RECIRCULATING CHILLER

UC-5030

-30°C 50L Recirculating Chiller

The UC-50/30 is a recirculating chiller that provides external cooling for laboratory systems, keeping temperature-sensitive components at a constant temperature from ambient down to -30°C. A 5HP Invotech compressor, a 50 L reservoir, and +/- 0.5°C accuracy suit it to vacuum systems, jacketed reactors, rotary evaporators, and analytical instruments.

- **Deep cooling.** Ambient to -30°C with +/- 0.5°C accuracy.
- **Powerful refrigeration.** 5HP Invotech compressor, 37,617 BTU at 20°C.
- **Strong circulation.** 100 W pump rated at 42 L/min.
- **Large reservoir.** 50 L reservoir with cover lid, fitted with casters.
- **Simple controls.** Front LCD panel for fluid pumping and temperature setting.

MODEL UC-5030



-30 °C	37,617 BTU	100 W	42 L/min	50 L
LOWEST SET POINT	COOLING AT 20°C	PUMP WATTAGE	PUMP FLOW	RESERVOIR CAPACITY

Technical Specifications

Model **UC-5030**

TEMPERATURE CONTROL

Temperature range	Ambient to -30°C / -22°F
Temperature accuracy	+/- 0.5°C
Control panel	Front LCD with PV and SV displays

REFRIGERATION

Compressor	5HP Invotech, phase change
Compressor capacity	37,617 BTU at 20°C; 2,508 BTU at minimum °C
Refrigerant	R-448 (2025+); R-404a

OPERATION

Maximum run time	16 hours; not for 24-hour operation
Compressor cycling	No more than 5 times per day
Ambient conditions	70°F (21°C) recommended; performance degrades above 80°F (26°C)
Recommended fluid	PG 50:50 distilled water; no more than 60 % glycol

CIRCULATION

Pump model	LPS25-6S/130
Pump wattage	100 W
Pump flow	42 L/min
Pump flow rate (water)	30 L/min
Pump pressure	2.2 bar; 2.5psi @ 3.9ft - 8.8psi @ 18.7ft
Connections	3/4″ FNPT with male union, brass valve, and 3/4″ MNPT to 5/8″ barb

ELECTRICAL

Power supply	220-240 V / 50-60 Hz / 30 A, single phase
Power	6000 W
Acceptable voltage	219V - 253V; not compatible with 208V
Plug	NEMA L6-30P
Circuit	Dedicated circuit installed by a qualified electrician

BATH AND DIMENSIONS

Reservoir capacity	50 L
Overall dimensions	31" x 26" x 46"
Weight	377 lb
Construction	Casters; reservoir cover lid; stand attachment

ORDERING INFORMATION

CATALOG NO.	DESCRIPTION	ELECTRICAL
UC-5030	-30°C 50L Recirculating Chiller Ambient to -30°C, 50 L reservoir	220-240 V / 50-60 Hz / 30 A NEMA L6-30P plug

IDEAL APPLICATIONS

Vacuum systems · Jacketed reactors · Rotary evaporators · Columns · Solvent tanks · Analytical instruments

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