

MARATHON® CP-12 CRYOPUMP



The versatile Marathon® CP-12 Cryopump was specifically designed to meet the needs of high vacuum applications. Its innovative design assures that users achieve the highest performance possible, while keeping it competitively priced.

Depending upon the users electrical requirements, the CP-12 can be driven by either the HC-8E4 or F-70 compressor. Each compressor is specifically designed for helium service and offers a unique 30,000-hour service interval.

Additionally, the optional Marathon Cryopump Controller (MCC) enables fully automatic operation of the cryopump using commands from a host computer using standard cryopump protocol. The result is greatly reduced downtime between production cycles, improved process times and better

overall efficiency of the user's process. Most importantly, by utilizing the MCC system, users can achieve rapid "cold-to-cold" times.

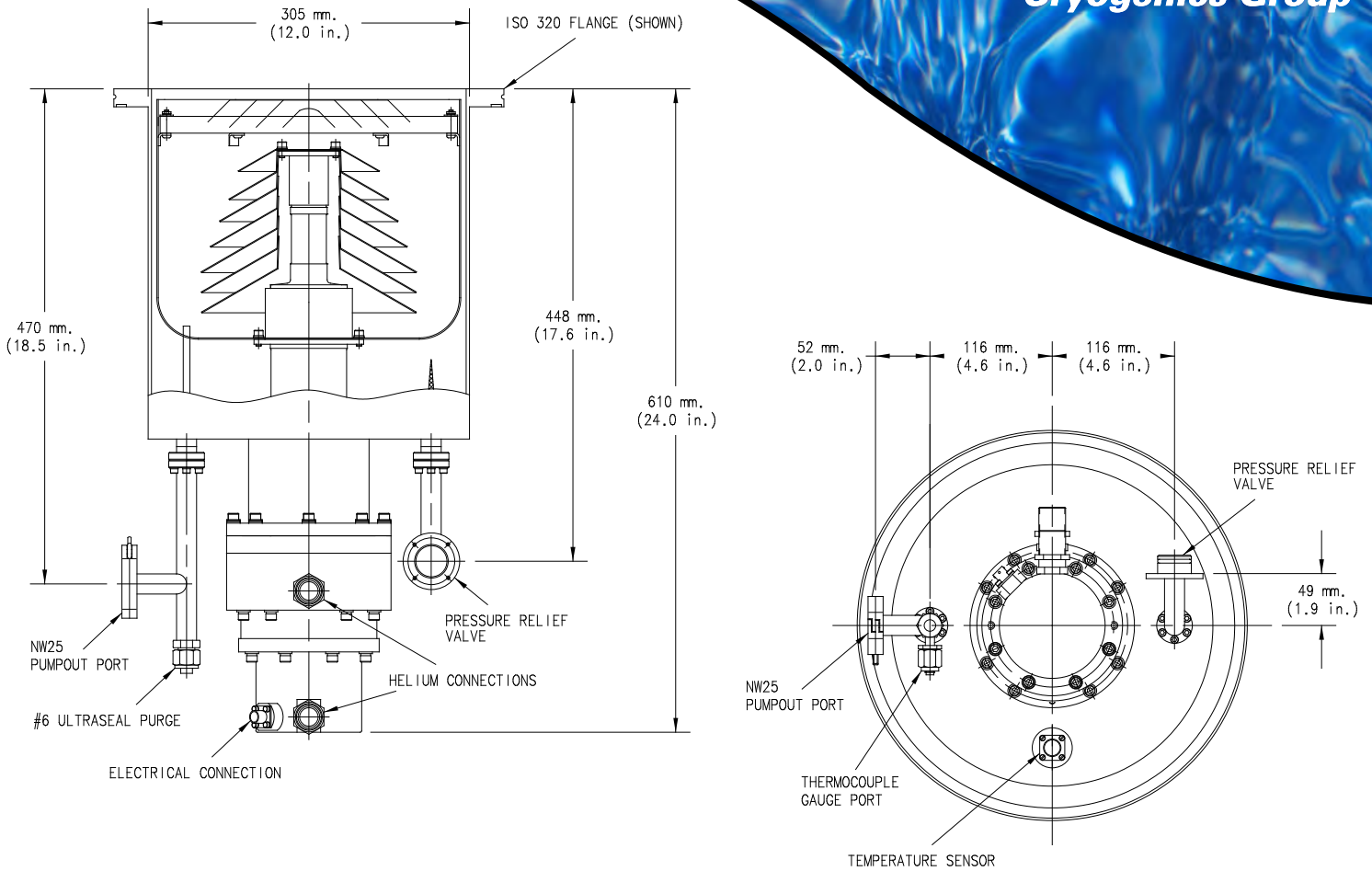
The CP-12's compact and robust design fits easily onto new and existing systems. The ability to service the CP-12 "in-situ" saves the user maintenance costs and downtime, and does not require removing a large cryopump or breaking chamber vacuum for return or replacement. The result is maximum uptime and minimum cost of ownership. Like all SHI Cryogenics Group products, it is supported by a worldwide sales and support network.

Features

- Patented, pneumatically-driven cold head with limited moving parts for reliable operation and on-site, "in-situ" maintenance
- High capacity for longer operation
- High crossover pressure and pumping speeds for faster pumpdowns
- Drop-in replacement for existing systems
- Option for fully automatic operation and fast regeneration (i.e. superior "cold-to cold" time)

Specifications

Pumping Speeds:	Air	3,600 L/sec	Crossover Rating: 650 torr-liters
	Water	9,560 L/sec	
	Argon	3,100 L/sec	
	Hydrogen	7,300 L/sec	
Throughput:	Argon	12.6 torr-liters/sec (1000 sccm)	Cooldown: 90 minutes
			Inlet Flange: ANSI 10 inch, ISO 320 mm or Conflat 14 inch
Capacity:	Argon	3,100 standard liters	Weight: 41 kg (90 lbs.)
	Hydrogen	50 standard liters	



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