

Julabo
THE TEMPERATURE CONTROL COMPANY

Cool Savings!

*Chill
& Conserve!*



Recirculating Coolers / Chillers

JULABO Recirculating Coolers FL Series

Strong
Efficient
Economic



**Save Water and
Preserve our
Environment!**

Compact

| FL300 to FLW1703



**Up to 1.7 kW cooling
capacity**
**Installation under
the lab bench**

Strong

| FL2503 to FLW4006



**Up to 4.0 kW cooling
capacity**
Small footprint

Super Strong

| FL7006 to FLW20006



**Up to 20.0 kW cooling
capacity**
Extra Power

Strong

Strong JULABO recirculating coolers for a wide range of cooling applications in laboratories and production.

Efficient

JULABO recirculating coolers are highly efficient with very low energy consumption. Save time with intuitive operation and easy unit start-up.

Economic

JULABO recirculating coolers are an economic and environmentally friendly alternative which saves precious tap water.

Advantages

- Save precious tap water
- Efficient and constant temperature during all seasons
- No pressure fluctuations in the water supply system
- Your cooling processes are immune to ambient conditions
- Cooling at low temperatures guarantees optimal condensation
- Continuous operation at ambient temperatures up to +40 °C

Removable venting grid
with drain at front bottom



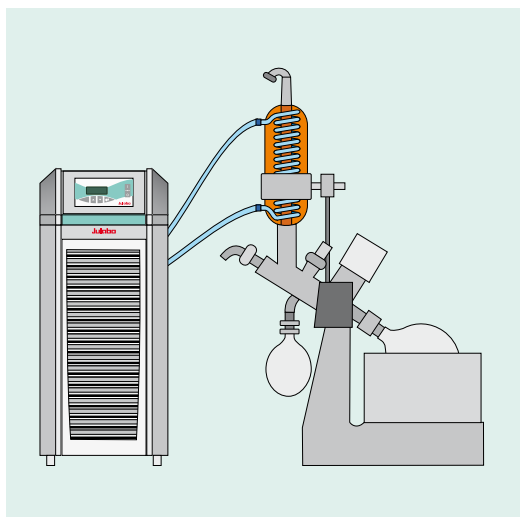
Pressure indicator
from model FL1201 upwards



The perfect model for each application



*Average prices in Germany in Sep. 2013

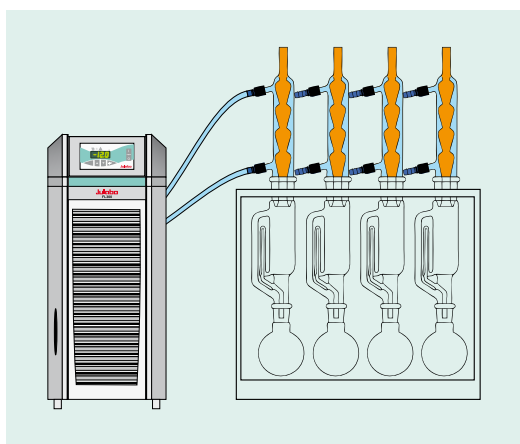


Evaporation and concentration

Commonly used in laboratories for synthetic chemistry, organic chemistry, scale-ups, or in R&D labs for pharmaceuticals, chemicals, cosmetics, and nutritional chemistry. Evaporation and concentration without consumption of water, elevated efficiency even at cooling temperatures as low as -10 °C. Independent of external conditions.

