



SP FTS BioCool™

Controlled Rate Freezer

Features & Benefits

- Mechanically refrigerated to eliminate costs and hazards of expendable refrigerants
- Freeze a wide variety of biological materials including embryos, tissue and blood
- Built-in magnetic stirrer and vortex breaker ensure isothermal bath conditions
- Robust controller provides accurate temperature control with up to ten-point calibration and user-specified ramp control with up to ten distinct segments

Model Specifications

Description	BCV40
Maximum Low Temperature	-40 °C
Temperature Control Range	-40 to 30 °C
Temperature Control Stability ¹	± 0.1 °C
Temperature Indication Display	0.1 °C
Bath Volume	1.5 L
Airborne Noise Emissions	65 dba
Magnetic Stirrer	Included
Vortex Breaker	Included

Maximum Cooling Rates²

Description	BCV40
20 to -20 °C	3 °C / minute
-20 to -30 °C	2 °C / minute
-30 to -40 °C	1 °C / minute

Electrical Requirements

Description	BCV40
60 Hz Option	120 V, 9 A ³
50 Hz Option	220 V, 5 A ³

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

Description	BCV40
Width	26.7 cm (10.5 in)
Depth	52.1 cm (20.5 in)
Height	37.8 cm (14.9 in)
Weight	25.9 kg (57 lbs)
Chamber Diameter	12.1 cm (4.75 in)
Chamber Depth	12.7 cm (5 in)
Height to Work Surface Above Bench Top	27.9 cm (11 in)

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

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

¹ Temperature control is accomplished by a PID microprocessor controller which offers rapid temperature stabilization and displays a continuous read of temperature with 0.1 °C indication.

² Rates calculated at 22 °C (72 °F) ambient with clean methanol.

³ Maximum continuous amperage drawn by the equipment.



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