

Recirculating Coolers / Chillers

Cool Savings!

*Chill
& Conserve!*



Julabo
THE TEMPERATURE CONTROL COMPANY

Compact and economical!



The compact recirculating cooler F250 is especially economic and requires little space.

- Environmentally friendly with low energy consumption
- Compact design and small footprint
- Splash-proof keypad with bright LED display
- Easy filling
- Fill level indicator
- Drain tap

Applications

- Rotary evaporators
- Cooling of Peltier elements, especially for automatic analyzers and CCD cameras
- Polarimeters, refractometers
- Condensers for glass equipment
- Calorimeters

F250

Pure Economy

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stability °C	Cooling Capacity			Pump capacity		Filling volume liters	Dimensions W x L x H cm
				W	+20	+5 °C	Flow rate	pressure		
9 620 025	F250	+5 ... +40	±0.5	250	220	210	15 l/min	0.35 bar	1.7 ... 2.6	24 x 40 x 52

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

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 beneath lab benches



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 during all seasons
- No pressure fluctuations within the water supply system
- Your cooling processes are insensitive to ambient conditions
- Cooling at low temperatures guarantees optimal liquefaction
- 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



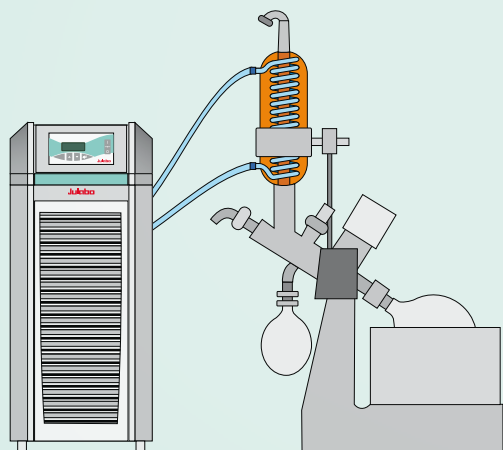
Water is precious and expensive

The average water consumption of a 3 l rotary evaporator is approx. 230.000 l / year.

The average price for tap water is 5 € / m³.²⁾

You can save more than 1000 € every year!

Evaporation and concentration



Application in university laboratories for synthesis chemistry, organic chemistry, scale-up or research and development laboratories of pharmaceutical, chemical industries as well as cosmetics and food industries.

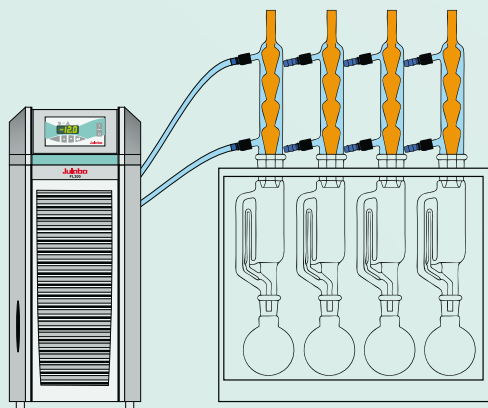
Evaporation and concentration without consumption of cooling water with high efficiency also at cooling temperatures up to -10 °C and independent of ambient conditions.

Cooling and temperature control of 1 to 4 rotary evaporators

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

¹⁾ Model F250 starting from +5 °C

Extraction

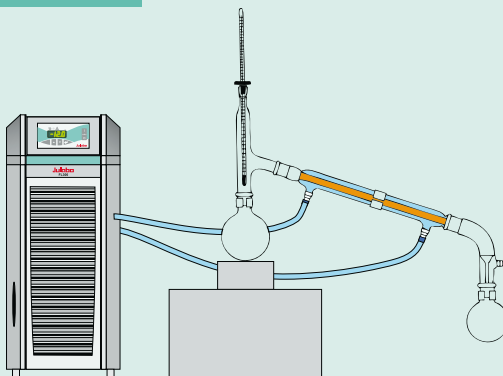


Application in quality control laboratories for determination of fat and extractives in food and feed in fodder industry, animal feed industry and dairy industry.

Extraction without cooling water consumption with reproducible condensation temperatures at any time, independent of ambient temperature and seasonal temperature fluctuations.

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

Distillation



Application in quality control laboratories for the determination of alcohol, ethanol and carboxylic acid content mainly used in food, beverage, animal feed, cosmetics and detergent industry as well as in waste water treatment plants.

Distillation without consumption of tap water with effective and reproducible cooling and constant analysis conditions.

JULABO Model	FL1201	FL2503	FL2503	FL4003
Number of distillers	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.

