

The Power of Thermodynamics™

PRESTO® A45 / A45t

Highly Dynamic Temperature Control System

For laboratory and industrial scale



Power & performance

- Cooling capacity up to 3.5 kW
- Heating capacity up to 12 kW
- Pump capacity up to 3.2 bar or 76 l/min

Ideal for professional temperature control solutions; e. g. jacketed reactors, reactor systems, mini plants, kilo labs, process technology, vacuum chambers, material and component testing, and more





PRESTO® A45 / A45t

JULABO	PRESTO A45	PRESTO A45t				
JULABO Order number	9 420 452	9 420 452.T				
Working temperature range °C	-45 ... +250	-45 ... +250				
Temperature stability °C	±0.05 ... ±0.1	±0.05 ... ±0.1				
Setting / display resolution °C	±0.01	±0.01				
Integrated programmer	8 x 60 steps	8 x 60 steps				
Temperature display	5.7" TFT Touchscreen	5.7" TFT Touchscreen				
Heating capacity kW	6 @ 400V; 6 @ 230V; 5.5 @ 208V	12 @ 400V; 12 @ 230V; 10 @ 208V				
Cooling capacity °C (Bath fluid Thermal HL60 / Ethanol) kW	200 / 20 0 -10 -20 -30 -40 3.4 / 3.5 3.3 2.6 1.8 1.0 0.3	200 / 20 0 -10 -20 -30 -40 3.4 / 3.5 3.3 2.6 1.8 1.0 0.3				
Pump capacity flow rate l/min	35 ... 76	35 ... 76				
Pump capacity pressure bar	0.48 ... 3.2 @ 400V; 0.48 ... 3.2 @ 230V; 0.48 ... 3.0 @ 208V	0.48 ... 3.2 @ 400V; 0.48 ... 3.2 @ 230V; 0.48 ... 3.0 @ 208V				
Pump connections	M30 x 1.5	M30 x 1.5				
Refrigerant	R507	R507				
Pt100 external sensor connection	Included	Included				
Digital interfaces	RS232, SD Card, USB, Ethernet, Modbus, Alarm output Optional: RS485, Profibus	RS232, SD Card, USB, Ethernet, Modbus, Alarm output Optional: RS485, Profibus				
Analog inputs/outputs	Optional	Optional				
Cooling of compressor	single stage, air-cooled	single stage, air-cooled				
Process volume min. liters (active heat exchanger volume)	7.5 (3.5)	7.5 (3.5)				
Internal usable expansion volume liters	7.5	7.5				
Classification acc. to DIN 12876-1	Class III (FL)	Class III (FL)				
Noise level max. dbA (distance 1 m)	69	69				
Viscosity max. cSt.	50	50				
Permissible ambient temperature °C	5 ... 40	5 ... 40				
Dimensions W x D x H cm	53 x 66.5 x 126	53 x 66.5 x 126				
Weight kg	210	210				
Available voltage versions						
JULABO Order number	9 420 452.07	9 420 452.06	9 420 452.16	9 420 452.07.T	9 420 452.06.T	9 420 452.16.T
Nominal voltage V / Hz	3 x 400 / 50 ±10 %	3 x 230 / 50 ±10 %	3 x 208-230 / 60 ±5 %	3 x 400 / 50 ±10 %	3 x 230 / 50 ±10 %	3 x 208-230 / 60 ±5 %
Nominal current A	13	25	23 A @ 208 V / 25 A @ 230 V	22	40	38 A @ 208 V / 40 A @ 230 V
Plug	16A CEE plug	32A CEE plug	Without plug	32A CEE plug	64A CEE plug	Without plug

All data refers to the nominal voltage and nominal frequency and ambient temperature of +20 °C. Cooling capacity measured at max. pump stage.
All pump data refers to a bath fluid with a specific density of 1 kg/dm³.