Fully custom Cryogenic Test Dewars for thermal cycling down to 10K

FULLY CUSTOMIZED CRYOGENIC TEST DEWARS FOR THERMAL CYCLING

Innovative technology

Different configurations (round, square) available.

RF transparent vacuum window for active component testing.

Waveguide test ports.

Efficiency & Reliability

Internal thermometers to track temperature changes.

Possible to record analog or digital parameters from the test bench.

Configurability

Each unit is fully tested and delivered with a complete factory acceptance test report.

Square or cylinder model available depending on requirements.

Key Features

* RF, electronic or small mechanical components testing
* Monitoring and Control software with recording and display of parameters
* Component size up to 300 x 300 x 100 mm
* Trolley, work table, rack, PC and safety system included
* Air or water cooled compressor

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Technical specifications

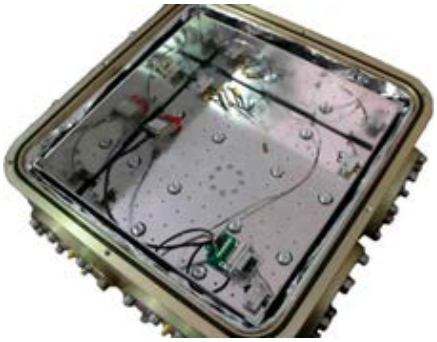
Cryo Test Dewars

TDs model

<10 K

Cryo-LNA performance

Base operation temperature	First stage <50 K, second stage <10 K unloaded
Test enclosure environment	Vacuum $<10^{-5}$ mbar
Dewar material	Aluminium
Cold plate material	Aluminium
Cold plate dimensions	Up to 300 x 300 mm
Internal clearance above cold plate	100 mm
Cooling power	First stage 8 Watts, Second stage 6 Watts
Max test duration	10 000 hrs
Test ports	Up to 7 ports of 80-200mm for waveguide, coaxial RF or other connectors



Physical

Models available	TD-S (square) or TD-C (cylinder)

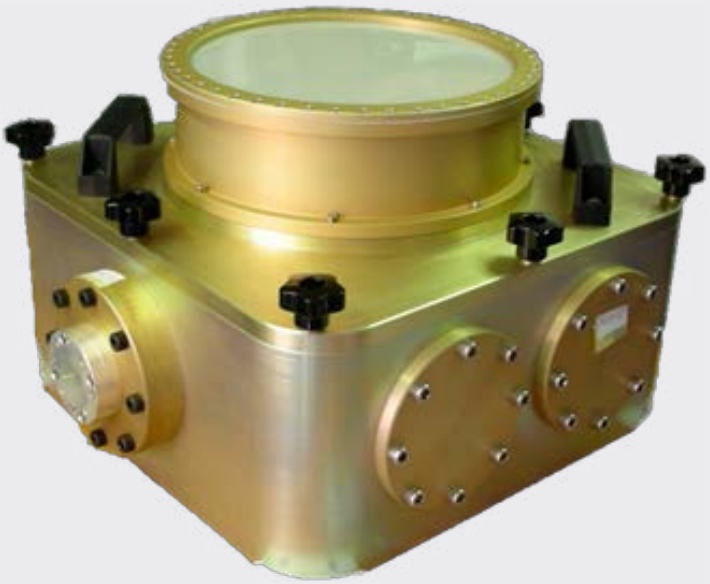
OPTIONS

* A complete cryo test system is available for purchase for clients' own in-house component testing.

* Alternative procurement options:

An alternative to buying the system, the cryo test service offer includes the above described system (Dewar, cryo-cold head, cryo-compressor and vacuum pump), based at Callisto to run tests on behalf of the client

Proposed assembly



Dimensions are in "mm" and after treatment
Tolerance according to ISO 2768-f

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