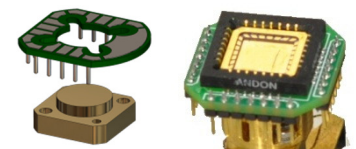
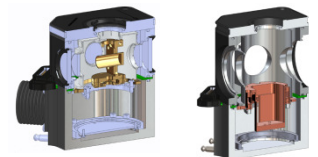
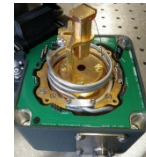
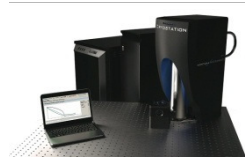


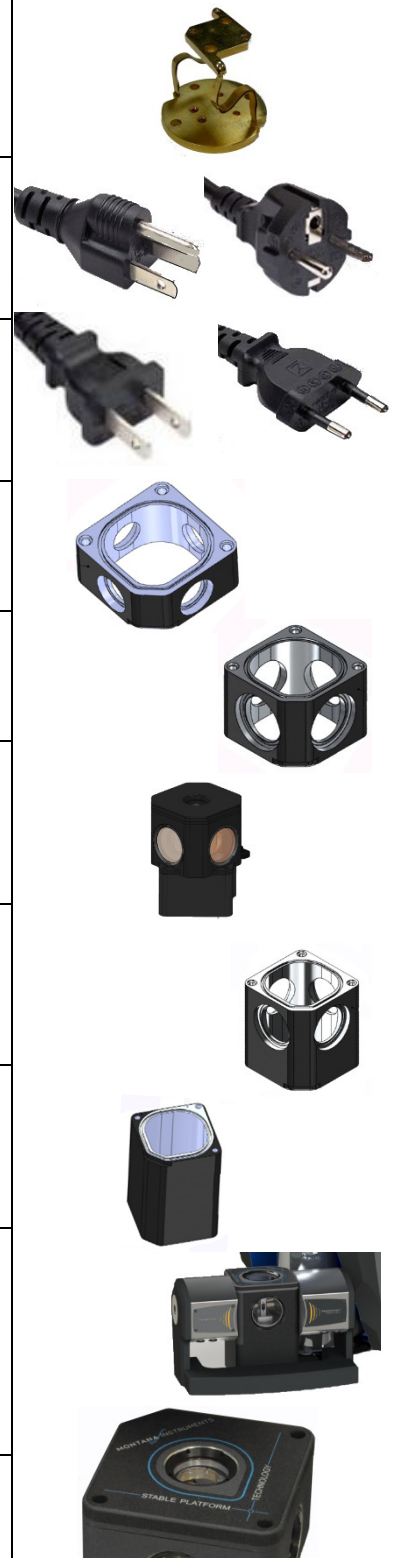
Cryostation Configuration Options	Doc-124
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CRYOSTATION CONFIGURATION OPTIONS

Integrated Configurations:	
Cryostation foundation (without sample chamber) <i>plus</i> .	Includes compressor, control box, user interface PC, and cryostat. Most of the special configurations relate to the sample chamber. Those options are described below.
Sample chamber base style <ul style="list-style-type: none"> <input type="checkbox"/> Inch <input type="checkbox"/> Metric 	The Cryostation holddown bolts are spaced either for use on an inch based or metric based optical table.
Sample chamber position with respect to cryocooler column <ul style="list-style-type: none"> <input type="checkbox"/> Standard <input type="checkbox"/> Extended 120mm 	The standard system has the sample chamber center about 80mm from the cryocooler tube. An optional extension moves that out 120mm more. Includes base plate that raises beam height by 6.3mm
<ul style="list-style-type: none"> <input type="checkbox"/> Without side plate (standard) <input type="checkbox"/> With side plate 	A side plate is available on the sample chamber base for an interface location other than the optical ports. This makes it easier to remove the window assembly layer and access your samples.
Side plate style <ul style="list-style-type: none"> <input type="checkbox"/> Blank <input type="checkbox"/> 4xRF <input type="checkbox"/> 1/8" gas tube 	Some standard side plate configurations are available. The user can choose a blank and install their own interfaces. Note that items brought in through this plate must be carefully routed up through the platform stage and usually be lagged to the intermediate radiation shield.
Platform style <ul style="list-style-type: none"> <input type="checkbox"/> Standard <input type="checkbox"/> Piezo Ready with flat thermal link 	The Piezo Ready unit has a recessed "pocket" that allows room for the piezo stages below the normal mount platform. It also includes a flat platform that can replace the pocket.
<ul style="list-style-type: none"> <input type="checkbox"/> High Temp stage (500K) 	This heater is integrated into the sample platform, and allows higher temperatures under the closed loop thermal control.
<ul style="list-style-type: none"> <input type="checkbox"/> Thermally Damped Electrical Sample Mount (TDESM) integrated <ul style="list-style-type: none"> <input type="checkbox"/> CB12 with wires <input type="checkbox"/> LCC28 with wires 	The TDESM allows the user to pre-mount samples on small chips or circuit boards and simply change out the samples. It is most useful for samples with electrical connections. Best with 50mm windows.
<ul style="list-style-type: none"> <input type="checkbox"/> Piezo stages; Specify stages _____ _____ Specify controller _____ _____ 	Piezo stages are integrated into the cold space for moving the sample under test. Typical stages may be translation (X,Y,Z), tilt or rotation. We provide wiring and a thermal link to the sample platform.



