

FTS Systems BioCool™ IV40

Controlled Rate Freezer



Features

- Mechanically refrigerated.
- Temperature control range of -40 to 30 °C.
- Built-in magnetic stirrer and vortex breaker.
- Multi-functional temperature controller.

Benefits

- Eliminates costs and hazards of expendable refrigerants.
- Freeze a wide variety of biological material.
- Ensures isothermal bath conditions.
- Provides accurate temperature control with temperature indication and ramp control.

Optional Accessories

Model	SR-36	SR-12	SR-15
Description	Straw Rack	Ampule Rack	Ampule Rack
Material	304 SS	316 SS	304 SS
Maximum Capacity	36 straws (.25cc or .5cc)	12 ampules up to 5 ml	15 ampules up to 5 ml



SR-36



SR-12



SR-15

Performance Specifications

Maximum Low Temperature	-40 °C
Temperature Control Range	-40 to 30 °C
Temperature Control Stability*	± 0.1 °C
Temperature Indication Display	0.1 °C
Bath Volume	1.5 L
Magnetic Stirrer	Included
Vortex Breaker	Included


Note: Performance specifications are based on SP Scientific test data from units using methanol operating at an ambient room temperature of approximately 22 °C (72 °F).

Maximum Cooling Rates†

20 to -20 °C	3 °C / minute
-20 to -30 °C	2 °C / minute
-30 to -40 °C	1 °C / minute

Electrical Requirements

60 Hz Option	120 V, 9 A ‡
50 Hz Option	220 V, 5 A ‡

Note: All equipment configured with the 60 Hz option is supplied with a 5-15P NEMA configuration (i.e., ). All equipment configured with the 50 Hz option is supplied with a non-terminated AWG 18-3 power cord.

Dimensional Data

Width	10.5 in (26.7 cm)
Depth	20.5 in (52.1 cm)
Height	14.5 in (36.8 cm)
Weight	57 lbs (25.9 kg)
Chamber Diameter	4.75 in (12.1 cm)
Chamber Depth	5 in (12.7 cm)
Height to Work Surface Above Bench Top	11 in (27.9 cm)

Disclaimer: The BioCool™ is not an FDA-registered medical device.

* Temperature control is accomplished by means of a PID microprocessor controller which offers rapid temperature stabilization and displays a bright, continuous read of temperature with 0.1 °C indication.

† Rates calculated at 22 °C (72 °F) ambient with clean methanol.

‡ Maximum continuous amperage drawn by the equipment.