

USA LAB -20°C TO 180°C 7L COMPACT RECIRCULATING HEATER CHILLER 220V UHC-720

Our USA Lab 7L -20°C to 180°C Desktop Recirculating Heater Chiller (UHC-720) delivers fast heating and cooling with tight temperature control in a compact footprint. A powerful circulation motor ensures excellent temperature distribution and uniformity throughout the bath, while the LCD touchscreen controller provides accurate, simple operation.

Equipped with a high-performance refrigeration system and 2500W heating element, the UHC-720 rapidly reaches setpoints and maintains stability within ±2°C. Ideal for jackets, coils, reactors, condensers, and benchtop R&D requiring reliable thermal management.

KEY BENEFITS:

- Rapid Heat & Chill** - High-performance refrigeration plus 2500W heating for fast ramping.
- Stable & Uniform** - Strong circulation (20 L/min, 8 PSI) delivers excellent temperature uniformity.
- Precise Control** - LCD touchscreen controller with PT100 probe and ±2°C accuracy.
- Compact & Capable** - 7L SS304 bath with cover, ideal for coils, jackets, glassware, and reactors.
- Lab-Ready Power** - 220-240V, 6-20P; note: not for 208V input; max 16 hr operation per session.

 Wide Operation Range
-20°C to 180°C with silicone oil

 Powerful Heating Element
2500w | **Cooling up to 450w**

 Strong Circulation
20 L/min | **8 PSI** | **18.3 ft lift**



EXPAND YOUR LAB'S CAPABILITIES

Pair the UHC-720 with USA Lab rotary evaporators, jacketed reactors, condensers, and vacuum ovens to build a complete benchtop workflow for heating, cooling, and precise thermal management.

SPECIFICATION

Model	UHC-720 USA Lab 7L Desktop Recirculating Heater Chiller
Operation Range	-20°C to 100°C (up to 180°C with silicone oil)
Power Requirements	220-240V 60 Hz 11.36-10.42 A NEMA 6-20P
208V Compatibility	Not compatible (acceptable range 219-253V)
Cooling Capacity	+10°C: 450 W 0°C: 350 W -10°C: 250 W
Controller Accuracy	±2°C
Circulation Type	Open loop with bath cover
Circulation Capacity	Flow: 20 L/min Pressure: 8 PSI Lift: 5.6 m (18.3 ft)
Circulation Wattage	100 W
Display	LCD touchscreen with timer
Temperature Probe	PT100
Compressor	Piston style, rated 735 W
Refrigerant	R-134a
Heating Element	2500 W
Condenser Fans	2 × 38 W (76 W total)
Tank Capacity	7 L, SS304
Tank Size (W×D×H)	11.8" × 8.7" × 5.1"
Cooling Exchanger	Chromium-coated copper
Hose Connections	1/2" NPT
Overall Size (W×D×H)	12.6" × 21.7" × 27.2"
Weight	35 kg (77 lb)
Recommended Fluids	Water/glycol within range; silicone oil required above 100°C
Duty Cycle	Not intended for 24/7 operation; max 16 hours per run
Plug Option	Can be changed to NEMA 6-15P if desired