



# 577 SERIES

## CryoWiz™

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 control 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.

### Typical Applications

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



577 1013-100 Shown

### Features

- Automatic Proprietary Control Algorithm**  
Ensures continuous efficient supply
- Insulated Switching Mechanism**  
Minimizes flash loss of liquid
- High Flow Pneumatic Control Valves**  
Supplies multiple freezers
- Hot Gas Bypass**  
Eliminates flash loss
- Single Compact NEMA 12 Enclosure**  
Occupies less space easy to install
- Remote Monitoring**  
USB and ethernet communication  
24,000 event date and time log
- Oxygen Deficiency Relay Contact**  
Ensures OSHA safe use
- Local Audible and Visual Alarm**  
On-board emergency monitoring
- Optional Remote Alarm**  
Advantium 1 PLUS  
Advantium 2 PLUS  
Advantium 16

### 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

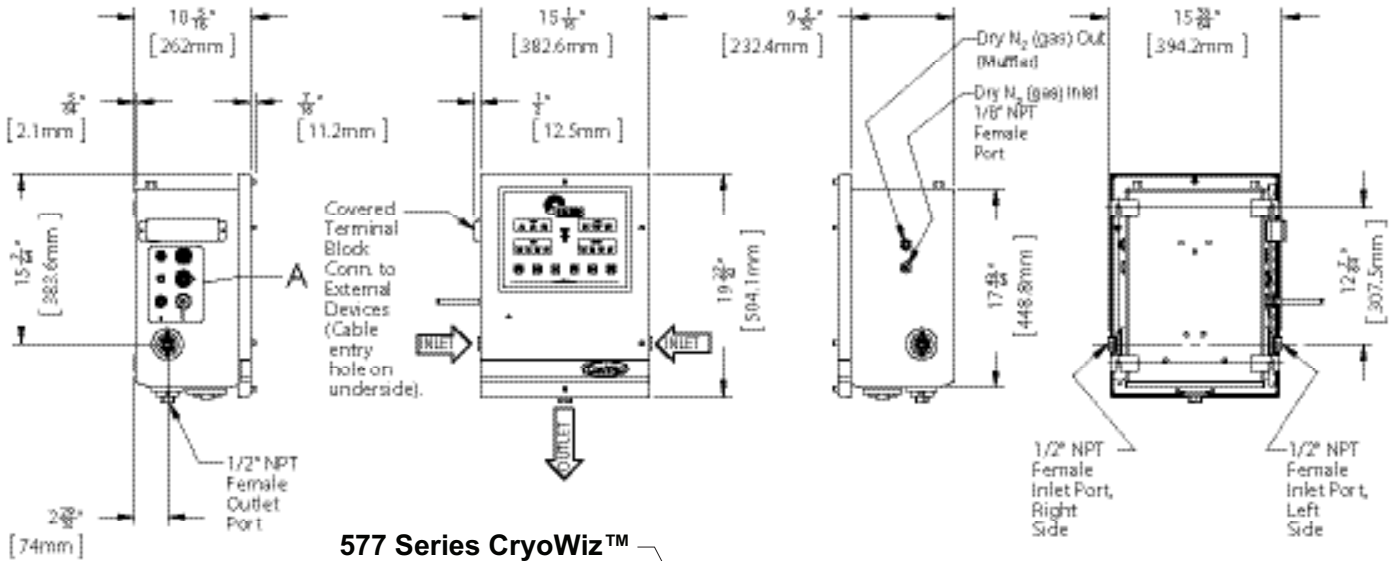
- Alarm Output**  
1 or 5 dry contact NC
- Alarm Inputs**  
O<sub>2</sub> deficiency relay
- Dry Nitrogen (Gaseous)\***  
110 PSIG (7.5 BAR) max  
100 PSIG (6.6 BAR) min  
Inlet: 1/8" FPT  
*\* Required for pneumatics*
- Communication Ports**  
USB (maintenance only)  
Ethernet
- Power**  
90-264 VAC, 47-63 Hz (US,  
UK, European, Australian,  
and Chinese adapters  
included)
- Weight**  
40 lbs (18 kg)

CRN 0H17950.5

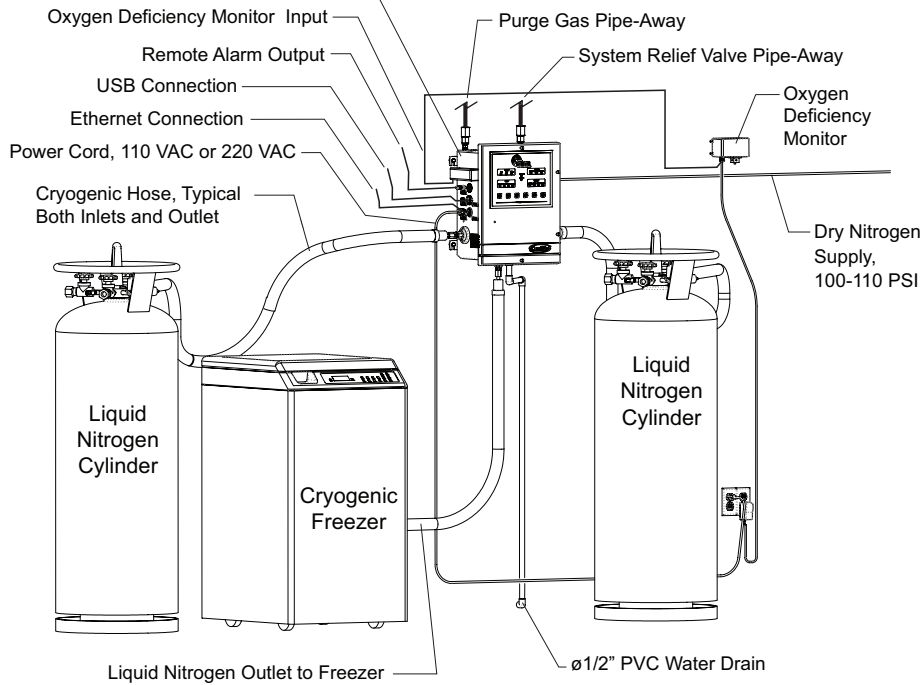
# Cryogenic Systems



## Installation Information



### 577 Series CryoWiz™



## Ordering Information

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: CGA 295	1: 50 PSIG (3.5 BAR)	3: Standard	0: 1/2" FPT 1: CGA 295	00: With Web Server

## Related Option

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

DISTRIBUTION SYSTEMS