

Forte HT30-M1
Forte HT60-M2 HT60-M3

Working temperature range: **+70 °C ... +400 °C**

JULABO High Temperature Circulators have a compact, closed design and are ideally suited for wide working temperature ranges.

Benefits:

- Rapid heating according to diagram **A**
- High pump capacity, reducible via adapter **B**
- Small footprint
- Small filling volume
- Cooling water connection for applications at particularly high temperatures (cooling zone in unit)
- Wide working temperature range without the requirement to changing bath fluids
- Avoids oxidation and cracking of the bath fluid. This ensures a prolonged lifetime of the bath fluids recommended by JULABO (e.g. Thermal H350).
- Can be easily integrated into a miniplant installation, for example

- **Separate control unit:** with MULTI-DISPLAY (LED), LCD DIALOG-DISPLAY, illuminated display for filling level. Keypad is splash-proof.

Accessories (see page 34)

Technical specifications (see fold-out page)



JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability external °C	Temperature display/ resolution °C	Display for filling level	Heating capacity kW
9 800 031	HT30-M1	+70 ... +400	±0.01 ... ±0.1	LED + LCD / ±0.1	illuminated display	3
9 800 062	HT60-M2	+70 ... +400	±0.01 ... ±0.1	LED + LCD / ±0.1	illuminated display	7
9 800 063	HT60-M3	+70 ... +400	±0.01 ... ±0.1	LED + LCD / ±0.1	illuminated display	6
9 800 035	HT30-M1-C.U.	+40 ... +400	±0.01 ... ±0.1	LED + LCD / ±0.1	illuminated display	3
9 800 065	HT60-M2-C.U.	+40 ... +400	±0.01 ... ±0.1	LED + LCD / ±0.1	illuminated display	7
9 800 066	HT60-M3-C.U.	+40 ... +400	±0.01 ... ±0.1	LED + LCD / ±0.1	illuminated display	6

No unpleasant steam and odors

- Time-saving filling process for the entire system with permanent air purge
- Expansion vessel (included as standard accessory) is used for filling process and serves as additional reservoir
- Automatic de-gas mode
- Integrated warning, safety and supervision functions via 7 sensors



Forte HT30-M1, HT60-M2, HT60-M3 with C.U. cooling unit

Working temperature range: **+40 °C ... +400 °C**

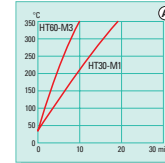
Using the optional C.U. cooling unit, the working temperature range can be further expanded downwards. Additionally a high cooling capacity is available if constant tap water cooling is carried out.

Benefits:

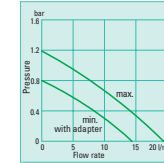
- Temperature application from +40 °C with controlled tap water cooling
- Rapid cooling to a low temperature value – see diagram **C**
- Dynamic control characteristics: Automatic control of exothermic reactions in the connected system **D**

Ambient temperatures up to +40 °C for all models!

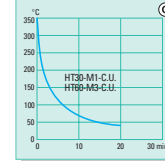
Heat-up times



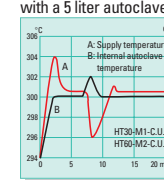
Pump capacities



Cool-down times

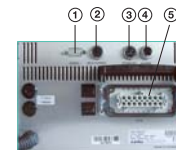


Automatic control with a 5 liter autoclave



Separate control unit 'M2'

'HT60' circulator with C.U. cooling unit



Separate control unit (rear view)

- ① Serial interface RS232 / RS485
- ② Analog input for external programming
- ③ Standby input for ext. emergency cut-off
- ④ Connector for external alarm device
- ⑤ Connector for control cable to HT circulator

Bath fluid: JULABO Thermal H350

Cooling cap. (water 20 °C) kW, max.	Pump capacity Flow rate l/min	Pressure bar	Filling vol. liters	IP class acc. to IEC529	Dimensions Circulator / Control unit (W x L x H) cm	Weight incl. control unit kg	Power requirement V / Hz
-	14 - 18	0.8 - 1.2	2	IP31	23 x 23 x 58 25 x 25 x 18	27	230~/50 or 230~/60
-	14 - 18	0.8 - 1.2	2	IP31	23 x 23 x 58 25 x 25 x 18	29	3 x 400~/50
-	14 - 18	0.8 - 1.2	2	IP31	23 x 23 x 58 25 x 25 x 18	29	3 x 208~/60
15	14 - 18	0.8 - 1.2	2	IP31	43 x 23 x 58 25 x 25 x 18	35	230~/50 or 230~/60
15	14 - 18	0.8 - 1.2	2	IP31	43 x 23 x 58 25 x 25 x 18	37	3 x 400~/50
15	14 - 18	0.8 - 1.2	2	IP31	43 x 23 x 58 25 x 25 x 18	37	3 x 208~/60