innovation through research

SPECIFICATIONS

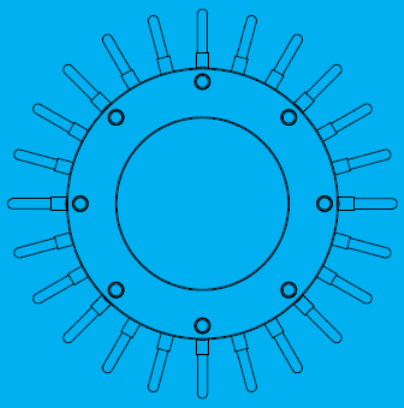
• NON-MAGNETIC / VACUUM
Non-magnetic and UHV-compatible materials with very low outgassing.

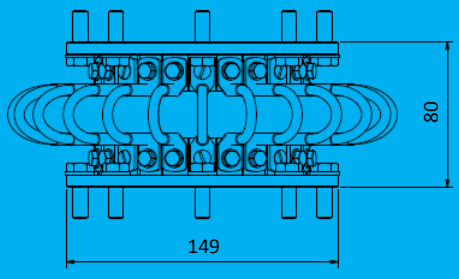
• MAXIMUM THERMAL CONDUCTANCE
Maximum thermal conductivity at low temperatures by the usage of Oxygen Free Copper (OF-Cu) and cold coated interfaces.

• MODULARITY
Fully integrated with cryostats from Leiden Cryogenics (CF200-1400, CF-CS81 series). No adjustments necessary, direct installation is possible.

• WEIGHT
3,4 [kg] or 7.5 [lbs]

• DIMENSIONS
As shown in [mm]





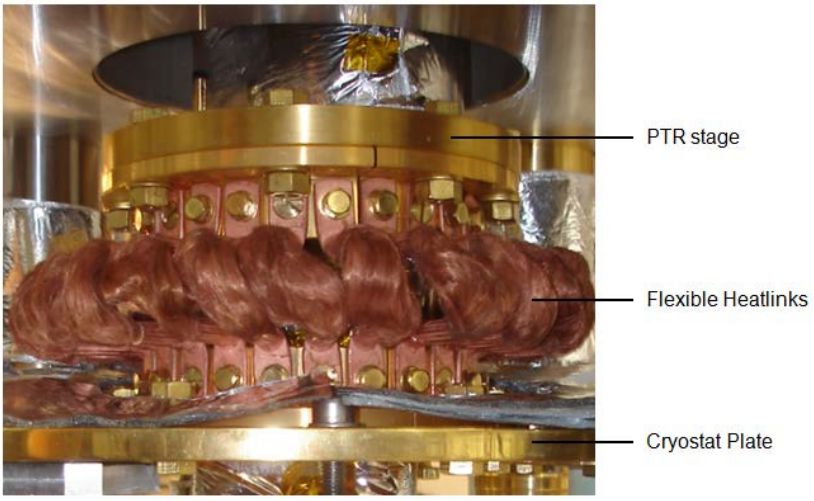
FPTH – Flexible Pulse Tube Heatlink

LSI B.V. has decreased the vibration levels in a cryostat by 'decoupling' the Pulse Tube Refrigerator (PTR) from the cryostat while maintaining the thermal (cooling) and vacuum functionalities of both these systems.

This 'decoupling' of the PTR can be done at two strategic places; the 50K and 4K interfaces between the PTR and cryostat. The sturdy and stiff connection between PTR and cryostat can be replaced by a very flexible (thermal) connection, so that the PTR vibrations are strongly damped. Mechanically very soft heatlinks are applied, to achieve a maximum thermal conductance at low temperatures in combination with a high mechanical decoupling and damping.

LSI B.V. has developed the 'Flexible Pulse Tube Heatlinks' in such a way that no adjustments to the cryostat or Pulse Tube interfaces are necessary. Direct installation on the CF200-1400 and the CF-CS81 cryostat series from Leiden Cryogenics is possible!

Included:
- Pre-assembled Flexible Pulse Tube Heatlinks
- Fasteners and bolts



Flexible Heatlinks inside a CF-650 Dilution Refrigerator

Besides the Flexible PTR Heatlinks, it is strongly recommended to also install the Flexible Pulse Tube Collar from LSI B.V. By doing this, the maximum mechanical decoupling of the PTR is achieved and both strategic places for the reduction and damping of the PTR vibrations are covered.