

Cryostats for FTIR Spectroscopy

System Specifications	ST-100-FTIR	STVP-100-FTIR	VPF-100-FTIR	PT-950-FTIR
Sample environment	Vacuum	Liquid or flowing vapor	Vacuum	Exchange gas
Temperature range	~2.5 to 325 K (higher temperatures optional)	<2 to 300 K	65 to 325 K (higher temperatures optional)	<7 to 300 K (higher temperatures optional)
Initial cooldown time	15 min	15 min	15 min	N/A
Temperature stability (with controller)	50 mK or less	50 mK or less	50 mK or less	50 mK or less
Orientation	Any position	Vertical for <4.5 K	Vertical	Vertical
System weight	Approximately 10 lb (minus the transfer line)	Approximately 15 lb (minus the transfer line)	Approximately 10 lb	Approximately 70 lb minus the compressor
Cryogen consumption (cooldown)	0.4 L LHe from 325 to 4.2 K	0.5 L LHe from 325 to 4.2 K	N/A	N/A
Cryogen consumption (operation)	0.5 L/h at 5 K with LHe	1.1 L/h at 5 K with LHe	0.1 L/h at 77 K with LN ₂	N/A
<i>Note: Specifications do not include parasitic or experimental heat loads.</i>				

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