



### Technical data sheet

## Recirculating Chiller F-180

The Recirculating Chiller F-180 is an environmentally friendly and compact recirculating chiller designed for our Rotavapor® line. The variable performance delivers an efficient cooling capacity at low temperatures while remaining whisper-quiet and energy-efficient when the Rotavapor® requires less power. The use of natural refrigerant also helps to protect the environment. The chiller can be controlled by one or two Rotavapor® units, and the Vacuum Pump V-180 can be placed on top of the Recirculating Chiller F-180.



## Scope of delivery

All configurations are supplied ready to use.



### NOTE

The scope of delivery depends on the configuration of the purchase order.

Accessories are delivered as per the purchase order, order confirmation, and delivery note.

Components	Recirculating Chiller F-180
Power cable	1
Communication cable (COM)	1
Hose barbs, GL-14; Ø 8 mm	4
Hose clips	4

## Order code

Choose the configuration according to your needs:

**1 1 F 1 8 0 0 1**

Recirculating Chiller F-180  
for the US and Canadian markets (UL/CSA)

**1 1 F 1 8 0 0 2**

Recirculating Chiller F-180  
for European (CE) and international markets (IECEE CB scheme)

## Technical data

### Recirculating Chiller F-180

Specification	Value
Dimensions (W × D × H)	240 mm × 450 mm × 465 mm
Weight	20 kg
Connection voltage (UL/CSA)	115 – 127 VAC ± 10% or 200 – 240 VAC ± 10%
Connection voltage (CE, CB scheme)	100 – 127 VAC ± 10% or 200 – 240 VAC ± 10%
Frequency	50 / 60 Hz
Power consumption	500 VA
Fuse (2×)	T 6.3 A H 250 V
Overvoltage category	II
IP Code	IP20
Pollution degree	2
Front side	unobstructed cooling air supply
Minimum clearance on rear side	20 cm
Noise level	standby: 55 dB max.: 68 dB
Pump pressure	0.5 bar
Tubing connection	Ø 8 mm (GL-14)
Flow rate (when connected to one Rotavapor®)	1.2 L/min
Flow rate (nothing connected)	3.5 L/min
Refrigerant	R290 (82 g)
Setpoint temperature without remote control	+ 10 °C
Temperature range if controlled via Rotavapor®	0 °C to +25 °C
Temperature regulation accuracy	± 2 °C
Tank volume	4.5 L
Heating emission	1300 W
Cooling capacity at 15 °C <sup>1</sup>	600 W
Cooling capacity at 10 °C <sup>1</sup>	500 W
Cooling capacity at 0 °C <sup>1</sup>	350 W
Temperature display	no display
Compatibility with interface	Rotavapor® interface
Certificates (version dependent)	CB, CE, UL / CSA

<sup>1</sup> Measured at 20°C ambient temperature

### Ambient conditions

For indoor use only.

Specification	Value
Max. altitude above sea level	2,000 m
Ambient and storage temperature	5–40 °C

## Specification

## Value

Max. relative humidity

80% for temperatures up to 31 °C  
decreasing linearly to 50% relative humidity at 40 °C

## Spare parts and accessories

Use only genuine BUCHI consumables and spare parts in order to ensure correct, safe and reliable operation of the system.



### NOTE

Any modifications of spare parts or assemblies are only allowed with the prior written permission of BUCHI.

## Accessories

	Order no.	Image
Hose insulation, Kaiflex, 11/23, 1 m, black Use: cooling media, hose insulation	028696	
Cooling valve To operate one recirculating chiller F-180 with two Rotavapor R-80/ R-180.	11084320	
Coolant lid Use: for filling funnel	11084309	



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Technical data are subject to change without notice  
Quality Systems ISO 9001

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