Cooling and temperature control of 1 to 4 rotary evaporators

JULABO Model	FL300 F250	FL601 F500	FL1201 FL1203 F1000	FL1201 FL1203 F1000	FL1701 FL1703	FL2503 FL4003
Flask size	50 ml to 1 liter	up to 2 liters		up to 4 liters		up to 20 liters
Number of rotary evaporators	1	2	3-4	1	2	1-2

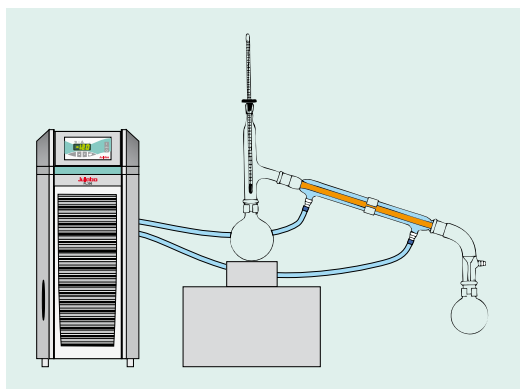


Extraction

Quality control applications in laboratories for determination of fat content and extractable substances in food, animal feed, etc. used in the feed, animal nutrition, and dairy industries.

Extraction without consumption of cooling water, consistently reproducible condensation temperatures, without influence of ambient or seasonal temperature fluctuations.

JULABO Model	FL300 F250	FL601 F500	FL601 F500	FL1201 F1000	FL1701 FL1201	FL1701	FL2503
Number of condensers	2	4	6	8	12	18	24



Distillation

Common applications in QA laboratories for determination of alcohol, ethanol, or carbolic levels. Primarily used in the food, beverage, animal feed, cosmetics, and detergent industries as well as in clarification plants.

Distillation without use of tap water, with more effective and reproducible cooling and consistent analysis conditions.

JULABO Model	FL1201 F1000	FL2503	FL2503	FL4003
Number of distillation units	1	2	3	4

And much more ...

JULABO recirculating coolers can be used with fermenters, bioreactors as well as numerous other cooling applications.

Consult with JULABO experts for all application possibilities.

Compact

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability °C	Cooling capacity kW					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				+20	+10	0	-10	-20 °C	Flow rate/pressure l/min bar			
9 660 003	FL300	-20 ... +40	±0.5	0.3	0.25	0.2	0.15	0.1	15	0.35	3 ... 4.5	25 x 50 x 60
9 661 006	FL601	-20 ... +40	±0.5	0.6	0.5	0.4	0.33	0.2	23	1.0	5.5 ... 8	32 x 50 x 60
9 661 012	FL1201	-20 ... +40	±0.5	1.2	1.0	0.9	0.6	0.3	23	1.0	12 ... 17	50 x 76 x 64
9 663 012	FL1203	-20 ... +40	±0.5	1.2	0.9	0.8	0.5	0.2	40	0.5 - 3.0	12 ... 17	50 x 76 x 64
9 661 017	FL1701	-20 ... +40	±0.5	1.7	1.5	1.1	0.85	0.4	23	1.0	12 ... 17	50 x 76 x 64
9 663 017	FL1703	-20 ... +40	±0.5	1.7	1.4	1.0	0.75	0.3	40	0.5 - 3.0	12 ... 17	50 x 76 x 64

water-cooled models

9 671 017	FLW1701	-20 ... +40	±0.5	1.7	1.5	1.1	0.85	0.4	23	1.0	12 ... 17	50 x 76 x 64
9 673 017	FLW1703	-20 ... +40	±0.5	1.7	1.4	1.0	0.75	0.3	40	0.5 - 3.0	12 ... 17	50 x 76 x 64

Included: 2 each barbed fittings for tubing 8 and 12 mm inner dia. (pump connections M16x1 male)
2 each barbed fittings for tubing 3/4" inner dia. with models FL1203 and FL(W)1703 (pump connections G 3/4" male)

Strong

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability °C	Cooling capacity kW					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				+20	+10	0	-10	-20 °C	Flow rate/pressure l/min bar			
9 663 025	FL2503	-20 ... +40	±0.5	2.5	2.2	1.5	1.2	0.55	40	0.5 - 3.0	24 ... 30	60 x 76 x 115
9 666 025	FL2506	-15 ... +40	±0.5	2.5	1.9	1.0	0.3	--	60	0.5 - 6.0	24 ... 30	60 x 76 x 115
9 663 040	FL4003	-20 ... +40	±0.5	4.0	3.4	2.4	1.5	0.65	40	0.5 - 3.0	24 ... 30	60 x 76 x 115
9 666 040	FL4006	-20 ... +40	±0.5	4.0	2.9	1.9	0.9	0.05	60	0.5 - 6.0	24 ... 30	60 x 76 x 115

