

The Power of Thermodynamics™

# PRESTO® A85 / A85t W85 / W85t

Highly Dynamic Temperature Control Systems for laboratory and industrial scale



## Power & performance

- Extremely wide temperature range from -85 to +250 °C
- Cooling capacity up to 2.8 kW
- Heating capacity up to 15 kW
- Pump capacity up to 3.2 bar or 80 l/min

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



## PRESTO® A85 / A85t

JULABO	PRESTO A85	PRESTO A85t
<b>JULABO order number</b>	<b>9 420 852</b>	<b>9 420 852.T</b>
<b>Working temperature range °C</b>	-85 ... +250	-85 ... +250
<b>Temperature stability °C</b>	±0.05 ... ±0.1	±0.05 ... ±0.1
<b>Setting / display resolution °C</b>	±0.01	±0.01
<b>Integrated programmer</b>	8 x 60 steps	8 x 60 steps
<b>Temperature display</b>	5.7" TFT Touchscreen	5.7" TFT Touchscreen
<b>Heating capacity kW</b>	6 @ 400V; 6 @ 230V; 5.5 @ 208V	15 @ 400V / 15 @ 230V / 12.5 @ 208V
<b>Cooling capacity °C</b>	200 / 20 0 -20 -40 -60 -80	200 / 20 0 -20 -40 -60 -80
<b>(Bath fluid Thermal HL60 / Ethanol) kW</b>	2.8 / 2.5 2.4 2.4 2.4 2.2 0.4	2.8 / 2.5 2.4 2.4 2.4 2.2 0.4
<b>Pump capacity flow rate l/min</b>	35... 80	35... 80
<b>Pump capacity pressure bar</b>	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
<b>Pump connections</b>	M30 x 1.5 male	M30 x 1.5 male
<b>Refrigerant</b>	R507 / R23	R507 / R23
<b>Pt100 external sensor connection</b>	Included	Included
<b>Digital interfaces</b>	RS232, RS485, Optional Profibus, SD memory card, USB, Ethernet, Modbus	RS232, RS485, Optional Profibus, SD memory card, USB, Ethernet, Modbus
<b>Analog inputs/outputs</b>	Optional	Optional
<b>Cooling of compressor</b>	Dual stage, air-cooled	Dual stage, air-cooled
<b>Process volume min. liters (active heat exchanger volume)</b>	9.5 (5)	9.5 (5)
<b>Internal usable expansion volume liters</b>	7	7
<b>Classification acc. to DIN 12876-1</b>	Class III (FL)	Class III (FL)
<b>Noise level max. dbA (distance 1 m)</b>	69	69
<b>Viscosity max. cSt.</b>	50	50
<b>Permissible ambient temperature °C</b>	5 ... 40	5 ... 40
<b>Cooling water connection</b>	-	-
<b>Cooling water consumption l/min</b>	-	-
<b>Cooling water differential pressure bar</b>	-	-
<b>Dimensions W x L x H cm</b>	61 x 108 x 125	61 x 108 x 125
<b>Weight kg</b>	365	365

### Available voltage versions

<b>JULABO order number</b>	9 420 852.07	9 420 852.06	9 420 852.16	9 420 852.07.T	9 420 852.06.T	9 420 852.16.T
<b>Nominal voltage V / Hz</b>	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 %
<b>Nominal current A</b>	18	30	30 A @ 208 V / 33 A @ 230 V	31	52	52 A @ 208 V / 55 A @ 230 V
<b>Plug</b>	32A CEE plug	63A 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/dm<sup>3</sup>.



