The New PRESTO®





Hot & Cold

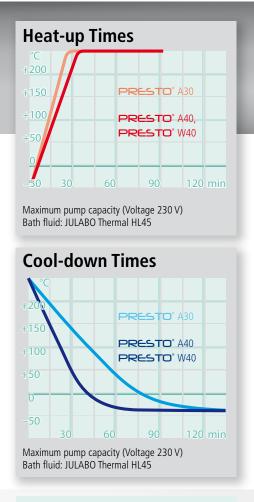
A Brand New Generation of Highly Dynamic Temperature Control Systems by JULABO

Reactor temperature control, tests for all kinds of substances or temperature simulation — the new PRESTO® are made for highly precise temperature control and rapid temperature changes.

PRESTO* provide large heating and cooling capacities covering a working temperature range from -40 °C to +250 °C. Highly efficient components allow extremely fast compensation of exothermic and endothermic reactions.

For optimized performance during operation the maximum heating capacity adjusts automatically to the power input of the main power supply (A40, W40).

The **PRESTO**® is hydraulically sealed. Temperature induced volume changes within the heat exchanger are accommodated by an integrated, cooled expansion vessel.

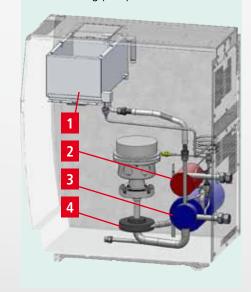




The PRESTO® Principle

(with integrated refrigeration system)

- Expansion vessel (1)
- Heat exchanger
 - Heating section (2)
 - Refrigeration section (3)
- Circulating pump (4)



Stay in Touch

execution by limited access users.

JULABO Sets New Standards for Intuitive Operation





A special feature of the new **PRESTO*** is the integrated 5.7" industrial touch screen. All important information is displayed clearly and concisely enhancing ease of use considerably. The new **PRESTO*** can be operated intuitively with the tip of your finger.

All essential information is presented in three pre-set views — everything important at a glance. In addition to the pre-set views you can customize your own views anytime. A total of eight languages are available.

Smooth laboratory workflow through innovative features: Password management permits the installation of two additional user levels via an administrator level.

The administrator can prioritize and schedule recurring daily tasks. This allows for easy

The PRESTO® Operation

- **NEW** 5.7" industrial color touch screen
- **NEW** User defined views
- NEW 3 user levels with password protection
- Clearly structured display
- Intuitive menu navigation (multi-lingual)



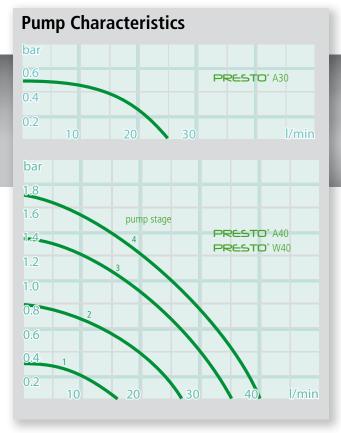
Pump Power

Powerful Pumps Provide High Flow Rates at Constant Pressure

Continuous parameter monitoring provides for the right pressure at any time. The pumps dynamically compensate for any viscosity changes of the temperature control fluid (A40, W40). Permanent internal monitoring and self-lubricating pumps ensure a long operating life of the new **PRESTO***.

The new **PRESTO**® feature a closed temperature control circuit. The bath fluid has no contact with ambient air. Ergo: no moisture, no oxidation. Thus the lifetime of the bath fluid is increased significantly.

The closed circuit prevents the new **PRESTO**® from releasing oil vapors.



The PRESTO® Pump

- **NEW** The pump capacity of the **PRESTO**® A40 and W40 can be adjusted in four stages or via a specified pressure value
- Permanently monitored pressure build-up
- Dynamic compensation of viscosity changes



Always Ready

Many Useful Features Simplify your Laboratory Routine

The new PRESTO® work with one bath fluid covering the entire working temperature range. That saves you from frequently changing the bath fluid and stocking extra bath fluid. The filling funnel of the new PRESTO® is easily accessible on top of the unit.

