

Features:

Reliable Oxygen Production

**Rugged, Environmentally
Tolerant Design**

**Compact & Lightweight for
Maximum Design Flexibility**

Constant Delivery Pressure

Benefits:

**Low Capital and Operating
Costs**

**Eliminates the Need for an
External Product Tank**

**Suitable For Use In Any
Industrial Location**

Extended Compressor Life

The Workhorse Family

Oxygen Concentrator Systems



The Workhorse Family is one of a series of systems engineered to provide a reliable, maintenance-free supply of oxygen on a rugged platform. The Workhorse design builds upon the simplicity and elegance of the Advanced Technology Fractionator (ATF®).

The Workhorse Advantage

Workhorse oxygen concentrators simplify the process of oxygen system selection and setup. Simply plug the unit in and turn it on for high purity oxygen delivered quietly and reliably. Each Workhorse is the result of the same state-of-the-art engineering that produced the ATF®. The necessary components have been meticulously matched to optimize performance.

The Workhorse is intended to provide a turnkey solution when time or resources are not available to engineer a custom system. No other PSA system offers the economical and maintenance-free reliability of the Workhorse oxygen generator.



The ATF Advantage

ATF® oxygen modules incorporate proven pressure swing adsorption (PSA) principles into a unique patented design which is far more compact, efficient, rugged and lower in cost than conventional PSA systems. The ATF® module offers unparalleled design flexibility and enables applications where on-site/on-board oxygen generation was previously impractical.

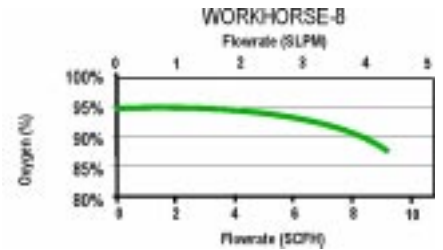
ATF® vs. Conventional PSA Systems

	Conventional	ATF
Pneumatic Connections	40-60	10
Electrical Connections	20-30	5
Solenoid Valves	2-8	0
Control Electronics	Required	None
Inlet Air Pressure (PSIG)	90	20
Pressure Reducing Regulator	Required	None
Maintenance	Substantial	Minimal
Product Tank	Required	None

The Workhorse Family

Workhorse-8 Series

The Workhorse-8 provides oxygen from 0-8 standard cubic feet per hour (SCFH)/ 0-3.8 standard liters per minute (SLPM) at 90-95% purity.



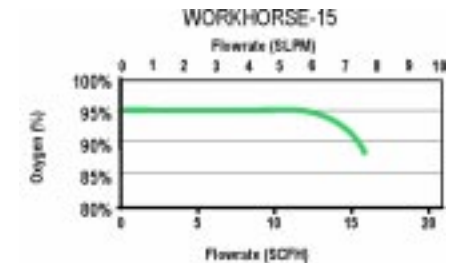
Workhorse-12 Series

The Workhorse-12 provides oxygen from 0-12 standard cubic feet per hour (SCFH)/ 0-5.7 standard liters per minute (SLPM) at 90-95% purity.

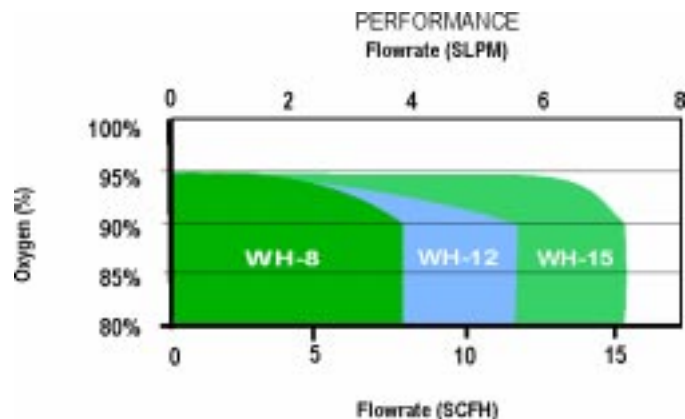


Workhorse-15 Series

The Workhorse-15 provides oxygen from 0-15 standard cubic feet per hour (SCFH)/ 0-7.1 standard liters per minute (SLPM) at 90-95% purity.



