



SP FTS HistoChill™

Tissue-Freezing Bath

Features & Benefits

- Hinged and insulated reservoir provides easy access to bath
- Mechanical refrigeration eliminates the need for expendable refrigerants
- Rapid freezing of samples minimizes ice crystal formation allowing for more precise microscopic examination
- Optional temperature control (HC80 only) allows for more stringent, tissue-specific, or R&D applications

Certifications

- CE (2006/42/EC), (2006/95/EC), (006/108/EC)

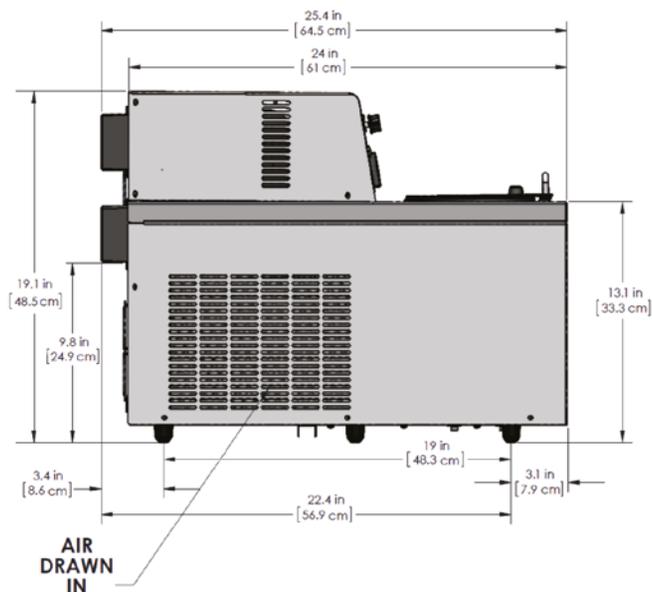
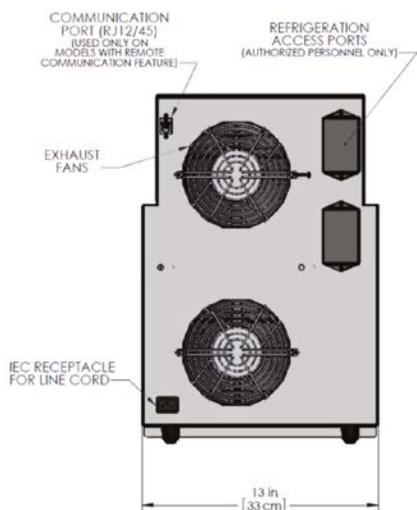


Performance Specifications

Description	HC55	HC80
Maximum Low Temperature	-55 °C	-80 °C
Temperature Range	N/A	-80 °C to 0 °C
Temperature Control ¹	N/A	Optional ⁴ (-80 °C to 0 °C)
Temperature Control Stability	N/A	± 0.1 °C
Temperature Indication Display	N/A	0.1
Compressor	1 @ 0.25 hp	2 @ 0.25 hp
Bath Volume	1.5 L	1.5 L

Notes: Performance specifications are based on SP test data from units using 3M™ Novec™ 7000 Engineered Fluid and operating at an ambient room temperature of approximately 22 °C (72 °F).

SP FTS HistoChill™



NOTE: The SP FTS HistoChill is not intended, nor has it been tested / designed to be safely used with extremely flammable fluids (e.g. Isopentane)

HistoChill™ Fluid Comparison

Description	3M™ Novec™ 7000	Isopentane
Liquid Density	1.4 g/ml	0.616 g/ml
Tox: 8 hr Exposure Guideline	1.4 g/ml	ACGIH 600 ppm TWA
Skin Irritation	Negative	Irritant
Eye Irritation	Practically non-irritating	Irritant
Mutagenicity	Negative	Unknown
Flash Point	N/A	-51 °C
Freeze Point	-122.5 °C	-160 °C
Boiling Point @ Atmosphere	34 °C	30.6 °C
Flammability	34 °C	Extremely flammable

Note: Dimensional drawings shown for HC80 only.

¹ Temperature control is accomplished by means of a proportional-integral-derivative (PID) microprocessor control which offers rapid temperature stabilization and displays a bright, continuous read of temperature with 0.1 °C indication.

² Maximum continuous amperage drawn by the equipment.

³ Chamber Depth decreases to 5 in (12.7 cm) for HC80 units with the temperature control option.

⁴ Magnetic Stirrer is included with temperature control option (HC80 only).

Electrical Requirements

Description	HC55	HC80 (Control)	HC80 (No Control)
60 Hz Option	120 V, 4 A ²	120 V, 12 A ²	120 V, 12 A ²
50 Hz Option	220 V, 2 A ²	220 V, 6 A ²	220 V, 6 A ²

Dimensional Data

Description	HC55	HC80
Width	26.7 cm (10.5 in)	33 cm (13 in)
Depth	52.1 cm (20.5 in)	64.5 cm (25.4 in)
Height	28 cm (11 in)	48.5 cm (19.1 in)
Weight	24.9 kg (55 lbs)	43.1 kg (95 lbs)
Chamber Diameter	12.2 cm (4.8 in)	12.1 cm (4.75 in)
Chamber Depth ³	16.5 cm (6.5 in)	16.5 cm (6.5 in)
Height to Work Surface Above Bench Top	26.7 cm (10.5 in)	34.3 cm (13.5 in)

Optional Accessories

Model	Description
HT-7000	3M™ Novec™ 7000 Engineered Fluid



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