As the new **PRESTO**® operate whisper quiet, you will hardly hear them in your laboratory. Even high room temperatures of up to +40 °C will not make the new **PRESTO®** sweat. Maintenance-free pumps and drives guarantee operational readiness.

All this ensures the maximum performance of the new **PRESTO**®. JULABO provides comprehensive support and short response times – anywhere in the world.

Application tips

Air or Water Cooling

The new PRESTO® are available with air or water cooling.

Air-cooled units do not use water and permit free positioning. We especially recommend air-cooled units when you look for a mobile solution. However, please note that the units use ambient air and heat-up the surroundings slightly.

Water-cooled units are connected to existing cooling water lines. These units are even guieter and can be completely encased by the respective application. Robust, wear-free heat exchangers guarantee the water-cooling of the new **PRESTO**®. This improves the efficiency of the heat exchanger drastically.

Your PRESTO® Benefits

- Continuous operation at ambient temperatures up to +40 °C
- temperature range



Interfaces Unlimited

Extensive Interfaces. Remote Control via Network and Integration in Master Control Systems

The new PRESTO® feature an Ethernet interface for network connection. This interface permits full access to all operational functions of the new PRESTO®. To permit remote control via a network, the user interface of the touch panel is displayed 1:1 on the screen of the network PC.

The USB interface — a novelty for dynamic temperature control systems — permits wireless control of the new PRESTO® from your workstation. Wireless remote control of the new PRESTO® can easily be done by using the *WirelessTEMP* products.





The PRESTO® Interfaces

- **NEW** USB (host and device)
- **NEW** Ethernet interface
- **NEW** Slot for SD cards
- RS232
- Connections for
 - Alarm output
 - Pt100 external sensor
 - Standby input (Accessory)
 - Analog inputs and outputs (Accessory)
 - Flow sensors and pressure sensors (for PRESTO® A40, W40)
- Optional Interfaces:
 - Profibus DP
 - RS485
 - Modbus





One of a Kind

State-of the-Art Technology Designed for Requirements in Modern Laboratories

The new PRESTO® are the only highly dynamic temperature control systems with closed sides — a JULABO tradition. A key requirement for development is the consistent channelling of airflow from the front to the back. This design does away with venting slots at the sides. The required installation space is reduced to an absolute minimum. PRESTO® easily fits into tight spaces.

The design of the new PRESTO® also conforms to ergonomic criteria. The new PRESTO® can be transported by a single person as easily as pulling a cart. Slightly lift the new PRESTO® with its integrated telescopic handle at the front and move it on the back rollers.







The new PRESTO® by JULABO:

