TERMOJET

R290 Natural Refrigerant

# Engineering Data

## Climastar Series

R290 COMMERCIAL HEAT PUMP

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# Part 1

# General Information

# 1 R290 Climastar System

## 1.1 System Schematic

Climastar Commercial R290 Heat Pump is a triple-function integrated system designed for space heating, cooling, and domestic hot water (DHW) supply. The outdoor unit extracts heat from the ambient air and transfers it via refrigerant piping to a plate heat exchanger in the hydronic system. For heating, the heated water circulates through low-temperature emitters like floor heating loops or radiators; for cooling, a 4-way valve reverses the refrigerant cycle to generate chilled water for fan coil units.

The system's unique design also integrates domestic hot water production, allowing it to supply heated water for daily use. Notably, heat pump heating capacity decreases with lower ambient temperatures. To compensate, the Climastar Commercial R290 is equipped with an auxiliary electric heater control port, providing extra heating during extreme cold, serving as a backup during heat pump malfunctions, and offering anti-freeze protection for external water pipes in winter. This triple-function setup ensures year-round comfort and energy efficiency for commercial and residential applications.

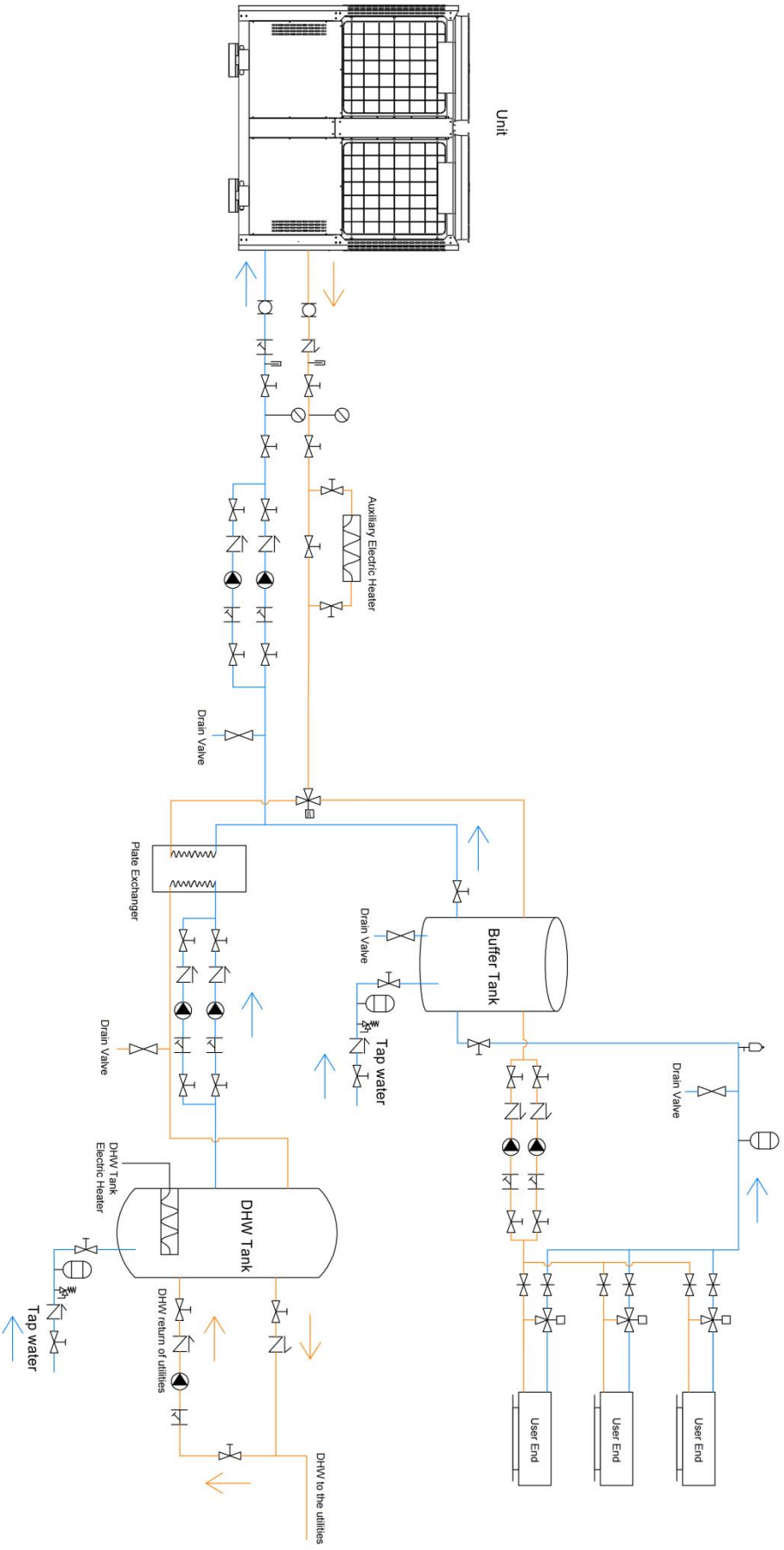
## 1.2 Typical Applications

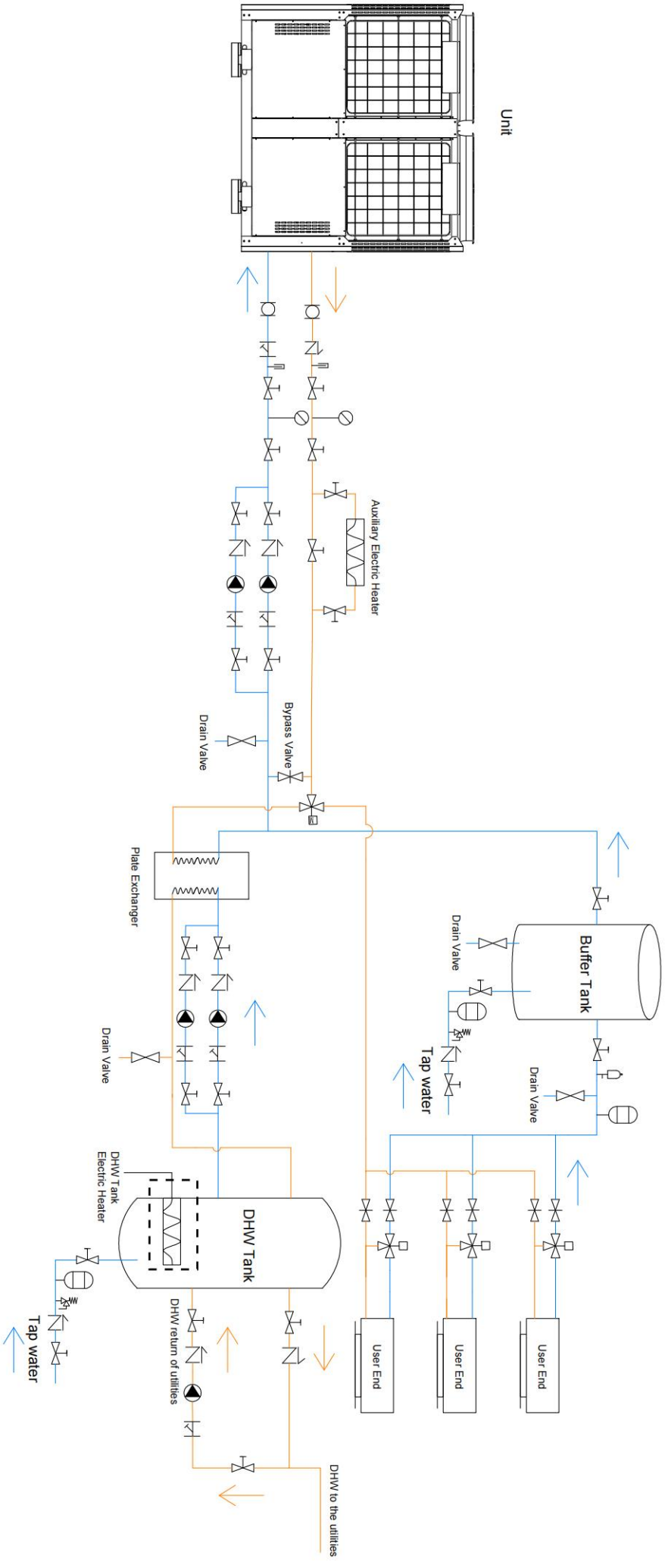
| | | |
|---|---|---|
|  Soft joint |  Gate valve |  Expansion tank |
|  Check valve |  Water pump |  Safety valve |
|  Exhaust valve |  Drain valve |  Pressure meter |
|  Y-type filter |  Two way valve | |
|  3-way valve |  Thermometer | |

Note:
1. To avoid backsiphonage, it is required to install a non-return valve on the water inlet of the domestic hot water tank or water loop in accordance with the applicable legislation.
2. The installation diagrams below are for reference purposes only. For actual installation, please consult a certified professional installer.

**Single Unit System**

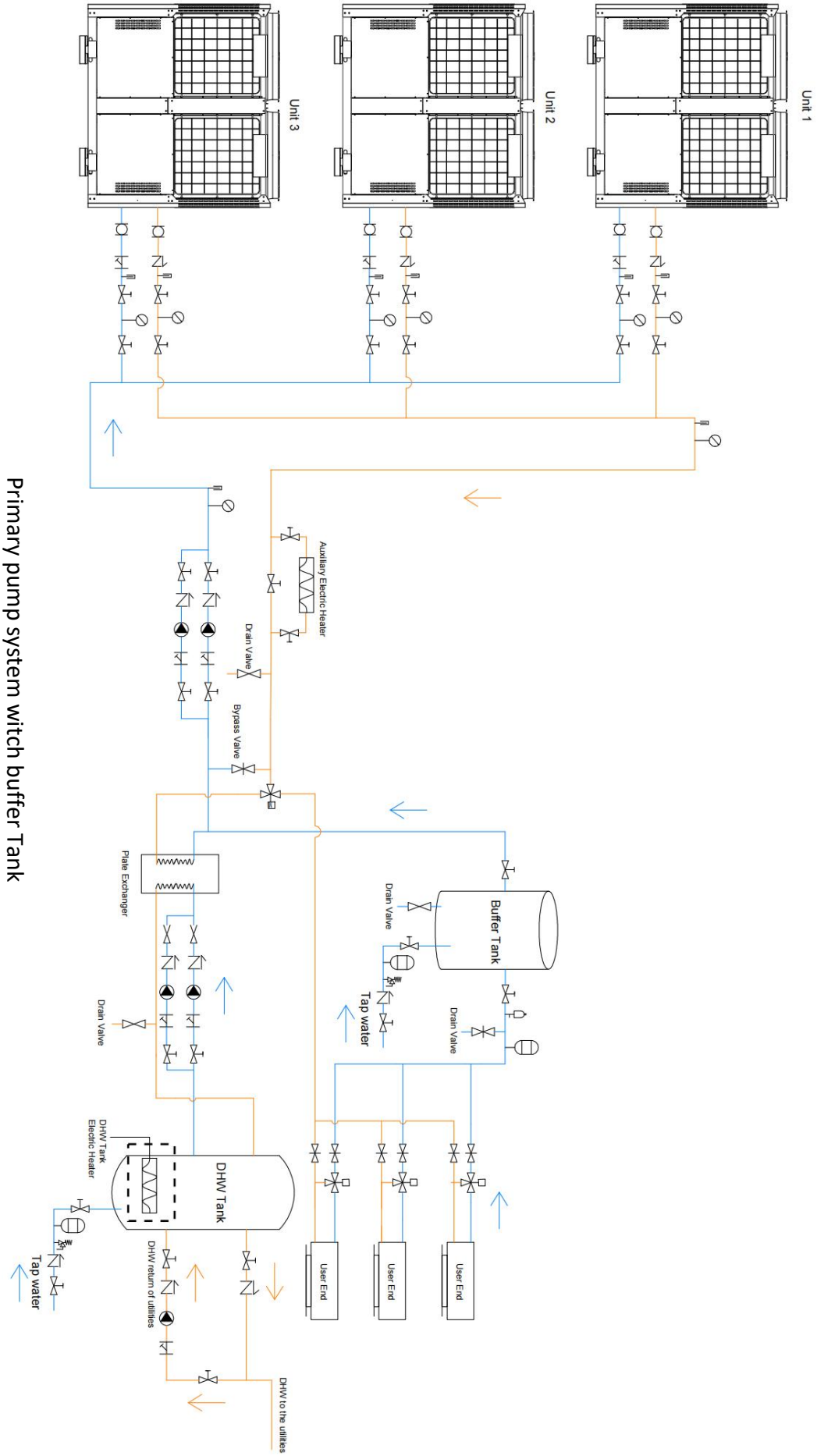
Secondary pump system witch buffer Tank





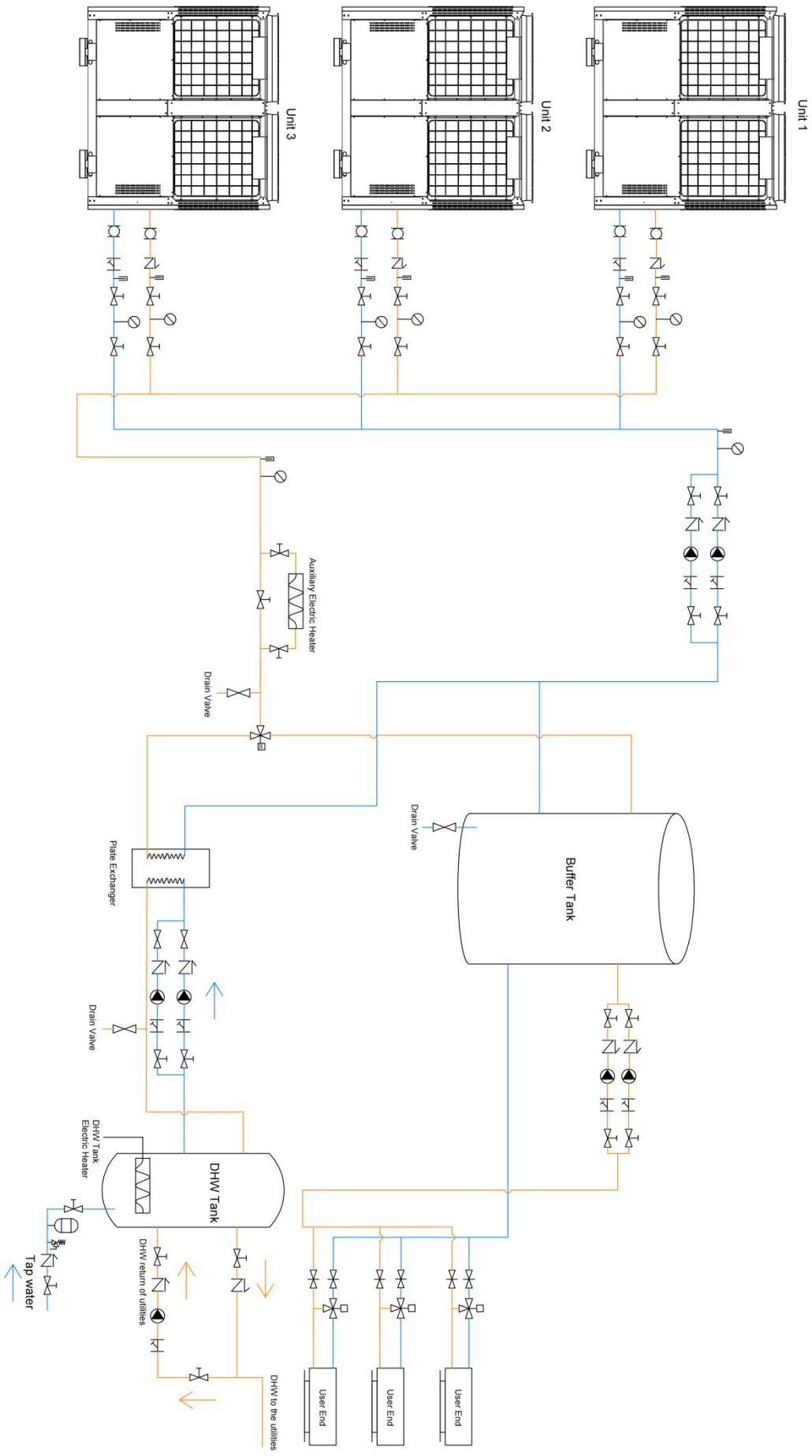

Primary pump system witch buffer Tank

**Cascade System**



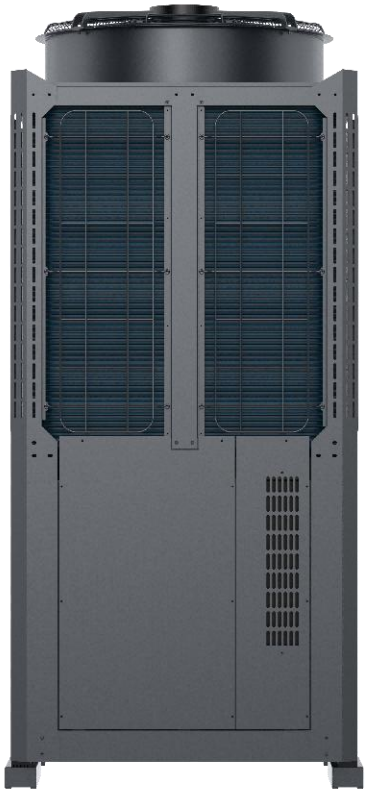
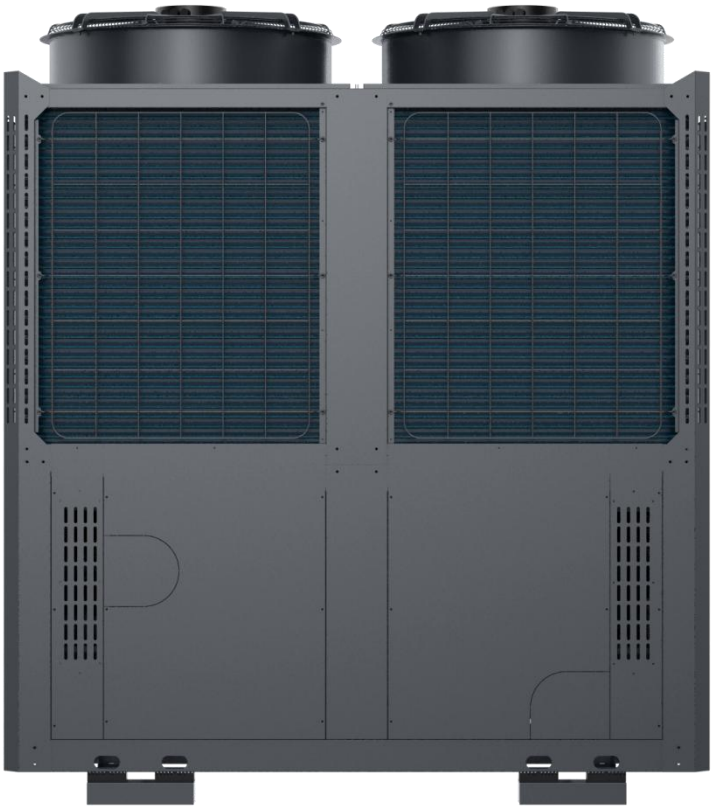

Primary pump system witch buffer Tank

TERMOJET




Secondary pump system witch buffer Tank

## 2 Product Lineup

| Power Supply | 380-415V/3N~/ 50Hz |
|---|---|
| NE-F500HCR5TINVM-USC |  |
| NE-F1000HCR5TINVM-USC |  |

