SE-6 Heating Circulator

Heating Circulator with stainless-steel bath tank for internal and external temperature applications

JULABO Heating Circulators with stainless steel bath tanks are mainly used for internal and external temperature tasks. The new range of these models now have increased capacities, allowing for temperature application of larger external systems, as well as open systems. Simultaneous temperature applications of smaller objects can also be carried out directly in the internal bath of the circulator. Models from the TopTech and HighTech Series' are available with different bath sizes and features. Accessories for these units include test tube racks, bath covers etc. An integrated cooling coil is provided for temperature applications at near ambient or just below.

Your advantages

- VFD COMFORT DISPLAY
- Keypad for setpoints, warning/safety values and menu functions
- ICC (Intelligent Cascade Control), self-optimizing temperature control
- ATC3 3-Point-Calibration
- Pt100 External sensor connection for measurement and control
- SMART PUMP, electronically adjustable pump stages
- Early warning system for low liquid level (DBGM 203 06 059.8)
- Adjustable high temperature cut-out, visible via display
- RS232 interface for online communication
- Integrated programmer for 10 program steps

Made in Germany

Technical Data

Order No.	9252506
Model series	HighTech
Category	Heating Circulators
Working temperature range (°C)	+20 ... +300
Temperature stability (°C)	±0.01
Setting / display resolution	0.01 °C
Integrated programmer	1x10 steps
Temperature Display	VFD
Heating capacity (kW)	3
Pump capacity flow rate (l/min)	22-26
Pump capacity flow pressure (psi)	5.8-10.2
Pump capacity flow suction (psi)	2.9-5.8
Bath opening / bath depth (W x L / D inch)	5.1 x 5.9 / 7.9
Pump connections	M16x1
Barbed fittings diameter (inner dia. / mm)	8 / 12
Filling volume liters	6
External Pt100 sensor connection	integrated
Digital interface	RS232 Optional: Profibus

Ambient temperature	5...40 °C
Dimensions W x L x H (inch)	8.3 x 16.9 x 17.3
Weight (LBS)	29.7
Classification according to DIN12876-1	Classification III (FL)
Included with each unit	2 each barbed fittings for tubing 8 and 12 mm inner dia. (pump connections M16x1 female).
Cooling coil	integrated
Bath tank	Stainless steel
Power requirement V / Hz / A	230/50-60/13
Available voltage versions	230 V / 50-60 Hz

Built-in cooling coil for tap water connection for temperature applications below or near ambient temperatures are integrated.

Characteristics

Display

A perfect view
Ample, easy to read VFD Comfort display for simultaneous display of 3 values, warning functions, high temperature cut-off, pump stages (resolution 0.01 °C)

Pump stage and liquid level
Backlit indicator for selected pump stages and filling volume on Presto® PLUS, Magnum 91 & Forte HT

Operation

Comfortable and detailed
Comfortable keypad with additional menu functions for pump stages, calibration, control parameters, programmer, warnings, etc.

Temperature Control

For perfect results
'**I**ntelligent **C**ascade **C**ontrol', automatic & self optimizing adjustment of PID control parameters, temperature stability ±0.005 °C internal, <±0.05 °C external

Full control
'**T**emperature **C**ontrol **F**eatures' for individual optimization, access to all important control parameters, additional settings for band limit, limits, Co-Speedfactor etc.

Highest measuring accuracy
'**A**bsolute **T**emperature **C**alibration' for manual compensation of a temperature difference, 3-point calibration

Technical Features

Clever pump system
Reliable and consistent pump capacity, electronically adjustable pump stages

Control from the external application
External Pt100 sensor connection for precise measurement and control directly in the external application

Serial connection
RS232 interface for PC connection, e.g. for data communication and recording of measured values

Easy program control
Integrated programmer for the execution of time and temperature dependant profiles, 1 temperature profile with 10 steps max., with real time clock

Warning & Safety Functions

Early warning system for low liquid level
Maximum safety for applications, optical and audible alarm, allows user to refill bath fluid before the unit shuts down

Early warning system for high/low temperature limits
Maximum safety for applications, optical and audible alarm, convertible to automated cut-off function

Enhanced protective functions
Maximum safety, adjustable high temperature cut-off or dry-running protection, additional display of setpoints permits easy and precise adjustments

For flammable bath fluids
Classification III (FL) according to DIN 12876-1

JULABO Contact

JULABO USA Inc.
884 Marcon Boulevard, Allentown, PA 18109
Phone: 610-231-0250
Phone: 800-458-5226 (Toll-Free)

info.us@julabo.com

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