



# 500 Series Distribution Systems

## 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 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

- Cryogenic Freezers
- Cryopreservation
- Control Rate Freezers
- Environmental Chambers
- Cryogenic Research



### 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

Advantium1 PLUS  
Advantium 2 PLUS  
Advantium 8

### Specifications

#### Enclosure

Powder coated NEMA 12

#### Internals

Brass barstock

#### Cryogenic Relief Valves

35 PSIG (50 PSIG optional)  
3/8" FPT Outlet

#### Hot Gas Bypass

3/8" FPT Outlet

#### Maximum Inlet Pressure

22 PSIG (35 PSIG optional)

#### Inlet Connection

1/2" FPT

#### Outlet Connection

1/2" FPT

#### Drain

1/2" PVC

#### Alarm Output

1 or 5 dry contact NC

#### Alarm Inputs

O<sub>2</sub> deficiency relay

#### Air or Nitrogen

120 PSIG max  
85 PSIG min

#### Air Inlet

1/8" FNPT

#### Communication Ports

USB  
Ethernet

#### Power

120 VAC or 220 VAC

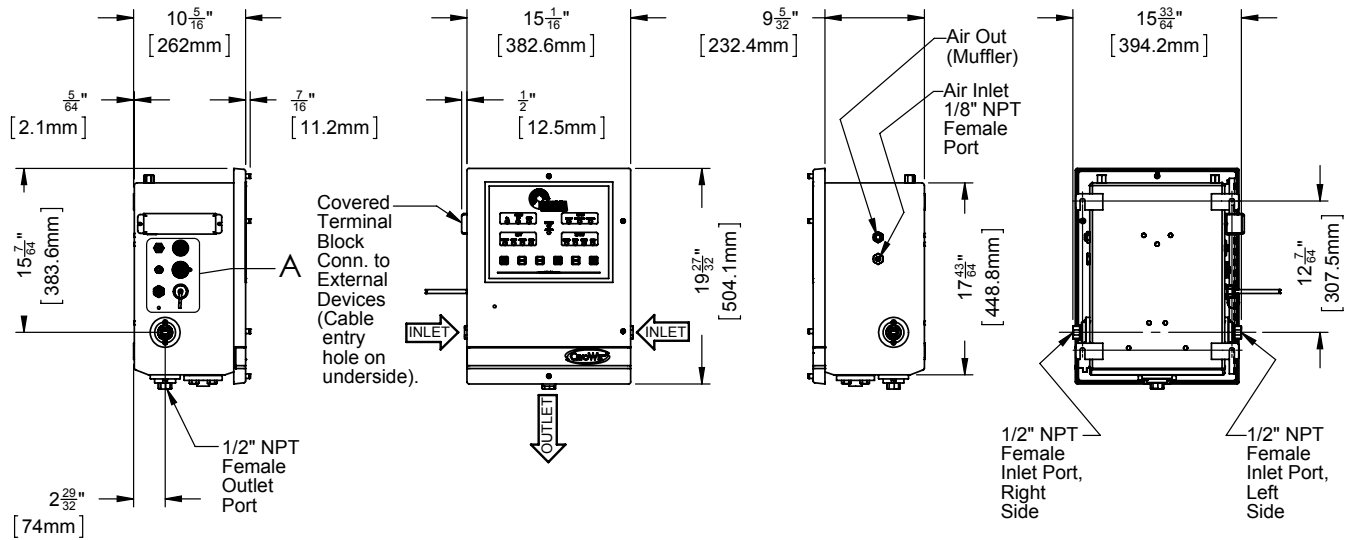
#### Weight

40 lbs

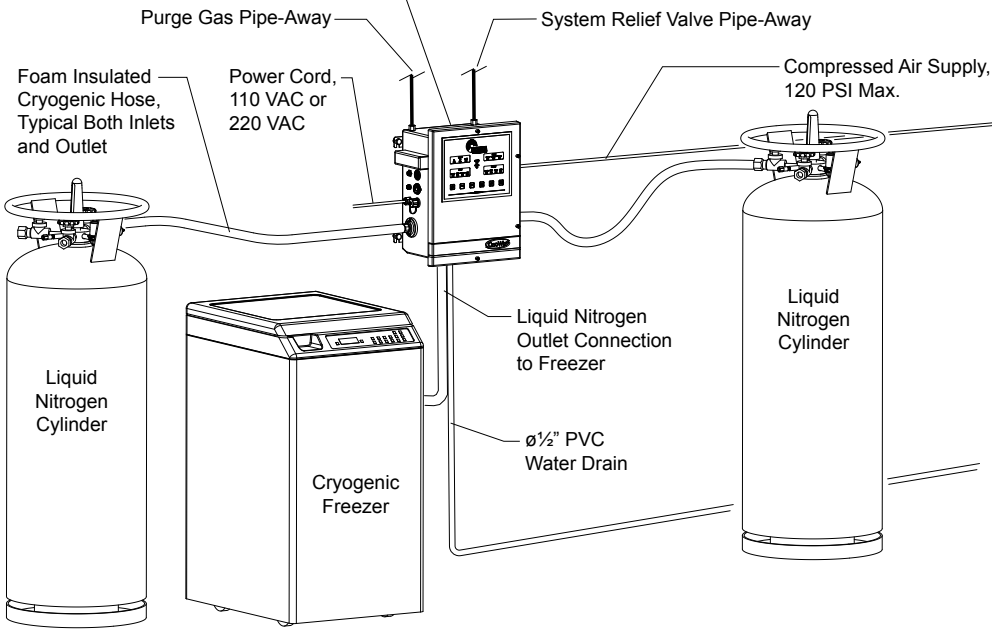
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## Installation Information



## 577 Series CryoWiz™



## Ordering Information

577	A	B	C	D	-E	Options	Web Server
Series 577	Gas/Cryogen	Outlet Connection	Relief Valve	Assembly	Inlet	Compressor	
	1: Nitrogen	0: 1/2" FPT	0: 35 PSIG	2: 120 VAC	0: 1/2" FPT	0: None	0: With Web Server
		1: CGA 295	1: 50 PSIG	3: 220 VAC	1: CGA 295	A: Compressor	1: Without Web Server