## PRESTO® W85 / W85t

JULABO	PRESTO W85	PRESTO W85t
<b>JULABO order number</b>	<b>9 421 852</b>	<b>9 421 852.T</b>
<b>Working temperature range °C</b>	-85 ... +250	-85 ... +250
<b>Temperature stability °C</b>	±0.05 ... ±0.1	±0.05 ... ±0.1
<b>Setting / display resolution °C</b>	±0.01	±0.01
<b>Integrated programmer</b>	8 x 60 steps	8 x 60 steps
<b>Temperature display</b>	5.7" TFT Touchscreen	5.7" TFT Touchscreen
<b>Heating capacity kW</b>	6 @ 400V; 6 @ 230V; 5.5 @ 208V	15 @ 400V; 15 @ 230V; 12.5 @ 208V
<b>Cooling capacity °C</b>	200 / 20 0 -20 -40 -60 -80	200 / 20 0 -20 -40 -60 -80
<b>(Bath fluid Thermal HL60 / Ethanol) kW</b>	2.8 / 2.5 2.4 2.4 2.4 2.2 0.4	2.8 / 2.5 2.4 2.4 2.4 2.2 0.4
<b>Pump capacity flow rate l/min</b>	35... 80	35... 80
<b>Pump capacity pressure bar</b>	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
<b>Pump connections</b>	M30 x 1.5 male	M30 x 1.5 male
<b>Refrigerant</b>	R507 / R23	R507 / R23
<b>Pt100 external sensor connection</b>	Included	Included
<b>Digital interfaces</b>	RS232, RS485, Optional Profibus, SD memory card, USB, Ethernet, Modbus	RS232, RS485, Optional Profibus, SD memory card, USB, Ethernet, Modbus
<b>Analog inputs/outputs</b>	Optional	Optional
<b>Cooling of compressor</b>	Dual stage, water-cooled	Dual stage, water-cooled
<b>Process volume min. liters (active heat exchanger volume)</b>	9.5 (5)	9.5 (5)
<b>Internal usable expansion volume liters</b>	7	7
<b>Classification acc. to DIN 12876-1</b>	Class III (FL)	Class III (FL)
<b>Noise level max. dbA (distance 1 m)</b>	69	69
<b>Viscosity max. cSt.</b>	50	50
<b>Permissible ambient temperature °C</b>	5 ... 40	5 ... 40
<b>Cooling water connection</b>	G 3/4" with barbed fittings for tubing 1/2" ID	G 3/4" with barbed fittings for tubing 1/2" ID
<b>Cooling water consumption l/min</b>	2 ... 6	2 ... 6
<b>Cooling water differential pressure bar</b>	0.5	0.5
<b>Dimensions W x L x H cm</b>	61 x 84.5 x 125	61 x 84.5 x 125
<b>Weight kg</b>	335	335

### Available voltage versions

<b>JULABO order number</b>	9 421 852.07	9 421 852.06	9 421 852.16	9 421 852.07.T	9 421 852.06.T	9 421 852.16.T
<b>Nominal voltage V / Hz</b>	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 %
<b>Nominal current A</b>	18	30	30 A @ 208 V / 33 A @ 230 V	31	52	52 A @ 208 V / 55 A @ 230 V
<b>Plug</b>	32A CEE plug	63A CEE plug	Without plug	32A CEE plug	63A 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/dm<sup>3</sup>.



## GERMANY Headquarters

**JULABO GmbH**  
Gerhard-Juchheim-Strasse 1  
77960 Seelbach  
Germany

Tel. +49 (0) 7823 51-0  
Fax +49 (0) 7823 2491  
info.de@julabo.com  
www.julabo.com

**ITALY**  
JULABO Italia Srl.  
www.julaboitalia.it

**UK**  
JULABO UK, Ltd.  
www.julabo.com

**FRANCE**  
JULABO France  
www.julabo.com

**NETHERLANDS**  
JULABO Nederland B.V.  
www.julabo.com

**NORTH AMERICA**  
JULABO USA, Inc.  
www.julabo.com

**JAPAN**  
JULABO Japan Co., Ltd.  
www.julabo-japan.co.jp

**KOREA**  
JULABO Korea Co., Ltd.  
www.julabo-korea.co.kr

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JULABO Technology (Beijing) Co., Ltd.  
www.julabo.com.cn

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JULABO Latin America  
www.julabo-latinamerica.com

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