

# 3. Mini Chillers

## Basic (BC) & Prime (PS) Series

ESCY Mini chillers help cool various laboratory equipment, including rotary evaporators, and are suitable for applications such as separations, chemical reactions, spectroscopy, and lab automation.

- Accurate Temperature control.
- Robust, powerful cooling.
- Small Filling port.
- Models with fixed Tank capacities (5, 9 litres) or Reservoir with Brazed Plate Heat Exchanger (BPHE Technology).



### Standard Specification for all models:

- Temperature stability:  $\pm 0.03^{\circ}\text{C} / 0.5^{\circ}\text{C}$
- No. of Set Points: 1.
- Magnetic Pump

### Additional features in PS models

- RS485 communication port
- Integrated PID controller
- Low Liquid level Alarm
- Over Temp cutoff
- Timer

Model	Temperature Range (°C)	Bath Volume (L)	Heater Capacity (kW)	Cooling Capacity @ 20°C (kW)	Pump Pressure (mbar)	Pump Flow Rate Max (lpm)	RS485 Comm	External Temperature Control
M05BC2040A	-20 to +40	5	1	0.6	350	15	X	X
M05BC1040A	-10 to +40	5	1	1	350	15	X	X
M09BC2040A	-20 to +40	9	2	1.2	600	20	X	X
M09BC1040A	-10 to +40	9	2	1.5	600	20	X	X
M05PS2040A	-20 to +40	5	1	0.6	350	15	○	○
M05PS1040A	-10 to +40	5	1	1	350	15	○	○
M09PS2040A	-20 to +40	9	2	1.2	600	20	○	○
M09PS1040A	-10 to +40	9	2	1.5	600	20	○	○

○ = Optional

X = Not Available

Temperatures up to 80°C available on request.

# 3.1 Recirculating Chillers

## Prime Series (PS)

The ESCY Prime series recirculating chillers (PS models) come equipped with advanced control & safety features and integrated controller.

- Accurate Temperature control.
- Robust & powerful cooling.
- Small Filling port.
- Safety features viz. Low liquid level audio visual alarm, over temp cut off.
- External Temperature control & RS485 communication port, are optional features.
- Provided with positive displacement pump (max pressure 4 bar & flow rates 6, 12 or 25 lpm).
- Models with fixed Tank capacities (5, 9 litres) or Reservoir with Brazed Plate Heat Exchanger (BPHE Technology).



### Standard Specification for all models:

- Temperature stability:  $\pm 0.03^{\circ}\text{C}$  /  $0.5^{\circ}\text{C}$
- Temperature control PID | On/Off
- Low liquid level alarm.
- No. of Set Points: 1.
- Over Temp Cut off.
- Pump Pressure (bar): 4

Model	Temperature Range (°C)	Bath Volume (L)	Cooling Capacity (@ 20°C (kW)	Pump Flow Rate Max (lpm)	RS485 Comm	External Temperature Control
C05PS0510A	+5 to RT	5	1	6	○	○
C09PS0515A	+5 to RT	9	1.5	6	○	○
C09PS0520A	+5 to RT	9	2	6	○	○
C09PS0528A	+5 to RT	9	2.8	6	○	○
C09PS0550A	+5 to RT	9	5	6	○	○
C09PS0570A	+5 to RT	9	7	6	○	○

○ = Optional

Pump flow rates 12 & 25 lpm available on request