## 3 Nomenclature

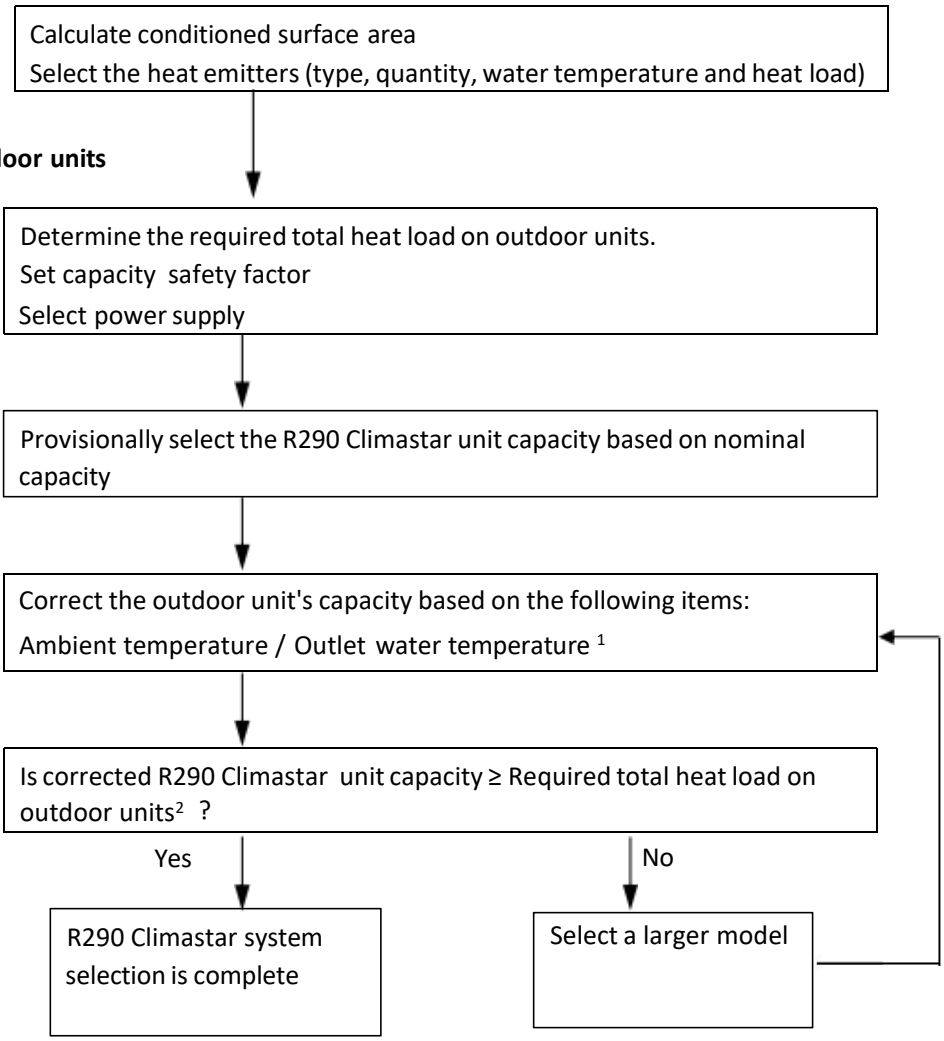
| NE | - | F | 500 | HC | R5 | T | INV | M | - | U | S | C |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | 9 | 10 | 11 |

| Legend | | |
|---|---|---|
| **No.** | **Code** | **Remarks** |
| 1 | NE | Brand:<br>TERMOJET |
| 2 | F | Sales code: F |
| 3 | 500 | Heating capacity of the machine:<br>60: 6kw 90: 9kw 130: 13kw 160: 16kw 500:50kW |
| 4 | HC | Product category:<br>SP (Swimming pool)<br>HC (Heating&Cooling)<br>HW (Hot water) |
| 5 | R5 | Refrigerant code:<br>R1 : R407C, R2 : R134a, R3 :R410A, R4 :R32, R5: R290, R6 :R744, R7 :R454b |
| 6 | T | Power supply type of the machine:<br>Omitted: 220-240V~/50Hz<br>T:380-415V/3N~/50Hz<br>116:110-120V~/60Hz<br>216:208-230V~/60Hz<br>236:208-230V/3N~/60Hz<br>336:380-415V/3N~/60Hz |
| 7 | INV | Heat pump types (Inverter, ON/OFF, enthalpy increase):<br>Omitted: Ordinary ON/OFF<br>INV :Ordinary Inverter<br>EVI : ON/OFF enthalpy increase<br>INE : Inverter enthalpy increase: |
| 8 | M | Motor type:<br>Omitted: AC motor<br>M :DC motor |
| 9 | U | Air discharge type:<br>Omitted: Side discharge<br>U:Top discharge<br>B:Back discharge |
| 10 | S | Heat pump appearance material:<br>P : Plastic Model,<br>S: Sheet Metal Model |
| 11 | C | Heat pump appearance type:<br>A, B, C...means style A, style B, style C |

# 4 System Design and Unit Selection

## 4.1 Selection Procedure

**Step 1: Total heat load calculation**




Notes:

1. If the required water temperatures of the heat emitters are not all the same, the R290 Climastar 's outlet water temperature setting should be set at the highest of the heat emitter required water temperatures. If the water outlet design temperature falls between two temperatures listed in the outdoor unit's capacity table, calculate the corrected capacity by interpolation.
2. If the outdoor unit selection is to be based on total heating load and total cooling load, select commercial units which satisfy not only the total heating load requirements but also the total cooling load requirements.
3. The maximum number of heat pump cascades can reach 16.

### 4.2 R290 Climastar Outlet Water Temperature (TWout)

The recommended design TWout ranges for different types of heat emitter are :

- For Underfloor heating: 30 to 35°C
- For radiator: 30 to 45°C
- For fan coil: 40 to 50°C

### 4.3 Optimizing System Design

To get the most comfort with the lowest energy consumption with R290 Climastar, it is important to take account of the following considerations:

- Choose heat emitters that allow the heat pump system to operate at a temperature as low as possible whilst still providing sufficient heat.

### 4.4 System Design Notice

This product is a standalone heat pump unit, and does not include system-side components such as buffer tanks, circulation pumps, mixing valves, or terminal units.

Due to the diversity and complexity of commercial HVAC applications (e.g. floor heating, fan coil systems, domestic hot water, multi-zone control),
the complete system must be designed by qualified engineering professionals, in accordance with the project's heating/cooling load, operating conditions, and relevant regulations.

*Noted： A buffer tank is required for all installations. Improper or missing configuration may lead to poor system performance or equipment malfunction.

# Part 2

# Engineering Data

# 1 Specifications

## 1.1 Performance

| R290 Climastar Series | | | NE-F500HCR5TINVM-USC | NE-F1000HCR5TINVM-USC |
|---|---|---|---|---|
| Heating A7W35 | Capacity | W | 37490 | 74980 |
| | Rated input | W | 7500 | 15000 |
| | COP | | 5.00 | 5.00 |
| Heating A7W45 | Capacity | W | 35490 | 70970 |
| | Rated input | W | 9120 | 18240 |
| | COP | | 3.89 | 3.89 |
| Heating A7W55 | Capacity | W | 31240 | 62480 |
| | Rated input | W | 9860 | 19720 |
| | COP | | 3.17 | 3.17 |
| Heating A2W35 | Capacity | W | 33370 | 66730 |
| | Rated input | W | 8160 | 16320 |
| | COP | | 4.09 | 4.09 |
| Heating A2W45 | Capacity | W | 31420 | 62830 |
| | Rated input | W | 9410 | 18810 |
| | COP | | 3.34 | 3.34 |
| Heating A2W55 | Capacity | W | 27870 | 55740 |
| | Rated input | W | 9950 | 19900 |
| | COP | | 2.80 | 2.80 |
| Heating A-7W35 | Capacit | W | 32710 | 64520 |
| | Rated input | W | 10290 | 20580 |
| | COP | | 3.18 | 3.18 |
| Heating A-7W45 | Capacity | W | 31670 | 63340 |
| | Rated input | W | 11650 | 23300 |
| | COP | | 2.72 | 2.72 |
| Heating A-7W55 | Capacity | W | 31040 | 62080 |
| | Rated input | W | 12360 | 24720 |
| | COP | | 2.51 | 2.51 |
| Cooling A35W 15 | Capacity | W | 35630 | 71260 |
| | Rated input | W | 10050 | 20100 |
| | EER | | 3.55 | 3.55 |
| Cooling A35W7 | Capacity | W | 29300 | 58600 |
| | Rated input | W | 8950 | 17900 |
| | EER | | 3.27 | 3.27 |

## 1.2 Genera

| R290 Climastar Series | | NE-F500HCR5TINVM-USC | NE-F1000HCR5TINVM-USC |
|---|---|---|---|
| Prated（Pdesignh@A-10℃/W35°C，average climate) | kW | 34 | 69 |
| Prated（Pdesignh@A-10℃/W55°C，average climate) | kW | 32 | 65 |
| SCOP (W35°C，average climate) | W/W | 5.1 | 5.2 |
| SCOP (W55°C，average climate) | W/W | 4.0 | 4.0 |
| ErP Level (W35°C，average climate) | / | A+++ | |
| ErP Level (W55°C，average climate) | / | A+++ | |
| [Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 30°C/35°C. | | | |
| Heating Capacity | kW | 13.62~50.00 | 27.24~104.00 |
| Power Input | kW | 2.34~11.68 | 4.68~24.53 |
| Heating Current Input Range | A | 3.95~19.72 | 7.90~41.62 |
| COP | W/W | 5.82~4.28 | 5.82~4.24 |
| [Space Heating] Ambient Temp. (DB/WB): 7°C/6°C, Water Temp. (Inlet/Outlet): 50°C/55°C. | | | |
| Heating Capacity | kW | 12.26~46.00 | 24.52~98.00 |
| Power Input | kW | 2.99~15.43 | 5.98~33.11 |
| Heating Current Input Range | A | 5.04~26.04 | 10.08~55.06 |
| COP | W/W | 4.10~2.98 | 4.10~2.86 |
| [Space Cooling] Ambient Temp. (DB/WB): 35°C / -, Water Temp. (Inlet/Outlet): 12°C/7°C. | | | |
| Cooling Capacity | kW | 7.60~35.00 | 15.20~80.00 |
| Power Input | kW | 1.76~12.36 | 3.52~28.37 |
| Cooling Current Input Range | A | 2.97~20.86 | 5.94~47.87 |
| EER | W/W | 4.30~2.83 | 4.30~2.82 |
| [DHW heating] Ambient Temp. (DB/WB): 20°C / 15°C, Water Temp. (Inlet/Outlet): 15°C/55°C. | | | |
| Heating Capacity | kW | 60.00 | 120.00 |
| Power Input | kW | 13.04 | 26.25 |
| Heating Current Input Range | A | 22.02 | 44.33 |
| COP | W/W | 4.60 | 4.57 |
| | | | |
| Max. Power Input | kW | 17.2 | 34.4 |
| Max. Running Current | A | 28 | 56 |
| Max. Outlet Water Temperature | ℃ | 75 | |
| Operating Ambient Temperature | ℃ | -25~43 | |
| Power Supply | V/Ph/Hz | 380-415V/3N~/ 50Hz | |
| Display | / | 7-inch Colored Touch Screen | |
| Refrigerant Type | / | R290 | |
| Refrigerant Weight | kg | 2.0×2 | 2.0×4 |
| Sound Pressure Level at 1m | dB(A) | 52 | 55 |
| Sound Power Level | dB(A) | 70 | 73 |
| Rated Water Flow | m³/h | 8.6 | 17.9 |
| Water Pressure Drop | kPa | 25 | 28 |
| Water Pipe Connection | / | DN50 | DN65 |
| Direction of Air Discharge | / | Top | |
| Fan/Motor Type | / | Axial/DC | |
| Fan Quantity | PCS | 1 | 2 |
| Ingress Protection Rating | / | IPX4 | |
| Electric Shock Protection Class | / | I | |
| Net Weight | kg | 490 | 958 |
| Net Dimensions (L×W×H) | mm | 1095×1315×2435 | 2190×1315×2435 |

Notice:

1. The follow data is for reference only. The specs data is subject to actual product.

## 2 Electrical characteristics

| System | Outdoor unit | | | Rated Current | Compressor | | Fan | | |
|---|---|---|---|---|---|---|---|---|---|
| | Power supply | Min. (V) | Max.(V) | MFA (A) | Quantity | RLA (A) / Each compressor | Quantity | kW | FLA (A) |
| NE-F500HCR5TINVM-USC | 380~415/3N/50Hz | 380 | 415 | 37.2 | 2 | 12.8 | 1 | 1.5 | 2.28 |
| NE-F1000HCR5TINVM-USC | 380~415/3N/50Hz | 380 | 415 | 74.7 | 4 | 12.8 | 2 | 1.27 | 2.2 |

Electric heater

| Material | Power supply | RATING | System | Quantity |
|---|---|---|---|---|
| Crankcase Heater | 220V | 40W | NE-F500HCR5TINVM-USC | 2 |
| | | | NE-F1000HCR5TINVM-USC | 4 |
| Chassis Heater Belt | 220V | 200W | NE-F500HCR5TINVM-USC | 1 |
| | | | NE-F1000HCR5TINVM-USC | 2 |

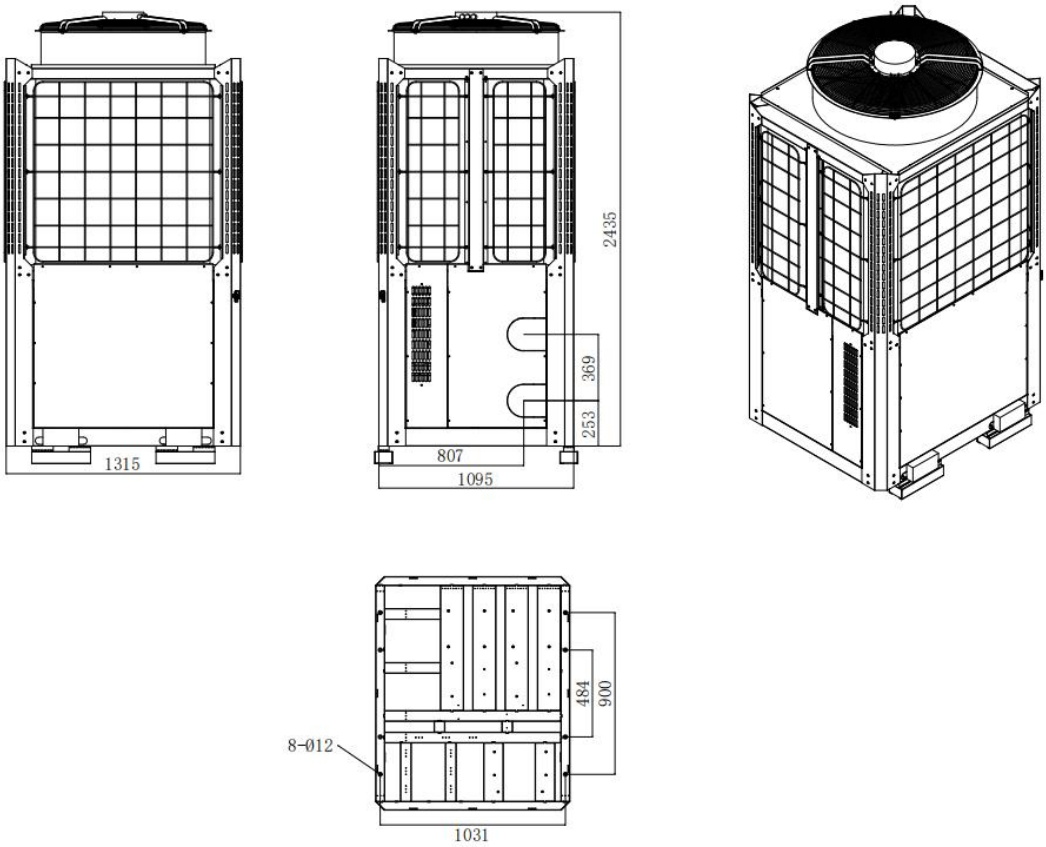
Notes:

| Name | Description | Explanation |
|---|---|---|
| Min. & Max. | Minimum & Maximum running voltage (V) | Required voltage range for system operation |
| MFA | Max. Fuse Amps. (A) | To determine air-break switch /circuit breaker/ Fuse |
| RLA | Rated Load Amps. (A) | The input Amps of compressor where MAX. Hz can operate for nominal cooling or heating test condition |
| kW | Rated Motor Output | / |
| FLA | Full Load Amps. (A) | The current measured by the motor at rated voltage and rated speed (usually the highest speed of Motor) underrated load. |

