

Oxygen
concentrator

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Workhorse Profile series

The Workhorse-23 Profile is a revolutionary oxygen concentrator system that provides 11 LPM (23 SCFH) of oxygen (including an oil-less compressor onboard) in the same space as the previous generation conventional two-bed 6 and 7 LPM (12 and 15 SCFH) systems. The Workhorse-15 Profile oxygen system offers the same superior performance of the standard Workhorse model, but in less space. Workhorse-15 technology can be offered as a replacement for older, existing systems where space considerations are important. Workhorse utilizes Advanced Technology Fractionator® (ATF)



Features

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

Typical applications

Medical

- Hospital systems

Manufacturing

- Jewelry/brazing/soldering

Artistic

- Glass work/blowing

Environmental

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

Additional

- Fish farming
- Cosmetic



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Specification

Product characteristics	Workhorse-15	Workhorse-23
Performance data		
Product flow ¹	7 LPM (15 SCFH)	11 LPM (23 SCFH)
Oxygen delivery pressure	48 kPa (7 psig)	48 kPa (7 psig)
Product concentration (nominal)	90-95%	90-95%
Product dew point	-73 °C (-100 °F)	-73 °C (-100 °F)
Dimensions (W x D x H) (nominal)	43 x 28 x 56 cm (17 x 11 x 22 in)	43 x 28 x 56 cm (17 x 11 x 22 in)
Weight	30 kg (67 lb) 31 kg (68 lb) (with oxygen concentration monitor)	30 kg (67 lb) 31 kg (68 lb) (with oxygen concentration monitor)
Physical connections		
Product gas outlet	1/8" FNPT	1/8" FNPT
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	
Control power requirements (single phase)	120 V ~ ±10%, 60 Hz or 208-240 V ~ ±10%, 60 Hz or 220-240 V ~ ±10%, 50	
Typical power consumption	Approximately 450 W	Approximately 600 W

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 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.

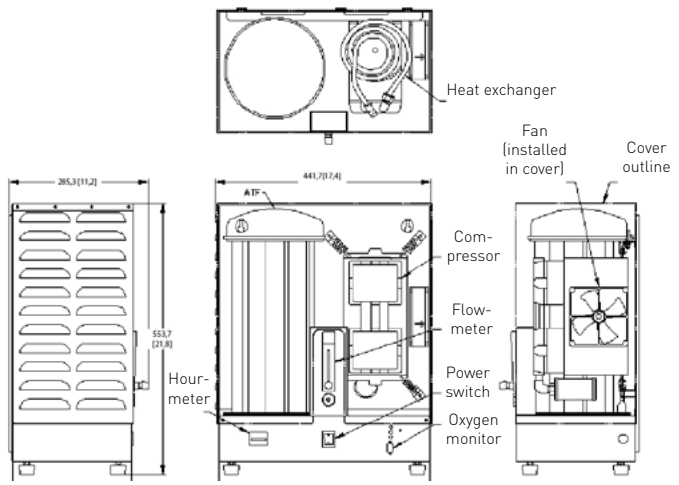
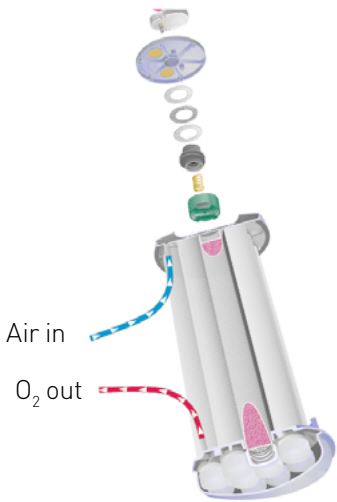
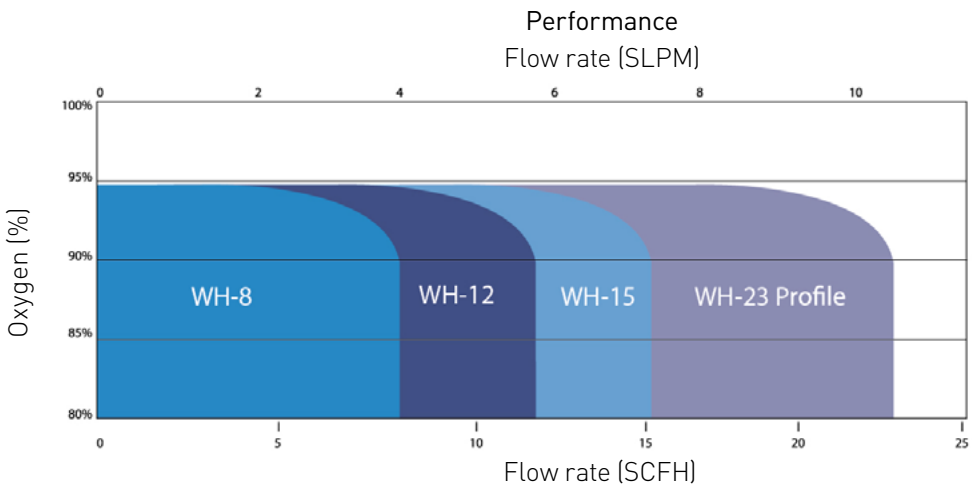
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Note: All dimensions are nominal

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Ordering information

Model	Part number	Description
Workhorse-15	5769-SEQ	120 V ~ ±10%, 60 Hz
	5785-SEQ	208-240 V ~ ±10%, 60 Hz
	5777-SEQ	220-240 V ~ ±10%, 50 Hz
	5769-1-SEQ	With oxygen concentration monitor (LED indicator), 120 V ~ ±10%, 60 Hz
	5785-1-SEQ	With oxygen concentration monitor (LED indicator), 208-240 V ~ ±10%, 60 Hz
	5777-1-SEQ	With oxygen concentration monitor (LED indicator), 208-240 V ~ ±10%, 50 Hz
Workhorse-23	5755-SEQ	120 V ~ ±10%, 60 Hz
	5759-SEQ	208-240 V ~ ±10%, 60 Hz
	5763-SEQ	220-240 V ~ ±10%, 50 Hz
	5755-1-SEQ	With oxygen concentration monitor (LED indicator), 120 V ~ ±10%, 60 Hz
	5759-1-SEQ	With oxygen concentration monitor (LED indicator), 208-240 V ~ ±10%, 60 Hz
	5763-1-SEQ	With oxygen concentration monitor (LED indicator), 208-240 V ~ ±10%, 50 Hz
Shipping information	Workhorse-15	Workhorse-23
Class	92.5	92.5
Commodity classification number	8421.39.8040	8421.39.8040
Dimensions (W x D x H)	56 x 36 x 64 cm (22 x 14 x 25 in)	56 x 36 x 64 cm (22 x 14 x 25 in)
Gross weight	38 kg (84 lb)	38 kg (84 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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