The CONCOA CryoWiz™ delivers a continuous supply of liquid nitrogen from a primary and secondary source automatically with no temperature change. The CryoWiz uses a proprietary algorithm and precise pressure and temperature sensors to monitor the demand for and supply of the liquid nitrogen. With a unique insulated switching mechanism, high flow pneumatic valves, and hot gas bypass programming, the CryoWiz automatically switches sources with virtually no change in delivered cryogenic temperature. Ensuring both consistent temperature and continuous supply, the CryoWiz is ideal for critical cryogenic applications such as cryopreservation and environmental chambers.

**Features**

- Automatic Proprietary Control Algorithm
- Insulated Switching Mechanism
- High Flow Pneumatic Control Valves
- Hot Gas Bypass
- Single Compact NEMA 12 Enclosure
- Remote Monitoring
- Oxygen Deficiency Relay Contact
- Local Audible and Visual Alarm
- Optional Remote Alarm

**Materials**

- Enclosure: Powder coated NEMA 12
- Internals: Brass barstock
- Cryogenic Relief Valves: 50 PSIG (3.5 BAR) 1/2" FPT
- Hot Gas Bypass: 1/2" FPT
- Maximum Inlet Pressure: 35 PSIG (2.4 BAR)
- Inlet Connection: 1/2" FPT
- Outlet Connection: 1/2" FPT
- Drain: 1/2" PVC

**Specifications**

- Alarm Output: 1 or 5 dry contact NC
- Alarm Inputs: O₂ deficiency relay
- Dry Nitrogen (Gaseous)*: 110 PSIG (7.5 BAR) max 95 PSIG (6.6 BAR) min
  Inlet: 1/8" FPT
  * Required for pneumatics
- Communication Ports: USB (maintenance only) Ethernet
- Power: 90-264 VAC, 47-63 Hz (US, UK, European, Australian, and Chinese adapters included)
- Weight: 40 lbs (18 kg)

**Typical Applications**

- Cryopreservation
- Control Rate Freezers
- Environmental Chambers
- Subambient Gas Chromatography
- Cryogenic Research

CRN 0H17950.5
Cryogenic Systems

Installation Information

577 Series CryoWiz™

Oxygen Deficiency Monitor Input
Remote Alarm Output
USB Connection
Ethernet Connection
Power Cord
Cryogenic Hose, Typical Both Inlets and Outlet

Liquid Nitrogen Outlet to Freezer

577 A B C D -E FG

Series 577
Cryogen Outlet Connection Relief Valve Assembly Inlet Web Server
1: Nitrogen 0: 1/2" FPT 1: 50 PSIG (3.5 BAR) 3: Standard 0: 1/2" FPT 00: With Web Server
1: CGA 295

Related Option

Order No. Description
57V series Vacuum-jacketed hoses and headers
580 3004 Oxygen Deficiency Monitor