







## Displex° Helitran°

- 1.7 to 800K
- Closed and open cycle cryostat goniometer interfaces

## www.arscryo.com



- Huber 512, 5020
- Bruker D8, D5000
- Newport KAPPA
- Rigaku, Scintag Philips

Advanced Research Systems, Inc.





Huber Goniometer Interface 6.5K to 800K Closed Cycle Cryostat

#### **DESCRIPTION**

The DE-202G has been designed for applications requiring movement of the refrigerator, specifically for goniometers. Ease of movement is achieved through an axial design which brings all gas hose and instrumentation connections out the end of the cold end thus removing them from the sphere of motion. The DE-202G was designed to fit into the cryostat carrier developed by Huber for use with its 511 and 512 goniometers. A vacuum shroud and radiation shield have been developed for X-ray crystallography.

#### **FEATURES**

- •Compact, in line design operates in any position
- •Designed specifically for use with goniometers
- •Simple pneumatic drive has only two moving parts allowing for easy field maintenance

### **SPECIFICATIONS**

### **Temperature Range:**

DE-202G- <9 K to 350 K
DE-202NG - <6.5 K to 350 K
Optional to 450 K and 800 K capability

#### **Refrigeration Capacity:**

2.5W @ 20K (60 Hz) 2.0W @ 20K (50 Hz) (without attachments)

#### **Cooldown Time:**

Less than 50 minutes to 20K (60 Hz) Less than 60 minutes to 20K (50 Hz) (without attachments)

### Weight:

Compressor 80 kg (175 lb) Expander 7.0 kg (16 lb)

### **DISPLEX DE-202G & DE-202NG**





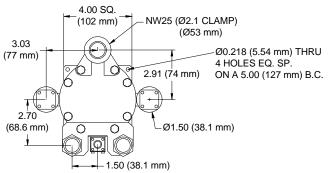
Displex DE-202G on Huber Goniometer

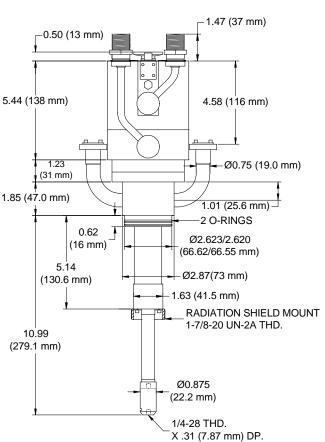




Goniometer Interfaces 6.5K to 800K Closed Cycle Cryostat

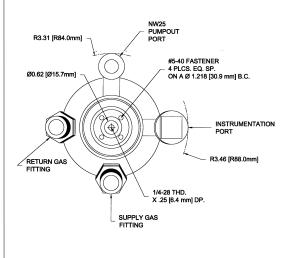
### **DISPLEX DE-202G & DE-202NG**





### **DISPLEX® DE-202K & DE-202NK**









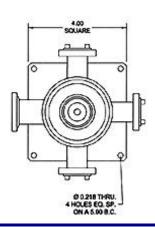
Goniometer Interface 1.7K to 800K Open Cycle Cryostat

#### **DESCRIPTION**

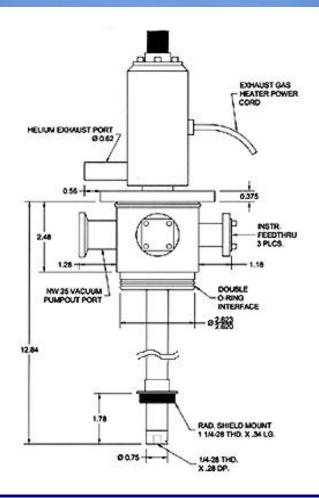
The LT-3G was specifically designed to interface with the cryostat carrier developed by Huber for use with it's 511 and 512 goniometers.

#### **FEATURES**

- Operates with liquid helium in the 1.7K to 350 K range or liquid nitrogen in the 77 350 K range.
- Compatible with optional 800K cryostat interface
- Lowest vibration open cycle system available
- Vacuum shrouds rotatable 360 degrees under vacuum. Uses the same shroud as a Displex DE-202 for commonality.
- Operates in any orientation with no loss of performance.
- All sample area components are OFHC copper, brass or 304 non magnetic stainless steel.
- Helium exhaust heater prevents frost from forming on vacuum shroud and reduces the possibility of cryogen burns.
- Liquid nitrogen use requires only change of cryogen; Helitran equipment stays the same.
- Transfer line available in 6 ft (standard) and 8 ft or 10 ft sections







#### Please visit ARS at PAC 2001 Booth # 112



# Advanced Research Systems, Inc.



OMINAX® Manipulator Interface 4K to 350K Open Cycle Cryostat

•Fully compatible with OMNIAX® Manipulator

**Helitran LT-3M** 

- •Special Length to accommodate up to 600 mm Z-travel
- Completely rotatable under vacuum at 4.2K
- •Operates with liquid helium or liquid nitrogen
- ·Lowest vibration open cycle system available
- All sample area components are OFHC copper, brass or 304 non magnetic stainless steel.



