

POLYCOLD SYSTEMS

HELIX TECHNOLOGY CORPORATION



CRYO **TIGER**®



General Specifications:

Weight = 1.4 kg (3.1 lbs.)
 Vacuum Insulation Requirement $\leq 10^{-4}$ torr
 Bakeable to 100°C
 Weight Supported at the Cold Tip ≤ 1.4 kg (3.0 lbs.)

Cooling Power/Temperatures:

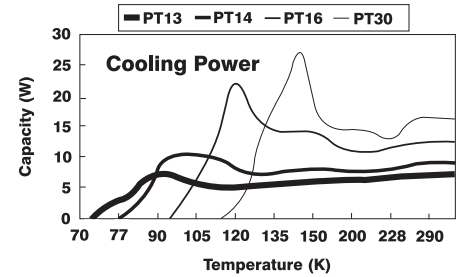
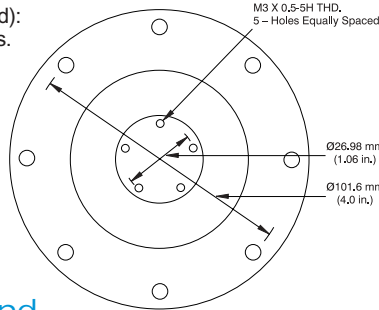
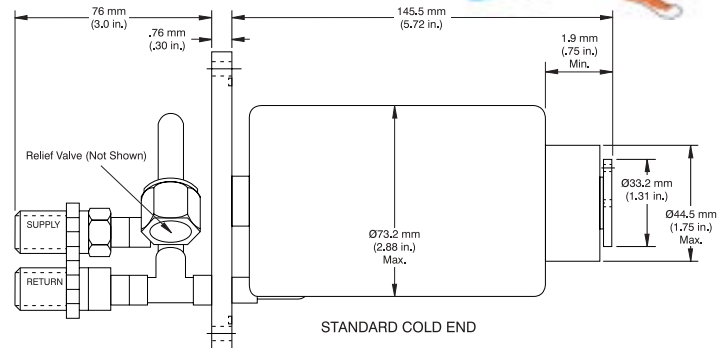
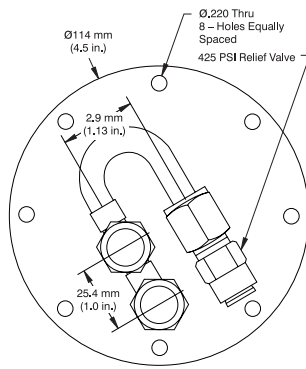
Cooldown Time of 30-45 Minutes to
 100 K (PT13/PT14)
 130 K (PT16/PT30)

Optimal Wattages/Temperatures of Each Gas Blend*:

- PT13=3 watts @ -196°C (77 K)
- PT14 = 10 watts @ -179°C (94K)
- PT16 = 22 watts @ -154°C (120 K)
- PT30 = 27 watts @ -128°C (145 K)

Temperature Stability (at 20°C with a steady load):
 +/- 0.5 Kelvin. Performance with 10' gas lines.

* 50Hz operation – derate by 17%



High Performance Cold End

General Specifications:

Weight = 1.8 kg (4.0 lbs.)
 Vacuum Insulation Requirement $\leq 10^{-4}$ torr
 Bakeable to 100°C
 Weight Supported at the Cold Tip ≤ 1.4 kg (3.0 lbs.)

Cooling Power/Temperatures:

Cooldown Times:
 50-75 minutes to 100 K (PT13/PT14)
 25-40 minutes to 130 K (PT16/PT30)

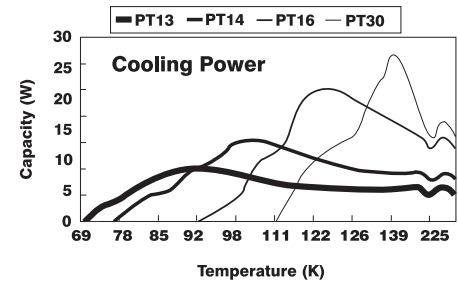
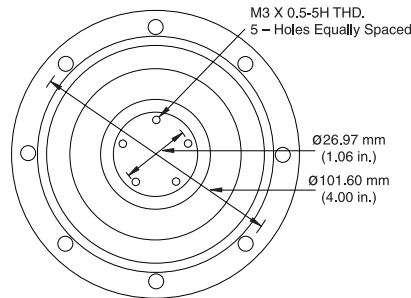
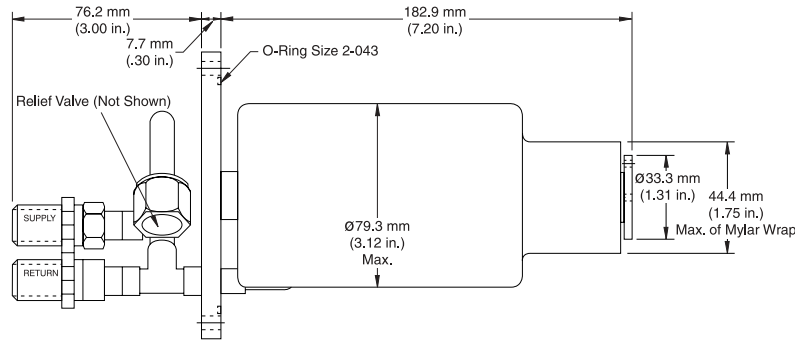
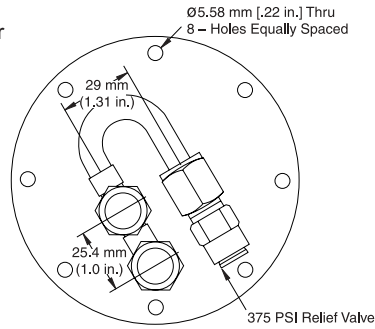
Optimal Wattages/Temperatures of Each Gas Blend*:

- PT13 = 3.5 watts @ -196°C (77 K)
- PT14 = 11.5 watts @ -179°C (94 K)
- PT16 = 24.5 watts @ -154°C (120 K)
- PT30= 30.0 watts @ -128°C (145 K)

Temperature Stability (at 20°C with a steady load):

+/- 0.5 Kelvin. Performance with 10' gas lines.

* 50Hz operation – derate by 17%



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Polycold Systems Inc. is a wholly owned subsidiary of Helix Technology Corporation