Workhorse Performance Data

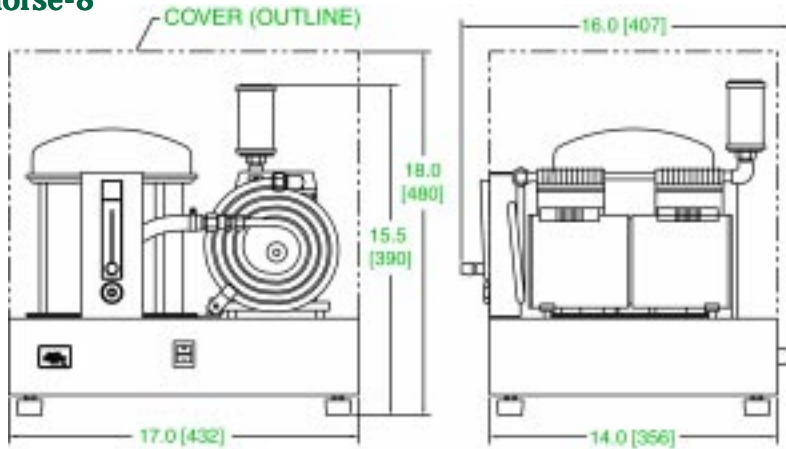


This technical data is presented as a basis for Workhorse selection only. Performance is based upon nominal units tested under lab conditions. Please call for additional information.

Envelope Dimensions

inches (mm)

Workhorse-8



Workhorse Characteristics:

Ambient Temperature Parameters

40°F - 130°F (4°C - 54°C) inside operating enclosure

0°F - 140°F (-18°C - 60°C) storage

Oxygen Delivery Dewpoint

-100°F (-73°C)

Physical

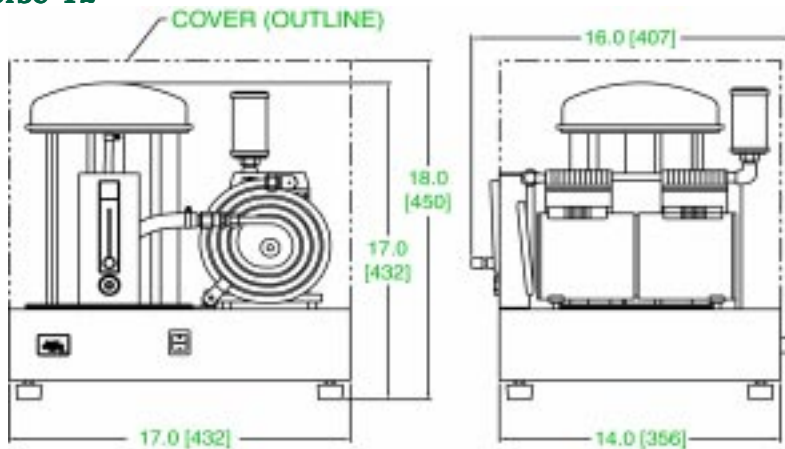
O₂ outlet: 1/8" NPT female pipe connection.

Electrical

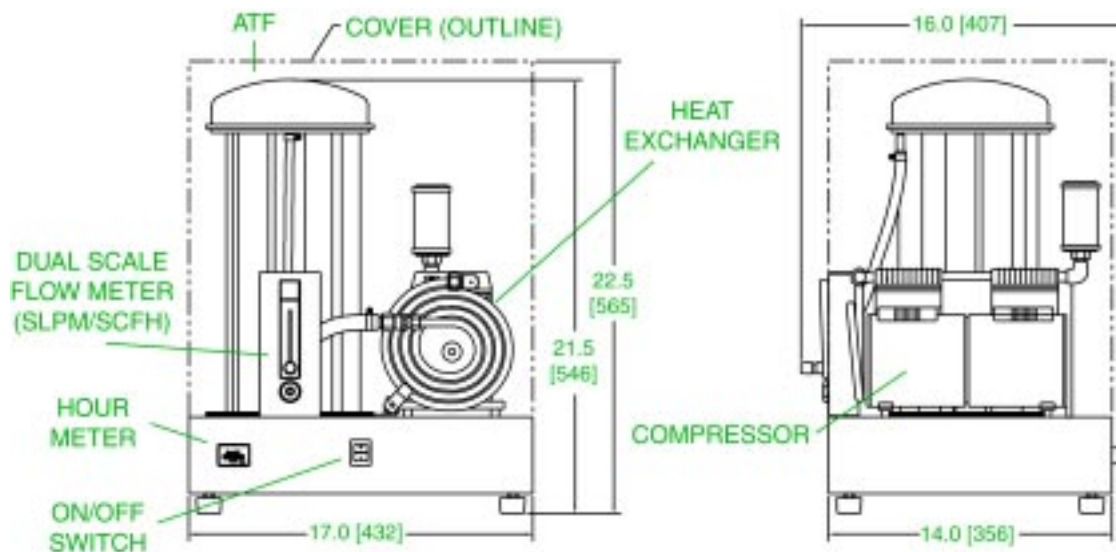
Power consumption is approximately 450W.

