Low Temperature Circulator - Recirculating Chiller - -20°C - 2.5 L Tank

Model **MSRECL20-2XSWISS** | Brand **Master Science**





The Master Science Low Temperature Circulator supplies cooled liquid from room temperature down to -20 °C for rotary evaporators, condensers, reactors and other lab equipment. A sealed refrigeration system works with PID control to cool quickly and hold the set point within ±0.5 °C.

KEY HIGHLIGHTS

- Stable cooling
- Saves tap water
- Easy to read and set
- Protects the pump
- Small footprint

AT A GLANCE

-20 °C to room temperature TEMPERATURE RANGE	**±0.5 °C** CONTROL ACCURACY
-20 °C MINIMUM TEMPERATURE (NO LOAD)	**0.01 °C** TEMPERATURE RESOLUTION

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

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Overview

The unit is compact and quiet, so it can stand on a bench or inside a fume hood next to the instrument it serves.

Key Benefits

Stable cooling
the Master Science Low Temperature Circulator holds ±0.5 °C.

Saves tap water
closed-loop cooling replaces running water through condensers.

Easy to read and set
5-inch touch screen.

Protects the pump
low level alarm and level window.

Small footprint
240 mm wide, fits beside a rotary evaporator.

Pair it with a Master Science compact rotary evaporator.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSRECL20-2XSWISS
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Temperature Range	**-20 °C to room temperature**
Minimum Temperature (no load)	-20 °C
Temperature Resolution	0.01 °C
Control Accuracy	**±0.5 °C**
Tank Volume	2.5 L, SUS304 stainless steel
Bath Fluids	Ethanol, ethylene glycol, antifreeze
Maximum Flow Rate	18 L/min
Maximum Head / Pressure	7 m / 0.6 bar
Cooling Capacity	**700 W at 20 °C, 420 W at 0 °C, 280 W at -10 °C, 120 W at -20 °C**
Compressor	480 W / 3.1 A
Refrigerant	R404A
Circulation Connectors	Hose barb, 10 mm OD
Housing	Powder-coated cold-rolled steel
Other	Drain valve, timer, level window, low level alarm
Display	5-inch touch screen with temperature, time, cooling and circulation indicators
Ambient Temperature	5 to 35 °C

POWER

Power Supply	220 to 240 V, 50 Hz
Total Power	580 W

DIMENSIONS & WEIGHT

Dimensions (W × D × H)	240 × 420 × 475 mm
Net / Gross Weight	28 kg / 34 kg

COMMON LABORATORY PROBLEMS AND HOW THIS CIRCULATOR HELPS

Common Laboratory Problems and How This Circulator Helps	How the Master Science Low Temperature Circulator solves frequent cooling problems:
Poor solvent recovery	condenser stays cold at the set point.
Wasted tap water	closed-loop recirculation.
Pump damage from low fluid	low level alarm.
No space in the hood	compact cabinet.

Applications

The Master Science Low Temperature Circulator is used with
Rotary evaporators for concentration and solvent recovery Extraction, crystallisation and drying setups Jacketed reactors and condensers Pharmaceutical R&D and food testing University chemistry labs

Cooling

- Sealed compressor refrigeration
- PID temperature control
- Down to -20 °C

Circulation

- 18 L/min pump, 7 m head
- 10 mm hose barb connectors
- Drain valve

Operation

- 5-inch touch screen
- Timer
- Low level alarm

Optional Accessories

- RS485 or RS232 communication interface
- Parallel interface