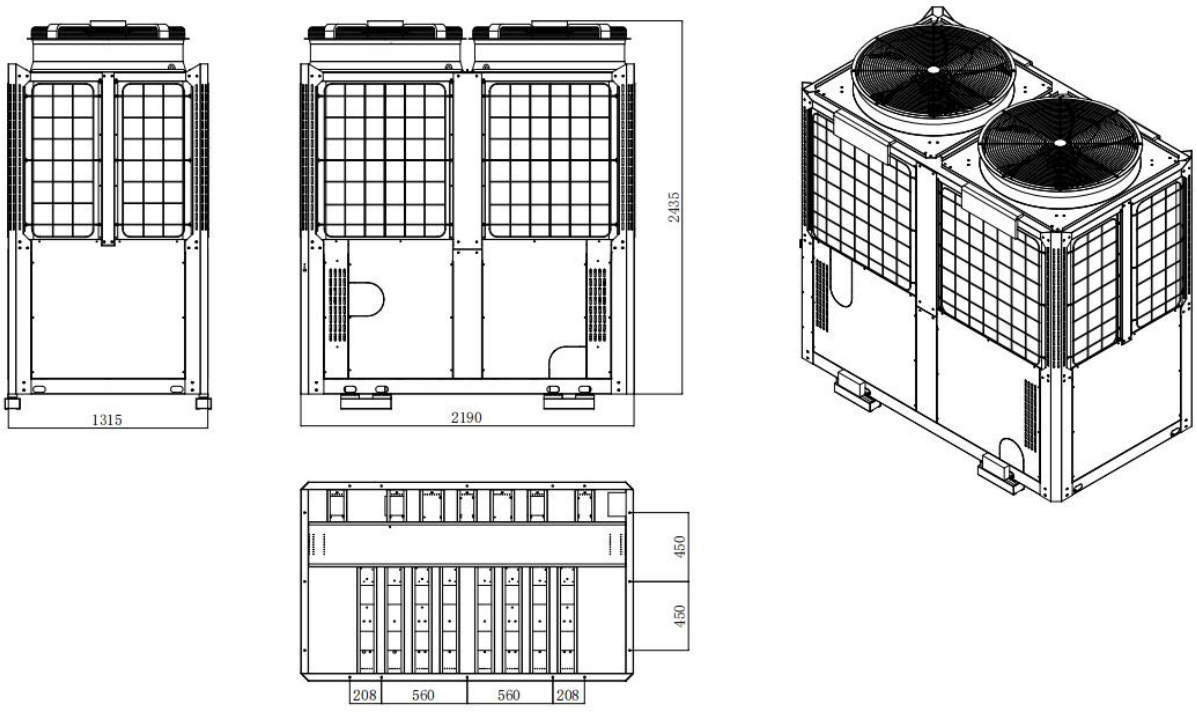
## 3 Dimensions

unit:mm

NE-F500HCR5TINVM-USC

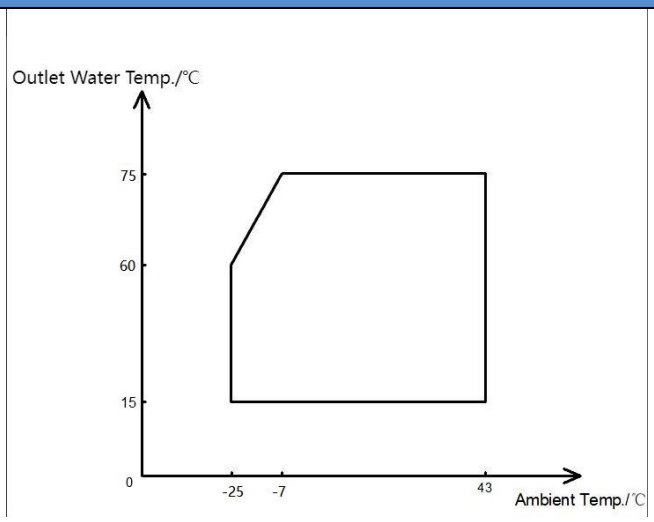



NE-F1000HCR5TINVM-USC

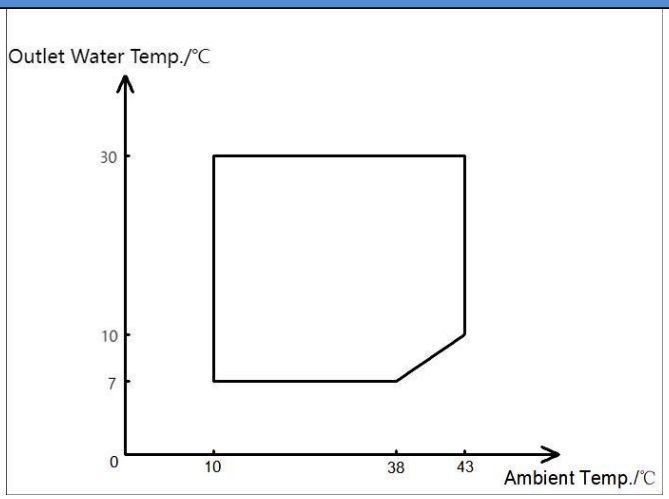


## 4 Operating Limits

**Heating operating limits**




**Cooling operating limits**



# 5 Capacity Tables

## 5.1 Heating Capacity Tables

NE-F500HCR5TINVM-USC

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 20 | -25 | 23.13 | 2.22 | 10.43 | 23.13 | 2.22 | 10.43 | 17.39 | 2.55 | 6.83 | 11.45 | 2.65 | 4.32 | 9.25 | 2.72 | 3.40 | 9.25 | 2.72 | 3.40 |
| | -20 | 26.94 | 2.65 | 10.17 | 26.94 | 2.65 | 10.17 | 20.26 | 3.04 | 6.66 | 13.34 | 3.25 | 4.10 | 10.78 | 3.30 | 3.27 | 10.78 | 3.30 | 3.27 |
| | -15 | 30.77 | 3.06 | 10.05 | 30.77 | 3.06 | 10.05 | 23.14 | 3.52 | 6.58 | 15.23 | 3.81 | 3.99 | 12.31 | 3.91 | 3.15 | 12.31 | 3.91 | 3.15 |
| | -10 | 33.86 | 3.56 | 9.51 | 33.86 | 3.56 | 9.51 | 25.46 | 4.12 | 6.18 | 16.76 | 4.64 | 3.61 | 14.54 | 4.85 | 3.00 | 14.54 | 4.85 | 3.00 |
| | -7 | 34.43 | 3.70 | 9.31 | 34.43 | 3.95 | 8.71 | 25.89 | 4.32 | 5.99 | 17.04 | 4.69 | 3.63 | 15.25 | 5.17 | 2.95 | 15.25 | 5.17 | 2.95 |
| | 0 | 36.90 | 4.04 | 9.14 | 35.14 | 4.90 | 7.17 | 26.43 | 5.36 | 4.93 | 17.39 | 5.82 | 2.99 | 16.50 | 6.07 | 2.72 | 16.50 | 6.07 | 2.72 |
| | 2 | 41.46 | 4.63 | 8.96 | 36.05 | 5.65 | 6.38 | 27.11 | 6.18 | 4.39 | 17.85 | 6.70 | 2.66 | 17.85 | 6.70 | 2.66 | 17.85 | 6.70 | 2.66 |
| | 5 | 43.66 | 4.92 | 8.87 | 37.97 | 6.18 | 6.14 | 28.55 | 6.76 | 4.22 | 18.79 | 7.33 | 2.56 | 18.79 | 7.33 | 2.56 | 18.79 | 7.33 | 2.56 |
| | 7 | 45.86 | 5.25 | 8.74 | 39.88 | 6.59 | 6.05 | 29.99 | 7.21 | 4.16 | 19.74 | 7.82 | 2.52 | 19.74 | 7.82 | 2.52 | 19.74 | 7.82 | 2.52 |
| | 10 | 50.16 | 5.86 | 8.56 | 41.80 | 7.24 | 5.77 | 31.43 | 7.92 | 3.97 | 20.69 | 8.59 | 2.41 | 20.69 | 8.59 | 2.41 | 20.69 | 8.59 | 2.41 |
| | 15 | 52.44 | 6.19 | 8.47 | 43.70 | 7.77 | 5.62 | 32.86 | 8.50 | 3.87 | 21.63 | 9.22 | 2.35 | 21.63 | 9.22 | 2.35 | 21.63 | 9.22 | 2.35 |
| | 20 | 57.06 | 6.85 | 8.33 | 47.55 | 8.75 | 5.43 | 35.76 | 9.57 | 3.74 | 23.54 | 10.38 | 2.27 | 23.54 | 10.38 | 2.27 | 23.54 | 10.38 | 2.27 |
| | 25 | 61.68 | 7.60 | 8.12 | 51.40 | 9.73 | 5.28 | 38.65 | 10.65 | 3.63 | 25.44 | 11.45 | 2.22 | 25.44 | 11.45 | 2.22 | 25.44 | 11.45 | 2.22 |
| | 30 | 69.05 | 8.71 | 7.93 | 55.24 | 10.70 | 5.16 | 41.54 | 11.71 | 3.55 | 27.34 | 12.76 | 2.14 | 27.34 | 12.76 | 2.14 | 27.34 | 12.76 | 2.14 |
| | 35 | 73.86 | 9.67 | 7.64 | 59.09 | 11.68 | 5.06 | 44.44 | 12.78 | 3.48 | 29.25 | 13.93 | 2.10 | 29.25 | 13.93 | 2.10 | 29.25 | 13.93 | 2.10 |
| | 40 | 81.82 | 11.13 | 7.35 | 62.94 | 12.66 | 4.97 | 47.33 | 13.85 | 3.42 | 31.16 | 15.10 | 2.06 | 31.16 | 15.10 | 2.06 | 31.16 | 15.10 | 2.06 |
| | 45 | 86.83 | 12.32 | 7.05 | 66.79 | 13.64 | 4.90 | 50.23 | 14.92 | 3.37 | 33.06 | 16.27 | 2.03 | 33.06 | 16.27 | 2.03 | 33.06 | 16.27 | 2.03 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 22.74 | 2.17 | 10.50 | 22.74 | 2.17 | 10.50 | 17.10 | 2.49 | 6.87 | 11.26 | 2.52 | 4.47 | 10.05 | 2.88 | 3.49 | 10.05 | 2.88 | 3.49 |
| | -20 | 26.43 | 2.53 | 10.44 | 26.43 | 2.53 | 10.44 | 19.88 | 2.91 | 6.83 | 13.08 | 3.15 | 4.15 | 11.57 | 3.45 | 3.35 | 11.57 | 3.45 | 3.35 |
| | -15 | 30.14 | 2.95 | 10.22 | 30.14 | 2.95 | 10.22 | 22.66 | 3.39 | 6.69 | 14.92 | 3.67 | 4.06 | 12.05 | 3.69 | 3.27 | 12.05 | 3.69 | 3.27 |
| | -10 | 31.57 | 3.15 | 10.02 | 31.57 | 3.15 | 10.02 | 23.74 | 3.60 | 6.59 | 15.63 | 3.92 | 3.99 | 12.63 | 3.97 | 3.18 | 12.63 | 3.97 | 3.18 |
| | -7 | 33.82 | 3.69 | 9.16 | 33.82 | 3.69 | 9.16 | 25.43 | 4.04 | 6.30 | 16.74 | 4.38 | 3.82 | 14.98 | 4.83 | 3.10 | 14.98 | 4.83 | 3.10 |
| | 0 | 34.85 | 4.56 | 7.65 | 34.85 | 4.56 | 7.65 | 26.21 | 4.99 | 5.26 | 17.25 | 5.41 | 3.19 | 16.36 | 5.65 | 2.90 | 16.36 | 5.65 | 2.90 |
| | 2 | 35.16 | 5.13 | 6.85 | 35.16 | 5.13 | 6.85 | 26.44 | 5.61 | 4.71 | 17.40 | 6.09 | 2.86 | 17.40 | 6.09 | 2.86 | 17.40 | 6.09 | 2.86 |
| | 5 | 37.12 | 5.62 | 6.61 | 37.12 | 5.62 | 6.61 | 27.91 | 6.14 | 4.54 | 18.37 | 6.66 | 2.76 | 18.37 | 6.66 | 2.76 | 18.37 | 6.66 | 2.76 |
| | 7 | 39.08 | 5.98 | 6.54 | 39.08 | 5.98 | 6.54 | 29.39 | 6.54 | 4.49 | 19.35 | 7.10 | 2.73 | 19.35 | 7.10 | 2.73 | 19.35 | 7.10 | 2.73 |
| | 10 | 41.05 | 6.59 | 6.23 | 41.05 | 6.59 | 6.23 | 30.87 | 7.20 | 4.28 | 20.32 | 7.81 | 2.60 | 20.32 | 7.81 | 2.60 | 20.32 | 7.81 | 2.60 |
| | 15 | 43.01 | 7.08 | 6.08 | 43.01 | 7.08 | 6.08 | 32.34 | 7.74 | 4.18 | 21.29 | 8.39 | 2.54 | 21.29 | 8.39 | 2.54 | 21.29 | 8.39 | 2.54 |
| | 20 | 46.64 | 7.91 | 5.90 | 46.64 | 7.91 | 5.90 | 35.07 | 8.65 | 4.05 | 23.08 | 9.38 | 2.46 | 23.08 | 9.38 | 2.46 | 23.08 | 9.38 | 2.46 |
| | 25 | 50.27 | 8.74 | 5.75 | 50.27 | 8.74 | 5.75 | 37.80 | 9.56 | 3.96 | 24.88 | 10.28 | 2.42 | 24.88 | 10.28 | 2.42 | 24.88 | 10.28 | 2.42 |
| | 30 | 53.89 | 9.56 | 5.64 | 53.89 | 9.56 | 5.64 | 40.53 | 10.46 | 3.87 | 26.68 | 11.40 | 2.34 | 26.68 | 11.40 | 2.34 | 26.68 | 11.40 | 2.34 |
| | 35 | 57.52 | 10.39 | 5.54 | 57.52 | 10.39 | 5.54 | 43.26 | 11.37 | 3.81 | 28.47 | 12.40 | 2.30 | 28.47 | 12.40 | 2.30 | 28.47 | 12.40 | 2.30 |
| | 40 | 61.15 | 11.22 | 5.45 | 61.15 | 11.22 | 5.45 | 45.98 | 12.28 | 3.75 | 30.27 | 13.39 | 2.26 | 30.27 | 13.39 | 2.26 | 30.27 | 13.39 | 2.26 |
| | 45 | 64.78 | 12.05 | 5.38 | 64.78 | 12.05 | 5.38 | 48.71 | 13.18 | 3.70 | 32.07 | 14.38 | 2.23 | 32.07 | 14.38 | 2.23 | 32.07 | 14.38 | 2.23 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 30 | -25 | 22.35 | 1.98 | 11.27 | 22.35 | 1.98 | 11.27 | 16.81 | 2.28 | 7.38 | 11.06 | 2.45 | 4.52 | 9.73 | 2.55 | 3.82 | 9.73 | 2.55 | 3.82 |
| | -20 | 25.92 | 2.32 | 11.19 | 25.92 | 2.32 | 11.19 | 19.49 | 2.66 | 7.33 | 12.83 | 2.89 | 4.45 | 10.74 | 2.91 | 3.69 | 10.74 | 2.91 | 3.69 |
| | -15 | 29.50 | 2.65 | 11.15 | 29.50 | 2.65 | 11.15 | 22.18 | 3.04 | 7.30 | 14.60 | 3.30 | 4.43 | 12.80 | 3.51 | 3.65 | 12.80 | 3.51 | 3.65 |
| | -10 | 32.28 | 2.96 | 10.92 | 32.28 | 2.96 | 10.92 | 24.27 | 3.40 | 7.15 | 15.98 | 3.74 | 4.27 | 13.42 | 3.83 | 3.50 | 13.42 | 3.83 | 3.50 |
| | -7 | 33.56 | 3.38 | 9.94 | 33.56 | 3.38 | 9.94 | 25.24 | 3.69 | 6.83 | 16.61 | 4.01 | 4.15 | 14.87 | 4.30 | 3.46 | 14.87 | 4.30 | 3.46 |
| | 0 | 39.26 | 3.97 | 9.88 | 34.14 | 4.15 | 8.23 | 25.67 | 4.54 | 5.66 | 16.90 | 4.92 | 3.43 | 16.03 | 5.14 | 3.12 | 16.03 | 5.14 | 3.12 |
| | 2 | 42.83 | 4.43 | 9.66 | 34.26 | 4.61 | 7.43 | 25.77 | 5.04 | 5.11 | 16.96 | 5.47 | 3.10 | 16.96 | 5.47 | 3.10 | 16.96 | 5.47 | 3.10 |
| | 5 | 45.34 | 4.75 | 9.55 | 36.27 | 5.05 | 7.18 | 27.28 | 5.53 | 4.94 | 17.96 | 5.99 | 3.00 | 17.96 | 5.99 | 3.00 | 17.96 | 5.99 | 3.00 |
| | 7 | 51.07 | 5.42 | 9.42 | 38.29 | 5.49 | 6.97 | 28.79 | 6.01 | 4.79 | 18.95 | 6.51 | 2.91 | 18.95 | 6.51 | 2.91 | 18.95 | 6.51 | 2.91 |
| | 10 | 53.60 | 5.72 | 9.38 | 40.30 | 5.93 | 6.80 | 30.30 | 6.49 | 4.67 | 19.95 | 7.04 | 2.83 | 19.95 | 7.04 | 2.83 | 19.95 | 7.04 | 2.83 |
| | 15 | 56.27 | 6.05 | 9.30 | 42.31 | 6.38 | 6.63 | 31.82 | 6.98 | 4.56 | 20.94 | 7.57 | 2.77 | 20.94 | 7.57 | 2.77 | 20.94 | 7.57 | 2.77 |
| | 20 | 60.81 | 6.58 | 9.24 | 45.72 | 7.06 | 6.48 | 34.38 | 7.72 | 4.45 | 22.63 | 8.38 | 2.70 | 22.63 | 8.38 | 2.70 | 22.63 | 8.38 | 2.70 |
| | 25 | 65.34 | 7.16 | 9.13 | 49.13 | 7.74 | 6.35 | 36.95 | 8.47 | 4.36 | 24.32 | 9.11 | 2.67 | 24.32 | 9.11 | 2.67 | 24.32 | 9.11 | 2.67 |
| | 30 | 70.93 | 7.84 | 9.05 | 52.54 | 8.42 | 6.24 | 39.51 | 9.21 | 4.29 | 26.01 | 10.04 | 2.59 | 26.01 | 10.04 | 2.59 | 26.01 | 10.04 | 2.59 |
| | 35 | 75.53 | 8.47 | 8.92 | 55.95 | 9.10 | 6.15 | 42.07 | 9.96 | 4.23 | 27.70 | 10.86 | 2.55 | 27.70 | 10.86 | 2.55 | 27.70 | 10.86 | 2.55 |
| | 40 | 80.14 | 9.11 | 8.80 | 59.36 | 9.78 | 6.07 | 44.64 | 10.70 | 4.17 | 29.38 | 11.67 | 2.52 | 29.38 | 11.67 | 2.52 | 29.38 | 11.67 | 2.52 |
| | 45 | 84.74 | 9.74 | 8.70 | 62.77 | 10.46 | 6.00 | 47.20 | 11.44 | 4.12 | 31.07 | 12.48 | 2.49 | 31.07 | 12.48 | 2.49 | 31.07 | 12.48 | 2.49 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 35 | -25 | 21.96 | 1.81 | 12.12 | 21.96 | 1.81 | 12.12 | 16.51 | 1.97 | 8.40 | 10.87 | 2.27 | 4.79 | 9.73 | 2.31 | 4.22 | 9.73 | 2.31 | 4.22 |
| | -20 | 25.41 | 2.12 | 11.96 | 25.41 | 2.12 | 11.96 | 19.11 | 2.31 | 8.26 | 12.58 | 2.65 | 4.75 | 11.50 | 2.74 | 4.20 | 11.50 | 2.74 | 4.20 |
| | -15 | 28.87 | 2.43 | 11.88 | 28.87 | 2.43 | 11.88 | 21.71 | 2.66 | 8.15 | 14.29 | 3.03 | 4.72 | 12.75 | 3.07 | 4.15 | 12.75 | 3.07 | 4.15 |
| | -10 | 32.02 | 2.90 | 11.03 | 32.02 | 2.90 | 11.03 | 24.08 | 2.98 | 8.07 | 15.55 | 3.38 | 4.60 | 14.12 | 3.44 | 4.10 | 14.12 | 3.44 | 4.10 |
| | -7 | 32.71 | 2.89 | 11.33 | 32.71 | 3.02 | 10.84 | 24.60 | 3.30 | 7.45 | 16.19 | 3.58 | 4.52 | 14.97 | 3.68 | 4.07 | 14.97 | 3.68 | 4.07 |
| | 0 | 37.37 | 3.32 | 11.24 | 33.37 | 3.35 | 9.95 | 25.09 | 3.67 | 6.84 | 16.52 | 3.98 | 4.15 | 15.66 | 4.16 | 3.77 | 15.66 | 4.16 | 3.77 |
| | 2 | 45.07 | 3.80 | 11.86 | 34.67 | 3.94 | 8.80 | 26.07 | 4.31 | 6.05 | 17.16 | 4.67 | 3.67 | 17.16 | 4.67 | 3.67 | 17.16 | 4.67 | 3.67 |
| | 5 | 46.06 | 3.92 | 11.75 | 35.43 | 4.32 | 8.20 | 26.64 | 4.73 | 5.64 | 17.54 | 5.13 | 3.42 | 17.54 | 5.13 | 3.42 | 17.54 | 5.13 | 3.42 |
| | 7 | 50.00 | 4.28 | 11.69 | 37.49 | 5.00 | 7.50 | 28.19 | 5.47 | 5.15 | 18.62 | 5.82 | 3.20 | 18.62 | 5.82 | 3.20 | 18.62 | 5.82 | 3.20 |
| | 10 | 52.60 | 4.59 | 11.47 | 39.55 | 5.28 | 7.50 | 29.74 | 5.83 | 5.10 | 19.58 | 6.26 | 3.13 | 19.58 | 6.26 | 3.13 | 19.58 | 6.26 | 3.13 |
| | 15 | 55.35 | 5.13 | 10.78 | 41.62 | 5.69 | 7.32 | 31.29 | 6.22 | 5.03 | 20.60 | 6.75 | 3.05 | 20.60 | 6.75 | 3.05 | 20.60 | 6.75 | 3.05 |
| | 20 | 59.59 | 5.60 | 10.64 | 44.81 | 6.22 | 7.21 | 33.69 | 6.80 | 4.96 | 22.18 | 7.37 | 3.01 | 22.18 | 7.37 | 3.01 | 22.18 | 7.37 | 3.01 |
| | 25 | 63.83 | 6.19 | 10.31 | 48.00 | 6.74 | 7.12 | 36.09 | 7.38 | 4.89 | 23.76 | 7.94 | 2.99 | 23.76 | 7.94 | 2.99 | 23.76 | 7.94 | 2.99 |
| | 30 | 69.11 | 6.78 | 10.20 | 51.19 | 7.28 | 7.03 | 38.49 | 7.96 | 4.83 | 25.34 | 8.68 | 2.92 | 25.34 | 8.68 | 2.92 | 25.34 | 8.68 | 2.92 |
| | 35 | 73.41 | 7.27 | 10.10 | 54.38 | 7.81 | 6.96 | 40.89 | 8.54 | 4.79 | 26.92 | 9.32 | 2.89 | 26.92 | 9.32 | 2.89 | 26.92 | 9.32 | 2.89 |
| | 40 | 77.72 | 7.76 | 10.01 | 57.57 | 8.34 | 6.90 | 43.29 | 9.12 | 4.74 | 28.50 | 9.95 | 2.86 | 28.50 | 9.95 | 2.86 | 28.50 | 9.95 | 2.86 |
| | 45 | 82.03 | 8.26 | 9.93 | 60.76 | 8.87 | 6.85 | 45.69 | 9.70 | 4.71 | 30.08 | 10.58 | 2.84 | 30.08 | 10.58 | 2.84 | 30.08 | 10.58 | 2.84 |