				an pi			
JULABO Model	PRESTO	A30					
Working temperature range	-30 +25	0 °C					
Temperature stability	±0.01 ±	:0.05 °C					
Temperature control	ICC (Intellig	gent Cascade Co	ontrol)				
User Interface							
Temperature setting / Display	5.7" indus	trial color TFT to	uch screen				
Operating languages	German, Er	nglish, French, Տր	oanish, Italiar	, Chinese, Jap	anese, Russiar	ı	
Setting / Display resolution	±0.01 °C						
Graphical user interface	Intuitive wi	ith interactive us	er guidance a	nd password	management (of user levels	
Heating Capacity	2.7 kW @	230 V 2.3 kW	@ 208 V 2.1	kW @ 200 V			
Cooling Capacity °C	+200	+200 +100 +20 0 -10 -20 -30					
(JULABO Thermal HL Ethanol) kV	V 0.5	0.5	0.5	0.4	0.3	0.2	0.05
Pump							
Pump capacity	0.5 bar						
Flow rate max. (at 0 bar)	25 l/min						
Compatible thermal fluids	JULABO Th	ermal, Silicon Oi	l, Fluorinert ™	¹, Galden®			
Viscosity max.	50 mm²/s ((50 cSt)					
Pump connections	M24 x 1.5 male						
Process volume min. (active heat exchanger volume)	2.4 liters (1.4 liters)						
Internal usable expansion volume	1.5 liters						
Digital / Analog Interfaces							
Standard	Ethernet, R	rnal Temperature	•		,		
Accessory		erface Module (I	nput, Output,	Standby-In), F	RS485, Profibu	is DP, Modbus	
Safety Installations (according to IEC 61010-2-010							
Excess temperature protection		leservoir, adjusta	ble				
Low liquid level protection	Float switc						
Classification according to DIN 12876-1	Class III (FL	_)					
Additional JULABO Safety Installations							
Supervision of working sensors	Plausibility	control					
Reciprocal sensor monitoring between working and safety sensors	Difference	> 25 °C					
Alarm message	Optical and	d audible					
Refrigeration unit	1-stage, aiı	r-cooled					
Cooling water connection							
Permissible ambient temperature range	+5 +40)°C					
Noise level (distance 1 m)	54 dBA						
Power requirement	200-230 V	(-5%,+10%) / 50) Hz (15 A) or	208 V (±10%)	/ 60 Hz (13.5 /	Α)	
Weight	62.0 kg						
Overall dimensions W x L x H	242 x 583	x 612 mm					
JULABO Order No.	9 420 30	0					
All I are the second of the se							

All data refers to the nominal voltage of 230 V, nominal frequency of 50 Hz 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.

