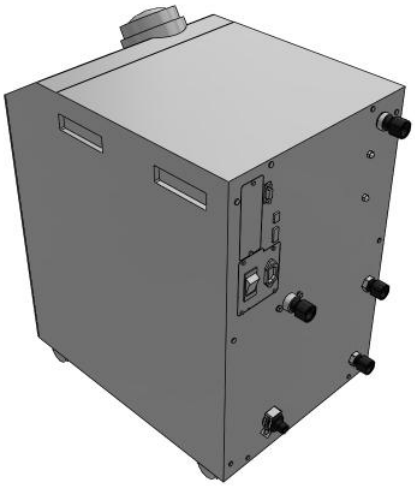

# HRS, Thermo-chiller, Compact Type
## HRS012-WF-20

Datasheet

## General series information

- Compact and lightweight.
- Temperature stability ± 0.1 ºC.
- Improved maintenance performance.
- Heating function available even with no heater.

## Standard specifications

| | |
|---|---|
| Automatic fluid fill | None |
| High-pressure pump | None |
| Cooling Method | W (Water-cooled Refrigeration) |
| High ambient temperature | None |
| Earth Leakage Breaker | None |
| Cooling Capacity | 012 [Cooling capacity: 1100/1300 W (50/60 Hz)] |
| DI Water Piping | None |
| Units | None |
| Thread | F [G (w/PT-G Conversion Fitting Set)] |
| Power Supply | 20 [Single-phase 200 to 230 VAC (50/60 Hz)] |
| Maximum ambient temperature | 40 °C |
| Minimum ambient temperature | 5 °C |
| Approvals | CE |
| Power supply | Single-phase 200 to 230 VAC ( 50/60 Hz ) |
| Cooling method | Water-cooled refrigeration |
| Refrigerant | R407C (HFC) |
| Control method | PID control |
| Circulating fluid | Tap water, 15% ethylene glycol aqueous solution |
| Set temperature range | 5 to 40 °C |

*Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.*



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| | |
|---|---|
| Cooling capacity (50 Hz) | 1100 |
| Heating capacity (50 Hz) | 530 |
| Temperature stability | ± 0,1 |
| Tank capacity | 5 L |
| Contact material for circulating fluid | Stainless steel, Copper (Heat exchanger brazing), Bronze, Alumina ceramic,<br>Carbon, PP, PE, POM, FKM, EPDM, PVC |
| Facility water temperature range | 5 to 40 °C |
| Facility water pressure range | 0.3 to 0.5 MPa |
| Facility water requiered flow range (50 Hz) | 8 l/min |
| Facility water port size | 3/8 |
| Contact material for facility water | Stainless steel, Copper (Heat exchanger brazing), Bronze, Synthetic rubber |
| Rated operating current (50 Hz) | 4.6 A |
| Rated power consumption (50 Hz) | 0.9 kVA |
| Pump rated flow (50 Hz) | 7 l/min (0.13 MPa) |
| Pump maximum flow rate (50 Hz) | 27 l/min |
| Maximum pump head (50 Hz) | 14 m |
| Circulating fluid port size | 1/2 |
| Noise level | 60 dB |
| Weight | 43.000 Kg |

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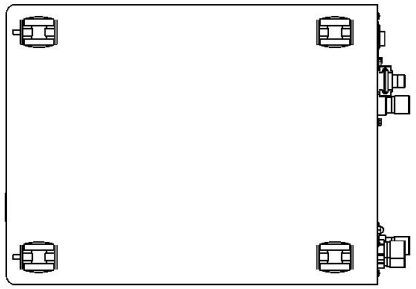
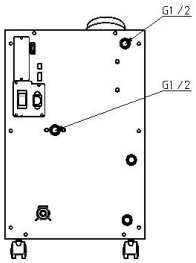
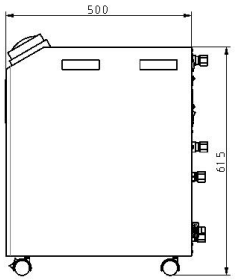
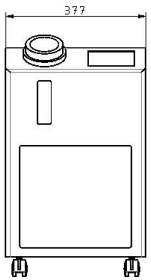
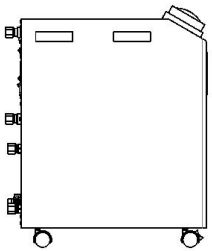
# Dimensions

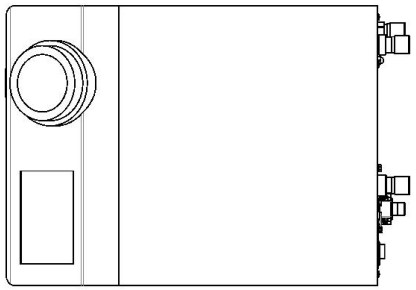






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# Additional information

| | |
|---|---|
| Catalogue | HRS-G_EU.pdf |
| Declaration of conformity | newDoC_HRS_TF125-047EN.pdf<br>newDoC_HRS_TF-T018EN.pdf<br>DoC_HRS_TF-S043.pdf<br>newDoC_HRS_TF1V336EN.pdf<br>DoC_HRSx_TF-O027.pdf<br>newDoC_HRS_TF1Y298EN-D.pdf |
| Installation manuals | IM_HRS040_SMX145EN-A.pdf<br>IMM_HRS_TFR02EN-A.pdf<br>IM_HRSF012_018_024_030_050_060_TF224-064EN-B.pdf |
| Operation manuals | OM_DI-filter-set_HRS012-018-024_EN.pdf<br>OM_HRSF_DOC1093921EN.pdf<br>OM_HRSF_DOC1053240EN-1.pdf<br>OM_HRS040_EN-F.pdf<br>OM_Bypass-piping-set_HRS012-018-024_EN.pdf<br>OM_HRS060_EN-N.pdf<br>OM_HRS12-018-024_OM-M090EN-H.pdf<br>OM_HRS030_EN-O.pdf<br>OM_HRSF_DOC1053228EN-2.pdf<br>OM_HRS050_EN-V.pdf<br>OM-Communication_HRS012-018-024-030-040-050-060_EN-P.pdf<br>QuickManual_HRS_M085EN-F.pdf |

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