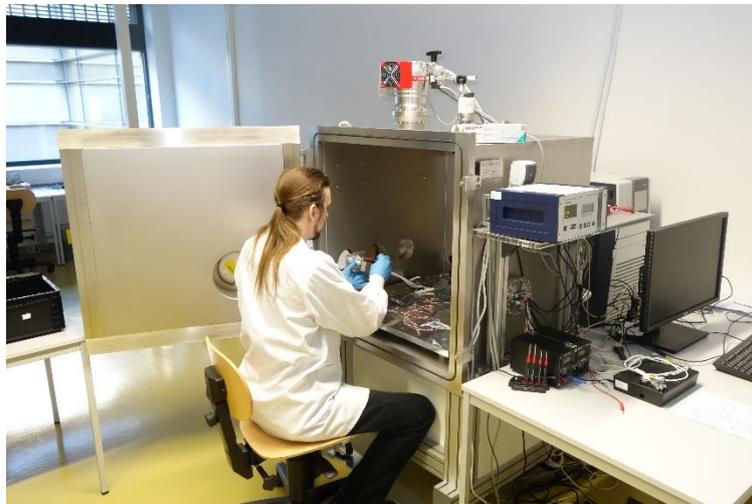


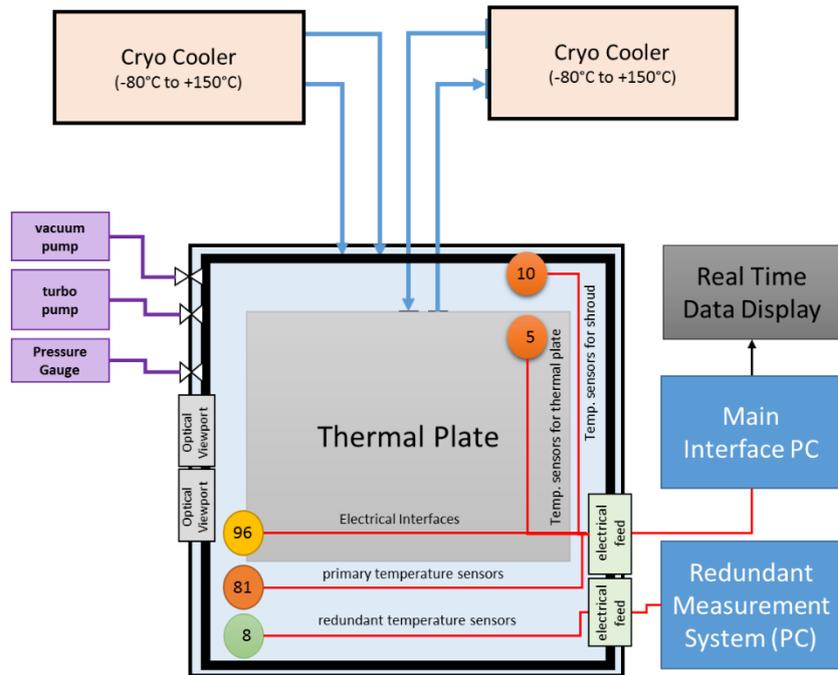
## THERMAL VACUUM CHAMBER

Berlin Space Technologies offers cost effective solutions for thermal vacuum tests (TVAC). Our TVAC chambers are built according to the complex test regime of the space industry. They offer automatic safety and logging modes which allow the operator to run the chamber without human supervision.



**BST Thermal Vacuum Chamber**

Characteristics	Value	Comment
Vacuum Level	<1e-6 mbar	Empty chamber
Temperature Range	-50°C to +60°C	thermal plate tested by BST
	-80°C to 150°C	range of the cooler
Active Shroud	Optional	Via main cooler optionally via secondary cooler
Chamber Internal Size	900 x 900 x 900 mm <sup>3</sup>	Inside Shroud is 800 x 800 x 800mm larger versions on request
Electrical feed through	2x 50 pin	More pins on request
RF feed through	optional	
Optical feed through	2x 100mm 1x 200mm	Other configurations on request
Thermal feed through	4x 40mm	For shroud and thermal plate
Automatic Monitoring	Yes	Safety & Data Logging



**Block Diagram**

Dimensions & Interfaces	Value	Comment
Chamber ext. dimensions w/o cooler systems	2200mm +/- 200mm	Height
	1300mm +/- 100mm	Width
	1400mm +/- 100mm	Depth
Cooler Dimension (Main)	2200mm +/- 200mm	Height
	800mm +/- 100mm	Width
	1400mm +/- 100mm	Depth
Cooler Dimension (Shroud)	2200mm +/- 200mm	Height
	800mm +/- 100mm	Width
	1400mm +/- 100mm	Depth
Power Supply	Two Connections of 3 x 400V / 50Hz – 18A	2x Cooler; 400V 3-phase current required for basic cooler
	One Connection of 220V – 10A	vacuum & turbo pump
	One Connection of 220V – 3A	measurement equipment