

Julabo Immersion / Flow-Through Coolers

Immersion Coolers

Benefits and applications:

- Save precious tap water!
- MORE efficient cooling
- REDUCED energy consumption
- Rapid cooling of liquids down to low temperatures, e.g. in a Dewar vessel
- Dry-ice substitution
- For counter-cooling in combination with heating circulators
- Immersion probe made of high quality stainless steel

Immersion Coolers with temperature control and display

FT402 and FT902 provide a keypad and water-protected mains switch (patented). They are supplied with a Pt100 sensor, stainless steel, 200 x 6 mm dia.

Optional sensors available:

- 8 981 005 Pt100 sensor**, 200 x 6 mm dia., glass, 1.5 m cable
- 8 981 010 Pt100 sensor**, 300 x 6 mm dia., stainless steel, 1.5 m cable

Flow-Through Cooler



FD200

The FD200 is used for example, for cooling a loop circuit of a closed system. The cooler needs to be connected in the return line of a heating circulator.



Bright LED temperature display & keypad

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stab. °C	Temp. display/ resolution °C	Cooling capacity kW					Immersion probe/ flexible probe (L x dia.) cm	Connection tube (L) cm	Dimensions W x L x H cm	Weight kg
					+20	+10	-20	-40	-80°C				

9 650 820	FT200	-20...30	--	--	0.25	0.2	0.04	--	--	9 x 4	120	18 x 27 x 39	18
9 650 840	FT400	-40...30	--	--	0.45	0.36	0.14	0.03	--	12 x 5	120	20 x 30 x 43	24
9 650 890	FT900	-90...30	--	--	0.3	0.27	0.24	0.2	0.07	65 x 1.5 flexible	160	38 x 55 x 60	50

Immersion Coolers

9 650 842	FT402	-40...30	±0.5	LED/0.1	0.45	0.36	0.14	0.03	--	12 x 5	120	20 x 30 x 43	24
9 650 892	FT902	-90...30	±1	LED/0.1	0.3	0.27	0.24	0.2	0.07	65 x 1.5 flexible	160	38 x 55 x 60	50

Included with each unit: Pt100 sensor 200 x 6 mm dia.

Accessories

8 970 400 Clamp for cooler probe for open baths (FT200, FT400, FT402)

Flow-Through Cooler

9 655 825	FD200	10...30	--	--	0.22	0.18	--	--	--	--	--	18 x 27 x 39	16
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Included with FD200: 2 each barbed fittings for tubing 8 and 12 mm inner dia.

Voltage: All models available in 115V/60Hz or 230V/50Hz

For details on tubing/tubing insulation please refer to page 32.

Visco Baths



Visco Baths

for highly precise temperature applications in the bath tank

- Temperature setting to 0.01 °C
- Display resolution 0.01 °C
- Temperature stability ±0.01 °C
- Programmer with real time clock
- Built-in cooling coil for applications at or near ambient using tap water cooling

ME-31A is supplied with a Plexiglas® bath tank, ME-16G includes a glass bath tank.

The top-of-the-line model ME-18V is supplied with a stainless steel bath tank having an insulated bath mantle and two transparent windows of 185 x 245 mm made of high quality multiple-layer insulation glass.

Using JULABO refrigeration units in combination with a special cooling coil, temperatures of 0 °C, -20 °C or -40 °C can be reached. Please contact JULABO!



ME-31A

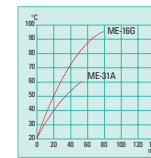


ME-16G

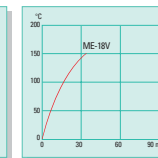
Applications

- Measuring tasks with capillary viscometers
- Use of densimeters and other related products
- ME-18V can be used according to standard ASTM D445

Heat-up times (230 V)
Bath fluid: Water



Heat-up times (230 V)
Bath fluid: Thermal H



ME-18V

For more viscometers! Available as option:

Cover with 4 round openings 51 mm dia. for ME-18V (order no. 8 970 294)



Cover with 5 round openings 51 mm dia. for ME-31A (order no. 8 970 295)

JULABO Order No.	JULABO Model	Working temp. range °C ¹⁾	Temp. stab. °C	Heat. cap. kW ²⁾	Pump capacity Flow rate/Pressure l/min. bar	Cooling coil	Bath opening/ number/ bath depth cm	Qty. of visco-meters	Fill. vol. liters	Dimensions W x L x H cm	Weight kg
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Visco Baths

Technical features



9 160 331	ME-31A	20 ... 60	±0.01	1 / 2	11-16	0.23-0.45	Integrated	9 x 9 / 3 x / 37	3	31	50 x 20 x 56	11
9 160 616	ME-16G	20 ... 100	±0.01	1 / 2	11-16	0.23-0.45	Integrated	7.6 x 7.6 / 2 x / 31	2	16	dia. 29 x 48	9
9 160 518	ME-18V	20 ... 150	±0.01	1 / 2	11-16	0.23-0.45	Integrated	9 x 9 / 2 x / 37	2	18	36 x 24 x 54	17

¹⁾ For temperature applications at or near ambient: counter-cooling with tap water via built-in cooling coil.

²⁾ At voltage 115V/60Hz 230V/50-60Hz