



PSA Oxygen Concentrator Subsystems. Quad Series



Each member of the Quad Family utilizes patented Advanced Technology Fractionator[®] (ATF) modules connected together in a subsystem. When used with oil-less compressed air, Quads deliver high oxygen flows and concentration without high cost. Quads can be matched with dry, oil-less appropriate compressed air sources.

Quad oxygen concentrators offer the same design simplicity as the ATF and build upon it by connecting four modules together to produce four times as much oxygen. As with the ATF, the Quad is easy to install and requires virtually no maintenance. Simply plug in and connect the compressed air source.

Quad includes an oxygen concentration monitor, pressure gauges, and a flow meter. To operate, turn the flow meter to the appropriate oxygen level and receive a smooth, steady supply of oxygen.

Features

- Fully integrated controls to ensure reliable oxygen production
- Rugged, environmentally tolerant design
- Oxygen concentration monitor
- Compact and lightweight for maximum design flexibility
- Constant delivery pressure
- Low operating cost
- Eliminates the need for an external product tank

Typical Applications

Manufacturing

- Cutting/Brazing/Soldering
- Thermal/Chemical Oxidation

Medical

• Hospital Systems

Environmental

- Ozone (Generator) Feed Gas
- Waste/Water Treatment

Glass Industry

Glass Work/Manufacturing/Blowing

Specifications

	Quad-60	Quad-100	Quad-130	
Product Characteristics				
Input Air Requirements Flow ¹ Pressure	370 LPM (13 SCFM) 18 psig (124 kPa)	710 LPM (25 SCFM) 35 psig (241 kPa)	710 LPM (25 SCFM) 35 psig (241 kPa)	
Performance Data Product Flow ¹ Oxygen Delivery Pressure	28 LPM (60 SCFH) 7 psig (48 kPa)	47 LPM (100 SCFH) 15 psig (103 kPa)	60 LPM (130 SCFH) 15 psig (103 kPa)	
Product Concentration (nominal)	90-95%	90-95%	90-95%	
Product Dew Point	-100°F (-73°C)	-100°F (-73°C)	-100°F (-73°C)	
Dimensions (W x D x H) (nominal)	24 x 21 x 22 in (61 x 53 x 56 cm)	24 x 21 x 22 in (61 x 53 x 56 cm)	24 x 21 x 22 in (61 x 53 x 56 c	:m)
Weight	95 lb (43 kg)	95 lb (43 kg)	95 lb (43 kg)	
Physical Connections Compressed Air Inlet Product Gas Outlet	¾″ ID hose x 10′L ¼″ FNPT x 10′L	¾″ ID hose x 10′L ¼″ FNPT x 10′L	¾″ ID hose x 10′L ¼″ FNPT x 10′L	
Ambient Operating Conditions	Locate the oxygen concentrator subsystems in a well-ventilated area that is protected from weather elements and remains between 40°F (4°C) and 130°F (54°C); inside operating enclosure between 0°F (-18°C) and 140°F (60°C)			
Feed Air Requirements	Clean, dry, oil-less compressed air (Class 5.6.5 per ISO 8573.1)			
Control Power Requirements (Single Phase)	120 V ~ ±10%, 60 Hz or 208-240 V ~ ±10%, 60 Hz or 220-240 V ~ ±10%, 50 Hz			
Typical Power Consumption	48 W (Oxygen monitor output for oxygen concentration and alarms is nine pin D-sub connector)			

¹ LPM (Liters per minute) gas measured at 1 atmosphere and 21°C / SCF (Standard cubic foot) gas measured at 1 atmosphere and 70°F

The ΔTF Δdvantage

ATF oxygen modules incorporate proven pressure swing adsorption (PSA) principles into a unique patented design, which allows these systems to be compact, efficient, rugged, and lower in cost. The ATF module offers unparalleled design flexibility and enables applications where on-site/onboard oxygen generation was previously impractical.

A patented single rotary distribution valve built into the ATF module is continuously Air in rotated at low speed by a small motor. The valve is maintenance free, self-0, out cleaning, insensitive to contamination, and invulnerable to wear. It sequentially directs the flow of compressed air to a group of four sieve beds (adsorption), while at the same time another four beds are purged into the atmosphere through the valve (desorption). The remaining four of the twelve beds are interconnected through the valve to equalize pressure as the sieve beds sequentially transition between adsorption and desorption. The small amplitude pressure swings generated by the ATF's twelve sieve beds eliminate loud noise pulses, eliminate the need for a pressure regulator, and reduce compressor wear.



Performance is based upon nominal units tested under lab conditions. Please call for additional information.



Note: Dimensions are in inches (cm). All dimensions are nominal.

Ordering Information

Model	Part Number	Description	
Quad-60	5060	120 V ~ ±10%, 60 Hz	
	5062	208-240 V ~ ±10%, 60 Hz	
	5064	220-240 V ~ ±10%, 50 Hz	
Quad-100	5100	120 V ~ ±10%, 60 Hz	
	5102	208-240 V ~ ±10%, 60 Hz	
	5104	220-240 V ~ ±10%, 50 Hz	
Quad-130	5130	120 V ~ ±10%, 60 Hz	
	5132	220-240 V ~ ±10%, 60 Hz	
	5134	220-240 V ~ ±10%, 50 Hz	
Accessories (contact factory)	9157	Compressed Air Hose ¾" x 10'L	
	9160	Oxygen Product Hose ¼" x 10'L	
Shipping Information		Quad-60 / Quad-100 / Quad-130	
Class		92.5	
Commodity Classification Number		8421.39.8040	
Dimensions (W x D x H)		25 x 25 x 24 in (64 x 64 x 61 cm)	
Gross Weight		105 lb (48 kg)	

Warranty: 1 Year Parts and Factory Labor***

** An unprotected or inadequately ventilated environment, or improper control power may cause damage to the oxygen generator not covered under warranty.

All performance ratings based on an ambient temperature up to 100°F (38°C), up to 1,000 feet elevation, and 80% relative humidity.



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