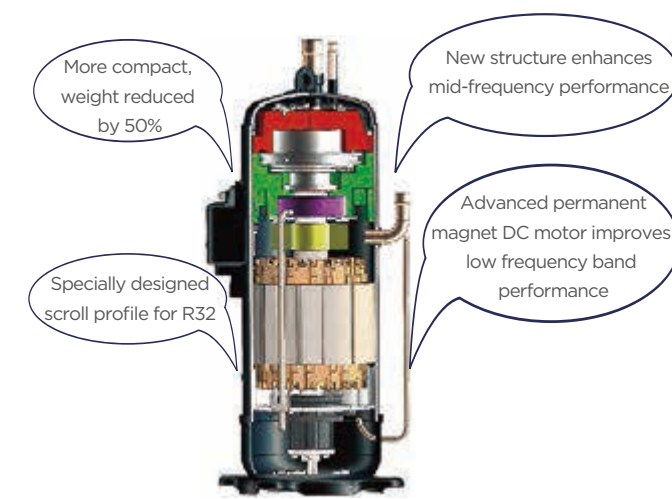
Note: high temperature DHW mode (need auxiliary electric heater)  
\* Only for 20T; 158°F can be set by wired controller  
Note For 380V Modular Chiller Cooling 41-68°F

It can be matched with different kinds of terminals to meet the requirements of a variety of scenarios



### Advanced Configurations

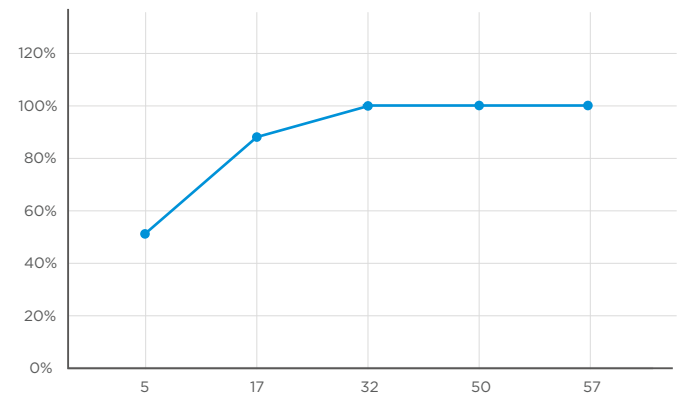
#### DC EVI\* Inverter compressor



\*Enhanced Vapor Injection

#### Strong heat in low temperature

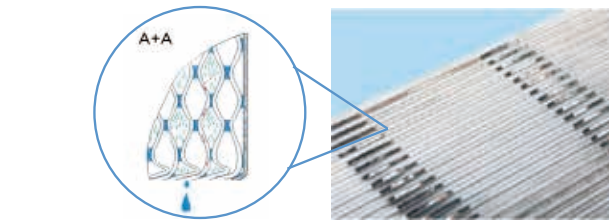
100% heating capacity at 32°F  
≥ 80% heating capacity at 17°F  
≥ 56% heating capacity at 5°F\*



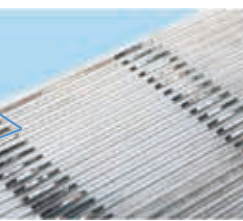
Note ≥ 75% heating capacity at 23°F for 380V unit

#### Double-wall PHE\*

- 316L stainless steel;
- Double gap between water and refrigerant;
- Water and refrigerant will not mix, ensuring the safety of the water usage Modular Chiller 20T.

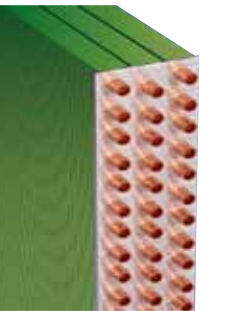


Refrigerant will not mix with water  
\*For 20T



#### RTPF condenser coil with anticorrosive treatment

Special heavy anti-corrosion treatment of heat exchanger provides great resistance against acid rain and salt corrosion against corrosive air to extend overall useful life.



#### Easy maintenance & installation

Modular design, up to 8 units can be connected in parallel, easy to install.  
All surrounding panels of the unit can be disassembled, facilitating daily maintenance.



#### LCD touch wire controller

- Dot matrix LCD screen
- Weekly time, daily time
- Double temperature point setting
- Mute mode setting
- Master/slave wire controller settings
- Buzzer sound and alarm function
- Modbus function



When heating/cooling/DHW (domestic hot water) modes coexist, DHW mode can be set to operate with priority.  
When multiple units are cascade installed, each unit can be set DHW mode individually.

