

Heliox VT50 Factory Test Results

System Details

Customer Name	Bartowiak
Project Number	72008 <small>Please quote this number whenever you contact the factory</small>

Base temperature and hold times

Calculated Hold Time at Base (Standard Wiring)	52.478188	hrs
Hold time < 350 mK, 50 μ W applied (standard Wiring)	8	hrs
Base Temperature (Standard Wiring)	250	mK
Background heat load (Standard Wiring)	8.9931721	μ W
Calculated Hold Time at Base (Customer Wiring)	57.011571	hrs
Hold time < 350 mK, 50 μ W applied (Customer Wiring)	9.5	hrs
Base Temperature (Customer Wiring)	252.7	mk
Background heat load (Customer Wiring)	9.9975647	μ W

Temperature Controls

Set temperature / K	Sorb temperature / K	VTI temperature / K	Pressure mBar	Temperature stability / \pm K
0.5	14.59	1.54	5	0.002
1	20.68	1.54	4.9	0.002
1.4	25.46	1.55	5	0.001
5	14.99	1.58	5.9	0.003
25	15	1.58	6	0.002
40	14.99	1.58	6	0.002
80	14.99	5.14	6	0.01
300	170.2	295.01	6	0.02

Thermometry Information

Sensor position	Serial number	Sensor type
³ He Pot (high temp)	X182092	Cernox
³ He Pot (low temp)	U09912	RuO ₂
³ He Sorb	-	100 Ω Allen-Bradley
⁴ He Plate	-	RuO ₂

Heater Position	Serial number	Heater Type
³ He Pot	-	2 x 100 Ω Firerod
³ He Sorb	-	68 Ω