



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



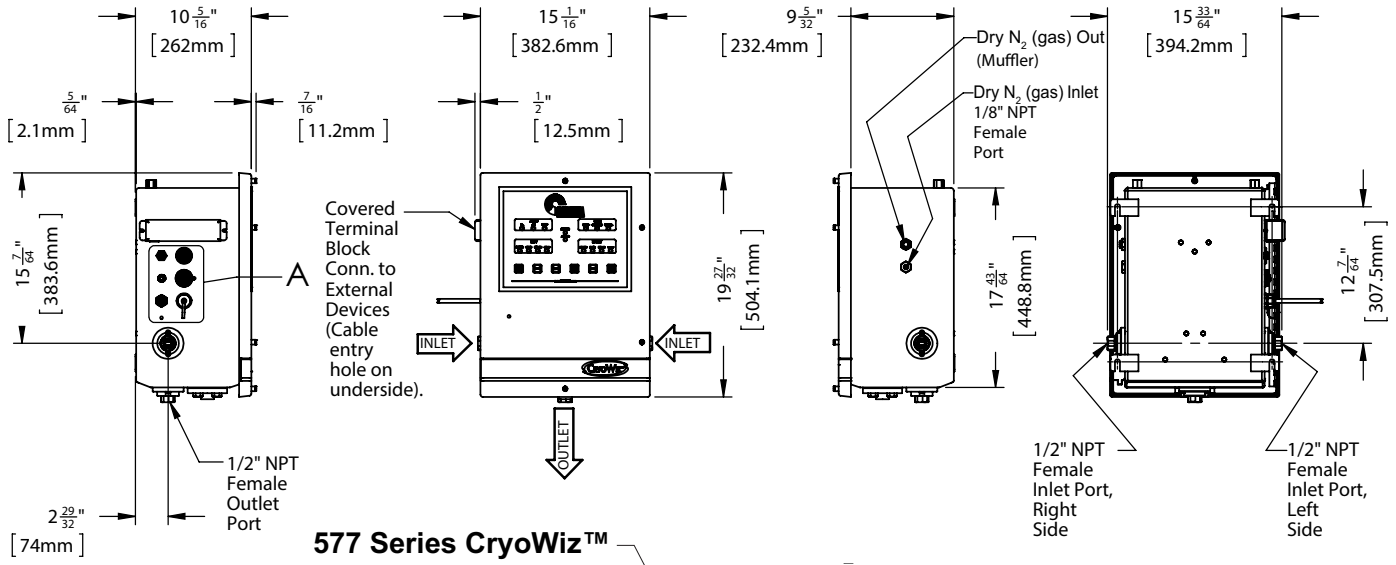
577 1013-100 Shown

Features	Materials	Specifications
Automatic Proprietary Control Algorithm Ensures continuous efficient supply	Enclosure Powder coated NEMA 12	Alarm Output 1 or 5 dry contact NC
Insulated Switching Mechanism Minimizes flash loss of liquid	Internals Brass barstock	Alarm Inputs O ₂ deficiency relay
High Flow Pneumatic Control Valves Supplies multiple freezers	Cryogenic Relief Valves 50 PSIG (3.5 BAR) 1/2" FPT	Dry Nitrogen (Gaseous)* 105 PSIG (7.5 BAR) max 95 PSIG (6.6 BAR) min Inlet: 1/8" FPT * Required for pneumatics
Hot Gas Bypass Eliminates flash loss	Hot Gas Bypass 1/2" FPT	Communication Ports USB (maintenance only) Ethernet
Single Compact NEMA 12 Enclosure Occupies less space easy to install	Maximum Inlet Pressure 35 PSIG (2.4 BAR)	Power 90-264 VAC, 47-63 Hz (US, UK, European, Australian, and Chinese adapters included)
Remote Monitoring USB and ethernet communication 24,000 event date and time log	Inlet Connection 1/2" FPT	Weight 40 lbs (18 kg)
Oxygen Deficiency Relay Contact Ensures OSHA safe use	Outlet Connection 1/2" FPT	
Local Audible and Visual Alarm On-board emergency monitoring	Drain 1/2" PVC	
Optional Remote Alarm Advantium 1 PLUS Advantium 2 PLUS Advantium 16		

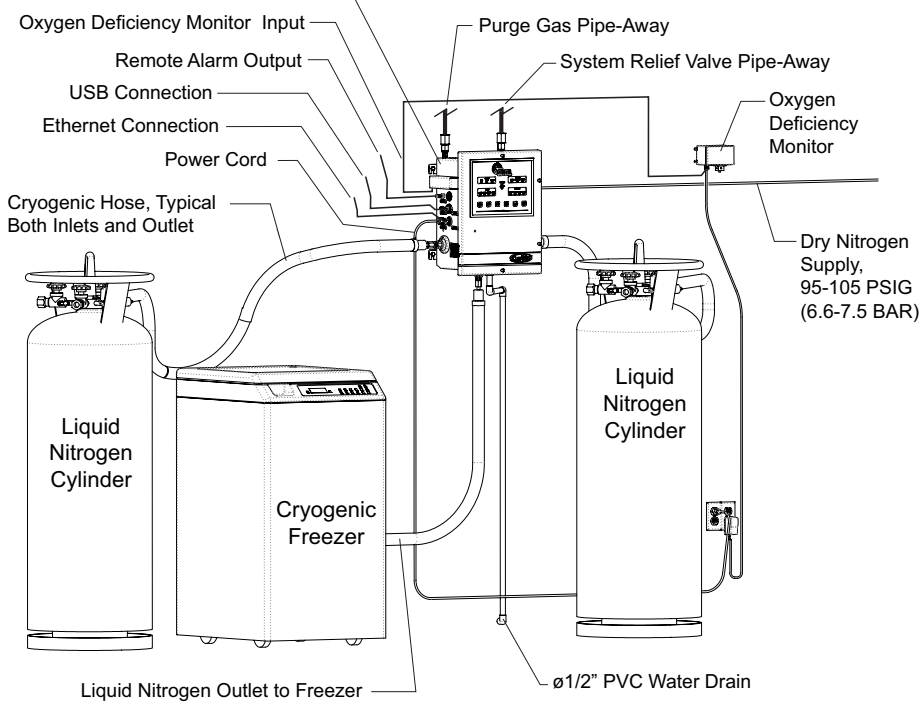
Cryogenic Systems



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