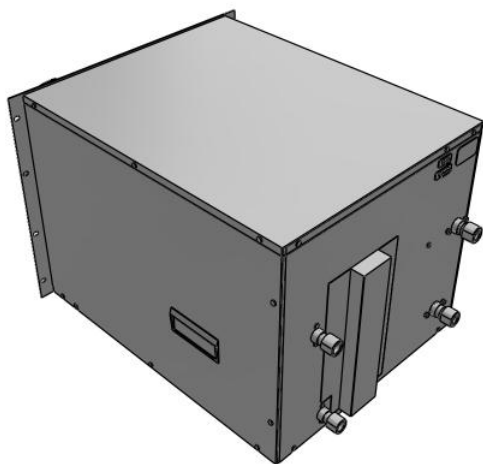




## Circulating Fluid Temperature Controller, Rack Mount Type, 230VAC - HRR HRR030-WF-20-TU

### Datasheet

### General series information

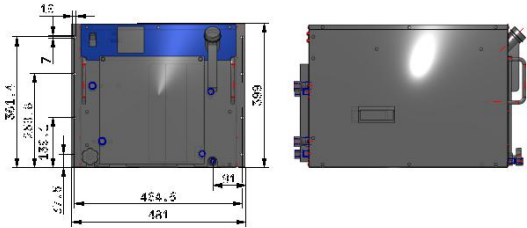
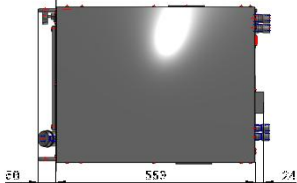
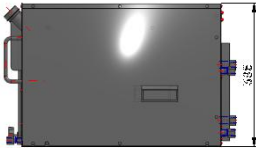
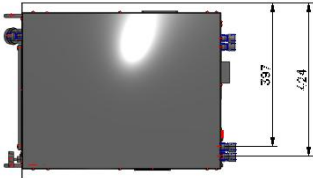
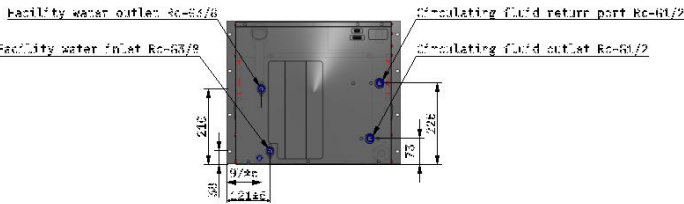
- Cooling capacity: 0.95 to 5 kW (50 Hz)
- Temperature stability:  $\pm 0.1^{\circ}\text{C}$
- Set temperature range: 5 to  $35^{\circ}\text{C}$ ; 15 to  $35^{\circ}\text{C}$  (HRR010)
- Space Saving
- With heating function and self-diagnosis.

### Standard specifications

|                             |                                                 |
|-----------------------------|-------------------------------------------------|
| Cooling Capacity            | 030 [2500/3000, (50/60 Hz)]                     |
| Cooling Method              | W (Water-cooled)                                |
| Pipe Thread                 | F (G, w/Rc-G Conversion Fitting)                |
| Power Supply                | 20 [Single-phase 200 to 230 VAC (50/60 Hz)]     |
| DI Water Piping             | None                                            |
| High-pressure Pump Mounted  | T (High-pressure Pump Mounted)                  |
| Suffix                      | U (Conforming to UL Standards)                  |
| Feet                        | None                                            |
| Flow Sensor                 | None                                            |
| Maximum ambient temperature | $40^{\circ}\text{C}$                            |
| Minimum ambient temperature | $5^{\circ}\text{C}$                             |
| Approvals                   | CE                                              |
| Power supply                | Single-phase 200 to 230 VAC (50/60 Hz)          |
| Port size                   | G 1/2                                           |
| Cooling method              | Water-cooled refrigeration                      |
| Refrigerant                 | R410A (HFC)                                     |
| Control method              | PID control                                     |
| Circulating fluid           | Tap water, 15% ethylene glycol aqueous solution |

|                                            |                                                                                                                                                                    |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Set temperature range                      | 5 - 35 °C                                                                                                                                                          |
| Cooling capacity (50 Hz)                   | 2500 W                                                                                                                                                             |
| Heating capacity (50 Hz)                   | 550 W                                                                                                                                                              |
| Temperature stability                      | ± 0.1 °C                                                                                                                                                           |
| Tank capacity                              | 4 L                                                                                                                                                                |
| Contact material for circulating fluid     | Stainless steel, Copper (Heat exchanger brazing), Brass, SiC, Alumina ceramic, Carbon, PP, PE, POM, PA, FKM, EPDM, PVC, PPS, AS, Fluoropolymer, Ion exchange resin |
| Facility water temperature range           | 5 - 40 °C                                                                                                                                                          |
| Facility water pressure range              | 0.3 to 0.5 MPa                                                                                                                                                     |
| Facility water required flow range (50 Hz) | 15 l/min                                                                                                                                                           |
| Facility water port size                   | G 3/8                                                                                                                                                              |
| Contact material for facility water        | Stainless steel, Copper (Heat exchanger brazing), Bronze, Brass, Synthetic rubber                                                                                  |
| Noise level (50 Hz)                        | 61 dB                                                                                                                                                              |
| Rated power consumption (50 Hz)            | 1.1 kW                                                                                                                                                             |
| Pump rated flow (50 Hz)                    | 10 l/min                                                                                                                                                           |
| Circulating fluid port size                | G 1/2                                                                                                                                                              |
| Tank drain port                            | G 1/4                                                                                                                                                              |
| Weight                                     | 50.000 Kg                                                                                                                                                          |

Dimensions



## Additional information

|                           |                                                                                                                                                                                                                                                      |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Catalogue                 | <a href="#">HRR-D_EU.pdf</a>                                                                                                                                                                                                                         |
| Declaration of conformity | <a href="#">newDoC_HRR_TF1W10EN.pdf</a><br><a href="#">newDoC_HRR_TF125-045EN.pdf</a><br><a href="#">newDoC_HRR-TF1Y309EN-B.pdf</a>                                                                                                                  |
| Installation manuals      | <a href="#">IM_HRR_SMW56EN-C.pdf</a><br><a href="#">IM_HRR050_SMY61EN-B.pdf</a><br><a href="#">IM_HRR010_SMY36EN-B.pdf</a>                                                                                                                           |
| Operation manuals         | <a href="#">OM_HRR_OM-Y057EN-A.pdf</a><br><a href="#">OM_HRR50_OM-X071EN-G.pdf</a><br><a href="#">OM_HRR_W004EN-I.pdf</a><br><a href="#">OM_HRRx_OM-W002EN-N.pdf</a><br><a href="#">OM_HRR010_EN-E.pdf</a><br><a href="#">OM_HRR_OM-X084EN-I.pdf</a> |