Specifications

| Model                               |                  |         | CR8-1A-D020-V5N1H       | CR8-1A-D030-V6N1H        | CR8-1A-D040-V6N1H        |
|-------------------------------------|------------------|---------|-------------------------|--------------------------|--------------------------|
| Power Supply                        |                  | V/Ph/Hz | 208-230/3/60            | 460±10%/3/60             | 460±10%/3/60             |
| Cooling <sup>1</sup>                | Capacity         | TR      | 19.9                    | 28.4                     | 37.8                     |
|                                     | Input Power      | kW      | 23.73                   | 35.51                    | 47.53                    |
|                                     | EER              | Btu/W*h | 10.06                   | 9.59                     | 9.55                     |
|                                     | IPLV             | Btu/W*h | 20.15                   | 19.96                    | 19.76                    |
| Heating(A47W105)                    | Capacity         | kBtu/h  | 255.9                   | 370.55                   | 493.73                   |
|                                     | Input Power      | kW      | 19.48                   | 28.2                     | 37.97                    |
|                                     | COP              | Btu/W*h | 13.13                   | 13.14                    | 13.00                    |
| Heating(A17W105)                    | Capacity         | kBtu/h  | 204.7                   | 295.5                    | 394.1                    |
|                                     | Input Power      | kW      | 24.49                   | 33.9                     | 45.65                    |
|                                     | COP              | Btu/W*h | 8.35                    | 8.71                     | 8.63                     |
| Heating(A47W120)                    | Capacity         | kBtu/h  | 255.9                   | 364.1                    | 485.5                    |
|                                     | Input Power      | kW      | 22.06                   | 31.8                     | 42.86                    |
|                                     | COP              | Btu/W*h | 11.60                   | 11.44                    | 11.32                    |
| Heating(A17W120)                    | Capacity         | kBtu/h  | 204.7                   | 295.5                    | 394.1                    |
|                                     | Input Power      | kW      | 27.27                   | 38.6                     | 52.02                    |
|                                     | COP              | Btu/W*h | 7.50                    | 7.65                     | 7.57                     |
| Sound Pressure <sup>2</sup>         | Cooling          | dB(A)   | 67.0                    | 74.0*                    | 75.0*                    |
|                                     | Heating          | dB(A)   | 69.5                    | 76.0*                    | 78.0*                    |
| Refrigerant <sup>3</sup>            | Refrigerant Name | lbs     | R32/ 12.57 × 2          | R32/ 24.25 × 2           | R32/ 24.25 × 2           |
| Compressor                          | Type             | -       | Inverter Scroll         |                          |                          |
| Condensor                           | Type             | -       | RTPF heat exchanger     |                          |                          |
| Evaporator                          | Type             | -       | Plate Heat Exchanger    |                          |                          |
| Fan                                 | Type             | -       | BLDC                    |                          |                          |
|                                     | Number of Fans   | -       | 2                       | 2                        | 2                        |
| Net Weight                          |                  | lbs     | 1192                    | 2315                     | 2315                     |
| Net Dimensions                      |                  | inch    | 78-3/4*74-1/64*37-13/16 | 90-3/16*98-7/16*61-13/16 | 90-3/16*98-7/16*61-13/16 |
| Operating Ambient Temperature Range | Cooling          | °F      | 5-131                   | 5-131                    | 5-131                    |
|                                     | Heating          | °F      | -22-118.4               | -22-118.4                | -22-118.4                |
|                                     | DHW              | °F      | -22-118.4               | /                        | /                        |
| Supply Water Temperature Range      | Cooling          | °F      | 14-77                   | 41~77                    | 41~77                    |
|                                     | Heating          | °F      | 77-149                  | 77~149                   | 77~149                   |
|                                     | DHW              | °F      | 77-149                  | /                        | /                        |

1.AHRI 550-590 cooling capacity conditions: 95°F ambient air, 54°F EWT and 44°F LWT;Full load heating performance tested to AHRI standard 550/590;  
2.Sound pressure tested at 5 feet;  
3.This product contains fluorinated greenhouse gases (R32, GWP(Global Warning Potential : 675));  
4.Some specifications may change, for reference only.

\* The parameter will be provided upon official production of the product.  
/ Not available

Model Number Description