# R290 Climastar Series

TERMOJET

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 40 | -25 | 21.57 | 1.74 | 12.39 | 21.57 | 1.74 | 12.39 | 16.22 | 1.88 | 8.61 | 10.68 | 2.28 | 4.69 | 9.33 | 2.39 | 3.90 | 9.33 | 2.39 | 3.90 |
| | -20 | 24.90 | 2.03 | 12.27 | 24.90 | 2.03 | 12.27 | 18.72 | 2.20 | 8.53 | 12.33 | 2.70 | 4.57 | 10.96 | 2.82 | 3.88 | 10.96 | 2.82 | 3.88 |
| | -15 | 28.23 | 2.31 | 12.20 | 28.23 | 2.31 | 12.20 | 21.23 | 2.52 | 8.44 | 13.97 | 3.12 | 4.48 | 12.29 | 3.19 | 3.85 | 12.29 | 3.19 | 3.85 |
| | -10 | 31.72 | 2.62 | 12.12 | 31.72 | 2.62 | 12.12 | 23.85 | 2.86 | 8.33 | 15.70 | 3.60 | 4.36 | 13.69 | 3.68 | 3.72 | 13.69 | 3.68 | 3.72 |
| | -7 | 31.94 | 2.66 | 11.99 | 31.94 | 2.66 | 11.99 | 24.02 | 2.91 | 8.24 | 15.81 | 3.84 | 4.12 | 14.15 | 3.88 | 3.65 | 14.15 | 3.88 | 3.65 |
| | 0 | 40.31 | 3.40 | 11.86 | 32.25 | 3.45 | 9.35 | 24.25 | 3.77 | 6.43 | 15.96 | 4.05 | 3.94 | 15.14 | 4.21 | 3.60 | 15.14 | 4.21 | 3.60 |
| | 2 | 42.21 | 3.60 | 11.74 | 32.47 | 3.66 | 8.86 | 24.42 | 4.01 | 6.09 | 16.07 | 4.35 | 3.70 | 16.07 | 4.40 | 3.65 | 16.07 | 4.40 | 3.65 |
| | 5 | 44.95 | 3.85 | 11.67 | 34.58 | 3.92 | 8.82 | 26.00 | 4.29 | 6.06 | 17.12 | 4.65 | 3.68 | 17.12 | 4.65 | 3.68 | 17.12 | 4.65 | 3.68 |
| | 7 | 50.22 | 4.35 | 11.55 | 36.69 | 4.36 | 8.42 | 27.59 | 4.77 | 5.79 | 18.16 | 5.07 | 3.58 | 18.16 | 5.07 | 3.58 | 18.16 | 5.07 | 3.58 |
| | 10 | 52.96 | 4.61 | 11.48 | 38.80 | 4.62 | 8.40 | 29.18 | 5.05 | 5.77 | 19.21 | 5.48 | 3.50 | 19.21 | 5.48 | 3.50 | 19.21 | 5.48 | 3.50 |
| | 15 | 55.86 | 4.91 | 11.37 | 40.92 | 4.99 | 8.20 | 30.77 | 5.46 | 5.64 | 20.26 | 5.92 | 3.42 | 20.26 | 5.92 | 3.42 | 20.26 | 5.92 | 3.42 |
| | 20 | 59.91 | 5.31 | 11.29 | 43.89 | 5.37 | 8.17 | 33.01 | 5.88 | 5.62 | 21.73 | 6.37 | 3.41 | 21.73 | 6.37 | 3.41 | 21.73 | 6.37 | 3.41 |
| | 25 | 63.96 | 5.73 | 11.17 | 46.86 | 5.75 | 8.15 | 35.24 | 6.29 | 5.60 | 23.20 | 6.77 | 3.43 | 23.20 | 6.77 | 3.43 | 23.20 | 6.77 | 3.43 |
| | 30 | 69.03 | 6.25 | 11.04 | 49.84 | 6.31 | 7.90 | 37.48 | 6.90 | 5.43 | 24.67 | 7.32 | 3.37 | 24.67 | 7.32 | 3.37 | 24.67 | 7.32 | 3.37 |
| | 35 | 73.14 | 6.68 | 10.95 | 52.81 | 6.83 | 7.73 | 39.71 | 7.47 | 5.31 | 26.14 | 7.78 | 3.36 | 26.14 | 7.78 | 3.36 | 26.14 | 7.78 | 3.36 |
| | 40 | 77.26 | 7.13 | 10.83 | 55.78 | 7.31 | 7.63 | 41.95 | 8.00 | 5.24 | 27.61 | 8.23 | 3.35 | 27.61 | 8.23 | 3.35 | 27.61 | 8.23 | 3.35 |
| | 45 | 81.37 | 7.79 | 10.45 | 58.75 | 7.83 | 7.50 | 44.18 | 8.57 | 5.16 | 29.08 | 8.68 | 3.35 | 29.08 | 8.68 | 3.35 | 29.08 | 8.68 | 3.35 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 45 | -25 | 21.05 | 1.50 | 13.99 | 21.05 | 1.50 | 13.99 | 15.83 | 1.93 | 8.20 | 10.42 | 2.09 | 4.98 | 8.42 | 2.31 | 3.65 | 8.42 | 2.31 | 3.65 |
| | -20 | 23.98 | 1.74 | 13.80 | 23.98 | 1.74 | 13.80 | 18.03 | 2.22 | 8.12 | 11.87 | 2.59 | 4.58 | 9.59 | 2.80 | 3.43 | 9.59 | 2.80 | 3.43 |
| | -15 | 26.91 | 2.20 | 12.22 | 26.91 | 2.20 | 12.22 | 20.24 | 2.55 | 7.95 | 13.32 | 2.93 | 4.55 | 10.76 | 3.35 | 3.21 | 10.76 | 3.35 | 3.21 |
| | -10 | 28.65 | 2.39 | 11.98 | 28.65 | 2.39 | 11.98 | 21.54 | 2.80 | 7.69 | 14.18 | 3.37 | 4.21 | 11.46 | 3.64 | 3.15 | 11.46 | 3.64 | 3.15 |
| | -7 | 31.12 | 2.67 | 11.65 | 31.12 | 2.67 | 11.65 | 23.40 | 3.19 | 7.33 | 15.40 | 3.82 | 4.03 | 13.79 | 4.55 | 3.03 | 13.79 | 4.55 | 3.03 |
| | 0 | 39.16 | 2.96 | 13.23 | 31.33 | 3.11 | 10.09 | 23.56 | 3.40 | 6.93 | 15.51 | 3.90 | 3.98 | 14.71 | 4.99 | 2.95 | 14.71 | 4.99 | 2.95 |
| | 2 | 40.84 | 3.10 | 13.17 | 31.42 | 3.34 | 9.41 | 23.62 | 3.65 | 6.46 | 15.55 | 3.96 | 3.92 | 15.55 | 5.34 | 2.91 | 15.55 | 5.34 | 2.91 |
| | 5 | 44.79 | 3.41 | 13.15 | 34.45 | 3.72 | 9.25 | 25.91 | 4.07 | 6.36 | 17.05 | 4.42 | 3.86 | 17.05 | 5.92 | 2.88 | 17.05 | 5.92 | 2.88 |
| | 7 | 49.81 | 3.80 | 13.10 | 35.49 | 3.86 | 9.20 | 26.68 | 4.26 | 6.27 | 17.57 | 4.62 | 3.81 | 17.57 | 6.25 | 2.81 | 17.57 | 6.25 | 2.81 |
| | 10 | 52.53 | 4.06 | 12.93 | 37.52 | 4.17 | 9.01 | 28.22 | 4.56 | 6.19 | 18.57 | 4.94 | 3.76 | 18.57 | 6.68 | 2.78 | 18.57 | 6.68 | 2.78 |
| | 15 | 55.40 | 4.40 | 12.60 | 39.57 | 4.45 | 8.90 | 29.76 | 4.86 | 6.12 | 19.59 | 5.27 | 3.71 | 19.59 | 7.12 | 2.75 | 19.59 | 7.12 | 2.75 |
| | 20 | 59.39 | 4.76 | 12.48 | 42.42 | 4.80 | 8.85 | 31.90 | 5.25 | 6.08 | 21.00 | 5.69 | 3.69 | 21.00 | 7.69 | 2.73 | 21.00 | 7.69 | 2.73 |
| | 25 | 63.38 | 5.10 | 12.43 | 45.27 | 5.15 | 8.80 | 34.04 | 5.63 | 6.05 | 22.41 | 6.14 | 3.65 | 22.41 | 8.79 | 2.55 | 22.41 | 8.79 | 2.55 |
| | 30 | 67.93 | 5.48 | 12.39 | 48.14 | 5.50 | 8.75 | 36.20 | 6.02 | 6.02 | 23.83 | 6.56 | 3.63 | 23.83 | 9.49 | 2.51 | 23.83 | 9.49 | 2.51 |
| | 35 | 72.00 | 5.83 | 12.34 | 50.99 | 5.85 | 8.72 | 38.34 | 6.40 | 5.99 | 25.24 | 6.98 | 3.62 | 25.24 | 10.34 | 2.44 | 25.24 | 10.34 | 2.44 |
| | 40 | 76.45 | 6.22 | 12.30 | 53.84 | 6.77 | 7.95 | 40.48 | 7.41 | 5.46 | 26.65 | 8.08 | 3.30 | 26.65 | 11.49 | 2.32 | 26.65 | 11.49 | 2.32 |
| | 45 | 80.49 | 6.59 | 12.21 | 56.69 | 7.41 | 7.65 | 42.63 | 8.10 | 5.26 | 28.06 | 8.83 | 3.18 | 28.06 | 12.25 | 2.29 | 28.06 | 12.25 | 2.29 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 50 | -25 | 20.53 | 1.54 | 13.32 | 20.53 | 1.54 | 13.32 | 15.44 | 1.77 | 8.72 | 10.16 | 1.99 | 5.10 | 8.21 | 2.26 | 3.63 | 8.21 | 2.26 | 3.63 |
| | -20 | 23.06 | 1.79 | 12.89 | 23.06 | 1.79 | 12.89 | 17.34 | 2.06 | 8.44 | 11.41 | 2.23 | 5.12 | 9.22 | 2.56 | 3.61 | 9.22 | 2.56 | 3.61 |
| | -15 | 25.14 | 1.99 | 12.65 | 25.14 | 1.99 | 12.65 | 19.42 | 2.34 | 8.28 | 12.78 | 2.54 | 5.03 | 10.33 | 2.93 | 3.53 | 10.33 | 2.93 | 3.53 |
| | -10 | 27.14 | 2.24 | 12.11 | 27.14 | 2.24 | 12.11 | 23.48 | 2.82 | 8.32 | 15.45 | 3.06 | 5.05 | 12.49 | 3.63 | 3.44 | 12.49 | 3.63 | 3.44 |
| | -7 | 29.13 | 2.49 | 11.68 | 29.13 | 2.49 | 11.68 | 23.75 | 2.96 | 8.03 | 15.63 | 3.21 | 4.87 | 13.99 | 4.09 | 3.42 | 13.99 | 4.09 | 3.42 |
| | 0 | 37.23 | 2.69 | 13.85 | 31.66 | 3.06 | 10.34 | 23.81 | 3.35 | 7.11 | 15.67 | 3.63 | 4.31 | 14.86 | 4.44 | 3.35 | 14.86 | 4.44 | 3.35 |
| | 2 | 40.75 | 2.98 | 13.66 | 31.93 | 3.26 | 9.79 | 24.01 | 3.57 | 6.73 | 15.81 | 3.87 | 4.08 | 15.81 | 4.75 | 3.33 | 15.81 | 4.75 | 3.33 |
| | 5 | 42.28 | 3.11 | 13.61 | 32.20 | 3.32 | 9.71 | 24.21 | 3.63 | 6.67 | 15.94 | 3.93 | 4.05 | 15.94 | 4.90 | 3.25 | 15.94 | 4.90 | 3.25 |
| | 7 | 46.32 | 3.42 | 13.55 | 34.28 | 3.55 | 9.65 | 25.78 | 3.89 | 6.63 | 16.97 | 4.21 | 4.03 | 16.97 | 5.29 | 3.21 | 16.97 | 5.29 | 3.21 |
| | 10 | 48.00 | 3.60 | 13.34 | 36.24 | 3.78 | 9.60 | 27.25 | 4.13 | 6.60 | 17.94 | 4.48 | 4.00 | 17.94 | 5.69 | 3.15 | 17.94 | 5.69 | 3.15 |
| | 15 | 50.24 | 3.80 | 13.21 | 38.22 | 4.01 | 9.54 | 28.74 | 4.38 | 6.56 | 18.92 | 4.75 | 3.98 | 18.92 | 6.08 | 3.11 | 18.92 | 6.08 | 3.11 |
| | 20 | 51.98 | 3.94 | 13.19 | 40.95 | 4.30 | 9.52 | 30.79 | 4.71 | 6.54 | 20.27 | 5.10 | 3.97 | 20.27 | 6.65 | 3.05 | 20.27 | 6.65 | 3.05 |
| | 25 | 53.76 | 4.09 | 13.15 | 43.68 | 4.60 | 9.50 | 32.85 | 5.03 | 6.53 | 21.62 | 5.57 | 3.88 | 21.62 | 7.18 | 3.01 | 21.62 | 7.18 | 3.01 |
| | 30 | 55.21 | 4.21 | 13.11 | 46.43 | 4.90 | 9.47 | 34.92 | 5.36 | 6.51 | 22.98 | 5.95 | 3.86 | 22.98 | 7.71 | 2.98 | 22.98 | 7.71 | 2.98 |
| | 35 | 57.43 | 4.39 | 13.09 | 49.16 | 5.21 | 9.43 | 36.97 | 5.70 | 6.48 | 24.33 | 6.49 | 3.75 | 24.33 | 8.31 | 2.93 | 24.33 | 8.31 | 2.93 |
| | 40 | 59.31 | 4.56 | 13.02 | 51.89 | 5.52 | 9.40 | 39.02 | 6.04 | 6.46 | 25.69 | 7.02 | 3.66 | 25.69 | 8.83 | 2.91 | 25.69 | 8.83 | 2.91 |
| | 45 | 61.29 | 4.72 | 12.99 | 54.62 | 5.82 | 9.38 | 41.07 | 6.37 | 6.45 | 27.04 | 7.68 | 3.52 | 27.04 | 9.49 | 2.85 | 27.04 | 9.49 | 2.85 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 55 | -25 | 18.59 | 1.20 | 15.46 | 18.59 | 1.20 | 15.46 | 12.71 | 1.37 | 9.28 | 8.37 | 1.50 | 5.56 | 7.07 | 1.72 | 4.10 | 7.07 | 1.72 | 4.10 |
| | -20 | 21.80 | 1.41 | 15.44 | 21.80 | 1.41 | 15.44 | 14.90 | 1.65 | 9.01 | 9.81 | 1.79 | 5.47 | 8.95 | 2.21 | 4.05 | 8.95 | 2.21 | 4.05 |
| | -15 | 26.57 | 1.72 | 15.43 | 26.57 | 1.72 | 15.43 | 18.16 | 2.07 | 8.78 | 11.95 | 2.25 | 5.32 | 9.25 | 2.32 | 3.99 | 9.25 | 2.32 | 3.99 |
| | -10 | 31.07 | 2.19 | 14.18 | 31.07 | 2.19 | 14.18 | 18.94 | 2.19 | 8.65 | 12.47 | 2.38 | 5.23 | 9.15 | 2.38 | 3.84 | 9.15 | 2.38 | 3.84 |
| | -7 | 32.38 | 2.29 | 14.15 | 32.38 | 2.29 | 14.15 | 21.76 | 2.56 | 8.50 | 13.32 | 2.58 | 5.16 | 9.94 | 2.61 | 3.81 | 9.94 | 2.61 | 3.81 |
| | 0 | 35.80 | 2.33 | 15.35 | 33.83 | 2.65 | 12.78 | 22.43 | 3.11 | 7.22 | 13.77 | 2.82 | 4.88 | 10.83 | 2.89 | 3.75 | 10.83 | 2.89 | 3.75 |
| | 2 | 41.11 | 2.68 | 15.32 | 34.45 | 2.74 | 12.59 | 22.90 | 3.35 | 6.84 | 14.07 | 2.90 | 4.85 | 11.95 | 3.22 | 3.71 | 11.95 | 3.22 | 3.71 |
| | 5 | 44.14 | 2.90 | 15.23 | 36.53 | 2.96 | 12.35 | 23.71 | 3.48 | 6.81 | 14.61 | 3.22 | 4.53 | 12.18 | 3.36 | 3.62 | 12.18 | 3.36 | 3.62 |
| | 7 | 46.04 | 2.98 | 15.47 | 38.24 | 3.12 | 12.24 | 24.24 | 3.58 | 6.78 | 15.96 | 4.05 | 3.94 | 13.25 | 4.10 | 3.23 | 13.25 | 4.10 | 3.23 |
| | 10 | 47.16 | 3.12 | 15.10 | 39.44 | 3.30 | 11.95 | 25.15 | 3.72 | 6.76 | 16.55 | 4.27 | 3.88 | 14.95 | 4.53 | 3.30 | 14.95 | 4.53 | 3.30 |
| | 15 | 49.52 | 3.28 | 15.08 | 40.37 | 3.42 | 11.82 | 25.85 | 3.83 | 6.75 | 17.01 | 4.66 | 3.65 | 17.01 | 4.96 | 3.43 | 17.01 | 4.96 | 3.43 |
| | 20 | 51.37 | 3.43 | 14.97 | 41.37 | 3.84 | 10.78 | 28.10 | 4.18 | 6.72 | 18.50 | 5.21 | 3.55 | 18.50 | 5.46 | 3.39 | 18.50 | 5.46 | 3.39 |
| | 25 | 52.69 | 3.67 | 14.36 | 42.32 | 4.36 | 9.71 | 30.32 | 4.54 | 6.67 | 19.96 | 5.84 | 3.42 | 19.96 | 6.01 | 3.32 | 19.96 | 6.01 | 3.32 |
| | 30 | 53.77 | 3.79 | 14.18 | 43.34 | 4.65 | 9.32 | 32.59 | 4.90 | 6.65 | 21.45 | 6.44 | 3.33 | 21.45 | 6.62 | 3.24 | 21.45 | 6.62 | 3.24 |
| | 35 | 55.82 | 4.01 | 13.93 | 46.44 | 5.08 | 9.15 | 34.92 | 5.27 | 6.63 | 22.99 | 7.16 | 3.21 | 22.99 | 7.37 | 3.12 | 22.99 | 7.37 | 3.12 |
| | 40 | 57.63 | 4.22 | 13.65 | 49.54 | 5.54 | 8.95 | 37.25 | 5.68 | 6.56 | 24.52 | 7.71 | 3.18 | 24.52 | 7.96 | 3.08 | 24.52 | 7.96 | 3.08 |
| | 45 | 59.88 | 4.41 | 13.59 | 52.65 | 5.88 | 8.95 | 39.59 | 6.06 | 6.53 | 26.06 | 8.54 | 3.05 | 26.06 | 8.83 | 2.95 | 26.06 | 8.83 | 2.95 |

