



## PRESTO A85 Process system



High cooling capacities enable extremely low temperatures down to -85 °C possible. The high heating capacity, particularly with the A85t and the W85t, provides even more flexibility in the application.

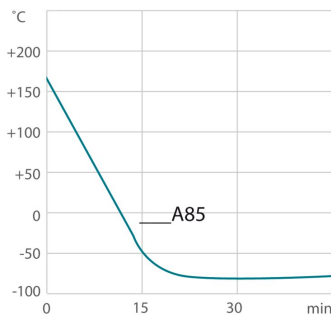
The highly dynamic temperature control systems PRESTO are designed for high-precision temperature control for a wide range of applications such as reactor vessels or material stress tests. Moreover, by using efficient components, the process systems can compensate exothermic and endothermic reactions exceptionally fast. Permanent internal monitoring and self-lubricating pumps ensure a long life-time. In addition, numerous interfaces offer many remote control possibilities across networks or for integration into higher-level control systems.



### Product features

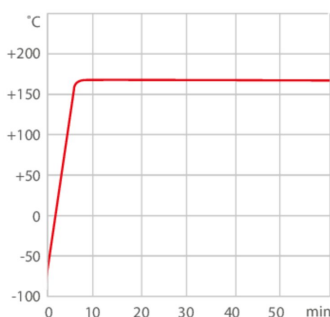
- Cooling capacity up to 2.8 kW
- External Pt100 sensor connection
- Connections for alarm-output, Pt100 external sensor and standby-input
- Analog connections, RS485, Profibus DP (accessory)
- Built-in 5.7" industrial color touchscreen
- Second external Pt100 sensor connection (accessory)
- Alarm output
- Heating capacity up to 15 kW
- Temperature stability  $\pm 0.05$  °C ...  $\pm 0.1$  °C
- Pump pressure up to 3 bar, max. flow rate 80 l/min
- Removable ventilation grid

### Cool-down time



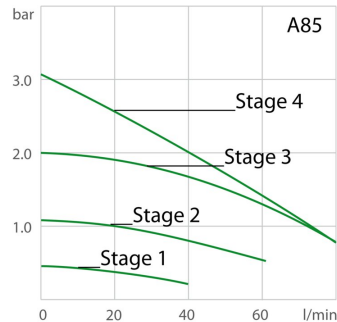
Medium: Thermal HL

### Heat-up time



Medium: Thermal HL

### Pump capacity

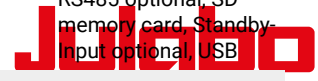


### Performance values

230V/3PPE/60Hz (Without Plug)	
Heating capacity kW	6
Viscosity max. cSt	50
Pump capacity flow pressure l/min	0 ... 80
Pump capacity pressure psi	1.5 ... 43.5
Power consumption A	33



Pump type	Centrifugal Pump	Interfaces	Alarm output, Ethernet, Modbus, Profibus optional, REG/EPROG optional, RS232, RS485 optional, SD memory card, Standby input optional, USB
Pump type Magnetically coupled	1		



External pt100 sensor connection	integrated
2nd external Pt100 sensor connection	accessory
Integrated programmer	8x60 steps
Temperature control	ICC
Absolute temperature calibration	3 Point Calibration
Temperature display	5.7" TFT Touchscreen
Temperature setting	Touchscreen

Dimensions and volumes	
Internal usable expansion volume l	7
Minimal process volume l	9.5
Active heat exchanger volume l	5
Weight lbs	804.7
Dimensions in. (W x L x H)	24 x 42.5 x 49.2
Pump connections	M30x1.5 male

Temperature values	
Setting the resolution of the temperature display °C	0.01
Working temperature range °C	-85 ... +250
Temperature stability °C	±0.05 ... ±0.1
Ambient temperature °C	+5 ... +40
Temperature display resolution °C	0.01

**All Benefits**



**Touch display. Perfect operation.**  
 With the touch display, the user always has an overview of all values and functions. The intuitive and multilingual menu structure enables perfect control.



**Convenience for several users**  
 Administrator level for customizing instrument settings, user levels with limited permissions for fast and safe defined access, password protection, all levels adjustable



**100 % Cooling capacity**  
 'Active Cooling Control' for cooling available throughout the entire working temperature range, fast cool-down even at higher temperatures



**Intelligent temperature control.**  
 Intelligent cascade control - automatic and self-optimizing adaptation of the PID control parameters with external stability of +/- 0.05 °C.



**Full control**  
 'Temperature Control Features', for individual optimization, access to all important control parameters, additional settings for band limit, limits, co-speedfactor etc.



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



**Highest measuring accuracy**  
 'Absolute Temperature Calibration' for manual compensation of a temperature difference, 3-point calibration



**Intelligent pump system**  
 Reliable and consistent pump capacity, electronically adjustable pump stages or pressure value, automatic adjustment of pump capacity to viscosity



**Many interfaces.**  
 Straight-forward remote control, data management, and integration into process structures. USB, Ethernet, RS232, SD card, and alarm off are permanently integrated. Further interfaces available as accessories.



**Space-saving footprint**  
 All connections as well supply and exhaust air are located at the front or rear, no venting grids on the sides, units can be placed close to each other or the application



**Continuous operation up to +40 °C**  
Robust temperature control instrument, continuous operation even at ambient temperatures of up to +40 °C



**Duplicate safety**  
Adjustable high temperature cut-off for internal tank and for integrated expansion vessel



**Quick support**  
If an error occurs, the integrated Black-Box function permits fast diagnosis by the JULABO service team



**Green technology.**  
Development consistently applied environmentally friendly materials and technologies.



**Quick start.**  
Individual JULABO consultation and comprehensive manuals at your disposal.



**Services 24/7.**  
Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at [www.julabo.com](http://www.julabo.com).



**Maximum safety.**  
Classification III according to DIN12876-1 enables safe operation, even with flammable fluids. Automatic switch-off in the event of high temperature or low liquid level.

**Julabo**



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



**100% Checked.**  
100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



**JULABO. Quality.**  
Highest standards of quality for a long product life.



**Satisfied customers.**  
11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.