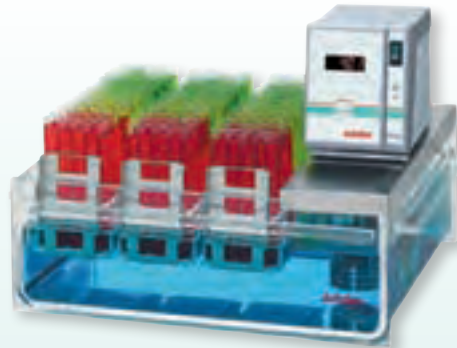
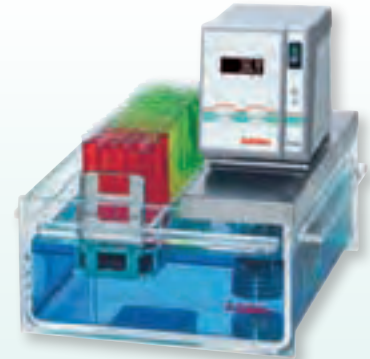




ED-5A/B



ED-19A



MB-13A

### Open Heating Bath Circulator

for internal temperature applications  
with transparent bath tanks

Open heating bath circulators are designed for internal applications in the circulator bath. The models on this page are equipped with bath tanks made of Plexiglas® or Makrolon®. Available accessories include various test tube racks, immersion-height adjustable platforms and cooling coils. The circulator can be easily removed which allows for easy handling and cleaning of the bath tank.

#### Open heating bath circulator

- Bath tanks made of transparent Plexiglas® or Makrolon®
- Models with a filling volume of 5 to 19 liters
- Bath tanks of 13 and 19 liters with handles

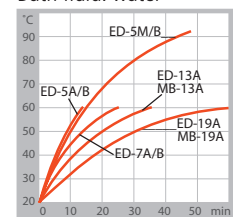
Plexiglas®: to 60 °C (designated ‚A‘)  
Makrolon®: to 100 °C (designated ‚M‘)

#### Test tube insert capacity

Model	Number of test tubes with 13 mm dia.	17 mm dia.
ED-5A/B, ED-5M/B	90	40
ED-7A/B	90	60
ED-13A, ED-13M, MB-13A	90	60
ED-19A, ED-19M, MB-19A	270	180