Versatile, Convenient, Safe and Reliable

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Temperature stability	JULABO Model	PRE	STO A	40					PREST	O W	40			ı	
Note Interface	Working temperature range	-40 .	-40 +250 °C				-40 +250 °C								
See Interface See Interface See	Temperature stability	±0.0	±0.01 ±0.05 °C				±0.01 ±0.05 °C								
Coperating languages	Temperature control	ICC (Intelligen	t Casca	de Cor	itrol)			ICC (Inte	lligent (Cascade	Cont	rol)		
Setting / Display resolution	User Interface														
Setting / Display resolution 10.01 C	Temperature setting / Display	5.7"	industria	color ⁻	ΓFT tou	ch scre	en		5.7" ind	ustrial c	olor TF	Γ toucl	n screei	า	
Property	Operating languages			Germa	n, Engli	sh, Fre	nch, Sp	anish,	Italian, C	hinese,	Japane	se, Ru	ssian		
Cooling Capacity	Setting / Display resolution	±0.0	1 °C						±0.01 °0	_					
Coling Capacity	Graphical user interface		Intuiti	ve with	intera	tive us	er guid	lance a	and passv	vord ma	anagem	ent of	user le	vels	
Mathematic Entanol E	Heating Capacity				2.7 kV	/ @ 23	0 V 2	.3 kW	@ 208 V	2.1 k\	N @ 20	00 V			
Pump Pump capacity 0.3 1.7 bar 0.3 1.7 bar Flow rate max. (at 0 bar) 16 40 l/min 16 40 l/min 16 40 l/min Compatible thermal fluids 3 JULABO Thermal, Sillcor III, Fluorinert III, Galden® Viscosity max. 50 mm³/s (50 cSt) 50 mm³/s (50 cSt) Pump connections M24 x 1.5 male M24 x 1.5 male Process volume min, (active heat exchanger volume) 3.5 liters (1.7 liters) 3.5 liters (1.7 liters) Digital / Analog Interfaces 2.7 liters 2.7 liters Standard Pr100 External Temperature Sensor, USB, USB Host, SDB Most, SDB Memory Card (up to 2 cB), Ethernet, RS232, Alarm out Analog Interface Module (input, Output) Standby-In, RS485, Profibus DP, Modbus Safety Installations (according to IEC 61010-2-010) Tank and Reservoir, adjustable Float switch Low liquid level protection Float switch Float switch Class IIII (FL) Float switch Float switch Class IIII (FL) Ploat switch Flo	Cooling Capacity °C	+200	+20	0	-10	-20	-30	-40	+200	+20	0	-10	-20	-30	-40
Pump capacity 0.31.7 bar 0.31.7 bar Flow rate max. (at 0 bar) 1640 l/min 1640 l/min Compatible thermal fluids JULABO Thermal, Sillicor ™, Galden° Viscosity max. 50 mm³/s (50 cSt) 50 mm³/s (50 cSt) 50 mm³/s (50 cSt) Pump connections M24 x 1.5 male M24 x 1.5 male M24 x 1.5 male Process volume min. (active heat exchanger volume) 3.5 liters (1.7 liters) 3.5 liters (1.7 liters) 3.5 liters (1.7 liters) Digital / Analog Interfaces Pr100 External Temperature Sensor, USB, USB Host, Standard Accessory Pr100 External Temperature Sensor, USB, USB Host, Standard So Memory Card (up to 2 cB), Ethernet, RS232, Alarm out Analog Interface Module (Input, Output, Standby-In), RS485, Profibus DP, Modbus Safety Installations (according to IEC 61010-2-010) Excess temperature protection Tank and Reservoir, adjustable Final switch Float switch Float switch Float switch Float switch Glass III (FL) Class I	(JULABO Thermal HL Ethanol) kV	1.2	1.2	0.9	8.0	0.6	0.3	0.1	1.2	1.2	1.0	0.8	0.55	0.3	0.06
Flow rate max. (at 0 bar) Compatible thermal fluids Viscosity max. Viscosity (Inters) Viscosity (Pump														
Nomerible thermal fluids SULABO Thermal, Sillow Fluorinert ™, Galden® Somewisk (Sol Cst) Somewisk (Sol Cst) Pump connections M24 x 1.5 male M24 x 1.5 male Process volume min. (active heat exchanger volume) 3.5 liters (1.7 liters) 3.5 liters (1.7 liters) Internal usable expansion volume 2.7 liters 2.7 liters Standard Sol Memory Card (up to 2 GB), Ethernet, RS232, Alarm out Accessory Analog Interface Module (input, Output, Standby-In), RS485, Profibus DP, Modbus Safety Installations (according to IEC 61010-2-010) Excess temperature protection Analog Interface Module (input, Output, Standby-In), RS485, Profibus DP, Modbus Safety Installations (according to DIN 12876-1 Glass III (FL) Glass III (FL) Additional JULABO Safety Installations Supervision of working sensors Plausibility control Plausibility control Reciprocal sensor monitoring between working and safety sensors Optical and audible Optical and audible Refigeration unit 1-stage, air-cooled 1-stage, water-cooled Cooling water connection Sid BA Power requirement Sid BA Power requirement Sid BA Power requirement Sid BA Sid Ba Sid Ba Sid Ba Sid Ba Sid Ba Sid Ba Sid Ba Sid Ba Sid Ba Sid Bi Michal Sid Ba Sid B	Pump capacity	0.3	. 1.7 bar						0.3 1.	7 bar					
