

Oxygen
concentrator

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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
- Compact and lightweight for maximum design flexibility
- Oxygen concentration monitor
- Constant delivery pressure
- Eliminates the need for an external product tank
- Low operating cost

Typical applications

Medical

- Hospital systems

Manufacturing

- Cutting/brazing/soldering
- Thermal/chemical oxidation

Environmental

- Ozone (generator) feed gas
- Waste/water treatment

Additional

- Glass work/manufacturing/blowing



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Oxygen concentrator

Specification

Product characteristics	Quad-60	Quad-100	Quad-130
Input air requirements			
Flow ¹	370 LPM (13 SCFM)	710 LPM (25 SCFM)	710 LPM (25 SCFM)
Pressure	124 kPa (18 psig)	241 kPa (35 psig)	241 kPa (35 psig)
Performance data			
Product flow ¹	28 LPM (60 SCFH)	47 LPM (100 SCFH)	60 LPM (130 SCFH)
Product pressure	48 kPa (7 psig)	103 kPa (15 psig)	103 kPa (15 psig)
Product concentration (nominal)	90-95%	90-95%	90-95%
Product dew point	-73 °C (-100 °F)	-73 °C (-100 °F)	-73 °C (-100 °F)
Dimensions (W x D x H) (nominal)	610 x 530 x 560 mm (24 x 21 x 22 in)	610 x 530 x 560 mm (24 x 21 x 22 in)	610 x 530 x 560 mm (24 x 21 x 22 in)
Weight	43 kg (95 lb)	43 kg (95 lb)	43 kg (95 lb)
Physical connection			
Compressed air inlet	3/4" ID hose x 10'L	3/4" ID hose x 10'L	3/4" ID hose x 10'L
Product gas outlet	1/4" FNPT x 10'L	1/4" FNPT x 10'L	1/4" FNPT x 10'L
Ambient operating conditions	Locate the oxygen concentrator system in a well-ventilated area that is protected from weather elements and remains between 4 °C (40 °F) and 54 °C (130 °F) inside room or operating enclosure; -18 °C (0 °F) and 60 °C (140 °F) in storage		
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

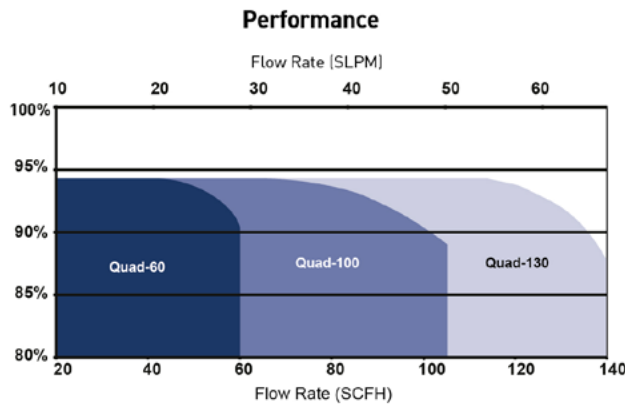
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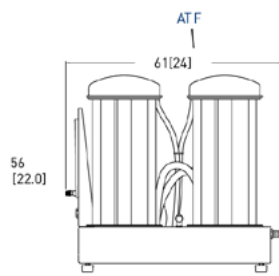
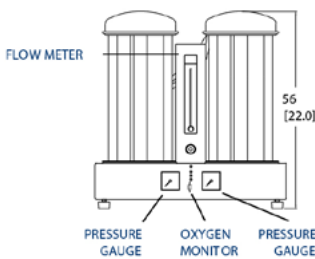
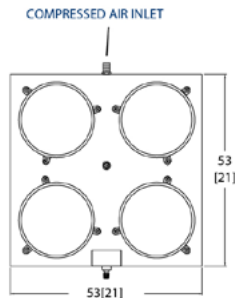
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Oxygen concentrator



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



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

The ATF advantage

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/on-board oxygen generation was previously impractical. A patented single rotary distribution valve built into the ATF module is continuously rotated at low speed by a small motor. The valve is maintenance free, self-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.

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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 3/4" x 10'L
	9160	Oxygen product hose 1/4" 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)

640 x 640 x 610 cm (25 x 25 x 24 in)

Gross weight

48 kg (105 lb)

An unprotected or inadequately ventilated environment, or improper control power may cause damage to the oxygen generator. All performance ratings based on an ambient temperature up to 38 °C (100 °F), up to 304.8 meters (1,000 feet) elevation, and 80% relative humidity.

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