

Refrigerated Heating Circulator for open baths and closed system. Cooling with water-cooled HT-cooler. Closed circulation pump made of stainless steel with cooled shaft seal and shaft without bearing in the liquid. Automatical switch-over and capacity adaption for heating and HT-cooler. Expansion vessel with sight glass for closed systems, lockable for open baths. Moistened parts and housing made of stainless steel. With adjustable overtemperature protection according to DIN 12876.

Plug & Play Technology. Removable control panel for remote control from the workspace. Microprocessor controlled, interactive by NAMUR interfaces (RS232, RS485, 4-20mA). Safety classification FL, extended security with float in the expansion tank (option), self test automatically when starting. LED- and LCD-display, operation dialog controlled or direct input. Digital set point- and actual value indication. Programmer and sequence controller. Connection for external sensor. Calibrateable, multifunctional alarm, energy management, failure protection.

Technical Data

Operating temperature range	-90...300 °C
Temperature stability at -10°C	0,02 K
Temperature adjustment	digital
Temperature indication	digital
Resolution of display	0,1 K
Internal temperature sensor	Pt100
Sensor external connection	Pt100
Control input	14-24V
Dry contact POKO	30V/0.1A
Safety classification	FL
Heating power	6 kW
Cooling power with	Thermooil
at 300°C	4,5 kW
at 200°C	2,6 kW
at 150°C	8 kW
at 100°C	7 kW
at 50°C	5,5 kW
at 20°C	5,2 kW
Cooling power with	Ethanol
at 0°C	5,2 kW
at -20°C	5 kW
at -40°C	4,2 kW
at -60°C	3,1 kW
at -80°C	0,9 kW
Refrigeration machine	water-cooled, CFC-free
Refrigerant	R507 R23
Circulation pump:	
max. delivery	35 l/min
max. delivery pressure	1.5 bar
Delivery at 0,5 bar	30 l/min
Delivery at 1,0 bar	20 l/min
Pump connection	M30x1,5
Pump connection for hose	NW20
max. permissible kin. viscosity	50 mm ² /s
Cooling water connection	1/2"
Cooling water connection for hose	3/8"
Cooling water consumption at water 15°C, flow 0°C	470 l/h
min. cooling water differential pressure	3 bar
max. cooling water pressure	6 bar
min. filling capacity	6,4 l
Filling capacity expansion tank	6 l
Overall dimensions WxDxH	600x700x1560 mm
Net weight	424 kg
Power supply (3 Phase)	400V 3-N 50Hz
max. current (3 Phase)	21,5 A
Fuse (3 phase)	3x25 A
min. ambient temperature	5 °C



Order-No.: 553.0005

Technical Data

max. ambient temperature

32 °C

from Serial-No.:

62300

3.1/05

Huber reserve the right to change the technical specification without notice. Huber accepts no liability for printing errors.

Accessories and periphery: hose connection 1/2"* , Stopcock, connecting tubes, braided hoses for cooling water, external sensor, connecting cable, float switch in sight glass for extended security. 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 go for: Room temperature 20° C, cooling water inlet 15° C and 3 bar differential pressure between cooling water inlet and - outlet