

Refrigerated Heating Circulator Bath with air-cooled cooling machine. Powerful, variable speed, pressure and suction pump, evaporator (cooler) and housing of stainless steel, CFC and H-CFC free. With adjustable overtemperature protection according to DIN 12876.

CC-Pilot: State of the art controller with new innovative E-grade technology for extended functionality without swapping the controller. An activation code is entered via the control panel and the proven Plug & Play technology for professional service. The bright TFT display shows all the process relevant data. User friendly interface: The functions self-explanatory and are listed in alphabetical order in each of the selected languages. The languages available are German, English, Spanish, Italian, French and Russian. Easy-Control: Is virtually identical to the unistats. The zoom function allows the values to be read from a distance. Display resolution in the basic version is 0,1K. Set point limits, optical and acoustical alarm, mains failure automatic function. Sensor calibration, control via RS232 interface and Com.G@te Namur (option) e.g. for connection to a process control system, remote control via data cable.

The functionality can be extended at anytime by activation code with E-grade (option):

E-grade "Exclusive": Graphic function, display resolution 0,01K, programmer with 3 programs each with 5 steps, temperature control mode (internal, process), TAC (True Adaptive Control), self-optimising internal and cascade control, ramp function.

E-grade "Professional": Administrator function, programmer with 100 segments which can be spread over 10 programs, external control via PT100 sensor (option), NLR (non linear ramping) for non-linear temperature profiles, 2nd set point, which can be activated under pre-specified alarm conditions, multi-point temperature sensor calibration.

The E-grade "Professional" requires the E-grade "Exclusive". 3-2-1 warranty - registration required.

Technical data according to DIN 12876

Operating temperature range	-90...200 °C
Temperature stability at -10°C	0,02 K
Temperature adjustment	digital
Temperature indication	digital
Internal temperature sensor	Pt100
Sensor external connection	Pt100
Analogue Interface In/Out (via Com.G@te)	0/4-20mA or 0-10V
Safety classification	Class III / FL
Heating power	1,8 kW
Cooling power	
at 100°C	1,2 kW
at 20°C	1,2 kW
at 0°C	1,2 kW
at -20°C	1,1 kW
at -40°C	0,9 kW
at -60°C	0,6 kW
at -80°C	0,2 kW
Refrigeration machine	air-cooled, CFC- and HCFC-free
Refrigerant	R507
Refrigerant quantity	0,7 kg
Refrigerant 2nd stage	R508B
Refrigerant quantity 2nd stage	0,3 kg
Pressure pump	
max. delivery	33 l/min
max. delivery pressure	0.7 bar
Suction pump	yes
max. delivery (suction)	22 l/min
max. delivery pressure (suction)	0.4 bar
Pump connection	M16x1 male
max. permissible kin. viscosity	50 mm ² /s
Bath volume	5 l
Width bath opening WxD / bath depth	120 x 110 / 150 mm
Overall dimensions WxDxH	550x600x911 mm
Height of bath opening	712 mm
Net weight	139 kg



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Technical data according to DIN 12876

Power supply requirement (3 phase)	460V 3~ 60Hz
max. ambient temperature	40 °C
min. ambient temperature	5 °C

from Serial-No.:

1.0/11

Technical details and dimensions are subject to change. No liability is accepted for errors or omissions.

Accessories and periphery: Adapter nom. dia. 12*, dummy plugs*, sleeve nuts thread M16x1*, connection tubes, drain valve, Com.G@te, PS level regulator #9580.

* standard equipment

Output data valid for: Room temperature 20° C