

# 621 SERIES Resonator Gas Supply

## 621 SERIES AUTOSWITCH



The 621 Series Laser Gas Switchover system provides continuous gas delivery from laser resonator gases. The system will automatically change cylinder or bank priority without transmitting pressure fluctuations to the use line. Internal pressure switches indicate low supply pressure through lights on the front panel powered by a remote alarm. The system is designed for single and multiple cylinder use per side.

### Advanced Features

<b>INTEGRAL LINE REGULATOR</b>	Stable line pressure during change-over
<b>LASER QUALITY BRASS SYSTEM COMPONENTS</b>	Capsule® seat
<b>METAL TO METAL SEALS</b>	No possibility of gas contamination
<b>VARIABLE LINE PRESSURE</b>	Line pressure changeable on site
<b>USER-FRIENDLY PRIORITY VALVE</b>	One knob switches cylinder priority
<b>REMOVABLE ENCLOSURE COVER</b>	Easy maintenance

6213000-01-001 shown

### Materials

**Priority Valve**  
Brass barstock

**Line Regulator**  
Brass barstock

**Diaphragms**  
316L stainless steel

**Seats**  
PTFE

**Enclosure**  
Acrylic powder-coated steel

**Tubing**  
316 stainless steel

**Internal Seals**  
PTFE

**Pressure Gauges**  
Brass (socket)  
Bronze (bourdon tube)  
Stainless steel (case)

**Check Valves**  
Brass with Viton® seals

### Specifications

**Maximum Inlet Pressure**  
3000 PSIG (210 BAR)  
4500 PSIG (310 BAR)

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

**Maximum Flow (Nitrogen)**  
600 SCFH (283 lpm)  
@ 100 PSIG (7 BAR)

**Inlet Connection**  
½" FPT

**Outlet Connection**  
¼" stainless steel compression tube

**Helium Leak Integrity**  
1 x 10<sup>-9</sup> scc/sec

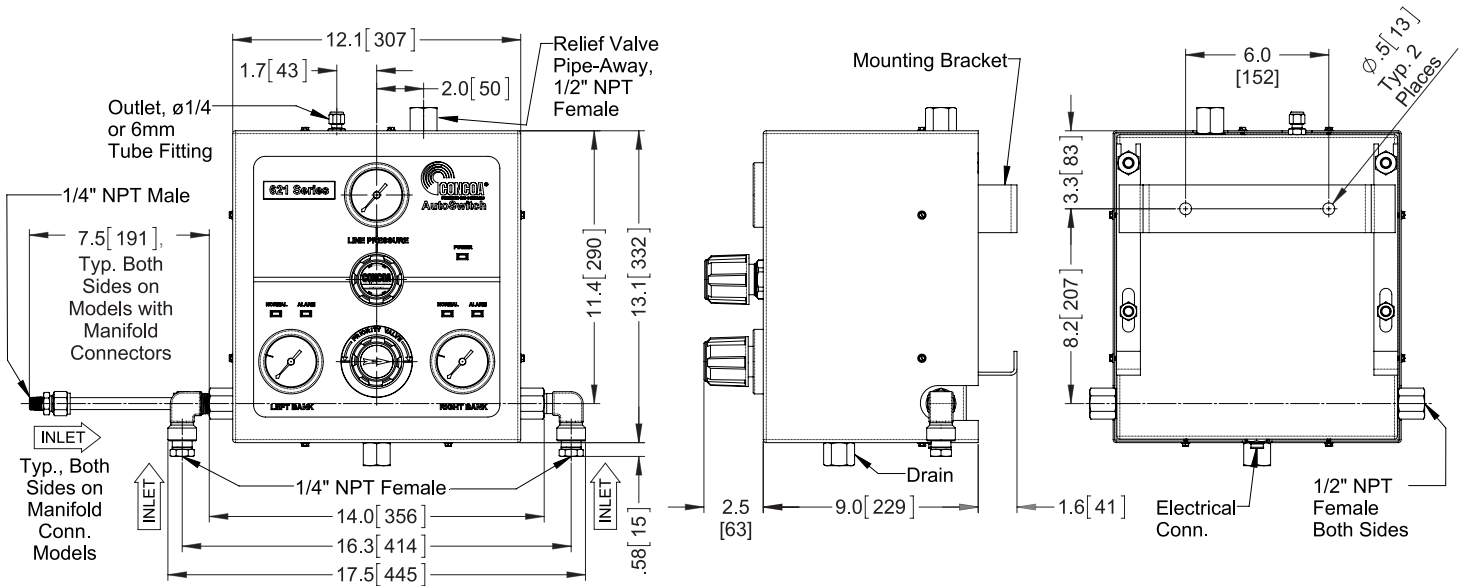
**Weight**  
40 lbs. (18 kg)

# Resonator

Gas Supply

# 621 SERIES

## Installation Dimensions



Resonator Gas Supply

## Ordering Information

621 Series	A Max Delivery Pressure	B Inlet Connection	C Cylinders Per Side	D Max Inlet Pressure	CON Inlet	Options Installed Options
621	3: 100 PSIG (7 BAR)	0: 1/4" FPT port*	0: 1 cylinder (1/4" FPT inlet)	0: 3000 PSIG (210 BAR) with alarm capability	Please specify inlet connection CGA DIN 477 BS 341 and others available	C: Compact manifolds
	5: 350 PSIG (14 BAR)	1: Manifold connector†	1: 1 cylinder ‡	1: 3000 PSIG (210 BAR) with Advantium 2 alarm		M: 6mm tube fitting outlet
	7: 150 PSIG (10 BAR)	2: Manifold connector with master valves†	2: 2 cylinders	8: 4500 (310 BAR) with alarm capability		N: Compact manifold and 6mm tube fitting outlet
		3: Diaphragm valve with 1/4" FPT port*†	3: 3 cylinders			
		6: Tea purge and diaphragm valve with 1/4" FPT port†	4: 4 cylinders			
		7: Tee purge and diaphragm valve with manifold connector †	5: 5 cylinders			
			6: 6 cylinders			

\*Valid with C=0 or C=1

†Manifold connector required with multiple cylinders per side. Each manifold station includes a 36" (900mm) stainless steel-lined hose.

‡Includes 36" (900mm) stainless steel-lined hoses if manifold connectors are not selected.

## Available Options

Advantium 8	5295310-01-001 (110 Volt) 5295311-01-001 (220 Volt)	Remote alarm provides power for indicator lights up to four 621 Switchovers, audible and visual alarm at remote unit, RS-232 computer interface, and supports optional telephone dialers.
Advantium 2	5750023-01-000 (110/220 Volt)	Remote alarm (universal input) provides audible remote alarm for a single 621 Switchover.
Vent Extension Kit	8299962	Four cylinder vent manifold extension block with mounting hardware
Manifold Floor Stand	8307437	Single manifold floor stand provides support for up to two consecutive manifold extensions
Floor Stand	8307439	AutoSwitch floor stand