The model ST-100-FTIR is manufactured by Janis . It can be used in combination with the Bruker IFS 66 v/s on Beamline 1.4.2 .

ST-100-FTIR features include:

- Sample in vacuum
- Multiple position sample holder
- Linear manipulator with 2" travel
- Sample rotation with scale
- Silicon diode temperature sensor
- Mounting flange to fit spectrometer

- High efficiency cryogen transfer line
- 1.63" diameter clear view window ports
- O-ring sealed windows for easy window change
- Liquid helium or liquid nitrogen cooling

| ***System Specifications*** | **ST-100-FTIR** |
|---|---|
| Sample Environment | Vacuum |
| Temperature Range | ~2.5 - 325 K (higher temperatures optional |
| Initial Cooldown Time | 15 minutes |
| Temperature Stability (with controller) | 50 mK or less |
| Orientation | Any position |
| System Weight (less transfer line) | Approx. 10 lbs. |
| Cryogen Consumption (cooldown) | 0.4 liters LHe from 325 - 4.2 K |
| Cryogen Consumption (operation) | 0.5 L/hr at 5 K w/LHe |

*Note: Specifications do not include parasitic or experimental heat loads.*

**ST-100-FTIR Mechanical Drawing**