

Cooling system

TMV7015OW



Fachbetrieb für Kälteanlagen und Flüssigkühlung

Cooling principle Oil - Water

In the TMV7015OW, the cooling medium in the primary circuit circulates between the cooling system and the heat source to be cooled. The heated cooling medium, which re-enters via the return, is cooled by a plate heat exchanger connected to the cold water circuit and exits at the outlet line.

As the cooling medium can be used e.g. Shell Diala S4 ZX-IG or a comparable transformer insulating oil with kinematic viscosity in the range of 5-50 mm² / s.

The cooling system has a digital temperature controller in the primary circuit for precise descent control of the cold water circuit and temperature monitoring of the oil flow temperature as well as an adjustable flow monitor. The monitoring circuits are already connected onto connecting terminals.

A manual volume control valve installed in the cold water circuit (in addition to the solenoid valve) can, if required, adapt the volume flow in the secondary circuit to the cooling power requirement of the application.

Optional extras:
e.g. temperature controller with RS485 interface, customer specific electrical interfaces, IEC appliance inlet C 14 (switched)

- ◆ Compact design
- ◆ Variable cooling capacity in a smallest possible constructed size
- ◆ Digital temperature controller
- ◆ Monitoring of temperature, flow and fluid level
- ◆ Customized version possible

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Performance diagram



Product picture



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Technical data

Dimensions, weight and color

Length (depth):	620 mm
Width (front):	405 mm
Height (front):	445 mm
Weight (empty):	51,00 kg
Weight (filled):	64,00 kg
Colour:	RAL 7035 (light grey)

Coolant circuit

Coolant:	Shell Diala S4 ZX-IG or a comparable transformer insulating oil with kinematic viscosity in the range of 5-50 mm ² / s
Media temperature:	+5°C to 55°C
Capacity (min / max):	12,0 litres / 16,0 litres
Hydraulic connections - Primary circuit (oil) - Secondary circuit (water)	G1/2", female thread G3/8", female thread
Coolant hose:	Inner diameter ≥ 19 mm total length (VL+RL) < 30 meters

Performance data

Cooling capacity:	1.500 - 7.000 watts
Volume flow: (primary circuit)	> 14,0 l/min at 5 bar
Mains voltage:	230 V AC ± 5%, 50Hz / 60Hz
Power consumption:	2,65 A (50Hz)
Operating noise:	51 - 57 dB(A) measured at 1 m distance
Protection:	IP21

Environmental conditions

Operation above sea level:	Up to 4000 m above sea level
Operating temperature:	+5°C to +40°C ambient temperature
Storage temperature:	-10°C to +70°C
Rel. humidity:	20% to 90% (non-condensing)
Installation conditions:	Indoor installation, horizontal floor

Factory settings (changeable by customer)

Maximum pressure:	7,5 (+0,0/-0,2) bar
Flow switch contact OPEN:	≤ 14,00 l/min
Flow switch contact CLOSED:	≥ 15,75 l/min
Temperature controller contact OPEN:	< 10°C and > 55°C
Temperature controller contact CLOSED:	> 12°C and < 53°C

Contact rating

Flow switch:	max. 230V/AC, 3A, 60VA
Fluid level:	max. 250V/AC, 200V/DC, 1,5A, 50VA
Temperature controller (standard)	max. 230V/AC, 8A, resistive load

All dimensions are approximate and may differ slightly in series production.