# R290 Climastar Series

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 60 | -25 | / | / | / | 13.27 | 0.94 | 14.15 | 9.98 | 1.08 | 9.26 | 6.57 | 1.12 | 5.86 | 6.20 | 1.42 | 4.36 | 6.20 | 1.42 | 4.36 |
| | -20 | 18.24 | 1.14 | 15.97 | 16.58 | 1.21 | 13.71 | 12.47 | 1.39 | 8.97 | 8.21 | 1.51 | 5.45 | 6.63 | 1.52 | 4.35 | 6.63 | 1.52 | 4.35 |
| | -15 | 21.88 | 1.37 | 15.94 | 19.89 | 1.47 | 13.55 | 14.96 | 1.69 | 8.87 | 9.85 | 1.83 | 5.38 | 7.96 | 1.86 | 4.28 | 7.96 | 1.86 | 4.28 |
| | -10 | 26.66 | 1.68 | 15.84 | 25.39 | 1.91 | 13.32 | 19.09 | 2.19 | 8.71 | 11.77 | 2.20 | 5.35 | 10.06 | 2.39 | 4.21 | 10.06 | 2.39 | 4.21 |
| | -7 | 28.14 | 1.80 | 15.63 | 26.80 | 2.14 | 12.51 | 20.15 | 2.34 | 8.60 | 12.27 | 2.35 | 5.22 | 10.87 | 2.62 | 4.15 | 10.87 | 2.62 | 4.15 |
| | 0 | 34.81 | 2.25 | 15.50 | 26.78 | 2.43 | 11.02 | 20.28 | 2.68 | 7.57 | 12.66 | 2.75 | 4.60 | 11.57 | 2.80 | 4.13 | 11.57 | 2.80 | 4.13 |
| | 2 | 36.40 | 2.36 | 15.41 | 26.96 | 2.58 | 10.43 | 20.43 | 2.85 | 7.17 | 13.35 | 2.87 | 4.65 | 12.35 | 3.05 | 4.05 | 12.35 | 3.05 | 4.05 |
| | 5 | 39.06 | 2.56 | 15.25 | 27.90 | 2.70 | 10.35 | 20.55 | 2.89 | 7.11 | 13.81 | 3.20 | 4.32 | 12.81 | 3.23 | 3.97 | 12.81 | 3.23 | 3.97 |
| | 7 | 42.92 | 2.84 | 15.13 | 29.12 | 2.84 | 10.25 | 21.90 | 3.11 | 7.05 | 14.41 | 3.37 | 4.28 | 13.41 | 3.40 | 3.95 | 13.41 | 3.40 | 3.95 |
| | 10 | 45.50 | 3.03 | 15.01 | 30.95 | 3.04 | 10.17 | 23.27 | 3.33 | 6.99 | 15.32 | 3.61 | 4.24 | 14.32 | 3.69 | 3.88 | 14.32 | 3.69 | 3.88 |
| | 15 | 46.72 | 3.12 | 14.98 | 31.78 | 3.15 | 10.09 | 23.90 | 3.45 | 6.94 | 15.73 | 3.74 | 4.21 | 14.73 | 3.85 | 3.83 | 14.73 | 3.85 | 3.83 |
| | 20 | 51.01 | 3.43 | 14.87 | 34.70 | 3.49 | 9.95 | 26.09 | 3.82 | 6.84 | 17.18 | 4.14 | 4.15 | 17.18 | 4.58 | 3.75 | 17.18 | 4.58 | 3.75 |
| | 25 | 55.30 | 3.74 | 14.79 | 37.62 | 3.81 | 9.87 | 28.29 | 4.17 | 6.78 | 18.62 | 4.55 | 4.09 | 18.62 | 5.02 | 3.71 | 18.62 | 5.02 | 3.71 |
| | 30 | 60.43 | 4.12 | 14.66 | 40.56 | 4.14 | 9.79 | 30.50 | 4.53 | 6.73 | 20.08 | 4.94 | 4.06 | 20.08 | 5.50 | 3.65 | 20.08 | 5.50 | 3.65 |
| | 35 | 64.79 | 4.43 | 14.63 | 43.48 | 4.47 | 9.72 | 32.70 | 4.89 | 6.68 | 21.52 | 5.34 | 4.03 | 21.52 | 5.96 | 3.61 | 21.52 | 5.96 | 3.61 |
| | 40 | 69.14 | 4.74 | 14.60 | 46.40 | 4.79 | 9.68 | 34.89 | 5.24 | 6.65 | 22.97 | 5.72 | 4.02 | 22.97 | 6.42 | 3.58 | 22.97 | 6.42 | 3.58 |
| | 45 | 73.49 | 5.10 | 14.41 | 49.32 | 5.52 | 8.93 | 37.09 | 6.04 | 6.14 | 24.41 | 6.59 | 3.71 | 24.41 | 6.94 | 3.52 | 24.41 | 6.94 | 3.52 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | 18.74 | 1.13 | 16.65 | 17.04 | 1.20 | 14.23 | 14.81 | 1.44 | 10.25 | 8.43 | 1.45 | 5.83 | 7.51 | 1.51 | 4.99 | 7.51 | 1.51 | 4.99 |
| | -10 | 22.89 | 1.38 | 16.56 | 21.80 | 1.56 | 13.98 | 16.65 | 1.73 | 9.61 | 10.79 | 1.90 | 5.69 | 9.72 | 2.00 | 4.85 | 9.72 | 2.00 | 4.85 |
| | -7 | 28.96 | 1.76 | 16.42 | 23.77 | 1.89 | 12.59 | 17.28 | 2.00 | 8.65 | 11.77 | 2.24 | 5.25 | 10.83 | 2.28 | 4.75 | 10.83 | 2.28 | 4.75 |
| | 0 | 30.97 | 1.90 | 16.28 | 23.82 | 2.11 | 11.30 | 17.91 | 2.31 | 7.77 | 11.79 | 2.50 | 4.71 | 11.79 | 2.50 | 4.71 | 11.79 | 2.50 | 4.71 |
| | 2 | 32.37 | 1.99 | 16.23 | 23.98 | 2.23 | 10.75 | 18.03 | 2.44 | 7.39 | 11.87 | 2.65 | 4.48 | 11.87 | 2.65 | 4.48 | 11.87 | 2.65 | 4.48 |
| | 5 | 36.16 | 2.23 | 16.20 | 25.83 | 2.41 | 10.72 | 19.42 | 2.64 | 7.37 | 12.79 | 2.86 | 4.47 | 12.79 | 2.86 | 4.47 | 12.79 | 2.86 | 4.47 |
| | 7 | 40.55 | 2.52 | 16.09 | 27.51 | 2.60 | 10.58 | 20.69 | 2.84 | 7.27 | 13.62 | 3.09 | 4.41 | 13.62 | 3.09 | 4.41 | 13.62 | 3.09 | 4.41 |
| | 10 | 41.84 | 2.63 | 15.89 | 28.46 | 2.70 | 10.55 | 21.40 | 2.95 | 7.25 | 14.09 | 3.20 | 4.40 | 14.09 | 3.20 | 4.40 | 14.09 | 3.20 | 4.40 |
| | 15 | 42.91 | 2.72 | 15.77 | 29.19 | 2.79 | 10.46 | 21.95 | 3.05 | 7.19 | 14.45 | 3.31 | 4.36 | 14.45 | 3.31 | 4.36 | 14.45 | 3.31 | 4.36 |
| | 20 | 47.08 | 2.99 | 15.75 | 32.03 | 3.09 | 10.37 | 24.09 | 3.38 | 7.13 | 15.85 | 3.66 | 4.33 | 15.85 | 3.66 | 4.33 | 15.85 | 3.66 | 4.33 |
| | 25 | 51.33 | 3.27 | 15.71 | 34.92 | 3.38 | 10.32 | 26.26 | 3.70 | 7.09 | 17.29 | 4.06 | 4.26 | 17.29 | 4.06 | 4.26 | 17.29 | 4.06 | 4.26 |
| | 30 | 56.29 | 3.59 | 15.66 | 37.78 | 3.70 | 10.21 | 28.41 | 4.05 | 7.02 | 18.70 | 4.41 | 4.24 | 18.70 | 4.41 | 4.24 | 18.70 | 4.41 | 4.24 |
| | 35 | 60.37 | 3.87 | 15.61 | 40.52 | 4.00 | 10.12 | 30.47 | 4.38 | 6.96 | 20.06 | 4.78 | 4.20 | 20.06 | 4.78 | 4.20 | 20.06 | 4.78 | 4.20 |
| | 40 | 64.46 | 4.14 | 15.58 | 43.26 | 4.29 | 10.09 | 32.53 | 4.69 | 6.94 | 21.41 | 5.11 | 4.19 | 21.41 | 5.11 | 4.19 | 21.41 | 5.11 | 4.19 |
| | 45 | 68.53 | 4.41 | 15.54 | 45.99 | 4.64 | 9.92 | 34.58 | 5.07 | 6.82 | 22.77 | 5.53 | 4.12 | 22.77 | 5.53 | 4.12 | 22.77 | 5.53 | 4.12 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | 21.11 | 1.26 | 16.76 | 20.10 | 1.39 | 14.42 | 15.12 | 1.53 | 9.91 | 9.95 | 1.65 | 6.02 | 8.04 | 1.70 | 4.72 | 8.04 | 1.73 | 4.65 |
| | -7 | 21.77 | 1.31 | 16.63 | 20.73 | 1.61 | 12.85 | 15.59 | 1.76 | 8.83 | 10.26 | 1.91 | 5.36 | 9.18 | 1.98 | 4.63 | 9.18 | 1.99 | 4.61 |
| | 0 | 27.34 | 1.65 | 16.53 | 21.03 | 1.85 | 11.39 | 15.81 | 2.02 | 7.83 | 10.41 | 2.27 | 4.59 | 10.41 | 2.27 | 4.59 | 10.41 | 2.27 | 4.59 |
| | 2 | 30.01 | 1.82 | 16.46 | 22.23 | 2.05 | 10.85 | 16.72 | 2.24 | 7.46 | 11.00 | 2.43 | 4.53 | 11.00 | 2.43 | 4.53 | 11.00 | 2.43 | 4.53 |
| | 5 | 33.95 | 2.07 | 16.44 | 24.25 | 2.25 | 10.79 | 18.24 | 2.46 | 7.42 | 12.00 | 2.67 | 4.50 | 12.00 | 2.67 | 4.50 | 12.00 | 2.67 | 4.50 |
| | 7 | 38.07 | 2.33 | 16.36 | 25.83 | 2.43 | 10.65 | 19.42 | 2.65 | 7.32 | 12.79 | 2.88 | 4.44 | 12.79 | 2.88 | 4.44 | 12.79 | 2.88 | 4.44 |
| | 10 | 40.01 | 2.47 | 16.22 | 27.22 | 2.57 | 10.59 | 20.47 | 2.81 | 7.28 | 13.47 | 3.05 | 4.42 | 13.47 | 3.05 | 4.42 | 13.47 | 3.05 | 4.42 |
| | 15 | 41.20 | 2.55 | 16.19 | 28.03 | 2.66 | 10.53 | 21.08 | 2.91 | 7.24 | 13.87 | 3.16 | 4.39 | 13.87 | 3.16 | 4.39 | 13.87 | 3.16 | 4.39 |
| | 20 | 43.16 | 2.67 | 16.14 | 29.36 | 2.80 | 10.47 | 22.08 | 3.07 | 7.20 | 14.53 | 3.33 | 4.37 | 14.53 | 3.33 | 4.37 | 14.53 | 3.33 | 4.37 |
| | 25 | 47.36 | 2.96 | 15.98 | 32.22 | 3.09 | 10.42 | 24.23 | 3.38 | 7.16 | 15.95 | 3.64 | 4.38 | 15.95 | 3.68 | 4.33 | 15.95 | 3.68 | 4.33 |
| | 30 | 52.15 | 3.29 | 15.86 | 35.00 | 3.38 | 10.36 | 26.32 | 3.70 | 7.12 | 17.33 | 4.03 | 4.30 | 17.33 | 4.03 | 4.30 | 17.33 | 4.03 | 4.30 |
| | 35 | 55.96 | 3.56 | 15.73 | 37.56 | 3.68 | 10.20 | 28.25 | 4.03 | 7.01 | 18.59 | 4.39 | 4.23 | 18.59 | 4.39 | 4.23 | 18.59 | 4.39 | 4.23 |
| | 40 | 59.78 | 3.89 | 15.38 | 40.12 | 3.95 | 10.15 | 30.17 | 4.32 | 6.98 | 19.86 | 4.72 | 4.21 | 19.86 | 4.72 | 4.21 | 19.86 | 4.72 | 4.21 |
| | 45 | 63.56 | 4.18 | 15.20 | 42.66 | 4.24 | 10.05 | 32.08 | 4.64 | 6.91 | 21.12 | 5.06 | 4.17 | 21.12 | 5.06 | 4.17 | 21.12 | 5.06 | 4.17 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | 23.45 | 1.36 | 17.19 | 18.04 | 1.54 | 11.72 | 13.57 | 1.68 | 8.06 | 8.93 | 1.83 | 4.89 | 8.93 | 1.83 | 4.89 | 8.93 | 1.83 | 4.89 |
| | 2 | 26.33 | 1.56 | 16.88 | 19.50 | 1.75 | 11.15 | 14.66 | 1.91 | 7.66 | 9.65 | 2.08 | 4.65 | 9.65 | 2.08 | 4.65 | 9.65 | 2.08 | 4.65 |
| | 5 | 30.84 | 1.84 | 16.77 | 22.03 | 1.99 | 11.06 | 16.57 | 2.18 | 7.60 | 10.90 | 2.36 | 4.61 | 10.90 | 2.36 | 4.61 | 10.90 | 2.36 | 4.61 |
| | 7 | 34.96 | 2.11 | 16.59 | 23.72 | 2.17 | 10.92 | 17.84 | 2.38 | 7.51 | 11.74 | 2.58 | 4.56 | 11.74 | 2.58 | 4.56 | 11.74 | 2.58 | 4.56 |
| | 10 | 36.54 | 2.20 | 16.59 | 24.86 | 2.31 | 10.75 | 18.69 | 2.53 | 7.39 | 12.31 | 2.74 | 4.48 | 12.31 | 2.74 | 4.48 | 12.31 | 2.74 | 4.48 |
| | 15 | 37.50 | 2.26 | 16.57 | 25.51 | 2.39 | 10.68 | 19.18 | 2.61 | 7.34 | 12.63 | 2.83 | 4.46 | 12.63 | 2.83 | 4.46 | 12.63 | 2.83 | 4.46 |
| | 20 | 39.23 | 2.38 | 16.49 | 26.69 | 2.53 | 10.57 | 20.07 | 2.76 | 7.27 | 13.21 | 3.00 | 4.41 | 13.21 | 3.00 | 4.41 | 13.21 | 3.00 | 4.41 |
| | 25 | 43.39 | 2.66 | 16.33 | 29.52 | 2.81 | 10.50 | 22.20 | 3.08 | 7.22 | 14.61 | 3.31 | 4.42 | 14.61 | 3.36 | 4.35 | 14.61 | 3.36 | 4.35 |
| | 30 | 48.01 | 2.95 | 16.25 | 32.22 | 3.09 | 10.42 | 24.23 | 3.38 | 7.16 | 15.95 | 3.69 | 4.32 | 15.95 | 3.69 | 4.32 | 15.95 | 3.69 | 4.32 |
| | 35 | 51.55 | 3.19 | 16.17 | 34.60 | 3.37 | 10.27 | 26.02 | 3.69 | 7.06 | 17.13 | 4.02 | 4.26 | 17.13 | 4.02 | 4.26 | 17.13 | 4.02 | 4.26 |
| | 40 | 55.10 | 3.48 | 15.82 | 36.98 | 3.62 | 10.22 | 27.81 | 3.96 | 7.02 | 18.31 | 4.32 | 4.24 | 18.31 | 4.32 | 4.24 | 18.31 | 4.32 | 4.24 |
| | 45 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

Abbreviations:

TWout: Outlet water temperature (°C )

DB: Dry-bulb temperature for Outdoor air temperature (°C )

HC: Total heating capacity (kW)

PI: Power input (kW)

