

Grande Fleur w



Hydraulically sealed Refrigerated Heating Circulator with water-cooled refrigerating unit. With atmospheric open expansion tank and optical level indicator.For externally closed applications. Powerful, variable speed pump, housing of stainless steel, CFC and H-CFC free. With adjustable overtemperature protection according to DIN 12876. High system performance (watt/litre) due to minimized internal volume. No HTF vapour and no moisture absorption because the expansion tank is thermally passive.

Pilot ONE:

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 | -40200 °C | |
|---------------------------------|--|-------------------------|
| Temperature stability at -10°C | 0,01 K | |
| emperature set point / display | 5,7" colour Touchscreen | |
| Resolution of display | 0,01 K | |
| nternal temperature sensor | Pt100 | |
| Sensor external connection | Pt100 | |
| nterface digital | Ethernet, USB (Host u. Device), RS232 | |
| ligital input | ECS ONE | |
| ligital output | POKO ONE | grande fleur |
| Alarm message | optic, acoustic, relay | |
| Safety classification | III / FL | I incige . |
| Heating power at 240V | 2 kW | 3 100 |
| leating power at 230V | 1,8 kW | |
| Heating power at 220V | 1,6 kW | |
| Heating power at 208V | 1,5 kW | |
| Cooling power with | Thermooil | |
| at 200°C | 0,6 kW | 1 |
| at 150°C | 0,6 kW | |
| at 100°C | 0,6 kW | ill m |
| at 50°C | 0,6 kW | |
| at 20°C | 0,6 kW | |
| Cooling power with | Ethanol | Order-No.: 1041.0007.01 |
| at 0°C | 0,6 kW | |
| at -20°C | 0,35 kW | |
| at -30°C | 0,2 kW | |
| at -40°C | 0,04 kW | |
| Refrigeration machine | water-cooled, natural | |
| | refrigerant | |
| Refrigerant (ASHRAE, GHS) | R290 (A3, H220) | |
| Refrigerant quantity | 0,08 kg | |
| Gas warning sensor | without | |
| Circulation pump: | | |
| nax. delivery | 47 l/min | |
| nax. delivery pressure | 0,9 bar | |
| Pump connection | M24x1,5 male | |
| max. permissible kin. viscosity | 50 mm²/s | |

Technical data according to DIN 12876

| from Serial-No.: | 401418 | 1.2/20 |
|--|------------------------|--------|
| max. ambient temperature | 40 °C | |
| min. ambient temperature | 5 °C | |
| Degree of Protection | IP20 | |
| max. Fuse | 16A | |
| min. Fuse | 10A | |
| max. current | 9,5 A | |
| Power supply requirement | 208-240V 1~/2~ 50/60Hz | |
| Net weight | 55 kg | |
| Overall dimensions WxDxH ** | 295x530x570 mm | |
| Filling capacity expansion tank | 31 | |
| min. filling capacity | 1,5 | |
| max. cooling water pressure | 6 bar | |
| min. cooling water differential pressure | 2 bar | |
| Consumption at water 15°C, flow -20°C | 36 l/h | |
| Consumption at water 15°C, flow 0°C | 49 l/h | |
| Consumption at water 15°C, flow 15°C | 51 l/h | |
| Cooling water connection | G1/2 male | |

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

Accessories and periphery: mini-USB cable #54949*, E-grade "Professional" #9496*, E-grade "Explore" #10495, hose connection for G1/2 male*, Adaptor M16x1 male to M24x1,5 female*, SpyLight-Software, Com.G@te, Thermofluid, metal hoses M16x1 or M24x1,5, external pressure sensor

Note: Pump connections: Bore shape Y (60°) according to DIN 3863, pipework/flexible tempering hoses: Ball socket according to DIN 3863, sleeve nut according to DIN 3870.

* standard equipment

Output data valid for: Room temperature 20°C, cooling water inlet °C and 2 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

Standard delivery conditions - Power cable configuration:

- 1. Single / two-phase devices (100V to 240V) --> with power cable and country-specific plug (please specify when ordering)
- 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