

# Recirculating Chiller Line



# Solutions from one source – from the market leader in rotary evaporators

The most common coolant used in laboratories is mains tap water. However, water can be an expensive resource yet frequently it ends up going straight down the drain. Also, it is not a medium that can give reproducible results because of fluctuations in the ambient temperature. Unlike mains water, modern recirculating chillers are economic and sustainable and ensure constant, reproducible cooling conditions regardless of the time of year or the ambient temperature. If you're looking for the optimum, cost-efficient solution for your lab, you'll choose a chiller from Buchi.



## Advantages

- Optimally suited for use with one or two bench-top rotary evaporators or a 20 L rotary evaporator
- Environmentally friendly and economic by saving up to 300 litres of mains water a day when used in conjunction with a rotary evaporator
- Higher process safety and lower solvent emissions due to the constant, low cooling temperature
- Essential functionality for a really attractive price
- Robust design in stainless steel housing for use in harsh lab environments

## The approved Recirculating Chillers of the Buchi Chiller Line

**B-740/8:** The compact and robust B-740/8 Recirculating Chiller has a cooling capacity of 800 W at 15°C, and enables the cooling temperature to be varied from -10°C to 40°C.

**B-740/14:** This larger model, with a cooling capacity of 1400 W at 15°C, is ideal if you also need more power at lower temperatures. It has a temperature range from -10°C to 40°C.

**B-740/25:** The B-740/25 Recirculating Chiller, with a cooling capacity of 2.5 kW at 15°C, is ideal for cooling a large-scale rotary evaporator such as the Rotavapor R-220.

**Multistat:** If you are doing synthesis work using Syncore equipment, it is an advantage to be able to select and set a wide range of temperatures quickly and easily. This is where the Multistat comes in: with a cooling capacity of 300 W at -20°C and a heating capacity of 1800 W, the Multistat is the real all-rounder in our Recirculating Chiller range.

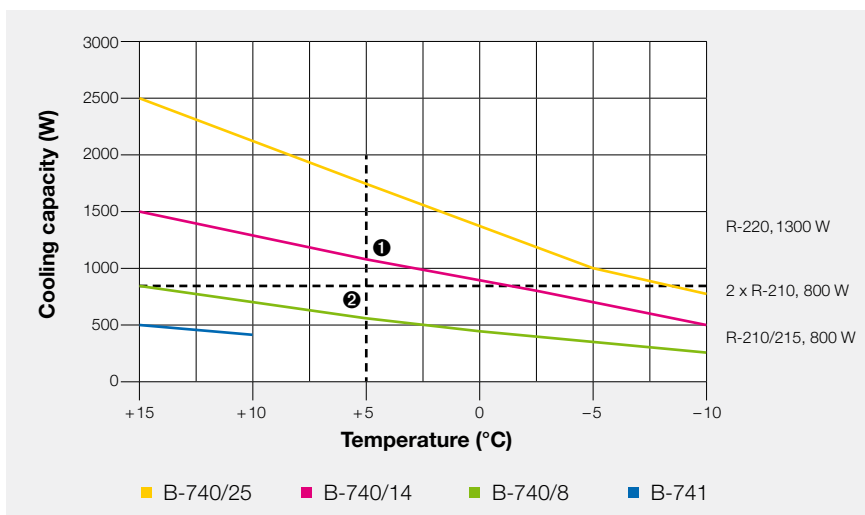
# The New Distillation Chiller B-741 - as easy to use as tap water

The Distillation Chiller B-741 is a cost-efficient and basic instrument of the Buchi Chiller Line. It cools to a fixed temperature of 10°C, and is ideal for use with one rotary evaporator. The compact design and fitted castors also make it very easy to move around. Why invest more if you don't need to?



The instruments of the Buchi Chiller Line are optimally suited to different operating conditions. Choose the right recirculating chiller for your equipment and process requirements.

		Model					
		Rotavapor 1l R-210/215	Rotavapor 1l 2 x R-210/215	Rotavapor 20l R-220	Syncore	Extraktion B-811/812/816	Auto Kjeldahl K-370
Temperature range	-40°C to -10°C				Multistat		
	-10°C to 0°C	■ B-740/14	■ B-740/25				
	0°C to 10°C	■ B-740/8	■ B-740/14	■ B-740/25	■ B-740/14	■ B-740/8	
	10°C to 20°C	■ B-741	■ B-740/8		■ B-740/8	■ B-741	■ B-741
	Heating				Multistat		



Using this graph, determine the optimal system depending on the required cooling capacity.

Example: You're looking for a chiller to cool two rotary evaporators (around. 800 W) ② to a temperature of 5°C ①. Recirculating Chiller B-740/8 does not have sufficient cooling capacity. You should therefore choose the next chiller in the range, the B-740/14.

# Order information

**Distillation Chiller  
B-741**



Order no.  
230 V 50/60 Hz 046770  
120 V 60 Hz 046772

**Recirculating Chiller  
B-740/8**



Order no.  
230 V 50 Hz 037740

**Recirculating Chiller  
B-740/14**



Order no.  
230 V 50/60 Hz 037741

**Recirculating Chiller  
B-740/25**



Order no.  
230 V 50 Hz 040300

**Multistat**



Order no.  
230 V 50 Hz 041830

Distribution head for connecting two rotary evaporators to one chiller.

Order no. 037742

## Technical data

Buchi Chiller Line	B-741	B-740/8	B-740/14	B-740/25	Multistat
Temperature range	10 °C	-10 °C to 40 °C	-10 °C to 40 °C	-10 °C to 40 °C	-40 °C to 150 °C
Coolant	R 134a	R 134a	R 134a	R 134a	R 507
Pump capacity	2.5 l/min. at 0.6 bar	3 l/min. at 0.6 bar	11 l/min. at 1 bar	11 l/min. at 1 bar	3 l/min.
Tank volume	3 l	5 l	5 l	20 l	14 l
Cooling capacity	500 W at 15 °C	800 W at 15 °C	1400 W at 15 °C	2500 W at 15 °C	300 W at -20 °C
W x H x D (cm)	28 x 55 x 36	45 x 57 x 40	45 x 67 x 40	45 x 110 x 55	41 x 70 x 46
Ambient temperature	15 °C to 32 °C*	15 °C to 32 °C*	15 °C to 32 °C*	15 °C to 32 °C*	15 °C to 32 °C*
Weight	26 kg	38 kg	40 kg	72 kg	45 kg
Hose connection (outer diameter)	9.5 mm	9.5 mm	13.5 mm	13.5 mm	13.5 mm

\* Testet up to 38 °C, but cooling capacity reduced at higher temperatures.

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