



500 Series Distribution Systems

IntelliSwitch

The 539 Series IntelliSwitch™ is CONCOA's original fully-automatic computer controlled Universal Gas Management System that can provide continuous supply from either cryogenic liquid cylinders or high pressure gas cylinders, or any combination of both. These systems are ideal for use with high purity and ultra high purity gases for laboratory GC, GCMS, ICP or ICP mass spec support gases as well as for use with CO₂ or Nitrogen for cell culture incubators. The proprietary software ensures optimal use and savings especially from cryogenic cylinders sources and can greatly reduce or eliminate venting and residual gas return with our Low Loss technology.



Typical Applications

- High purity non-corrosive non-flammable gas supply
- GC/mass spec carrier and support gases
- ICP/ICP mass spec continuous gas supply
- Incubator CO₂ and nitrogen gas supply
- Biotech, pharmaceutical and forensic gas systems
- Micro bulk changeover supply
- Central gas supply system for laboratory, research or process plants

Ask About Our

EXTENDED
WARRANTY

On This CONCOA Product

Features

Microprocessor Control

Fully automatic priority assignment

Field Adjustable Parameters

Enables process flexibility

On-Site Source Selection

Liquid cylinder or high-pressure service

Low Loss Technology

Reduces residual return

Electronic Economizer

Eliminates vent loss from 230, 350 or 500 PSIG liquid cylinders

Process Gas or Air Actuated Pilot Valves

Simple installation

RS 232 Communications

Provides remote monitoring of supply

NEMA 12 Enclosure

Powder coated for indoor use only.

Materials

Regulator and Valve Bodies

Brass barstock

Valve Stems

316L stainless steel

Valve Seats

PCTFE

Seals

PTFE, PCTFE and Viton®

Enclosure

NEMA 12 powder-coated steel

Specifications

Power Requirements

110 or 220 VAC

Maximum Inlet Pressure

3000 PSIG (210 BAR)

Temperature Range

0°F to 140°F (-18°C to 60°C)

Flow Capacity

Cv = 1.0

Filter

40 micron

Inlet Connection

1/2" FPT

Outlet Connection

1/2" FPT

Weight

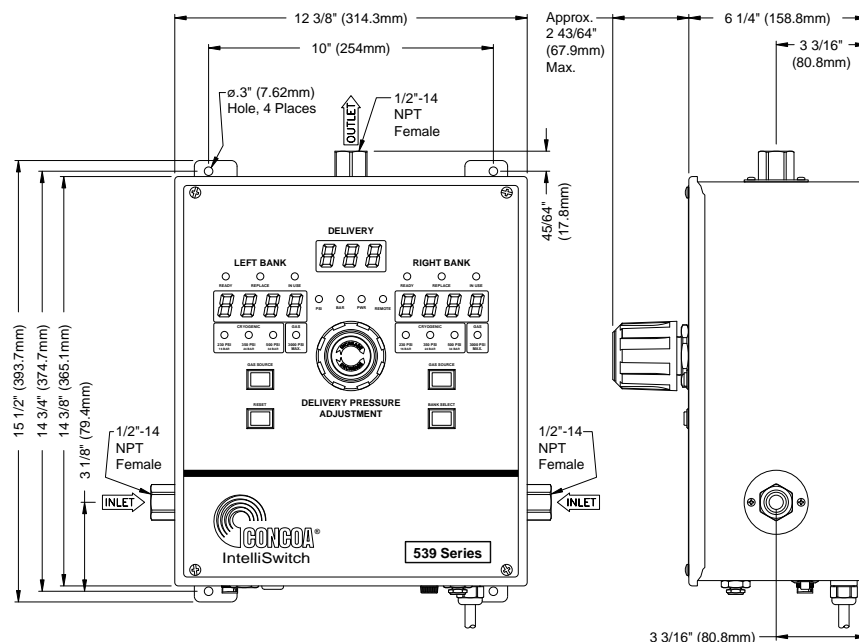
67 lbs. (30.4 kg)

CRN OH 5216.5C
(Major switching components only)

500 Series Distribution Systems



Installation Dimensions



Ordering Information

539	A	B	C	D	-XX	-CON
Series 539	Outlet Pressure	Right Side Connection	Left Side Connection	Assembly	Assembly	Hose
	2: 0-50 PSIG	0: 1/2" FPT	0: 1/2" FPT	2: 110 VAC	-01: Standard	Please specify inlet connection (if applicable)
	3: 0-100 PSIG	1: Diaphragm valve with 36" stainless flexible hose	1: Diaphragm valve with 36" stainless flexible hose	3: 220 VAC	-0A: Tamper resistant option	
	4: 0-150 PSIG	2: Diaphragm valve with 72" stainless flexible hose	2: Diaphragm valve with 72" stainless flexible hose			CGA DIN 477 BS 341 and others available.
	5: 0-200 PSIG	3: Manifold connector*	3: Manifold connector*			

* See pages 36-37 for manifold ordering information

Options

Option	Order Number	Description
Remote alarm	Advantium Series	Provides audible and visible notification of a depleted supply bank to a remote location (See pgs. 52-54)
Vent manifold kit	629 Series	Wall-mounted manifold designed to equalize liquid cylinder head pressure
Switchover station	518 1625	Safely mount and secure any switchover and 2 cylinders
AutoSwitch floor stand	830 7439	Support AutoSwitch Enclosure
Manifold floor stand	830 7437	Supports 2 standard length (12") manifold extensions installed consecutively