# R290 Climastar Series

NE-F1000HCR5TINVM-USC

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 20 | -25 | 46.26 | 2.22 | 20.86 | 46.26 | 2.22 | 20.86 | 34.79 | 2.55 | 13.66 | 22.90 | 2.65 | 8.64 | 18.50 | 2.72 | 6.80 | 18.50 | 2.72 | 6.80 |
| | -20 | 53.88 | 2.65 | 20.34 | 53.88 | 2.65 | 20.34 | 40.52 | 3.04 | 13.31 | 26.67 | 3.25 | 8.20 | 21.55 | 3.30 | 6.54 | 21.55 | 3.30 | 6.54 |
| | -15 | 61.54 | 3.06 | 20.10 | 61.54 | 3.06 | 20.10 | 46.28 | 3.52 | 13.16 | 30.46 | 3.81 | 7.99 | 24.62 | 3.91 | 6.30 | 24.62 | 3.91 | 6.30 |
| | -10 | 67.72 | 3.56 | 19.02 | 67.72 | 3.56 | 19.02 | 50.93 | 4.12 | 12.36 | 33.52 | 4.64 | 7.23 | 29.08 | 4.85 | 6.00 | 29.08 | 4.85 | 6.00 |
| | -7 | 68.85 | 3.70 | 18.62 | 68.85 | 3.95 | 17.42 | 51.78 | 4.32 | 11.97 | 34.08 | 4.69 | 7.27 | 30.50 | 5.17 | 5.90 | 30.50 | 5.17 | 5.90 |
| | 0 | 73.79 | 4.04 | 18.28 | 70.28 | 4.90 | 14.34 | 52.85 | 5.36 | 9.86 | 34.79 | 5.82 | 5.98 | 32.99 | 6.07 | 5.43 | 32.99 | 6.07 | 5.43 |
| | 2 | 82.92 | 4.63 | 17.92 | 72.11 | 5.65 | 12.76 | 54.23 | 6.18 | 8.77 | 35.69 | 6.70 | 5.32 | 35.69 | 6.70 | 5.32 | 35.69 | 6.70 | 5.32 |
| | 5 | 87.33 | 4.92 | 17.74 | 75.94 | 6.18 | 12.29 | 57.10 | 6.76 | 8.45 | 37.59 | 7.33 | 5.13 | 37.59 | 7.33 | 5.13 | 37.59 | 7.33 | 5.13 |
| | 7 | 91.73 | 5.25 | 17.48 | 79.76 | 6.59 | 12.10 | 59.98 | 7.21 | 8.32 | 39.48 | 7.82 | 5.05 | 39.48 | 7.82 | 5.05 | 39.48 | 7.82 | 5.05 |
| | 10 | 100.31 | 5.86 | 17.12 | 83.59 | 7.24 | 11.55 | 62.86 | 7.92 | 7.94 | 41.38 | 8.59 | 4.82 | 41.38 | 8.59 | 4.82 | 41.38 | 8.59 | 4.82 |
| | 15 | 104.88 | 6.19 | 16.94 | 87.40 | 7.77 | 11.25 | 65.72 | 8.50 | 7.73 | 43.26 | 9.22 | 4.69 | 43.26 | 9.22 | 4.69 | 43.26 | 9.22 | 4.69 |
| | 20 | 114.12 | 6.85 | 16.66 | 95.10 | 8.75 | 10.87 | 71.52 | 9.57 | 7.47 | 47.07 | 10.38 | 4.53 | 47.07 | 10.38 | 4.53 | 47.07 | 10.38 | 4.53 |
| | 25 | 123.36 | 7.60 | 16.24 | 102.80 | 9.73 | 10.57 | 77.31 | 10.65 | 7.26 | 50.89 | 11.45 | 4.44 | 50.89 | 11.45 | 4.44 | 50.89 | 11.45 | 4.44 |
| | 30 | 138.10 | 8.71 | 15.86 | 110.48 | 10.70 | 10.33 | 83.08 | 11.71 | 7.10 | 54.69 | 12.76 | 4.28 | 54.69 | 12.76 | 4.28 | 54.69 | 12.76 | 4.28 |
| | 35 | 147.73 | 9.67 | 15.28 | 118.18 | 11.68 | 10.12 | 88.87 | 12.78 | 6.95 | 58.50 | 13.93 | 4.20 | 58.50 | 13.93 | 4.20 | 58.50 | 13.93 | 4.20 |
| | 40 | 163.64 | 11.13 | 14.70 | 125.88 | 12.66 | 9.94 | 94.66 | 13.85 | 6.83 | 62.31 | 15.10 | 4.13 | 62.31 | 15.10 | 4.13 | 62.31 | 15.10 | 4.13 |
| | 45 | 173.65 | 12.32 | 14.10 | 133.58 | 13.64 | 9.79 | 100.45 | 14.92 | 6.73 | 66.12 | 16.27 | 4.06 | 66.12 | 16.27 | 4.06 | 66.12 | 16.27 | 4.06 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 25 | -25 | 45.48 | 2.17 | 21.00 | 45.48 | 2.17 | 21.00 | 34.20 | 2.49 | 13.75 | 22.51 | 2.52 | 8.94 | 20.10 | 2.88 | 6.98 | 20.10 | 2.88 | 6.98 |
| | -20 | 52.86 | 2.53 | 20.88 | 52.86 | 2.53 | 20.88 | 39.75 | 2.91 | 13.67 | 26.17 | 3.15 | 8.29 | 23.14 | 3.45 | 6.70 | 23.14 | 3.45 | 6.70 |
| | -15 | 60.27 | 2.95 | 20.44 | 60.27 | 2.95 | 20.44 | 45.32 | 3.39 | 13.38 | 29.83 | 3.67 | 8.12 | 24.11 | 3.69 | 6.54 | 24.11 | 3.69 | 6.54 |
| | -10 | 63.14 | 3.15 | 20.04 | 63.14 | 3.15 | 20.04 | 47.48 | 3.60 | 13.18 | 31.25 | 3.92 | 7.98 | 25.26 | 3.97 | 6.36 | 25.26 | 3.97 | 6.36 |
| | -7 | 67.64 | 3.69 | 18.32 | 67.64 | 3.69 | 18.32 | 50.87 | 4.04 | 12.59 | 33.48 | 4.38 | 7.64 | 29.96 | 4.83 | 6.20 | 29.96 | 4.83 | 6.20 |
| | 0 | 69.70 | 4.56 | 15.29 | 69.70 | 4.56 | 15.29 | 52.41 | 4.99 | 10.51 | 34.50 | 5.41 | 6.38 | 32.72 | 5.65 | 5.79 | 32.72 | 5.65 | 5.79 |
| | 2 | 70.32 | 5.13 | 13.71 | 70.32 | 5.13 | 13.71 | 52.88 | 5.61 | 9.42 | 34.81 | 6.09 | 5.72 | 34.81 | 6.09 | 5.72 | 34.81 | 6.09 | 5.72 |
| | 5 | 74.24 | 5.62 | 13.22 | 74.24 | 5.62 | 13.22 | 55.83 | 6.14 | 9.09 | 36.75 | 6.66 | 5.52 | 36.75 | 6.66 | 5.52 | 36.75 | 6.66 | 5.52 |
| | 7 | 78.17 | 5.98 | 13.07 | 78.17 | 5.98 | 13.07 | 58.78 | 6.54 | 8.98 | 38.69 | 7.10 | 5.45 | 38.69 | 7.10 | 5.45 | 38.69 | 7.10 | 5.45 |
| | 10 | 82.09 | 6.59 | 12.47 | 82.09 | 6.59 | 12.47 | 61.73 | 7.20 | 8.57 | 40.64 | 7.81 | 5.20 | 40.64 | 7.81 | 5.20 | 40.64 | 7.81 | 5.20 |
| | 15 | 86.01 | 7.08 | 12.16 | 86.01 | 7.08 | 12.16 | 64.68 | 7.74 | 8.36 | 42.57 | 8.39 | 5.07 | 42.57 | 8.39 | 5.07 | 42.57 | 8.39 | 5.07 |
| | 20 | 93.27 | 7.91 | 11.80 | 93.27 | 7.91 | 11.80 | 70.14 | 8.65 | 8.11 | 46.17 | 9.38 | 4.92 | 46.17 | 9.38 | 4.92 | 46.17 | 9.38 | 4.92 |
| | 25 | 100.53 | 8.74 | 11.51 | 100.53 | 8.74 | 11.51 | 75.60 | 9.56 | 7.91 | 49.76 | 10.28 | 4.84 | 49.76 | 10.28 | 4.84 | 49.76 | 10.28 | 4.84 |
| | 30 | 107.78 | 9.56 | 11.27 | 107.78 | 9.56 | 11.27 | 81.05 | 10.46 | 7.75 | 53.35 | 11.40 | 4.68 | 53.35 | 11.40 | 4.68 | 53.35 | 11.40 | 4.68 |
| | 35 | 115.04 | 10.39 | 11.07 | 115.04 | 10.39 | 11.07 | 86.51 | 11.37 | 7.61 | 56.94 | 12.40 | 4.59 | 56.94 | 12.40 | 4.59 | 56.94 | 12.40 | 4.59 |
| | 40 | 122.30 | 11.22 | 10.90 | 122.30 | 11.22 | 10.90 | 91.97 | 12.28 | 7.49 | 60.54 | 13.39 | 4.52 | 60.54 | 13.39 | 4.52 | 60.54 | 13.39 | 4.52 |
| | 45 | 129.56 | 12.05 | 10.75 | 129.56 | 12.05 | 10.75 | 97.43 | 13.18 | 7.39 | 64.13 | 14.38 | 4.46 | 64.13 | 14.38 | 4.46 | 64.13 | 14.38 | 4.46 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | | 25% | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 30 | -25 | 44.70 | 1.98 | 22.54 | 44.70 | 1.98 | 22.54 | 33.61 | 2.28 | 14.75 | 22.13 | 2.45 | 9.04 | 19.46 | 2.55 | 7.64 | 19.46 | 2.55 | 7.64 |
| | -20 | 51.84 | 2.32 | 22.38 | 51.84 | 2.32 | 22.38 | 38.98 | 2.66 | 14.65 | 25.66 | 2.89 | 8.89 | 21.48 | 2.91 | 7.38 | 21.48 | 2.91 | 7.38 |
| | -15 | 59.00 | 2.65 | 22.30 | 59.00 | 2.65 | 22.30 | 44.37 | 3.04 | 14.59 | 29.21 | 3.30 | 8.86 | 25.60 | 3.51 | 7.30 | 25.60 | 3.51 | 7.30 |
| | -10 | 64.56 | 2.96 | 21.84 | 64.56 | 2.96 | 21.84 | 48.55 | 3.40 | 14.30 | 31.96 | 3.74 | 8.54 | 26.84 | 3.83 | 7.00 | 26.84 | 3.83 | 7.00 |
| | -7 | 67.12 | 3.38 | 19.88 | 67.12 | 3.38 | 19.88 | 50.47 | 3.69 | 13.66 | 33.22 | 4.01 | 8.29 | 29.73 | 4.30 | 6.91 | 29.73 | 4.30 | 6.91 |
| | 0 | 78.52 | 3.97 | 19.76 | 68.28 | 4.15 | 16.47 | 51.35 | 4.54 | 11.32 | 33.80 | 4.92 | 6.87 | 32.05 | 5.14 | 6.24 | 32.05 | 5.14 | 6.24 |
| | 2 | 85.66 | 4.43 | 19.32 | 68.52 | 4.61 | 14.86 | 51.53 | 5.04 | 10.22 | 33.92 | 5.47 | 6.20 | 33.92 | 5.47 | 6.20 | 33.92 | 5.47 | 6.20 |
| | 5 | 90.69 | 4.75 | 19.10 | 72.55 | 5.05 | 14.37 | 54.56 | 5.53 | 9.87 | 35.91 | 5.99 | 5.99 | 35.91 | 5.99 | 5.99 | 35.91 | 5.99 | 5.99 |
| | 7 | 102.15 | 5.42 | 18.84 | 76.57 | 5.49 | 13.95 | 57.58 | 6.01 | 9.59 | 37.90 | 6.51 | 5.82 | 37.90 | 6.51 | 5.82 | 37.90 | 6.51 | 5.82 |
| | 10 | 107.19 | 5.72 | 18.76 | 80.60 | 5.93 | 13.59 | 60.61 | 6.49 | 9.34 | 39.90 | 7.04 | 5.67 | 39.90 | 7.04 | 5.67 | 39.90 | 7.04 | 5.67 |
| | 15 | 112.54 | 6.05 | 18.60 | 84.62 | 6.38 | 13.26 | 63.63 | 6.98 | 9.12 | 41.89 | 7.57 | 5.53 | 41.89 | 7.57 | 5.53 | 41.89 | 7.57 | 5.53 |
| | 20 | 121.62 | 6.58 | 18.48 | 91.44 | 7.06 | 12.95 | 68.76 | 7.72 | 8.90 | 45.26 | 8.38 | 5.40 | 45.26 | 8.38 | 5.40 | 45.26 | 8.38 | 5.40 |
| | 25 | 130.69 | 7.16 | 18.26 | 98.26 | 7.74 | 12.70 | 73.89 | 8.47 | 8.73 | 48.64 | 9.11 | 5.34 | 48.64 | 9.11 | 5.34 | 48.64 | 9.11 | 5.34 |
| | 30 | 141.86 | 7.84 | 18.10 | 105.08 | 8.42 | 12.48 | 79.02 | 9.21 | 8.58 | 52.01 | 10.04 | 5.18 | 52.01 | 10.04 | 5.18 | 52.01 | 10.04 | 5.18 |
| | 35 | 151.07 | 8.47 | 17.83 | 111.90 | 9.10 | 12.30 | 84.15 | 9.96 | 8.45 | 55.39 | 10.86 | 5.10 | 55.39 | 10.86 | 5.10 | 55.39 | 10.86 | 5.10 |
| | 40 | 160.27 | 9.11 | 17.60 | 118.72 | 9.78 | 12.14 | 89.28 | 10.70 | 8.34 | 58.77 | 11.67 | 5.04 | 58.77 | 11.67 | 5.04 | 58.77 | 11.67 | 5.04 |
| | 45 | 169.48 | 9.74 | 17.40 | 125.54 | 10.46 | 12.00 | 94.41 | 11.44 | 8.25 | 62.14 | 12.48 | 4.98 | 62.14 | 12.48 | 4.98 | 62.14 | 12.48 | 4.98 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | | 25% | | Minimum | | |
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 35 | -25 | 43.92 | 1.81 | 24.24 | 43.92 | 1.81 | 24.24 | 33.03 | 1.97 | 16.80 | 21.74 | 2.27 | 9.58 | 19.46 | 2.31 | 8.44 | 19.46 | 2.31 | 8.44 |
| | -20 | 50.82 | 2.12 | 23.92 | 50.82 | 2.12 | 23.92 | 38.22 | 2.31 | 16.52 | 25.16 | 2.65 | 9.50 | 23.00 | 2.74 | 8.40 | 23.00 | 2.74 | 8.40 |
| | -15 | 57.73 | 2.43 | 23.76 | 57.73 | 2.43 | 23.76 | 43.41 | 2.66 | 16.30 | 28.58 | 3.03 | 9.44 | 25.50 | 3.07 | 8.30 | 25.50 | 3.07 | 8.30 |
| | -10 | 64.43 | 2.79 | 23.12 | 64.43 | 2.79 | 23.12 | 48.16 | 2.98 | 16.14 | 31.10 | 3.38 | 9.20 | 28.24 | 3.44 | 8.20 | 28.24 | 3.44 | 8.20 |
| | -7 | 65.42 | 2.89 | 22.66 | 65.42 | 3.02 | 21.68 | 49.20 | 3.30 | 14.90 | 32.38 | 3.58 | 9.04 | 29.94 | 3.68 | 8.14 | 29.94 | 3.68 | 8.14 |
| | 0 | 74.74 | 3.32 | 22.48 | 66.74 | 3.35 | 19.90 | 50.19 | 3.67 | 13.68 | 33.04 | 3.98 | 8.30 | 31.33 | 4.16 | 7.54 | 31.33 | 4.16 | 7.54 |
| | 2 | 90.14 | 3.80 | 23.72 | 69.34 | 3.94 | 17.60 | 52.14 | 4.31 | 12.10 | 34.32 | 4.67 | 7.34 | 34.32 | 4.67 | 7.34 | 34.32 | 4.67 | 7.34 |
| | 5 | 92.11 | 3.92 | 23.50 | 70.85 | 4.32 | 16.40 | 53.28 | 4.73 | 11.27 | 35.07 | 5.13 | 6.84 | 35.07 | 5.13 | 6.84 | 35.07 | 5.13 | 6.84 |
| | 7 | 104.00 | 4.23 | 24.56 | 74.98 | 5.00 | 15.00 | 56.38 | 5.47 | 10.31 | 37.24 | 5.82 | 6.40 | 37.24 | 5.82 | 6.40 | 37.24 | 5.82 | 6.40 |
| | 10 | 105.20 | 4.59 | 22.94 | 79.10 | 5.28 | 14.99 | 59.48 | 5.83 | 10.20 | 39.15 | 6.26 | 6.26 | 39.15 | 6.26 | 6.26 | 39.15 | 6.26 | 6.26 |
| | 15 | 110.70 | 5.13 | 21.56 | 83.23 | 5.69 | 14.64 | 62.59 | 6.22 | 10.06 | 41.20 | 6.75 | 6.11 | 41.20 | 6.75 | 6.11 | 41.20 | 6.75 | 6.11 |
| | 20 | 119.18 | 5.60 | 21.28 | 89.61 | 6.22 | 14.42 | 67.39 | 6.80 | 9.91 | 44.36 | 7.37 | 6.02 | 44.36 | 7.37 | 6.02 | 44.36 | 7.37 | 6.02 |
| | 25 | 127.67 | 6.19 | 20.62 | 95.99 | 6.74 | 14.23 | 72.18 | 7.38 | 9.78 | 47.52 | 7.94 | 5.98 | 47.52 | 7.94 | 5.98 | 47.52 | 7.94 | 5.98 |
| | 30 | 138.21 | 6.78 | 20.39 | 102.38 | 7.28 | 14.06 | 76.99 | 7.96 | 9.67 | 50.68 | 8.68 | 5.84 | 50.68 | 8.68 | 5.84 | 50.68 | 8.68 | 5.84 |
| | 35 | 146.83 | 7.27 | 20.19 | 108.76 | 7.81 | 13.93 | 81.79 | 8.54 | 9.57 | 53.84 | 9.32 | 5.78 | 53.84 | 9.32 | 5.78 | 53.84 | 9.32 | 5.78 |
| | 40 | 155.44 | 7.76 | 20.02 | 115.14 | 8.34 | 13.81 | 86.59 | 9.12 | 9.49 | 56.99 | 9.95 | 5.73 | 56.99 | 9.95 | 5.73 | 56.99 | 9.95 | 5.73 |
| | 45 | 164.05 | 8.26 | 19.87 | 121.52 | 8.87 | 13.70 | 91.38 | 9.70 | 9.42 | 60.15 | 10.58 | 5.68 | 60.15 | 10.58 | 5.68 | 60.15 | 10.58 | 5.68 |

# R290 Climastar Series

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | | 25% | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 40 | -25 | 43.14 | 1.74 | 24.78 | 43.14 | 1.74 | 24.78 | 32.44 | 1.88 | 17.22 | 21.35 | 2.28 | 9.38 | 18.66 | 2.39 | 7.80 | 18.66 | 2.39 | 7.80 |
| | -20 | 49.80 | 2.03 | 24.54 | 49.80 | 2.03 | 24.54 | 37.45 | 2.20 | 17.06 | 24.65 | 2.70 | 9.14 | 21.92 | 2.82 | 7.76 | 21.92 | 2.82 | 7.76 |
| | -15 | 56.46 | 2.31 | 24.40 | 56.46 | 2.31 | 24.40 | 42.46 | 2.52 | 16.88 | 27.95 | 3.12 | 8.96 | 24.58 | 3.19 | 7.70 | 24.58 | 3.19 | 7.70 |
| | -10 | 63.44 | 2.62 | 24.24 | 63.44 | 2.62 | 24.24 | 47.71 | 2.86 | 16.66 | 31.40 | 3.60 | 8.72 | 27.38 | 3.68 | 7.44 | 27.38 | 3.68 | 7.44 |
| | -7 | 63.88 | 2.66 | 23.98 | 63.88 | 2.66 | 23.98 | 48.04 | 2.91 | 16.48 | 31.62 | 3.84 | 8.24 | 28.30 | 3.88 | 7.30 | 28.30 | 3.88 | 7.30 |
| | 0 | 80.63 | 3.40 | 23.72 | 64.50 | 3.45 | 18.70 | 48.50 | 3.77 | 12.85 | 31.93 | 4.05 | 7.88 | 30.28 | 4.21 | 7.20 | 30.28 | 4.21 | 7.20 |
| | 2 | 84.42 | 3.60 | 23.48 | 64.94 | 3.66 | 17.72 | 48.83 | 4.01 | 12.18 | 32.15 | 4.35 | 7.39 | 32.15 | 4.40 | 7.30 | 32.15 | 4.40 | 7.30 |
| | 5 | 89.91 | 3.85 | 23.34 | 69.16 | 3.92 | 17.64 | 52.01 | 4.29 | 12.13 | 34.23 | 4.65 | 7.36 | 34.23 | 4.65 | 7.36 | 34.23 | 4.65 | 7.36 |
| | 7 | 100.44 | 4.35 | 23.10 | 73.38 | 4.36 | 16.84 | 55.18 | 4.77 | 11.57 | 36.32 | 5.07 | 7.16 | 36.32 | 5.07 | 7.17 | 36.32 | 5.07 | 7.17 |
| | 10 | 105.92 | 4.61 | 22.96 | 77.60 | 4.62 | 16.80 | 58.36 | 5.05 | 11.54 | 38.41 | 5.48 | 7.01 | 38.41 | 5.48 | 7.01 | 38.41 | 5.48 | 7.01 |
| | 15 | 111.71 | 4.91 | 22.74 | 81.84 | 4.99 | 16.40 | 61.54 | 5.46 | 11.27 | 40.51 | 5.92 | 6.84 | 40.51 | 5.92 | 6.84 | 40.51 | 5.92 | 6.84 |
| | 20 | 119.82 | 5.31 | 22.58 | 87.78 | 5.37 | 16.35 | 66.01 | 5.88 | 11.24 | 43.45 | 6.37 | 6.82 | 43.45 | 6.37 | 6.82 | 43.45 | 6.37 | 6.82 |
| | 25 | 127.93 | 5.73 | 22.34 | 93.72 | 5.75 | 16.30 | 70.48 | 6.29 | 11.20 | 46.39 | 6.77 | 6.85 | 46.39 | 6.77 | 6.85 | 46.39 | 6.77 | 6.85 |
| | 30 | 138.06 | 6.25 | 22.08 | 99.68 | 6.31 | 15.80 | 74.96 | 6.90 | 10.86 | 49.34 | 7.32 | 6.74 | 49.34 | 7.32 | 6.74 | 49.34 | 7.32 | 6.74 |
| | 35 | 146.28 | 6.68 | 21.90 | 105.62 | 6.83 | 15.46 | 79.43 | 7.47 | 10.63 | 52.28 | 7.78 | 6.72 | 52.28 | 7.78 | 6.72 | 52.28 | 7.78 | 6.72 |
| | 40 | 154.51 | 7.13 | 21.66 | 111.56 | 7.31 | 15.26 | 83.89 | 8.00 | 10.49 | 55.22 | 8.23 | 6.71 | 55.22 | 8.23 | 6.71 | 55.22 | 8.23 | 6.71 |
| | 45 | 162.74 | 7.79 | 20.90 | 117.50 | 7.83 | 15.00 | 88.36 | 8.57 | 10.31 | 58.16 | 8.68 | 6.70 | 58.16 | 8.68 | 6.70 | 58.16 | 8.68 | 6.70 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 45 | -25 | 42.10 | 1.50 | 27.98 | 42.10 | 1.50 | 27.98 | 31.66 | 1.93 | 16.40 | 20.84 | 2.09 | 9.96 | 16.84 | 2.31 | 7.30 | 16.84 | 2.31 | 7.30 |
| | -20 | 47.96 | 1.74 | 27.60 | 47.96 | 1.74 | 27.60 | 36.07 | 2.22 | 16.24 | 23.74 | 2.59 | 9.16 | 19.18 | 2.80 | 6.86 | 19.18 | 2.80 | 6.86 |
| | -15 | 53.82 | 2.20 | 24.44 | 53.82 | 2.20 | 24.44 | 40.47 | 2.55 | 15.90 | 26.64 | 2.93 | 9.10 | 21.53 | 3.35 | 6.42 | 21.53 | 3.35 | 6.42 |
| | -10 | 57.30 | 2.39 | 23.96 | 57.30 | 2.39 | 23.96 | 43.09 | 2.80 | 15.38 | 28.36 | 3.37 | 8.42 | 22.92 | 3.64 | 6.30 | 22.92 | 3.64 | 6.30 |
| | -7 | 62.24 | 2.67 | 23.30 | 62.24 | 2.67 | 23.30 | 46.80 | 3.19 | 14.66 | 30.81 | 3.82 | 8.06 | 27.57 | 4.55 | 6.06 | 27.57 | 4.55 | 6.06 |
| | 0 | 78.33 | 2.96 | 26.46 | 62.66 | 3.11 | 20.17 | 47.12 | 3.40 | 13.86 | 31.02 | 3.90 | 7.96 | 29.41 | 4.99 | 5.90 | 29.41 | 4.99 | 5.90 |
| | 2 | 81.68 | 3.10 | 26.34 | 62.83 | 3.34 | 18.81 | 47.25 | 3.65 | 12.93 | 31.10 | 3.96 | 7.85 | 31.10 | 5.34 | 5.82 | 31.10 | 5.34 | 5.82 |
| | 5 | 89.57 | 3.41 | 26.30 | 68.90 | 3.72 | 18.51 | 51.81 | 4.07 | 12.72 | 34.11 | 4.42 | 7.72 | 34.11 | 5.92 | 5.76 | 34.11 | 5.92 | 5.76 |
| | 7 | 99.62 | 3.80 | 26.20 | 70.97 | 3.86 | 18.40 | 53.37 | 4.26 | 12.54 | 35.13 | 4.62 | 7.61 | 35.13 | 6.25 | 5.62 | 35.13 | 6.25 | 5.62 |
| | 10 | 105.06 | 4.06 | 25.86 | 75.04 | 4.17 | 18.02 | 56.43 | 4.56 | 12.38 | 37.14 | 4.94 | 7.52 | 37.14 | 6.68 | 5.56 | 37.14 | 6.68 | 5.56 |
| | 15 | 110.80 | 4.40 | 25.20 | 79.14 | 4.45 | 17.80 | 59.51 | 4.86 | 12.24 | 39.17 | 5.27 | 7.43 | 39.17 | 7.12 | 5.50 | 39.17 | 7.12 | 5.50 |
| | 20 | 118.78 | 4.76 | 24.96 | 84.84 | 4.80 | 17.69 | 63.80 | 5.25 | 12.16 | 42.00 | 5.69 | 7.38 | 42.00 | 7.69 | 5.46 | 42.00 | 7.69 | 5.46 |
| | 25 | 126.76 | 5.10 | 24.86 | 90.54 | 5.15 | 17.60 | 68.09 | 5.63 | 12.10 | 44.82 | 6.14 | 7.30 | 44.82 | 8.79 | 5.10 | 44.82 | 8.79 | 5.10 |
| | 30 | 135.86 | 5.48 | 24.78 | 96.27 | 5.50 | 17.50 | 72.40 | 6.02 | 12.03 | 47.65 | 6.56 | 7.26 | 47.65 | 9.49 | 5.02 | 47.65 | 9.49 | 5.02 |
| | 35 | 144.00 | 5.83 | 24.68 | 101.97 | 5.85 | 17.43 | 76.68 | 6.40 | 11.98 | 50.48 | 6.98 | 7.23 | 50.48 | 10.34 | 4.88 | 50.48 | 10.34 | 4.88 |
| | 40 | 152.89 | 6.22 | 24.60 | 107.67 | 6.77 | 15.90 | 80.97 | 7.41 | 10.93 | 53.30 | 8.08 | 6.60 | 53.30 | 11.49 | 4.64 | 53.30 | 11.49 | 4.64 |
| | 45 | 160.99 | 6.59 | 24.42 | 113.37 | 7.41 | 15.31 | 85.25 | 8.10 | 10.52 | 56.12 | 8.83 | 6.35 | 56.12 | 12.25 | 4.58 | 56.12 | 12.25 | 4.58 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 50 | -25 | 41.06 | 1.54 | 26.64 | 41.06 | 1.54 | 26.64 | 30.88 | 1.77 | 17.44 | 20.32 | 1.99 | 10.20 | 16.42 | 2.26 | 7.26 | 16.42 | 2.26 | 7.26 |
| | -20 | 46.12 | 1.79 | 25.78 | 46.12 | 1.79 | 25.78 | 34.68 | 2.06 | 16.88 | 22.83 | 2.23 | 10.24 | 18.45 | 2.56 | 7.22 | 18.45 | 2.56 | 7.22 |
| | -15 | 50.28 | 1.99 | 25.30 | 50.28 | 1.99 | 25.30 | 38.83 | 2.34 | 16.56 | 25.56 | 2.54 | 10.05 | 20.66 | 2.93 | 7.06 | 20.66 | 2.93 | 7.06 |
| | -10 | 54.28 | 2.24 | 24.22 | 54.28 | 2.24 | 24.22 | 46.95 | 2.82 | 16.65 | 30.91 | 3.06 | 10.10 | 24.98 | 3.63 | 6.88 | 24.98 | 3.63 | 6.88 |
| | -7 | 58.26 | 2.49 | 23.36 | 58.26 | 2.49 | 23.36 | 47.50 | 2.96 | 16.06 | 31.26 | 3.21 | 9.75 | 27.98 | 4.09 | 6.84 | 27.98 | 4.09 | 6.84 |
| | 0 | 74.46 | 2.69 | 27.70 | 63.32 | 3.06 | 20.68 | 47.62 | 3.35 | 14.21 | 31.34 | 3.63 | 8.63 | 29.72 | 4.44 | 6.70 | 29.72 | 4.44 | 6.70 |
| | 2 | 81.50 | 2.98 | 27.32 | 63.86 | 3.26 | 19.58 | 48.02 | 3.57 | 13.46 | 31.61 | 3.87 | 8.17 | 31.61 | 4.75 | 6.66 | 31.61 | 4.75 | 6.66 |
| | 5 | 84.56 | 3.11 | 27.22 | 64.40 | 3.32 | 19.42 | 48.43 | 3.63 | 13.35 | 31.88 | 3.93 | 8.10 | 31.88 | 4.90 | 6.50 | 31.88 | 4.90 | 6.50 |
| | 7 | 92.64 | 3.42 | 27.10 | 68.56 | 3.55 | 19.30 | 51.56 | 3.89 | 13.27 | 33.94 | 4.21 | 8.05 | 33.94 | 5.29 | 6.42 | 33.94 | 5.29 | 6.42 |
| | 10 | 96.01 | 3.60 | 26.68 | 72.48 | 3.78 | 19.20 | 54.50 | 4.13 | 13.20 | 35.88 | 4.48 | 8.01 | 35.88 | 5.69 | 6.30 | 35.88 | 5.69 | 6.30 |
| | 15 | 100.48 | 3.80 | 26.42 | 76.44 | 4.01 | 19.08 | 57.48 | 4.38 | 13.11 | 37.84 | 4.75 | 7.96 | 37.84 | 6.08 | 6.22 | 37.84 | 6.08 | 6.22 |
| | 20 | 103.96 | 3.94 | 26.38 | 81.90 | 4.30 | 19.04 | 61.59 | 4.71 | 13.09 | 40.54 | 5.10 | 7.94 | 40.54 | 6.65 | 6.10 | 40.54 | 6.65 | 6.10 |
| | 25 | 107.52 | 4.09 | 26.30 | 87.36 | 4.60 | 19.00 | 65.69 | 5.03 | 13.06 | 43.24 | 5.57 | 7.76 | 43.24 | 7.18 | 6.02 | 43.24 | 7.18 | 6.02 |
| | 30 | 110.42 | 4.21 | 26.22 | 92.86 | 4.90 | 18.94 | 69.83 | 5.36 | 13.02 | 45.97 | 5.95 | 7.72 | 45.97 | 7.71 | 5.96 | 45.97 | 7.71 | 5.96 |
| | 35 | 114.86 | 4.39 | 26.18 | 98.32 | 5.21 | 18.86 | 73.94 | 5.70 | 12.96 | 48.67 | 6.49 | 7.50 | 48.67 | 8.31 | 5.86 | 48.67 | 8.31 | 5.86 |
| | 40 | 118.62 | 4.56 | 26.04 | 103.78 | 5.52 | 18.80 | 78.04 | 6.04 | 12.92 | 51.37 | 7.02 | 7.32 | 51.37 | 8.83 | 5.82 | 51.37 | 8.83 | 5.82 |
| | 45 | 122.58 | 4.72 | 25.98 | 109.24 | 5.82 | 18.77 | 82.15 | 6.37 | 12.90 | 54.07 | 7.68 | 7.04 | 54.07 | 9.49 | 5.70 | 54.07 | 9.49 | 5.70 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 55 | -25 | 37.18 | 1.20 | 30.92 | 37.18 | 1.20 | 30.92 | 25.42 | 1.37 | 18.56 | 16.73 | 1.50 | 11.12 | 14.14 | 1.72 | 8.20 | 14.14 | 1.72 | 8.20 |
| | -20 | 43.60 | 1.41 | 30.88 | 43.60 | 1.41 | 30.88 | 29.81 | 1.65 | 18.02 | 19.62 | 1.79 | 10.94 | 17.90 | 2.21 | 8.10 | 17.90 | 2.21 | 8.10 |
| | -15 | 53.13 | 1.72 | 30.86 | 53.13 | 1.72 | 30.86 | 36.32 | 2.07 | 17.56 | 23.91 | 2.25 | 10.64 | 18.50 | 2.32 | 7.98 | 18.50 | 2.32 | 7.98 |
| | -10 | 65.11 | 2.21 | 29.50 | 65.11 | 2.21 | 29.50 | 37.89 | 2.19 | 17.30 | 24.94 | 2.38 | 10.46 | 18.30 | 2.38 | 7.68 | 18.30 | 2.38 | 7.68 |
| | -7 | 66.76 | 2.36 | 28.30 | 66.76 | 2.36 | 28.30 | 43.51 | 2.56 | 16.99 | 26.64 | 2.58 | 10.31 | 19.88 | 2.61 | 7.62 | 19.88 | 2.61 | 7.62 |
| | 0 | 71.59 | 2.33 | 30.70 | 67.66 | 2.65 | 25.56 | 44.86 | 3.11 | 14.43 | 27.53 | 2.82 | 9.76 | 21.67 | 2.89 | 7.50 | 21.67 | 2.89 | 7.50 |
| | 2 | 82.22 | 2.68 | 30.64 | 68.90 | 2.74 | 25.18 | 45.80 | 3.35 | 13.68 | 28.15 | 2.90 | 9.70 | 23.90 | 3.22 | 7.42 | 23.90 | 3.22 | 7.42 |
| | 5 | 88.28 | 2.90 | 30.46 | 73.06 | 2.96 | 24.70 | 47.42 | 3.48 | 13.62 | 29.21 | 3.22 | 9.07 | 24.36 | 3.36 | 7.24 | 24.36 | 3.36 | 7.24 |
| | 7 | 98.00 | 2.96 | 33.11 | 76.48 | 3.12 | 24.48 | 48.49 | 3.58 | 13.55 | 31.92 | 4.05 | 7.89 | 26.50 | 4.10 | 6.46 | 26.50 | 4.10 | 6.46 |
| | 10 | 98.50 | 3.26 | 30.20 | 78.88 | 3.30 | 23.90 | 50.29 | 3.72 | 13.53 | 33.11 | 4.27 | 7.76 | 29.90 | 4.53 | 6.60 | 29.90 | 4.53 | 6.60 |
| | 15 | 99.04 | 3.28 | 30.16 | 80.74 | 3.42 | 23.64 | 51.69 | 3.83 | 13.50 | 34.03 | 4.66 | 7.30 | 34.03 | 4.96 | 6.86 | 34.03 | 4.96 | 6.86 |
| | 20 | 102.74 | 3.43 | 29.94 | 82.74 | 3.84 | 21.56 | 56.20 | 4.18 | 13.44 | 37.00 | 5.21 | 7.10 | 37.00 | 5.46 | 6.78 | 37.00 | 5.46 | 6.78 |
| | 25 | 105.38 | 3.67 | 28.72 | 84.64 | 4.36 | 19.42 | 60.64 | 4.54 | 13.35 | 39.92 | 5.84 | 6.84 | 39.92 | 6.01 | 6.64 | 39.92 | 6.01 | 6.64 |
| | 30 | 107.54 | 3.79 | 28.36 | 86.68 | 4.65 | 18.64 | 65.18 | 4.90 | 13.31 | 42.91 | 6.44 | 6.66 | 42.91 | 6.62 | 6.48 | 42.91 | 6.62 | 6.48 |
| | 35 | 111.64 | 4.01 | 27.86 | 92.88 | 5.08 | 18.30 | 69.85 | 5.27 | 13.25 | 45.98 | 7.16 | 6.42 | 45.98 | 7.37 | 6.24 | 45.98 | 7.37 | 6.24 |
| | 40 | 115.26 | 4.22 | 27.30 | 99.08 | 5.54 | 17.90 | 74.51 | 5.68 | 13.13 | 49.04 | 7.71 | 6.36 | 49.04 | 7.96 | 6.16 | 49.04 | 7.96 | 6.16 |
| | 45 | 119.76 | 4.41 | 27.18 | 105.30 | 5.88 | 17.90 | 79.19 | 6.06 | 13.06 | 52.12 | 8.54 | 6.10 | 52.12 | 8.83 | 5.90 | 52.12 | 8.83 | 5.90 |