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Process volume min. (active heat exchanger volume) Internal usable expansion volume 2.7 liters 2.7 liters 2.7 liters 2.7 liters 2.7 liters Pt100 External Temperature Sensor, USB, USB Host, SD Memory Card (up to 2 GB), Ethernet, RS232, Alarm out Analog Interface Module (Input, Output), Standby-In), RS485, Profibus DP, Modbus Safety Installations (according to IEC 61010-2-010) Excess temperature protection Tank and Reservoir, adjustable Tank and Reservoir, adjustabl	Viscosity max.	50 m	50 mm ² /s (50 cSt)				50 mm ² /s (50 cSt)								
Internal usable expansion volume 2.7 liters 2.7 liters Digital / Analog Interfaces Standard Pt100 External Temperature Sensor, USB, USB Host, SDD Memory Card (up to 2 GB), Ethernet, RS232, Alarm out Analog Interface Module (Input, Output, Standby-In), RS485, Profibus DP, Modbus Safety Installations (according to IEC 61010-2-010) Excess temperature protection Tank and Reservoir, adjustable Tank and Reservoir, adjustable Low liquid level protection Float switch Float switch Classification according to DIN 12876-1 Class III (FL) Class III (FL) Additional JULABO Safety Installations Supervision of working sensors Plausibility control Plausibility control Plausibility control Reciprocal sensor monitoring between working and safety sensors Difference > 25 °C Difference > 25 °C Difference > 25 °C Alarm message Optical and audible Optical and audible Optical and audible Optical and audible Cololing water connection G 3/4" / fitting for tubing 1/2" ID Permissible ambient temperature range + 5 +40 °C + 5 +40 °C Noise level (distance 1 m) 55 dBA 53 dBA Power requirement	Pump connections	M24	x 1.5 ma	le					M24 x 1.5 male						
Digital / Analog Interfaces Standard Pt 100 External Temperature Sensor, USB, USB Host, SD Memory Card (up to 2 GB). Ethernet, RS232, Alarm out Analog Interface Module (Input, Output, Standby-In), RS485, Profibus DP, Modbus Safety Installations (according to IEC 61010-2-01) Excess temperature protection Tank and Reservoir, adjustable Low liquid level protection Float switch Class III (FL) Class III (FL) Class III (FL) Additional JULABO Safety Installations Supervision of working sensors Plausibility control Plausibility control Reciprocal sensor monitoring between working and safety sensors Difference > 25 °C Difference > 25 °C Alarm message Optical and audible Optical and audible Coling water connection 1-stage, air-cooled 1-stage, water-cooled Coling water connection 6 3/4" / fitting for tubing 1/2" ID Power requirement 55 dBA 33 dBA Power requirement 200230 V (-5%, +10%) / 5060 Hz (16) 200230 V (-5%, +10%) / 5060 Hz (16) Vegical imensions W x x H 323 x 583 x 662 mm 323 x 583 x 662 mm	Process volume min. (active heat exchanger volume)	3.5 li	ters (1.7	liters)					3.5 liters (1.7 liters)						
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AccessoryAnalog Interface Module (Input, Output, Standby-In), RS485, Profibus DP, ModbusSafety Installations (according to IEC 61010-2-010)Foak and Reservoir, adjustableTank and Reservoir, adjustableExcess temperature protectionTank and Reservoir, adjustableTank and Reservoir, adjustableLow liquid level protectionFloat switchFloat switchClassification according to DIN 12876-1Class III (FL)Class III (FL)Additional JULABO Safety InstallationsSupervision of working sensorsPlausibility controlPlausibility controlReciprocal sensor monitoring between working and safety sensorsDifference > 25 °CDifference > 25 °CAlarm messageOptical and audibleOptical and audibleRefrigeration unit1-stage, air-cooled1-stage, water-cooledColing water connectionG 3/4" / fitting for tubing 1/2" IDPermissible ambient temperature range+5 +40 °C+5 +40 °CNoise level (distance 1 m)55 dBA53 dBAPower requirement20 230 V (-5%, +10%) / 50 60 Hz (16 A)20 230 V (-5%, +10%) / 50 60 Hz (16 A)Weight79.0 kg78.0 kgOverall dimensions W x L x H323 x 583 x 662 mm323 x 583 x 662 mm	Standard			S											
Excess temperature protection Tank and Reservoir, adjustable Float switch Float switch Float switch Classification according to DIN 12876-1 Class III (FL) C	Accessory		Analo			•								dbus	
Low liquid level protectionFloat switchFloat switchClassification according to DIN 12876-1Class III (FL)Class III (FL)Additional JULABO Safety InstallationsFlausibility controlPlausibility controlSupervision of working sensorsPlausibility controlPlausibility controlReciprocal sensor monitoring between working and safety sensorsDifference > 25 °CDifference > 25 °CAlarm messageOptical and audibleOptical and audibleRefrigeration unit1-stage, air-cooled1-stage, water-cooledCooling water connectionG 3/4" / fitting for tubing 1/2" IDPermissible ambient temperature range+5 +40 °C+5 +40 °CNoise level (distance 1 m)55 dBA53 dBAPower requirement200 230 V (-5%, +10%) / 50 60 Hz (16 A)200 230 V (-5%, +10%) / 50 60 Hz (16 A)Weight79.0 kg78.0 kgOverall dimensions W x L x H323 x 583 x 662 mm323 x 583 x 662 mm	Safety Installations (according to IEC 61010-2-010))													
