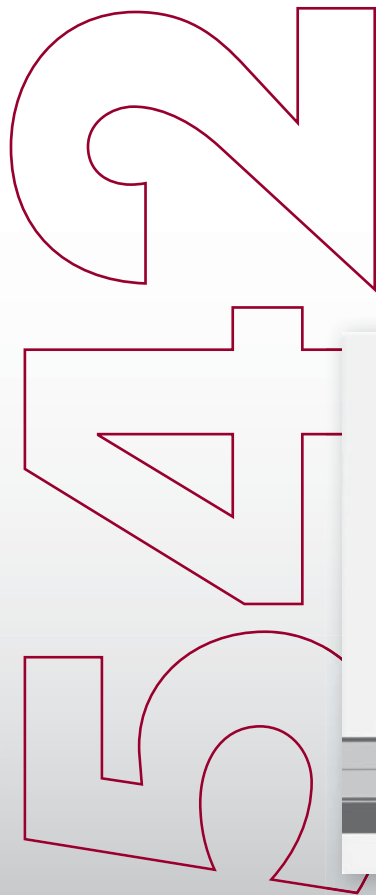




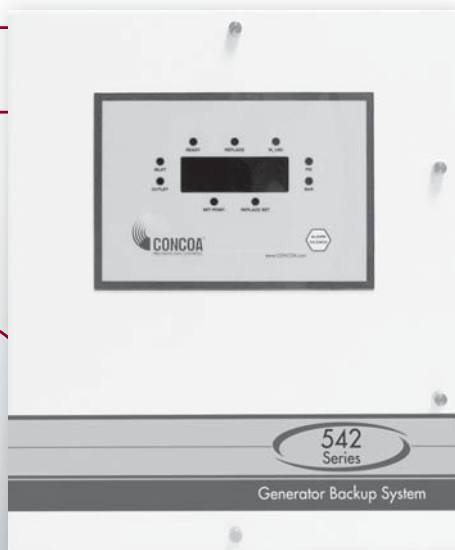
500 Series Distribution Systems



High Flow Backup

The 542 Series High Flow Back-Up is designed to provide a “smart” reserve supply to high flow gas generators or bulk supply systems. If there is a loss of power, or if the gas generator or bulk supply system cannot provide sufficient gas, the 542 Series will automatically activate the reserve supply to supply gas without interruption. The unique feature of the 542 is that these functions are controlled by an on board micro-processor, similar to CONCOA's Intelliswitch systems. In addition to the on board systems, the 542 is equipped with CONCOA's new I-Link™ Web server technology allowing for remote

monitoring and control functions. Together, these advanced systems continually monitor pipeline pressure and reserves and can be programmed to engage at a specific pressure. The 542 is available for nitrogen, air, helium, carbon dioxide, nitrous oxide, oxygen, or argon in high purity bar stock brass construction.



Typical Applications

- Bulk or micro bulk backup supply
- Air, Nitrogen, or Oxygen generator backup
- GC, FID, and mass spectrometer backup
- Critical laboratory gas reserve
- Incubator CO₂ backup supply

Ask About Our

**EXTENDED
WARRANTY**

On This CONCOA Product

Features

Programmable Reserve Activation Pressure

User sets the pressure at which the backup engages

Programmable Reserve Low Alarm Pressure

User sets the low reserve alarm point

On Board I-Link™ Web Server and Remote Monitoring Software

Enables for real-time online system monitoring

High Purity Components

Use in high purity systems

High Flow Capacity

High flow building or facility systems

Check Valves on Both Generator and Reserve

Prevents back flow to the generator or reserve cylinder

Materials

Regulator Body

Brass barstock

Bonnet

Chrome-plated die cast zinc

Seat

PCTFE

Filter

Patented 40 micron 316 mesh

Diaphragms and Pigtailed

316L stainless steel

CGA Connections

Brass with check valve

Check Valve Seat

PTFE or Viton®

Enclosure

NEMA 12 Powder coated steel

Specifications

Maximum Inlet Pressure

0-120 PSIG (0-8 BAR)
0-250 PSIG (0-17 BAR)

Temperature Range

0°F to 140°F (-18°C to 60°C)