<input type="checkbox"/> Parallel plate thermal link; Specify height _____ mm	When piezo stages are used without the recessed pocket of the Piezo Ready version, they often require a flexible thermal link to thermally connect the cold stage to the sample mount.
Control Box (240VAC) power cord style <input type="checkbox"/> US NEMA 6-20P <input type="checkbox"/> CEE 7/7	Input voltages of 208-240 are acceptable.
Laptop power cord style <input type="checkbox"/> US NEMA 1-15 <input type="checkbox"/> CEE 7	This powers a transformer "brick" with a removable cord.
Window Assembly style <input type="checkbox"/> 30mm ports standard	Outer warm windows are 30mm, inner cold windows are 20mm, beam height is 75mm above table, beam height is 18mm above platform, clear sample space is 38mm tall.
<input type="checkbox"/> 50mm ports	Outer warm windows are 50mm, inner cold windows are 30mm, beam height is 90mm above table, beam height is 33mm above platform, clear sample space is 63mm tall.
<input type="checkbox"/> 45deg rotated with 50mm ports	Same as above.
<input type="checkbox"/> 100mm tall with 50mm ports	Outer warm windows are 50mm, inner cold windows are 30mm, beam height is 126mm above table, beam height is 69mm above platform, clear sample space is 100mm tall.
<input type="checkbox"/> 120mm tall	There are no windows in this assembly. The clear sample space is 120mm tall.
<input type="checkbox"/> Magneto-optic <input type="checkbox"/> Without central bore <input type="checkbox"/> With bore	This design is based on the 50mm window assembly. The sample space is about 7 x 23mm between the poles. With a pole spacing of 12mm, the system will have a field of about 075 Tesla.
Top Window style <input type="checkbox"/> 30mm port <input type="checkbox"/> 50mm port	For the 30mm outer warm windows the inner cold windows are 20mm. For the 50mm outer warm windows the inner cold windows are 30mm.



External Options:	
<input type="checkbox"/> Sample in Gas	<p>The Sample In Gas option fits into the 45 degree rotated window assembly. The sample space is 35mm in diameter by 32mm tall.</p>
<input type="checkbox"/> Low Working Distance holder	<p>Window is either 0.2mm thick uncoated BK7 window with a 8.8mm clear aperture or a .5mm thick uncoated sapphire window with a 12mm clear aperture. This mounts in a 50mm port. A brass adapter with aperture is provided for the 30mm inner window.</p>
<input type="checkbox"/> Round Castle	<p>This was designed to fit into a superconducting magnet core.</p>
<input type="checkbox"/> Rectangular Castle	<p>This was designed to be used between GWM magnet poles or for dual sided high NA applications.</p>
Fiber Optic interface <ul style="list-style-type: none"> <input type="checkbox"/> Single fiber in 30mm port <input type="checkbox"/> Three fibers in 50mm port 	<p>Uses a FC type interface inside and outside.</p>
Coax/RF interface <ul style="list-style-type: none"> <input type="checkbox"/> Single in 30mm port <input type="checkbox"/> Quad in 50mm port 	<p>Uses an SMA type connector on the outside with solder connectors inside. Cables must be thermally lagged at radiation shield inside cold space for best performance.</p>
<input type="checkbox"/> Breadboard with risers; Specify height _____ mm	<p>Breadboard may be used with or without legs. Height without legs is 12.7mm.</p>

