

Illustration 1 / MultiHydro MH300 example

MultiHydro – MH300

The MultiHydro is a hydraulic module for the simple connection of several MultiChillers (MC) to form a refrigeration network. The MH is available in different sizes (for 3 MC) and with different pipe dimensions in order to be able to map the different output sizes. The selection ranges from DN80 to DN100 to DN125 and can transmit power up to 500kW.

The hydraulic connection uses the Tichelmann principle and is equipped with one pump each for hot and cold brine. Alternatively, the MH module can also be equipped with motor ball valves. For uncomplicated maintenance, each circuit offers corresponding butterfly valves and ball valves for filling and venting the system. The pumps are equipped with check valves.

The MH is designed for indoor installation and as a supplement to the MultiChiller system and is mounted on a painted steel frame. The stainless steel pipes are installed in appropriate brackets and have closed-cell insulation in the cold brine area. The system pressure is displayed via appropriate pressure gauges, which are included in the scope of delivery.

The interface to the refrigeration generator (MC) is a Victaulic® coupling (type 75 flexible) and to the consumer / recooling side a flange connection in DN80 / DN100 or DN125 (according to version).

The optionally available control MultiControl controls not only the cooling generator but also the pumps or motor ball valves in the MH module. On-site control of the pumps or ball valves is also possible.

Further information on the MultiHydro MH-300 according to the technical data sheet

Proof of delivery:

FUTRON GmbH

Elisabethstraße 29 Phone +49 37 65 38 03-0

08491 Netzschkau info@futron-gmbh.de

Germany

|  |  |  |
| --- | --- | --- |
| Medium cold brine |  | Bitte Auswählen |
| Medium warm brine |  | Bitte Auswählen |
| Plant volume cold brine | L | 42,7 |
| Plant volume warm brine | L | 44,4 |
| System liquid temperature | °C | -10 – +90 |
| Plant operating pressure | bar | 1,0 – 4,0 |
| Max. Operating pressure | bar | 6,0 |
| Total performance of the manifold | kW | ca. 200 |
| Pump type cold brine\* |  | Bitte Auswählen |
| Pump type warm brine\* |  | Bitte Auswählen |
| Total Volume flow cold | m³/h | Bitte Ausfüllen |
| Max. Pressure drop consumer side (cold)\*\* | kPa | Bitte Ausfüllen |
| Total Volume flow cold | m³/h | Bitte Ausfüllen |
| Max. Pressure drop consumer side (warm)\*\* | kPa | Bitte Ausfüllen |
| Pump mains voltage | V / PH / Hz | 230 / 1 / 50 |
| Pump max. Power consumption | kW | Bitte Auswählen |
| Insulation strength cold side | mm | Bitte Auswählen/Ausfüllen |
| Insulation strength warm side | mm | Bitte Auswählen/Ausfüllen |
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| \*Further information according to the data sheet (one pump per hot and cold brine per chiller)\*\*Without hydraulic decoupling to the consumer side, for example through MultiHydroSwitch (MHS) |
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| Warm brine inlet / outlet recooler |  | flange connection DN xx bolt circle-Ø xxx mm |
| Cold brine inlet / outlet cooling point |  | flange connection DN xx bolt circle -Ø xxx mm |
| Warm / cold brine entry MultiChiller |  | Victaulic Ø 42,4mm |
| Warm / cold brine outlet MultiChiller |  | Victaulic Ø 42,4mm |
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| Safety valve | bar | 6,0 |
| Pump protection class |  | IP X4D |
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|  |  |  |
|  |  |  |
| Length | mm | Bitte Ausfüllen |
| Width | mm | Bitte Ausfüllen |
| Height | mm | Bitte Ausfüllen |
| Transport weight | kg | Bitte Ausfüllen |