TERMOJET

# R290 Climastar Series

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 60 | -25 | / | / | / | 26.54 | 0.94 | 28.30 | 19.96 | 1.08 | 18.53 | 13.14 | 1.12 | 11.72 | 12.40 | 1.42 | 8.72 | 12.40 | 1.42 | 8.72 |
| | -20 | 36.48 | 1.14 | 31.94 | 33.16 | 1.21 | 27.42 | 24.94 | 1.39 | 17.95 | 16.41 | 1.51 | 10.89 | 13.26 | 1.52 | 8.70 | 13.26 | 1.52 | 8.70 |
| | -15 | 43.76 | 1.37 | 31.88 | 39.78 | 1.47 | 27.10 | 29.91 | 1.69 | 17.74 | 19.69 | 1.83 | 10.77 | 15.91 | 1.86 | 8.56 | 15.91 | 1.86 | 8.56 |
| | -10 | 53.32 | 1.68 | 31.68 | 50.78 | 1.91 | 26.64 | 38.19 | 2.19 | 17.42 | 23.54 | 2.20 | 10.70 | 20.11 | 2.39 | 8.42 | 20.11 | 2.39 | 8.42 |
| | -7 | 56.28 | 1.80 | 31.26 | 53.60 | 2.14 | 25.02 | 40.31 | 2.34 | 17.20 | 24.53 | 2.35 | 10.44 | 21.74 | 2.62 | 8.30 | 21.74 | 2.62 | 8.30 |
| | 0 | 69.63 | 2.25 | 31.00 | 53.56 | 2.43 | 22.04 | 40.56 | 2.68 | 15.15 | 25.31 | 2.75 | 9.19 | 23.14 | 2.80 | 8.26 | 23.14 | 2.80 | 8.26 |
| | 2 | 72.79 | 2.36 | 30.82 | 53.92 | 2.58 | 20.86 | 40.86 | 2.85 | 14.34 | 26.69 | 2.87 | 9.30 | 24.69 | 3.05 | 8.10 | 24.69 | 3.05 | 8.10 |
| | 5 | 78.12 | 2.56 | 30.50 | 55.80 | 2.70 | 20.70 | 41.10 | 2.89 | 14.23 | 27.62 | 3.20 | 8.64 | 25.62 | 3.23 | 7.94 | 25.62 | 3.23 | 7.94 |
| | 7 | 85.85 | 2.84 | 30.26 | 58.24 | 2.84 | 20.51 | 43.80 | 3.11 | 14.10 | 28.83 | 3.37 | 8.56 | 26.83 | 3.40 | 7.90 | 26.83 | 3.40 | 7.90 |
| | 10 | 90.99 | 3.03 | 30.02 | 61.90 | 3.04 | 20.34 | 46.55 | 3.33 | 13.98 | 30.64 | 3.61 | 8.49 | 28.64 | 3.69 | 7.76 | 28.64 | 3.69 | 7.76 |
| | 15 | 93.43 | 3.12 | 29.96 | 63.56 | 3.15 | 20.18 | 47.80 | 3.45 | 13.87 | 31.46 | 3.74 | 8.42 | 29.46 | 3.85 | 7.66 | 29.46 | 3.85 | 7.66 |
| | 20 | 102.02 | 3.43 | 29.74 | 69.40 | 3.49 | 19.90 | 52.19 | 3.82 | 13.68 | 34.35 | 4.14 | 8.30 | 34.35 | 4.58 | 7.50 | 34.35 | 4.58 | 7.50 |
| | 25 | 110.60 | 3.74 | 29.58 | 75.24 | 3.81 | 19.74 | 56.58 | 4.17 | 13.57 | 37.24 | 4.55 | 8.18 | 37.24 | 5.02 | 7.42 | 37.24 | 5.02 | 7.42 |
| | 30 | 120.87 | 4.12 | 29.32 | 81.12 | 4.14 | 19.58 | 61.00 | 4.53 | 13.46 | 40.15 | 4.94 | 8.12 | 40.15 | 5.50 | 7.30 | 40.15 | 5.50 | 7.30 |
| | 35 | 129.57 | 4.43 | 29.26 | 86.96 | 4.47 | 19.44 | 65.39 | 4.89 | 13.36 | 43.05 | 5.34 | 8.07 | 43.05 | 5.96 | 7.22 | 43.05 | 5.96 | 7.22 |
| | 40 | 138.27 | 4.74 | 29.20 | 92.80 | 4.79 | 19.36 | 69.79 | 5.24 | 13.31 | 45.94 | 5.72 | 8.03 | 45.94 | 6.42 | 7.16 | 45.94 | 6.42 | 7.16 |
| | 45 | 146.97 | 5.10 | 28.82 | 98.64 | 5.52 | 17.86 | 74.18 | 6.04 | 12.28 | 48.83 | 6.59 | 7.41 | 48.83 | 6.94 | 7.04 | 48.83 | 6.94 | 7.04 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 65 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | 37.49 | 1.13 | 33.30 | 34.08 | 1.20 | 28.46 | 29.62 | 1.44 | 20.50 | 16.87 | 1.45 | 11.66 | 15.02 | 1.51 | 9.98 | 15.02 | 1.51 | 9.98 |
| | -10 | 45.78 | 1.38 | 33.12 | 43.60 | 1.56 | 27.96 | 33.30 | 1.73 | 19.22 | 21.58 | 1.90 | 11.38 | 19.44 | 2.00 | 9.70 | 19.44 | 2.00 | 9.70 |
| | -7 | 57.92 | 1.76 | 32.84 | 47.54 | 1.89 | 25.18 | 34.56 | 2.00 | 17.31 | 23.53 | 2.24 | 10.50 | 21.66 | 2.28 | 9.50 | 21.66 | 2.28 | 9.50 |
| | 0 | 61.93 | 1.90 | 32.56 | 47.64 | 2.11 | 22.60 | 35.83 | 2.31 | 15.53 | 23.58 | 2.50 | 9.43 | 23.58 | 2.50 | 9.43 | 23.58 | 2.50 | 9.43 |
| | 2 | 64.75 | 1.99 | 32.46 | 47.96 | 2.23 | 21.50 | 36.07 | 2.44 | 14.78 | 23.74 | 2.65 | 8.97 | 23.74 | 2.65 | 8.97 | 23.74 | 2.65 | 8.97 |
| | 5 | 72.32 | 2.23 | 32.40 | 51.66 | 2.41 | 21.44 | 38.85 | 2.64 | 14.74 | 25.57 | 2.86 | 8.94 | 25.57 | 2.86 | 8.94 | 25.57 | 2.86 | 8.94 |
| | 7 | 81.10 | 2.52 | 32.18 | 55.02 | 2.60 | 21.16 | 41.38 | 2.84 | 14.54 | 27.23 | 3.09 | 8.83 | 27.23 | 3.09 | 8.83 | 27.23 | 3.09 | 8.83 |
| | 10 | 83.67 | 2.63 | 31.78 | 56.92 | 2.70 | 21.10 | 42.80 | 2.95 | 14.50 | 28.18 | 3.20 | 8.80 | 28.18 | 3.20 | 8.80 | 28.18 | 3.20 | 8.80 |
| | 15 | 85.82 | 2.72 | 31.54 | 58.38 | 2.79 | 20.92 | 43.90 | 3.05 | 14.38 | 28.90 | 3.31 | 8.73 | 28.90 | 3.31 | 8.73 | 28.90 | 3.31 | 8.73 |
| | 20 | 94.17 | 2.99 | 31.50 | 64.06 | 3.09 | 20.74 | 48.17 | 3.38 | 14.26 | 31.71 | 3.66 | 8.65 | 31.71 | 3.66 | 8.65 | 31.71 | 3.66 | 8.65 |
| | 25 | 102.66 | 3.27 | 31.42 | 69.84 | 3.38 | 20.64 | 52.52 | 3.70 | 14.19 | 34.57 | 4.06 | 8.52 | 34.57 | 4.06 | 8.52 | 34.57 | 4.06 | 8.52 |
| | 30 | 112.58 | 3.59 | 31.32 | 75.56 | 3.70 | 20.42 | 56.82 | 4.05 | 14.04 | 37.40 | 4.41 | 8.47 | 37.40 | 4.41 | 8.47 | 37.40 | 4.41 | 8.47 |
| | 35 | 120.75 | 3.87 | 31.22 | 81.04 | 4.00 | 20.24 | 60.94 | 4.38 | 13.91 | 40.11 | 4.78 | 8.40 | 40.11 | 4.78 | 8.40 | 40.11 | 4.78 | 8.40 |
| | 40 | 128.91 | 4.14 | 31.16 | 86.52 | 4.29 | 20.18 | 65.06 | 4.69 | 13.87 | 42.83 | 5.11 | 8.37 | 42.83 | 5.11 | 8.37 | 42.83 | 5.11 | 8.37 |
| | 45 | 137.05 | 4.41 | 31.08 | 91.98 | 4.64 | 19.84 | 69.17 | 5.07 | 13.64 | 45.53 | 5.53 | 8.23 | 45.53 | 5.53 | 8.23 | 45.53 | 5.53 | 8.23 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 70 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | 42.21 | 1.26 | 33.53 | 40.20 | 1.39 | 28.84 | 30.23 | 1.53 | 19.82 | 19.90 | 1.65 | 12.03 | 16.08 | 1.70 | 9.44 | 16.08 | 1.73 | 9.30 |
| | -7 | 43.53 | 1.31 | 33.25 | 41.46 | 1.61 | 25.70 | 31.18 | 1.76 | 17.67 | 20.52 | 1.91 | 10.72 | 18.37 | 1.98 | 9.26 | 18.37 | 1.99 | 9.22 |
| | 0 | 54.68 | 1.65 | 33.06 | 42.06 | 1.85 | 22.78 | 31.63 | 2.02 | 15.66 | 20.82 | 2.27 | 9.18 | 20.82 | 2.27 | 9.18 | 20.82 | 2.27 | 9.18 |
| | 2 | 60.02 | 1.82 | 32.93 | 44.46 | 2.05 | 21.70 | 33.43 | 2.24 | 14.92 | 22.01 | 2.43 | 9.05 | 22.01 | 2.43 | 9.05 | 22.01 | 2.43 | 9.05 |
| | 5 | 67.90 | 2.07 | 32.88 | 48.50 | 2.25 | 21.58 | 36.47 | 2.46 | 14.83 | 24.01 | 2.67 | 9.00 | 24.01 | 2.67 | 9.00 | 24.01 | 2.67 | 9.00 |
| | 7 | 76.15 | 2.33 | 32.72 | 51.66 | 2.43 | 21.30 | 38.85 | 2.65 | 14.64 | 25.57 | 2.88 | 8.89 | 25.57 | 2.88 | 8.89 | 25.57 | 2.88 | 8.89 |
| | 10 | 80.03 | 2.47 | 32.44 | 54.44 | 2.57 | 21.18 | 40.94 | 2.81 | 14.56 | 26.95 | 3.05 | 8.84 | 26.95 | 3.05 | 8.84 | 26.95 | 3.05 | 8.84 |
| | 15 | 82.41 | 2.55 | 32.37 | 56.06 | 2.66 | 21.06 | 42.16 | 2.91 | 14.48 | 27.75 | 3.16 | 8.79 | 27.75 | 3.16 | 8.79 | 27.75 | 3.16 | 8.79 |
| | 20 | 86.32 | 2.67 | 32.28 | 58.72 | 2.80 | 20.94 | 44.16 | 3.07 | 14.39 | 29.07 | 3.33 | 8.74 | 29.07 | 3.33 | 8.74 | 29.07 | 3.33 | 8.74 |
| | 25 | 94.73 | 2.96 | 31.96 | 64.44 | 3.09 | 20.84 | 48.46 | 3.38 | 14.32 | 31.90 | 3.64 | 8.76 | 31.90 | 3.68 | 8.66 | 31.90 | 3.68 | 8.66 |
| | 30 | 104.30 | 3.29 | 31.72 | 70.00 | 3.38 | 20.71 | 52.64 | 3.70 | 14.23 | 34.65 | 4.03 | 8.59 | 34.65 | 4.03 | 8.59 | 34.65 | 4.03 | 8.59 |
| | 35 | 111.93 | 3.56 | 31.47 | 75.12 | 3.68 | 20.40 | 56.49 | 4.03 | 14.02 | 37.18 | 4.39 | 8.46 | 37.18 | 4.39 | 8.46 | 37.18 | 4.39 | 8.46 |
| | 40 | 119.56 | 3.89 | 30.75 | 80.24 | 3.95 | 20.30 | 60.34 | 4.32 | 13.95 | 39.72 | 4.72 | 8.42 | 39.72 | 4.72 | 8.42 | 39.72 | 4.72 | 8.42 |
| | 45 | 127.13 | 4.18 | 30.40 | 85.32 | 4.24 | 20.10 | 64.16 | 4.64 | 13.82 | 42.23 | 5.06 | 8.34 | 42.23 | 5.06 | 8.34 | 42.23 | 5.06 | 8.34 |