Classification according to DIN 12876-1 Class III (FL) Class III (FL) Additional JULABO Safety Installations Supervision of working sensors Plausibility control Plausibility control Plausibility control Difference > 25 °C Difference > 25 °	Excess temperature protection	Tank	and Rese	rvoir, a	djustab	le			Tank and	l Reserv	oir, adjı	ustable	ē		
Additional JULABO Safety Installations Supervision of working sensors Plausibility control Plausibility control Plausibility control Reciprocal sensor monitoring between working and safety sensors Plausibility control Difference > 25 °C Plausibility control Alarm message Optical and audible Optical and audible Optical and audible Plausibility Control Plausibili	Low liquid level protection	Float	switch						Float swi	tch					
Supervision of working sensorsPlausibility controlPlausibility controlReciprocal sensor monitoring between working and safety sensorsDifference > 25 °CDifference > 25 °CAlarm messageOptical and audibleOptical and audibleRefrigeration unit1-stage, air-cooled1-stage, water-cooledCooling water connectionG 3/4" / fitting for tubing 1/2" IDPermissible ambient temperature range+5 +40 °C+5 +40 °CNoise level (distance 1 m)55 dBA53 dBAPower requirement200 230 V (-5%,+10%) / 50 60 Hz (16 A)200 230 V (-5%,+10%) / 50 60 Hz (16 A)Weight79.0 kg78.0 kgOverall dimensions W x L x H323 x 583 x 662 mm323 x 583 x 662 mm	Classification according to DIN 12876-1	Class	III (FL)						Class III ((FL)					
Reciprocal sensor monitoring between working and safety sensors Alarm message Optical and audible Pefrigeration unit Cooling water connection Permissible ambient temperature range +5 +40 °C Noise level (distance 1 m) Fower requirement Weight 79.0 kg Difference > 25 °C D	Additional JULABO Safety Installations														
working and safety sensors Alarm message Optical and audible Refrigeration unit 1-stage, air-cooled Cooling water connection Permissible ambient temperature range +5 +40 °C Noise level (distance 1 m) 55 dBA 53 dBA Power requirement 200 230 V (-5%,+10%) / 50 60 Hz (16 A) Weight 79.0 kg 78.0 kg Overall dimensions W x L x H 323 x 583 x 662 mm	Supervision of working sensors	Plaus	ibility cor	ntrol					Plausibili	ty contr	ol				
Refrigeration unit 1-stage, air-cooled 1-stage, water-cooled 1-stage, water-cooled Cooling water connection		Diffe	ence > 2	5°C					Difference	e > 25	°C				
Cooling water connection G 3/4" / fitting for tubing 1/2" ID Permissible ambient temperature range +5 +40 °C Noise level (distance 1 m) 55 dBA 53 dBA Power requirement 200 230 V (-5%,+10%) / 50 60 Hz (16 A) 200 230 V (-5%,+10%) / 50 60 Hz (16 A) Weight 79.0 kg 78.0 kg Overall dimensions W x L x H 323 x 583 x 662 mm 323 x 583 x 662 mm	Alarm message	Optio	al and au	ıdible					Optical a	nd audi	ible				
Permissible ambient temperature range +5 +40 °C +5 +40 °C Noise level (distance 1 m) 55 dBA 53 dBA Power requirement 200 230 V (-5%,+10%) / 50 60 Hz (16 A) 200 230 V (-5%,+10%) / 50 60 Hz (16 A) Weight 79.0 kg 78.0 kg Overall dimensions W x L x H 323 x 583 x 662 mm 323 x 583 x 662 mm	Refrigeration unit	1-sta	ge, air-co	oled					1-stage,	water-c	ooled				
Noise level (distance 1 m) 55 dBA 53 dBA Power requirement 200 230 V (-5%,+10%) / 50 60 Hz (16 A) 200 230 V (-5%,+10%) / 50 60 Hz (16 A) Weight 79.0 kg 78.0 kg Overall dimensions W x L x H 323 x 583 x 662 mm 323 x 583 x 662 mm	Cooling water connection								G 3/4" /	fitting f	or tubii	ng 1/2	" ID		
Power requirement 200 230 V (-5%,+10%) / 50 60 Hz (16 A) 200 230 V (-5%,+10%) / 50 60 Hz (16 A) Weight 79.0 kg 78.0 kg Overall dimensions W x L x H 323 x 583 x 662 mm 323 x 583 x 662 mm	Permissible ambient temperature range	+5	. +40 °C						+5 +	40 °C					
Weight 79.0 kg 78.0 kg Overall dimensions W x L x H 323 x 583 x 662 mm 323 x 583 x 662 mm	Noise level (distance 1 m)	55 dI	3A						53 dBA						
Overall dimensions W x L x H 323 x 583 x 662 mm 323 x 583 x 662 mm	Power requirement	200 .	230 V (-	5%,+1	0%)/5	60 60	Hz (16	5 A)	200 23	30 V (-5°	%,+109	%) / 5C	60 I	Hz (16	A)
	Weight	79.0	kg						78.0 kg						
JULABO Order No. 9 420 401 9 421 401	Overall dimensions W x L x H	323	583 x 6	62 mm					323 x 58	3 x 662	2 mm				
	JULABO Order No.	9 42	0 401						9 421 4	101					