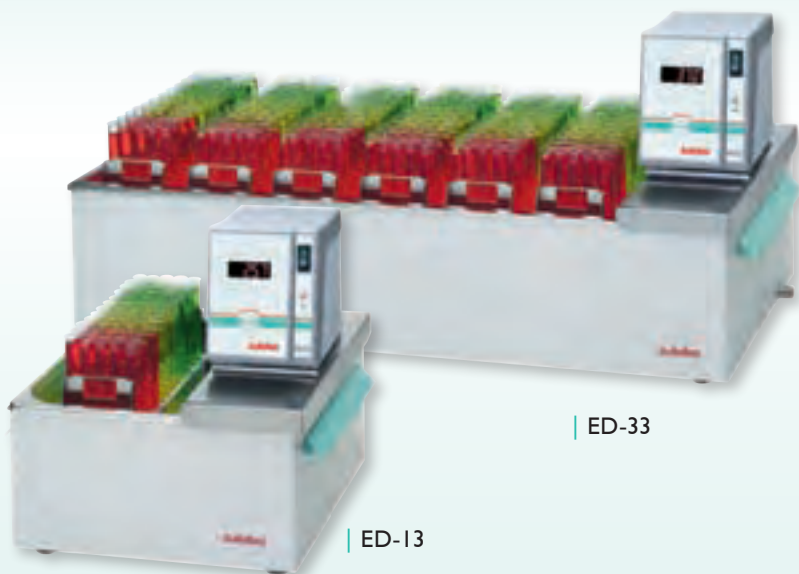
#### Heat-up times

Bath fluid: water



JULABO Order No.	JULABO Model	Working temperature range °C <sup>1)</sup>	Temp. stab. °C	Heat. cap. kW	Pump capacity Flow rate l/min	Pressure bar	Cooling coil	Bath opening/ bath depth W x L / D cm	Bath cover	Fill-vol. liters	Dimension W x L x H cm
9 116 315	ED-5A/B	20 ... 60	±0.03	2	15	0.35	--	12 x 24 / 15	Plexiglas®	5	14 x 40 x 35
9 116 317	ED-7A/B	20 ... 60	±0.03	2	15	0.35	--	12 x 34 / 15	Plexiglas®	7	14 x 50 x 35
9 116 515	ED-5M/B	20 ... 100	±0.03	2	15	0.35	--	12 x 24 / 15	Makrolon®	5	14 x 40 x 35
9 116 313	ED-13A	20 ... 60	±0.03	2	15	0.35	Option	18 x 30 / 15	Plexiglas®	13	41 x 33 x 36
9 116 319	ED-19A	20 ... 60	±0.03	2	15	0.35	Option	36 x 30 / 15	Plexiglas®	19	55 x 33 x 36
9 116 513	ED-13M	20 ... 100	±0.03	2	15	0.35	Option	18 x 30 / 15	Makrolon®	13	41 x 33 x 37
9 116 519	ED-19M	20 ... 100	±0.03	2	15	0.35	Option	36 x 30 / 15	Makrolon®	19	55 x 33 x 37
9 142 313	MB-13A	20 ... 60	±0.02	2	10	0.12	Option	18 x 30 / 15	Plexiglas®	13	41 x 33 x 36
9 142 319	MB-19A	20 ... 60	±0.02	2	10	0.12	Option	36 x 30 / 15	Plexiglas®	19	55 x 33 x 36

<sup>1)</sup> For temperature applications near or below ambient temperature: use a cooling coil or JULABO immersion cooler.



## Applications

- Temperature applications for samples
- Preparation of samples for serology and clinical chemistry
- Analytics
- Material testing

Test tubes racks not included in delivery (accessory).

## Open Heating Bath Circulators

for internal temperature applications  
with stainless steel bath tanks

The models on this page are equipped with bath tanks made of high quality stainless steel. Available accessories include test tube racks, immersion-height adjustable platforms and cooling coils as well as lift-up bath covers and flat stainless steel covers.

### Open heating bath circulators

- Bath tanks made of high quality stainless steel
- Models with a filling volume from 13 to 33 liters
- Large bath openings for samples of any kind
- All models include handles and are designed for the use of test tube racks

### Test tube insert capacity

Model	Number of test tubes with	
	13 mm dia	17 mm dia
ED-13, ED-17, MB-13	90	60
ED-19, ED-27, MB-19	270	180
ED-33	540	360

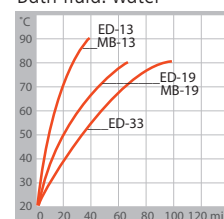
### Bath cover

available accessory



### Heat-up times

Bath fluid: water



JULABO Order No.	JULABO Model	Working temperature range °C <sup>1)</sup>	Temp. stab. °C	Heat. cap. kW	Pump capacity		Cooling coil	Bath opening/ bath depth W x L / D cm	Bath cover	Filling volume liters	Dimension W x L x H cm
					Flow rate l/min	Pressure bar					
9 116 413	ED-13	20 ... 100	±0.03	2	15	0.35	Option	18 x 30 / 15	Option	13	39 x 33 x 37
9 116 417	ED-17	20 ... 100	±0.03	2	15	0.35	Option	18 x 30 / 20	Option	17	39 x 33 x 42
9 116 419	ED-19	20 ... 100	±0.03	2	15	0.35	Option	36 x 30 / 15	Option	19	57 x 33 x 37
9 116 427	ED-27	20 ... 100	±0.03	2	15	0.35	Option	36 x 30 / 20	Option	27	57 x 37 x 42
9 116 433	ED-33	20 ... 100	±0.03	2	15	0.35	Option	67 x 30 / 15	Option	33	91 x 33 x 38
9 142 413	MB-13	20 ... 100	±0.02	2	10	0.12	Option	18 x 30 / 15	Option	13	39 x 33 x 37
9 142 419	MB-19	20 ... 100	±0.02	2	10	0.12	Option	36 x 30 / 15	Option	19	57 x 33 x 37

<sup>1)</sup> For temperature applications near or below ambient temperature: use a cooling coil or JULABO immersion cooler.