water-cooled models

9 673 025	FLW2503	-20 ... +40	±0.5	2.7	2.5	1.7	1.0	0.4	40	0.5 - 3.0	24 ... 30	60 x 76 x 115
9 676 025	FLW2506	-15 ... +40	±0.5	2.5	1.9	1.0	0.3	--	60	0.5 - 6.0	24 ... 30	60 x 76 x 115
9 673 040	FLW4003	-20 ... +40	±0.5	4.3	3.0	2.2	1.3	0.45	40	0.5 - 3.0	24 ... 30	60 x 76 x 115
9 676 040	FLW4006	-15 ... +40	±0.5	4.0	3.0	1.7	0.7	--	60	0.5 - 6.0	24 ... 30	60 x 76 x 115

Included: 2 each barbed fittings for tubing 3/4" inner dia. with models FL/FLW2503 and FL/FLW4003 (pump connections G 3/4" male)
2 each barbed fittings for tubing 1" inner dia. with models FL/FLW2506 and FL/FLW4006 (pump connections G 1 1/4" male)

Super Strong

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability °C	Cooling capacity kW					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				+20	+10	0	-10	-20 °C	Flow rate/pressure l/min bar			
9 666 070	FL7006	-20 ... +40	±0.5	7.0	6.4	5.1	3.0	1.55	60	0.5 - 6.0	39... 47	78 x 85 x 148
9 666 110	FL11006	-20 ... +40	±0.5	11.0	9.0	7.5	5.0	3.0	60	0.5 - 6.0	39... 47	78 x 85 x 148
9 666 200	FL20006	-25 ... +40	±0.5	20.0	15.0	10.0	6.0	2.5	80	0.8 - 6.0	15... 37	95 x 115 x 161

water-cooled models

9 676 070	FLW7006	-20 ... +40	±0.5	7.4	7.0	5.5	3.1	1.3	60	0.5 - 6.0	39... 47	78 x 85 x 148
9 676 110	FLW11006	-20 ... +40	±0.5	11.5	9.0	7.3	4.8	2.7	60	0.5 - 6.0	39... 47	78 x 85 x 148
9 676 200	FLW20006	-25 ... +40	±0.5	20.0	15.0	12.0	7.0	3.0	80	0.8 - 6.0	15... 37	95 x 115 x 161

Included: 2 each barbed fittings for tubing 1" inner dia. (pump connections G 1 1/4" male)



JULABO offers an extensive selection of accessories for all models. All accessories and order information is available at www.julabo.de

Compact and economical!



F250



F500



F1000

Compact Recirculating Coolers

for simple cooling tasks

JULABO F models require little space and have very low procurement costs.

Recirculating coolers of the F Series are a great way to replace costly tap water and are ideal for basic cooling tasks.

- Environmentally-friendly operation with low energy consumption
- Compact design
- Splash-proof membrane keypad with LED temperature display
- Straightforward filling and draining
- Filling level indicator
- May be used with water, water/glycol, JULABO Thermal G