All data refers to the nominal voltage of 230 V, nominal frequency of 50 Hz 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.

Original PRESTO® Accessories

JULABO Thermal Bath Fluids

JULABO Description		Thermal HL40	Thermal HL45	Thermal HL80
JULABO Order No.	10 Liters 5 Liters	8 940 136 8 940 137	8 940 122 8 940 123	8 940 120 8 940 121
Working temperature range	°C	-40 + 250	-45 +250	-85 + 170
Flash point	°C	+124	>+121	>+63
Fire point	°C	+142	>+162	>+112
Viscosity, kinetic	mm²/s	<4 at +20 °C	7.5 at 0 °C	5 at 0 °C
Density at +20 °C	g/cm³	0.93	0.92	0.9
Pour point	°C	-100	<-96	<-108
Boiling point	°C	>+300	>+275	>+200
Ignition temperature	°C	>+400	>+420	>+420
Color		clear	clear	clear

Benefits

- Wide temperature ranges
- Low viscosity
- High stability
- Good heat conductivity
- Minimum odor
- Low corrosion tendency
- Low toxicity



-100	0	100	200	°C
		Thermal HL40		
		Thermal HL45		
	Therm	nal HL80		

Pt100 External sensors

JULABO Order No.	Description	A30	A40	W40
8 981 003	200 x 6 mm dia., stainless steel, 1.5 m cable	•	•	•
8 981 006	20 x 2 mm dia., stainless steel, 1.5 m cable	•	•	•
8 981 010	300 x 6 mm dia., stainless steel, 1.5 m cable	•	•	•
8 981 015	300 x 6 mm dia., stainless steel /PTFE coated, 3.0 m cable	•	•	•
8 981 013	600 x 6 mm dia., stainless steel /PTFE coated, 3.0 m cable	•	•	•
8 981 016	900 x 6 mm dia., stainless steel /PTFE coated, 3.0 m cable	•	•	•
8 981 014	1200 x 6 mm dia., stainless steel /PTFE coated, 3.0 m cable	•	•	•
8 981 021	M+R in-line Pt100 sensor, 2 fittings M24x1.5 male, 1.5 m cable	•	•	•
8 981 103	Extension cable 3.5 m for Pt100 sensor	•	•	•



