626 Series AutoSwitch

Laser Gas Purity

Automatic Switchover System

Precise Pressure Control

The 626 Series AutoSwitch is designed to provide continuous gas delivery of resonator gases to a CO_2 industrial laser. Each switchover in the system automatically changes cylinder or bank priority from the primary source to a reserve supply without transmitting pressure fluctuations to the use line. A single remote alarm can report the need to replenish the cylinder supply of any or all gases. Additionally, software is included that allows remote monitoring and notification of system status from the convenience of a desktop computer.

Advanced Features

- *Integral Line Regulator*
  Stable line pressure during change over
- *Laser Quality Brass System Components*
  Capsule® seat
- *Metal to Metal Seals*
  No possibility of gas contamination
- *Advantium 8 Alarm*
  Provides visual and audible remote alarm notification
- *RS-232 Software*
  Email or fax notification
- *User-Friendly Priority Valve*
  One knob switches cylinder priority
- *Tee Purges Included*
  Maintain gas purity
- *On-Board LED*
  Local notification

Materials

Priority Valve
Brass barstock

Line Regulator
Brass barstock

Diaphragms
316L stainless steel

Seats
PTFE

Enclosure
Acrylic powder-coated steel

Tubing
316 stainless steel

Tube Fittings
316 stainless steel

Internal Seals
PTFE

Pressure Gauges
Brass (socket)
Bronze (Bourdon tube)
Stainless steel (case)

Pressure Switches
316 stainless steel (socket)
316 stainless steel (Bourdon tube)
316 stainless steel (case)

Check Valves
Brass with Viton® seals

Specifications

Maximum Inlet Pressure
3,000 PSIG (210 BAR)

Temperature Range
-40°F to 140°F (-40°C to 60°C)

Maximum Flow (Nitrogen)
600 SCFH (283 lpm)

Inlet Connection
½" FPT

Outlet Connection
¼" compression tube

Helium Leak Integrity
1 x 10^{-8} scc/sec

Weight
40 lbs. (18 kg)

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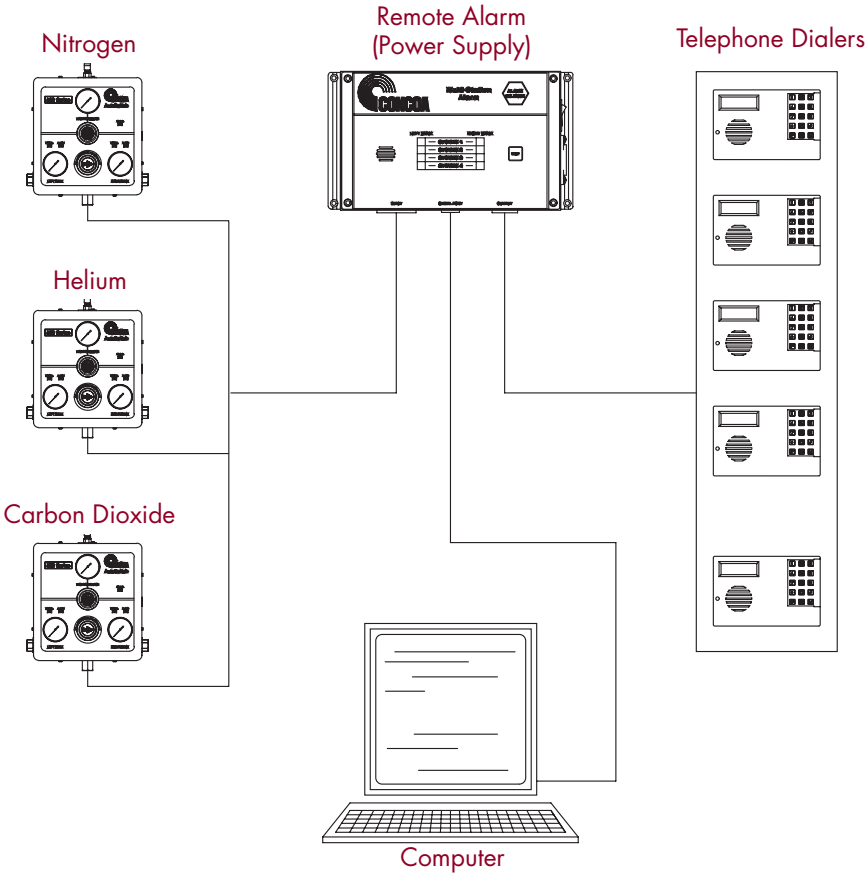
System Diagram



Ordering Information

626	A	B	C	D	E	F	G	J
Series 626	**Max Delivery Pressure** 3: 100 PSIG (7 BAR) 5: 350 PSIG (14 BAR) 7: 150 PSIG (10 BAR)	**Helium Cylinders/Side** 1: One cylinder 2: Two cylinders 3: Three cylinders 4: Four cylinders 5: Five cylinders 6: Six cylinders 7: Seven cylinders 8: Eight cylinders 9: Nine cylinders	**Nitrogen Cylinders/Side** 1: One cylinder 2: Two cylinders 3: Three cylinders 4: Four cylinders 5: Five cylinders 6: Six cylinders 7: Seven cylinders 8: Eight cylinders 9: Nine cylinders	**Carbon Dioxide Cylinders/Side** 1: One cylinder 2: Two cylinders 3: Three cylinders 4: Four cylinders 5: Five cylinders 6: Six cylinders 7: Seven cylinders 8: Eight cylinders 9: Nine cylinders	**Electrical Voltage** 1: 110 Volts AC 2: 220 Volts AC	**Assembly** 0: Standard Assembly	**Telephony** 0: No dialer 1: Single dialer 2: Two dialers 3: Three dialers 4: Four dialers	**Additional Options** M: 6mm tube fitting on box outlet

Related Options

Option	Order No.	Description
Laser Panels	*See Page 9*	Three Gas Panel delivery systems for the Laser Gases (Helium, Nitrogen and Carbon Dioxide)
Filters	*See Pages 46 and 47*	Filters protect the purity of the gas stream
Additional Switchover	*See Page 10*	An additional switchover may be powered from the 626 remote alarm/power supply

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