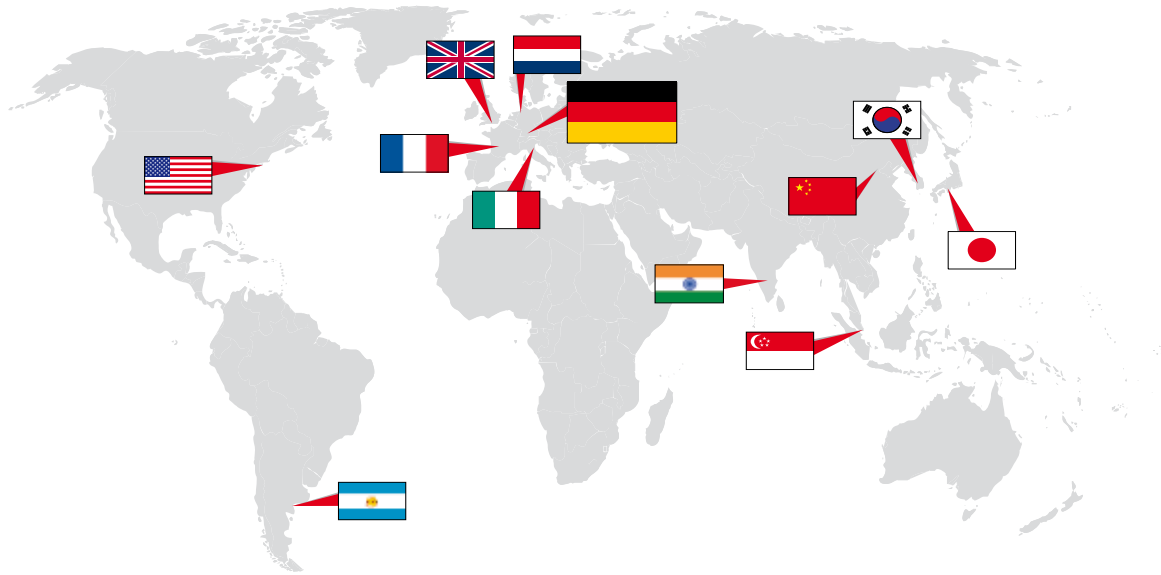
Ideal for cooling:

- Rotary evaporators
- Kjeldahl instruments
- Measurement cells
- Automated analysis systems
- CCD cameras
- Polarimeters, refractometers
- Glass condensers
- Calorimeters
- Soxhlet apparatus

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability °C	Cooling capacity kW					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				+20	+10	+5	0	-5 °C	Flow rate/pressure l/min bar			
9 620 025	F250	-10 ... +40	±0.5	0.25	0.22	0.21	0.18	0.09	15	0.35	1.7 ... 2.6	24 x 40 x 52
9 620 050	F500	0 ... +40	±0.5	0.50	0.40	0.30	0.25	--	24	0.5	5 ... 7.5	37.5 x 44 x 59
9 620 100	F1000	0 ... +40	±0.5	1.00	0.70	0.55	0.35	--	23	1.0	7 ... 9.5	37.5 x 49 x 64

Included with F250: 2 each barbed fittings for tubing 8 and 10 mm inner dia. (pump connections M10x1 female)

Included with F500, F1000: 2 each barbed fittings for tubing 8 and 12 mm inner dia. (pump connections M16x1 male)



JULABO worldwide

GERMANY Headquarters

JULABO GmbH
Eisenbahnstrasse 45
77960 Seelbach
Germany

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

ITALY

JULABO Italia Srl.
Milan
info@julaboitalia.it
www.julaboitalia.it

NETHERLANDS

JULABO Nederland B.V.
Netherlands
info@julabo.nl
www.julabo.nl

KOREA

JULABO Korea Co., Ltd.
Seoul
info@julabo-korea.co.kr
www.julabo-korea.co.kr

SINGAPORE

JULABO Singapore Pte., Ltd.
Singapore
info@julabo-singapore.com
www.julabo-singapore.com

UK

JULABO UK, Ltd.
Peterborough
info@julabo.co.uk
www.julabo.co.uk

NORTH AMERICA

JULABO USA, Inc.
Allentown, PA
info@julabo.com
www.julabo.com

CHINA

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

INDIA

JULABO India
Bangalore
info@julabo.in
www.julabo.in

FRANCE

JULABO France
Colmar
info@julabo.fr
www.julabo.fr

JAPAN

JULABO Japan Co., Ltd.
Osaka
info@julabo-japan.co.jp
www.julabo-japan.co.jp

LATIN AMERICA

JULABO Latin America
Buenos Aires
info@julabo-latinamerica.com
www.julabo-latinamerica.com

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worldwide**