Metal tubing flexible, triple insulated, -100 ... +350 °C

JULABO Order No.	Description	A30	A40	W40
8 930 261	1.0 m Metal tubing, 2 fittings M24x1.5 female	•	•	•
8 930 262	1.5 m Metal tubing, 2 fittings M24x1.5 female	•	•	•
8 930 263	2.0 m Metal tubing, 2 fittings M24x1.5 female	•	•	•
8 930 264	3.0 m Metal tubing, 2 fittings M24x1.5 female	•	•	•



for Optimal Temperature Control

Interfaces / Software & Hardware

JULABO Order No.	Description	A30	A40	W40
8 900 105	Electronic module with analog connections (Input, Output, Standby-In)	•	•	•
8 900 020	Profibus DP Interface	•	•	•
8 900 022	Modbus Interface	•	•	•
8 900 024	RS485 Interface	•	•	•
8 980 771	Pressure sensor, 2 fittings M24x1.5 male (-95 +250 °C)		•	•
8 970 815	Sight glass, -100+280 °C, PN16/Class 230, 2 fittings M30x1.5 male	•	•	•
8 900 500	WirelessTEMP Remote Control	•	•	•
8 900 505	WirelessTEMP Remote Control, ATEX Version	•	•	•
8 900 540	Wireless USB Stick	•	•	•
8 900 530	WirelessTEMP Router for extending wireless range	•	•	•
8 901 102	EasyTEMP Software (free of charge at www.julabo.de)	•	•	•
8 901 105	EasyTEMP Professional Software, incl. USB-Dongle	•	•	•





Connectors / Valves / Adapters, etc.

JULABO Order No.	Description	A30	A40	W40
8 890 110	Adapter M24x1.5 male to M24x1.5 male	•	•	•
8 890 120	2 Elbow fittings 90°, M24x1.5 female/male	•	•	•
8 890 052	2 Adapters M24x1.5 female to M16x1 male	•	•	•
8 890 053	2 Adapters M24x1.5 female to NPT 1/4" female	•	•	•
8 890 054	2 Adapters M24x1.5 female to NPT 3/8" female	•	•	•
8 890 055	2 Adapters M24x1.5 female to NPT 1/2" female	•	•	•
8 890 056	2 Adapters M24x1.5 female to NPT 3/4" female	•	•	•
8 890 057	2 Adapters M24x1.5 female to NPT 1" female	•	•	•
8 890 058	2 Adapters M24x1.5 female to NPT 1/4" male	•	•	•
8 890 059	2 Adapters M24x1.5 female to NPT 3/8" male	•	•	•
8 890 060	2 Adapters M24x1.5 female to NPT 1/2" male	•	•	•
8 890 061	2 Adapters M24x1.5 female to NPT 3/4" male	•	•	•
8 890 062	2 Adapters M24x1.5 female to NPT 1" male	•	•	•
8 890 065	2 Adapters M24x1.5 female to tube 1/2"	•	•	•
8 890 066	2 Adapters M24x1.5 female to tube 1"	•	•	•
8 970 920	Filter mat	•		
8 970 921	Filter mat		•	
8 970 851	Shut-off valve M24x1.5 female/male, -40+200 °C	•	•	•
8 970 832	External expansion vessel 3 liters	•	•	•

Cooling water connection

JULABO Order No.	Description	A30	A40	W40
8 930 312	Reinforced tubing (pressure proof) 1/2" inner dia.			•
8 970 482	2 Tube clamps			•
8 920 000	Particle filter for cooling water circuit			•

JULABO - founded in 1967 in Germany - develops and manufactures sophisticated innovative temperature control technology. JULABO units are equipped with state-of-the art control technology and are in use worldwide whenever temperature accuracy and immediate reaction to temperature changes are required. 400,000 JULABO products have been installed around the globe, highlighting JULABO's prevalent role in industry and science worldwide. "Made in Germany" quality as well as fast and competent support from your local representative in more than 100 countries have made JULABO a leading company for temperature control solutions.

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