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI | HC | COP | PI |
| 75 | -25 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -20 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -15 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -10 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | -7 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |
| | 0 | 46.90 | 1.36 | 34.38 | 36.08 | 1.54 | 23.44 | 27.13 | 1.68 | 16.11 | 17.86 | 1.83 | 9.78 | 17.86 | 1.83 | 9.78 | 17.86 | 1.83 | 9.78 |
| | 2 | 52.65 | 1.56 | 33.76 | 39.00 | 1.75 | 22.30 | 29.33 | 1.91 | 15.33 | 19.31 | 2.08 | 9.30 | 19.31 | 2.08 | 9.30 | 19.31 | 2.08 | 9.30 |
| | 5 | 61.68 | 1.84 | 33.54 | 44.06 | 1.99 | 22.12 | 33.13 | 2.18 | 15.20 | 21.81 | 2.36 | 9.23 | 21.81 | 2.36 | 9.23 | 21.81 | 2.36 | 9.23 |
| | 7 | 69.93 | 2.11 | 33.19 | 47.44 | 2.17 | 21.84 | 35.67 | 2.38 | 15.01 | 23.48 | 2.58 | 9.11 | 23.48 | 2.58 | 9.11 | 23.48 | 2.58 | 9.11 |
| | 10 | 73.09 | 2.20 | 33.18 | 49.72 | 2.31 | 21.50 | 37.39 | 2.53 | 14.78 | 24.61 | 2.74 | 8.97 | 24.61 | 2.74 | 8.97 | 24.61 | 2.74 | 8.97 |
| | 15 | 75.00 | 2.26 | 33.14 | 51.02 | 2.39 | 21.36 | 38.37 | 2.61 | 14.68 | 25.25 | 2.83 | 8.91 | 25.25 | 2.83 | 8.91 | 25.25 | 2.83 | 8.91 |
| | 20 | 78.47 | 2.38 | 32.97 | 53.38 | 2.53 | 21.14 | 40.14 | 2.76 | 14.53 | 26.42 | 3.00 | 8.82 | 26.42 | 3.00 | 8.82 | 26.42 | 3.00 | 8.82 |
| | 25 | 86.79 | 2.66 | 32.66 | 59.04 | 2.81 | 21.00 | 44.40 | 3.08 | 14.43 | 29.22 | 3.31 | 8.83 | 29.22 | 3.36 | 8.70 | 29.22 | 3.36 | 8.70 |
| | 30 | 96.02 | 2.95 | 32.50 | 64.44 | 3.09 | 20.84 | 48.46 | 3.38 | 14.32 | 31.90 | 3.69 | 8.65 | 31.90 | 3.69 | 8.65 | 31.90 | 3.69 | 8.65 |
| | 35 | 103.11 | 3.19 | 32.34 | 69.20 | 3.37 | 20.54 | 52.04 | 3.69 | 14.12 | 34.25 | 4.02 | 8.52 | 34.25 | 4.02 | 8.52 | 34.25 | 4.02 | 8.52 |
| | 40 | 110.20 | 3.48 | 31.64 | 73.96 | 3.62 | 20.44 | 55.62 | 3.96 | 14.05 | 36.61 | 4.32 | 8.48 | 36.61 | 4.32 | 8.48 | 36.61 | 4.32 | 8.48 |
| | 45 | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / | / |

Abbreviations:
TWout: Outlet water temperature (°C )
DB: Dry-bulb temperature for Outdoor air temperature (°C )
HC: Total heating capacity (kW)
PI: Power input (kW)

# R290 Climastar Series

## 5.2 Cooling Capacity Tables

NE-F500HCR5TINVM-USC

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 7 | 10 | 46.89 | 6.72 | 6.97 | 39.68 | 7.06 | 5.62 | 29.96 | 7.40 | 4.05 | 21.64 | 7.84 | 2.76 | 18.64 | 8.25 | 2.26 | 18.64 | 8.25 | 2.26 |
| | 20 | 38.68 | 4.83 | 8.01 | 33.15 | 5.07 | 6.54 | 25.03 | 5.32 | 4.71 | 16.58 | 5.63 | 2.94 | 15.13 | 6.38 | 2.37 | 15.13 | 6.38 | 2.37 |
| | 30 | 36.59 | 3.90 | 9.37 | 31.27 | 4.09 | 7.65 | 23.61 | 4.29 | 5.51 | 15.64 | 4.74 | 3.30 | 12.79 | 5.16 | 2.48 | 12.79 | 5.16 | 2.48 |
| | 35 | 35.00 | 2.83 | 12.36 | 29.30 | 3.56 | 8.24 | 22.12 | 3.84 | 5.77 | 14.65 | 4.26 | 3.44 | 11.11 | 4.30 | 2.58 | 11.11 | 4.30 | 2.58 |
| | 40 | 28.17 | 2.17 | 12.98 | 25.42 | 2.82 | 9.01 | 19.19 | 2.96 | 6.49 | 12.71 | 3.13 | 4.05 | 10.52 | 3.60 | 2.92 | 10.52 | 3.60 | 2.92 |
| | 45 | 22.99 | 1.71 | 13.45 | 20.17 | 2.20 | 9.15 | 15.23 | 2.31 | 6.59 | 10.89 | 2.45 | 4.45 | 8.88 | 2.69 | 3.30 | 8.88 | 2.69 | 3.30 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 15 | 10 | 54.48 | 8.05 | 6.76 | 46.10 | 8.46 | 5.45 | 34.81 | 8.87 | 3.93 | 25.15 | 9.40 | 2.68 | 20.73 | 9.64 | 2.15 | 20.73 | 9.64 | 2.15 |
| | 20 | 45.56 | 5.86 | 7.77 | 39.05 | 6.16 | 6.34 | 29.48 | 6.45 | 4.57 | 19.53 | 6.84 | 2.85 | 17.89 | 7.78 | 2.30 | 17.89 | 7.78 | 2.30 |
| | 30 | 39.67 | 4.36 | 9.09 | 36.84 | 4.96 | 7.42 | 27.81 | 5.21 | 5.34 | 18.42 | 5.75 | 3.20 | 16.66 | 6.48 | 2.57 | 16.66 | 6.48 | 2.57 |
| | 35 | 37.63 | 3.14 | 11.99 | 31.63 | 3.96 | 7.99 | 23.88 | 4.27 | 5.59 | 17.24 | 5.17 | 3.34 | 15.82 | 6.04 | 2.62 | 15.82 | 6.04 | 2.62 |
| | 40 | 34.57 | 2.75 | 12.59 | 31.19 | 3.57 | 8.74 | 23.55 | 3.74 | 6.29 | 16.60 | 4.22 | 3.93 | 15.60 | 5.51 | 2.83 | 15.60 | 5.51 | 2.83 |
| | 45 | 29.31 | 2.25 | 13.05 | 25.71 | 2.90 | 8.88 | 19.41 | 3.04 | 6.39 | 15.24 | 3.53 | 4.31 | 13.88 | 4.34 | 3.20 | 13.88 | 4.34 | 3.20 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 25 | 10 | 62.07 | 9.46 | 6.56 | 52.52 | 9.93 | 5.29 | 39.65 | 10.42 | 3.81 | 28.65 | 11.04 | 2.60 | 23.76 | 11.37 | 2.09 | 23.76 | 11.37 | 2.09 |
| | 20 | 54.37 | 7.21 | 7.54 | 46.60 | 7.57 | 6.15 | 35.18 | 7.94 | 4.43 | 23.30 | 8.41 | 2.77 | 21.98 | 9.86 | 2.23 | 21.98 | 9.86 | 2.23 |
| | 30 | 47.69 | 5.41 | 8.82 | 44.28 | 6.15 | 7.20 | 33.43 | 6.45 | 5.18 | 22.14 | 7.13 | 3.10 | 20.03 | 8.03 | 2.49 | 20.03 | 8.03 | 2.49 |
| | 35 | 41.96 | 3.61 | 11.63 | 37.26 | 4.81 | 7.75 | 28.13 | 5.18 | 5.43 | 18.63 | 5.76 | 3.24 | 16.77 | 6.60 | 2.54 | 16.77 | 6.60 | 2.54 |
| | 40 | 40.05 | 3.28 | 12.21 | 36.14 | 4.26 | 8.48 | 27.28 | 4.47 | 6.10 | 18.07 | 4.74 | 3.81 | 15.22 | 5.54 | 2.75 | 15.22 | 5.54 | 2.75 |
| | 45 | 34.55 | 2.73 | 12.66 | 30.31 | 3.52 | 8.61 | 22.88 | 3.69 | 6.20 | 16.37 | 3.91 | 4.18 | 13.63 | 4.39 | 3.10 | 13.63 | 4.39 | 3.10 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 35 | 10 | 69.66 | 10.94 | 6.36 | 58.94 | 11.49 | 5.13 | 44.50 | 12.05 | 3.69 | 32.15 | 12.77 | 2.52 | 25.15 | 13.59 | 1.85 | 25.15 | 13.59 | 1.85 |
| | 20 | 64.34 | 8.80 | 7.31 | 55.15 | 9.24 | 5.97 | 41.64 | 9.69 | 4.30 | 27.58 | 10.27 | 2.69 | 22.71 | 11.02 | 2.06 | 22.71 | 11.02 | 2.06 |
| | 30 | 55.70 | 6.51 | 8.55 | 51.72 | 7.41 | 6.98 | 39.05 | 7.77 | 5.03 | 25.86 | 8.59 | 3.01 | 21.76 | 9.00 | 2.42 | 21.76 | 9.00 | 2.42 |
| | 35 | 48.29 | 4.28 | 11.28 | 48.29 | 6.42 | 7.52 | 36.46 | 6.93 | 5.26 | 24.15 | 7.69 | 3.14 | 19.95 | 8.10 | 2.46 | 19.95 | 8.10 | 2.46 |
| | 40 | 47.36 | 4.00 | 11.85 | 42.73 | 5.20 | 8.22 | 32.26 | 5.45 | 5.92 | 21.37 | 5.77 | 3.70 | 18.71 | 7.02 | 2.67 | 18.71 | 7.02 | 2.67 |
| | 45 | 39.73 | 3.24 | 12.28 | 34.85 | 4.17 | 8.35 | 26.31 | 4.38 | 6.01 | 18.82 | 4.64 | 4.06 | 15.21 | 5.05 | 3.01 | 15.21 | 5.05 | 3.01 |

NE-F1000HCR5TINVM-USC

| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 7 | 10 | 93.79 | 6.72 | 13.95 | 79.36 | 7.06 | 11.24 | 59.92 | 7.40 | 8.09 | 43.29 | 7.84 | 5.52 | 37.28 | 8.25 | 4.52 | 37.28 | 8.25 | 4.52 |
| | 20 | 77.35 | 4.83 | 16.02 | 66.30 | 5.07 | 13.08 | 50.06 | 5.32 | 9.42 | 33.15 | 5.63 | 5.89 | 30.26 | 6.38 | 4.74 | 30.26 | 6.38 | 4.74 |
| | 30 | 73.17 | 3.90 | 18.74 | 62.54 | 4.09 | 15.30 | 47.22 | 4.29 | 11.02 | 31.27 | 4.74 | 6.60 | 25.58 | 5.16 | 4.96 | 25.58 | 5.16 | 4.96 |
| | 35 | 70.00 | 2.83 | 24.72 | 58.60 | 3.56 | 16.48 | 44.24 | 3.84 | 11.54 | 29.30 | 4.26 | 6.88 | 22.22 | 4.30 | 5.16 | 22.22 | 4.31 | 5.16 |
| | 40 | 56.35 | 2.17 | 25.96 | 50.84 | 2.82 | 18.02 | 38.38 | 2.96 | 12.97 | 25.42 | 3.13 | 8.11 | 21.04 | 3.60 | 5.84 | 21.04 | 3.60 | 5.84 |
| | 45 | 45.99 | 1.71 | 26.90 | 40.34 | 2.20 | 18.30 | 30.46 | 2.31 | 13.18 | 21.78 | 2.45 | 8.89 | 17.76 | 2.69 | 6.60 | 17.76 | 2.69 | 6.60 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 15 | 10 | 108.96 | 8.05 | 13.53 | 92.20 | 8.46 | 10.90 | 69.61 | 8.87 | 7.85 | 50.29 | 9.40 | 5.35 | 41.46 | 9.64 | 4.30 | 41.46 | 9.64 | 4.30 |
| | 20 | 91.12 | 5.86 | 15.54 | 78.10 | 6.16 | 12.69 | 58.97 | 6.45 | 9.14 | 39.05 | 6.84 | 5.71 | 35.78 | 7.78 | 4.60 | 35.78 | 7.78 | 4.60 |
| | 30 | 79.35 | 4.36 | 18.18 | 73.68 | 4.96 | 14.84 | 55.63 | 5.21 | 10.69 | 36.84 | 5.75 | 6.40 | 33.32 | 6.48 | 5.14 | 33.32 | 6.48 | 5.14 |
| | 35 | 75.26 | 3.14 | 23.98 | 63.26 | 3.96 | 15.99 | 47.76 | 4.27 | 11.19 | 34.48 | 5.17 | 6.67 | 31.64 | 6.04 | 5.24 | 31.64 | 6.04 | 5.24 |
| | 40 | 69.14 | 2.75 | 25.18 | 62.38 | 3.57 | 17.48 | 47.10 | 3.74 | 12.59 | 33.20 | 4.22 | 7.87 | 31.19 | 5.51 | 5.66 | 31.20 | 5.51 | 5.66 |
| | 45 | 58.62 | 2.25 | 26.09 | 51.42 | 2.90 | 17.75 | 38.82 | 3.04 | 12.78 | 30.48 | 3.53 | 8.63 | 27.77 | 4.34 | 6.40 | 27.76 | 4.34 | 6.40 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 25 | 10 | 124.14 | 9.46 | 13.12 | 105.04 | 9.93 | 10.58 | 79.31 | 10.42 | 7.61 | 57.29 | 11.04 | 5.19 | 47.52 | 11.37 | 4.18 | 47.52 | 11.37 | 4.18 |
| | 20 | 108.73 | 7.21 | 15.08 | 93.20 | 7.57 | 12.31 | 70.37 | 7.94 | 8.86 | 46.60 | 8.41 | 5.54 | 43.96 | 9.86 | 4.46 | 43.96 | 9.86 | 4.46 |
| | 30 | 95.37 | 5.41 | 17.63 | 88.56 | 6.15 | 14.40 | 66.86 | 6.45 | 10.36 | 44.28 | 7.13 | 6.21 | 40.06 | 8.03 | 4.99 | 40.06 | 8.03 | 4.99 |
| | 35 | 83.92 | 3.61 | 23.26 | 74.52 | 4.81 | 15.51 | 56.26 | 5.18 | 10.85 | 37.26 | 5.76 | 6.47 | 33.53 | 6.60 | 5.08 | 33.53 | 6.60 | 5.08 |
| | 40 | 80.10 | 3.28 | 24.43 | 72.27 | 4.26 | 16.96 | 54.56 | 4.47 | 12.21 | 36.14 | 4.74 | 7.63 | 30.44 | 5.54 | 5.49 | 30.44 | 5.54 | 5.49 |
| | 45 | 69.11 | 2.73 | 25.31 | 60.62 | 3.52 | 17.22 | 45.77 | 3.69 | 12.40 | 32.73 | 3.91 | 8.37 | 27.26 | 4.39 | 6.21 | 27.26 | 4.39 | 6.21 |
| TWout | DB | Maximum | | | 100%( Normal) | | | 75% | | | 50% | | | 25% | | | Minimum | | |
| | | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI | CC | EER | PI |
| 35 | 10 | 139.31 | 10.94 | 12.73 | 117.88 | 11.49 | 10.26 | 89.00 | 12.05 | 7.39 | 64.30 | 12.77 | 5.04 | 50.30 | 13.59 | 3.70 | 50.30 | 13.59 | 3.70 |
| | 20 | 128.68 | 8.80 | 14.62 | 110.30 | 9.24 | 11.94 | 83.28 | 9.69 | 8.60 | 55.15 | 10.27 | 5.37 | 45.42 | 11.02 | 4.12 | 45.42 | 11.02 | 4.12 |
| | 30 | 111.40 | 6.51 | 17.11 | 103.44 | 7.41 | 13.96 | 78.10 | 7.77 | 10.05 | 51.72 | 8.59 | 6.02 | 43.52 | 9.00 | 4.84 | 43.52 | 9.00 | 4.84 |
| | 35 | 96.58 | 4.28 | 22.56 | 96.58 | 6.42 | 15.04 | 72.92 | 6.93 | 10.53 | 48.29 | 7.69 | 6.28 | 39.90 | 8.10 | 4.93 | 39.90 | 8.10 | 4.93 |
| | 40 | 94.72 | 4.00 | 23.69 | 85.46 | 5.20 | 16.45 | 64.52 | 5.45 | 11.84 | 42.73 | 5.77 | 7.40 | 37.42 | 7.02 | 5.33 | 37.42 | 7.02 | 5.33 |
| | 45 | 79.46 | 3.24 | 24.55 | 69.70 | 4.17 | 16.70 | 52.62 | 4.38 | 12.03 | 37.64 | 4.64 | 8.12 | 30.42 | 5.05 | 6.02 | 30.42 | 5.05 | 6.02 |

Abbreviations:
TWout: Outlet water temperature (°C )
DB: Dry-bulb temperature for Outdoor air temperature (°C ) CC: Total cooling capacity (kW)
PI: Power input (kW)

# 6 Sound Levels

## 6.1 Overall

*Sound power levels*

| Model name | / | Sound power levels |
|---|---|---|
| NE-F500HCR5TINVM-USC | dB(A) | 75 |
| NE-F1000HCR5TINVM-USC | dB(A) | 77 |

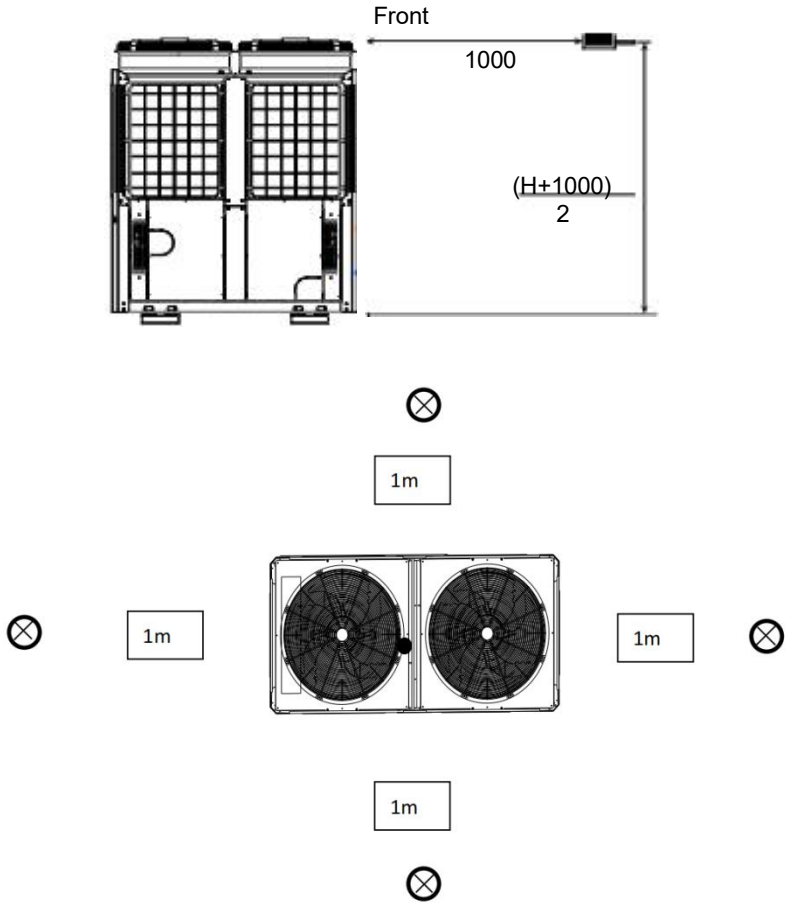
*Sound pressure levels*

| Model name | / | Sound pressure levels in 1m |
|---|---|---|
| NE-F500HCR5TINVM-USC | dB(A) | 58 |
| NE-F1000HCR5TINVM-USC | dB(A) | 60 |

Notes:

1. Sound pressure level is measured at a position 1m in front of the unit and (1+H)/2m (where H is the height of the unit) above the floor in a semi-anechoic chamber. During on-site operation, sound pressure levels may be higher as a re sult of ambient noise.

*Sound power level measurement (unit: mm)*



Add.: Київська обл., Софіївська Борщагівка, вул. Київська, 3

https://tjheatpump.com.ua