²⁾ Average prices in Germany, 2010

Compact

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stab. °C	Cooling capacity					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				kW	+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 with each unit: 2 each barbed fittings for tubing 8 and 12 mm inner dia. (pump connections M16x1 male)
FL1203 und FL(W)1703: 2 barbed fittings for tubing ¾" inner dia. (pump connections G ¾" male)

Strong

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stab. °C	Cooling capacity					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				kW	+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 with each unit: 2 barbed fittings for tubing ¾" inner dia. on models FL/FLW2503 and FL/FLW4003 (pump connections G ¾" male)
2 barbed fitting for tubing 1" inner dia. on models FL/FLW2506 and FL/FLW4006 (pump connections G 1 ¼" male)

Super Strong

JULABO Order No.	JULABO Model	Working temp. range °C	Temp. stab. °C	Cooling capacity					Pump capacity		Filling volume liters	Dimensions W x L x H cm
				kW	+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	11.0	6.0	2.5		80 0.8 - 6.0	15... 37	95 x 115 x 161

Included with each unit: 2 barbed fitting for tubing 1" inner dia. (pump connections G 1 ¼" male)



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

JULABO Advice and Support: available worldwide

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 worldwide highlighting JULABO's prevalent role in industry and science. "Made in Germany" quality as well as fast and competent support from local representatives in more than 100 countries have made JULABO a leading company for temperature control solutions.

HEADQUARTERS

JULABO LABORTECHNIK GMBH
Eisenbahnstraße 45
77960 Seelbach / Germany
Phone +49 (0) 7823 51-190
Fax +49 (0) 7823 24 91
info@julabo.de
www.julabo.de

ITALIA

JULABO Italia Srl.
Milano
+39 02 3932 5483
info@julaboitalia.it
www.julaboitalia.it

NORTH AMERICA

JULABO USA, Inc.
Allentown, PA
+1 610 231 0250
info@julabo.com
www.julabo.com

CHINA

JULABO Technology (Beijing) Co., Ltd.
Beijing
+86 10 5165 6060
info@julabo.com.cn
www.julabo.com.cn

UK

JULABO UK, Ltd.
Peterborough
+44 1733 265892
info@julabo.co.uk
www.julabo.co.uk

JAPAN

JULABO Japan Co., Ltd.
Osaka
+81 72 638 7200
info@julabo-japan.co.jp
www.julabo-japan.co.jp

SOUTH AMERICA

JULABO Sudamérica
Buenos Aires
+54 11 4371 1647
info@julabo-sudamerica.com
www.julabo-sudamerica.com

FRANCE

JULABO France
Colmar
+33 6 7120 9497
info@julabo.fr
www.julabo.fr

KOREA

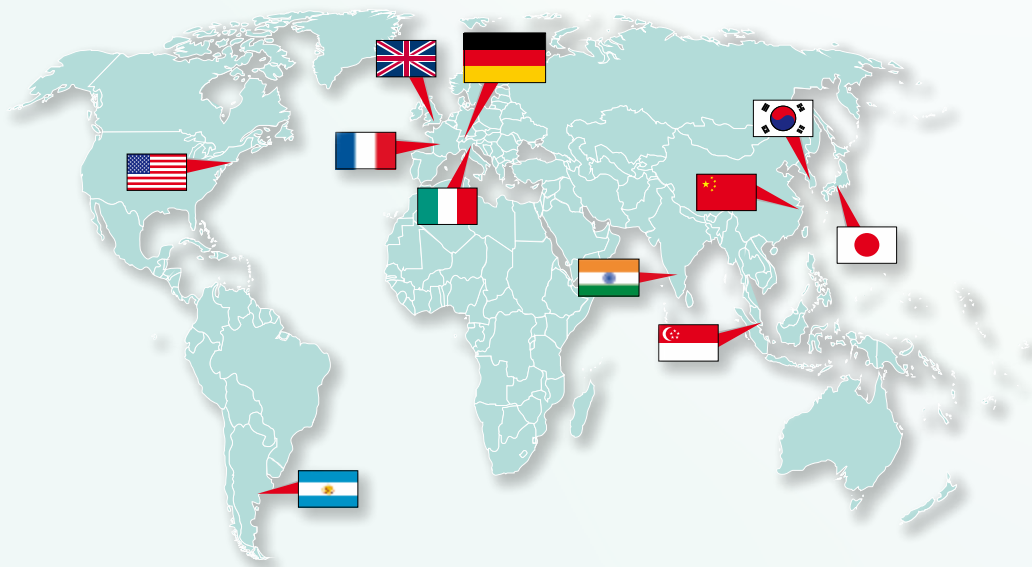
JULABO Korea Co., Ltd.
Seoul
+82 2 6277 3700
info@julabo-korea.co.kr
www.julabo-korea.co.kr

SINGAPORE

JULABO Singapore Pte., Ltd.
Singapore
+65 6775 1516
info@julabo-singapore.com
www.julabo-singapore.com

INDIA

SISKIN Instruments Co. (P) Ltd.
Bangalore
+91 80 2360 2560
info@julabo.in
www.julabo.in



Plus more than
100 partner distributors
worldwide

Your JULABO Partner

Julabo
THE TEMPERATURE CONTROL COMPANY

www.julabo.de