

Cryogenic equipment by SCONTEL

| # | ID | Description | Optical input | | Options | | | | | | | |
|------------------------------------|-----------------------|--|--|----------------|----------------|------------------|--|--|-----------|--------------|--------------|----------------|
| Storage Dewar Mount Inserts | | | | | | | | | | | | |
| | | Details | Temp | Int Dia | Outer Dia | Type | Comment | RF cable | DC wiring | DC connector | Thermo meter | Pressure gauge |
| 1 | Cryogenic Insert-30 | dip stick is used to cool down samples, low temperature is reached by pumping out the helium vapor | 1.7 K | 24 mm | 30 mm | fiber | up to 2 ch | up to 2 ch | optional | | + | + |
| 2 | Cryogenic Insert-50 | | | 38 mm | 46 mm | fiber | up to 4 ch | up to 4 ch | optional | | + | + |
| Cryogen-free systems* | | | | | | | | | | | | |
| | | Details | Heat load / min temp | Cold plate dia | Chamber height | Optical input | | RF cable | DC wiring | DC connector | Thermo meter | |
| 3 | Cryogen-free-fiber | cryostat is equipped with radiation shields (1st and 2nd cryo stages) cold plate is equipped with a rectangular grid of tapped holes (M3 on a 10 mm grid) | 0.1 W @ 4 K T _{min} 2.3 K | 90 mm | 55 mm | fiber | up to 4 ch per flange, up to 6 flanges | up to 4 ch per flange, up to 6 flanges | + | + | + | |
| 4 | Cryogen-free-window | | | | | window** opening | dia 18 mm up to 6 ch | up to 4 ch per flange, up to 6 flanges | + | + | + | |
| 5 | Cryogen-free-fiber-1K | based on 1 K stage by Chase Research Cryogenics® | 0.1 mW @ 1 K T _{min} 0.8 K | 50 mm | 50 mm | fiber | up to 8 ch | up to 8 ch | + | + | + | |
| LHe cryostats | | | | | | | | | | | | |
| | | Details | Heat load / min temp | Cold plate dia | Chamber height | Optical input | | RF cable | DC wiring | DC connector | Thermo meter | |
| 6 | LHe-window | LHe cryostat is equipped with 80 K and 150 K vapor cooled radiation shields cold plate is equipped with a rectangular grid of tapped holes (M3 on a 10 mm grid) | 4.2 K | 120 mm | 80 mm | window** opening | dia 18 mm up to 2 ch | up to 2 ch | + | + | + | |
| 7 | LHe-fiber | | | | | fiber*** | up to 2 ch | up to 2 ch | + | + | + | |

* based on a standard RDK-101D 4 K cold head by Sumitomo Heavy Industries®

** any window (HDPE, blank,...) can be preinstalled by request

*** a sealed fiber connector is preinstalled using window opening