Unimotive 30w

Refrigerated Heating Circulator with water-cooled cooling machine and electronical level indicator. Magnetic coupled circulation pump made of stainless steel. Automatical switch-over and capacity adaption for heating and cooling machine. Copper soldered evaporator, moistened parts and housing made of stainless steel. As well as for externally closed and also externally open applications. With adjustable overtemperature protection according to DIN 12876. Optional pump pressure control via controlled bypass.

The Unimotive model series is specially designed for applications in the automotive industry. The temperature control systems are constructed for operation with Water-ethylene glycol mixture incl. corrosion protection (for example Glysantin®) down to -45°C. Typical applications include temperature simulations as well as material testing and temperature-dependent stress and load tests for automotive parts and functional components. The optionally available "Flow Control Cube" enables precise flow rate measurement and control.

Information on the temperature-dependent pressure sand flowrates rate with various thermal fluids can be found at www.huber-online.com

Pilot ONF:

The new Pilot ONE controller with pioneering technology and advanced control functions brings numerous advantages to routine work. The extensive features list includes a brilliant 5,7" TFT touchscreen display, USB and network connections, an integrated technical glossary and language support in 13 languages (EN, DE, FR, IT, ES, RU, CN, PT, JP, CZ, PL, KO, TR). The Pilot ONE has a convenient navigation system with easily remembered icons and menu categories which are colour sorted to make routine work simpler. Thanks to a favourites menu and One-Click operator guidance all important information is always just a few keystrokes away. Software wizards also help you to set up, ensuring correct settings. The USB port allows connection of the system to a PC or notebook. Together with the Spy software, requirements such as remote control or data transmission are easily achieved in a cost-effective manner. Network integration is easy with the internet port.

further functions:

E-grade Professional installed as standard, TAC (True Adaptive Control) - self optimising internal and cascade control, selectable temperature control mode (Internal/Process), programmer with 10 programs (max. 100 steps), ramp function (linear and non-linear), 5 point calibration, scalable graphic display, favourites menu, display resolution 0,01 K, integrated technical glossary, 2nd set point, user menus (Administrator level), calendar start, wallpaper selection.

3-2-2 warranty - registration required.

Technical data according to DIN 12876

Operating temperature range	-4595 °C
Temperature stability at -10°C	0,01 K
temperature set point / display	5,7" colour Touchscreen
Resolution of display	0,01 K
Internal temperature sensor	Pt100
Sensor external connection	Pt100
Interface digital	Ethernet, USB (Host u.
	Device), RS232
digital input	ECC ONE

digital input	ECS ONE
digital output	POKO ONE
Alarm message	optic, acoustic, relay
Safety classification	Class III / FL
Heating power	12 kW
Cooling power with	Water/ Glysantin 40/60
1.0000	04.1114

at 20°C	21 kW
at 0°C	17,5 kW
at -20°C	9,5 kW
at -30°C	5,5 kW
at -40°C	3 kW
Refrigeration machine	water-coole

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Refrigeration machine	water-cooled, CFC- and HCFC-free	
Refrigerant (ASHRAE, GHS)	R452A (A1, H280)	
Petrigerant quantity	2 2 kg	

Refrigerant quantity	3,2 Kg
Circulation pump:	MK pump
max. delivery	145 l/min
max. delivery pressure	5.5 bar
Pump connection	M38x1,5 male
Cooling water connection	G3/4 male

Technical data according to DIN 12876

Consumption at water 15°C, flow 0°C 858 l/h
min. cooling water differential pressure 1 bar
max. cooling water pressure 6 bar
min. filling capacity 14,8 l

Filling capacity expansion tank

Overall dimensions WxDxH **
Net weight

Power supply factory configured (3 Phase)

max. current (3 Phase)
Fuse (3 phase)
Degree of Protection
min. ambient temperature
max. ambient temperature

6 bar 14,8 l 16 l

730x860x1520 mm 439 kg

400V 3~ 50Hz 28 A 3x32 A IP20 5 °C

40 °C



Order-No.: 1096.0001.01

from Serial-No.: 367030 1.1/21

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original. Included Accessories:

mini-USB cable #54949, hose coupling cooling water for G3/4 male,

Optional accessories:

Data communication, temperature control / - connection hoses, thermofluids, further accessories, etc.: see catalog.

Output data valid for: Room temperature 20°C, cooling water inlet 15°C and 1 bar differential pressure between cooling water inlet and outlet. This temperature control unit has been designed to operate with cooling water up to 20°C. As the cooling water temperature increases, drop in the cooling power should be expected, and also an increased cooling water flow rate possible. Materiels used in the cooling water circuit include; copper, Stainless steel 1.4401, MS, PA, PPE, PTFE and EPDM. Please use suitable cooling water.

in accordance with EN60034-1 the following voltage and frequency tolerances are valid:

Voltage + / - 5% with a simultaneous frequency tolerance of + / - 2%

Example -5% voltage and +2% frequency -> not allowed! -5% voltage and - 2% frequency -> allowed

Information to Electromagnetic compatibility:

Classification (disturbance) to EN55011: Class A, Group 1

Attention: leakage current > 3,5mA

Standard delivery conditions - Power cable configuration:

- 1. Single-phase devices (230V/115V) -> with cable and plug
- 2. Three-phase devices with current consumption less than 63A -> with cable, without plug
- 3. Three-phase devices with current consumption greater than 63A -> without cable, without plug

This equipment is compliant to US-SNAP and all applicable EU laws. The US-SNAP end-use for this equipment is the industrial process refrigeration. Certification by a Notified Body upon request.

** Please respect space requirements. See operating conditions at www.huber-online.com

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