Pressure Display

Large digital display

Status Display

Multi-color LEDs

Helium Leak Integrity

1 x 10⁻⁸ scc/sec

Adjustable Pressure Range

50 to 250 PSIG (0 to 17 BAR)

Cv

1.0

Weight

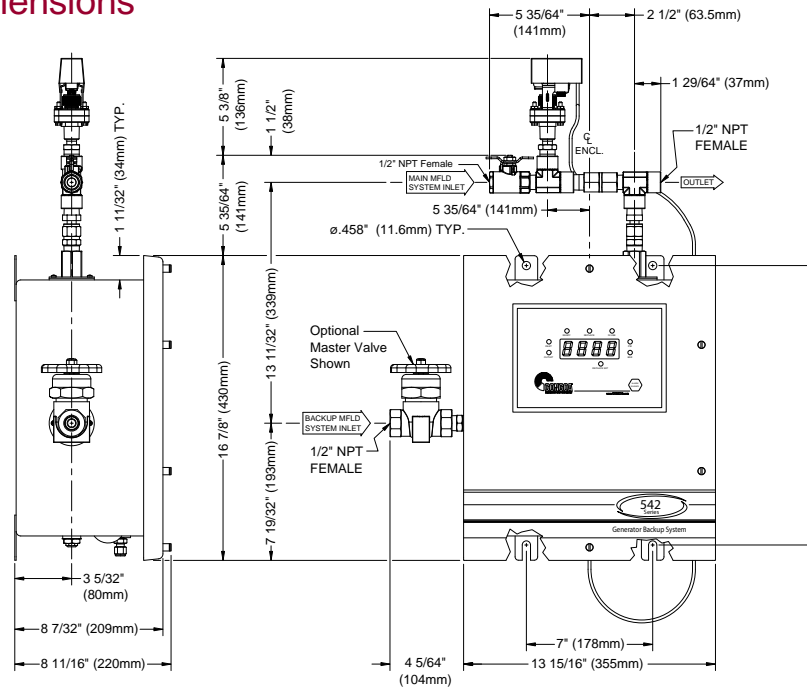
45 lbs. (20.45 kg)

CRN OH 5216.5C
(Major switching components only)

500 Series Distribution Systems



Installation Dimensions



Ordering Information

542	A	B	C	D	-CON	Stations
Series 542	Delivery Pressure	Inlet Options	Internal Buzzer Audible Alarm	Voltage/Web Server Assembly Options	Gas Service Cylinder Connections	
	3: 0-120 PSIG	0: 1/2" FPT	0: Without alarm	2: 120 VAC / without web server	-000: No cylinder connection	0: No hoses
	5: 0-250 PSIG	1: Master valve 1/2" FPT	1: With alarm	3: 240 VAC / without web server	-296: Oxygen mixture >23.5%	1: 1 station
		2: 629 Series micromanifold without hoses		4: 120 VAC / with web server	-320: CO ₂	2: 2 stations
		3: 629 Series micromanifold with 36" stainless flexible hoses		5: 240 VAC / with web server	-326: N ₂ O	3: 3 stations
		4: 629 Series micromanifold with 72" stainless flexible hoses			-346: Breathable air	4: 4 stations
		5: Master valve with 629 Series micromanifold without hoses			-540: Oxygen	5: 5 stations
		6: Master valve with 629 Series micromanifold with 36" stainless flexible hoses			-580: Inert (argon, helium, nitrogen)	6: 6 stations
		7: Master valve with 629 Series micromanifold with 72" stainless flexible hoses			-590: Synthetic air (dry, zero grade, ultra zero grade)	7: 7 stations
		C: 628 Series high flow manifold, single row, without hoses			DIN 477 BS 341 and others available	8: 8 stations
		D: 628 Series high flow manifold, single row, with 36" stainless flexible hoses				
		E: 628 Series high flow manifold, single row, with 72" stainless flexible hoses				
		F: 628 Series high flow manifold, dual row, without hoses				
		G: 628 Series high flow manifold, dual row, with 36" stainless flexible hoses				
		H: 628 Series high flow manifold, dual row, with 72" stainless flexible hoses				