Optional covers shown on all drawings available on all units.

Workhorse-12



Workhorse-15



Workhorse Specifications and Performance

Name	Model #	Power Supply	Performance Data		Weight (Mass)
			Flow 90%(+3%/-5%) O ₂ at:	Oxygen Delivery Pressure	
Workhorse-8	5665	120 V, 60 Hz	8.0 SCFH	9.0 psig	43 lbs 20 kg
	5679	208-240 V, 60 Hz	3.8 SLPM	0.6 bar	
	5673	220-240 V, 50 Hz	0.2 m ³ /hr 16 lb/day	470 mm Hg 250 in H ₂ O	
Workhorse-12	5685	120 V, 60 Hz	12 SCFH	9.0 psig	47 lbs 21 kg
	5699	208-240 V, 60 Hz	5.7 SLPM	0.6 bar	
	5693	220-240 V, 50 Hz	0.3 m ³ /hr 24 lb/day	470 mm Hg 250 in H ₂ O	
Workhorse-15	5719	120 V, 60 Hz	15 SCFH	7.0 psig	49 lbs 22 kg
	5735	208-240 V, 60 Hz	7.1 SLPM	0.5 bar	
	5727	220-240V, 50 Hz	0.4 m ³ /hr 30 lb/day	360 mm Hg 190 in H ₂ O	

Workhorse Accessories

Part No.	Description
9135	Continuous Oxygen Monitor (Factory Installed Option)
9148	Cover, Workhorse-15, 120V, 60 Hz
9152	Cover, Workhorse-15, 220-240V, 50 Hz
9156	Cover, Workhorse-15, 208-240V, 60 Hz
9164	Cover, Workhorse-8/Workhorse-12, 120V, 60 Hz
9168	Cover, Workhorse-8/Workhorse-12, 220-240V, 50 Hz
9172	Cover, Workhorse-8/Workhorse-12, 208-240V, 60 Hz

Patented Simplicity for Reliable Long Life

The unique design of the Advanced Technology Fractionator® (ATF) oxygen module eliminates dozens of components and interconnections found in conventional PSA systems. 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. In contrast to a conventional PSA system, 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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The Workhorse Profile Family

Oxygen Concentrator Systems



Workhorse-23 Profile

SeQual is proud to announce a revolutionary system that provides 23 SCFH of oxygen (including an oil-less compressor on-board) in the same space as the previous generation conventional two-bed 12 and 15 SCFH oxygen concentrator systems.

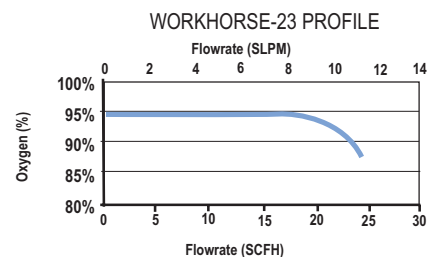
Workhorse-15 Profile

The new Workhorse-15 Profile oxygen system offers the same superior performance of the standard Workhorse model - but in less space. Now Workhorse-15 technology can be offered as a replacement for older, existing systems where space considerations are important.

Whether the requirement is for 23 or 15 SCFH, the SeQual Profile series has the right oxygen concentrator for the application.

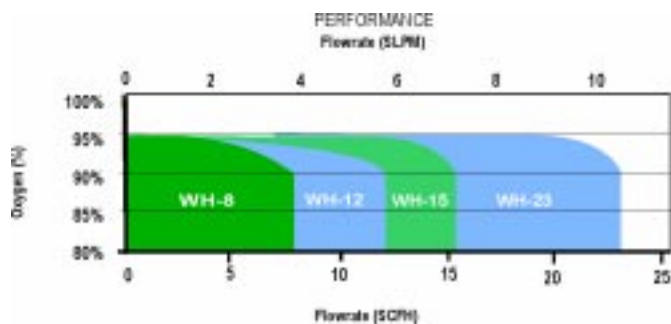
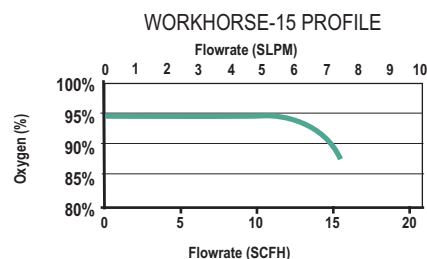
Workhorse-23 Profile Series

The Workhorse-23 Profile provides oxygen from 0-23 standard cubic feet per hour (SCFH)/ 0-10.8 standard liters per minute (SLPM) at 90-95% purity.



Workhorse-15 Profile Series

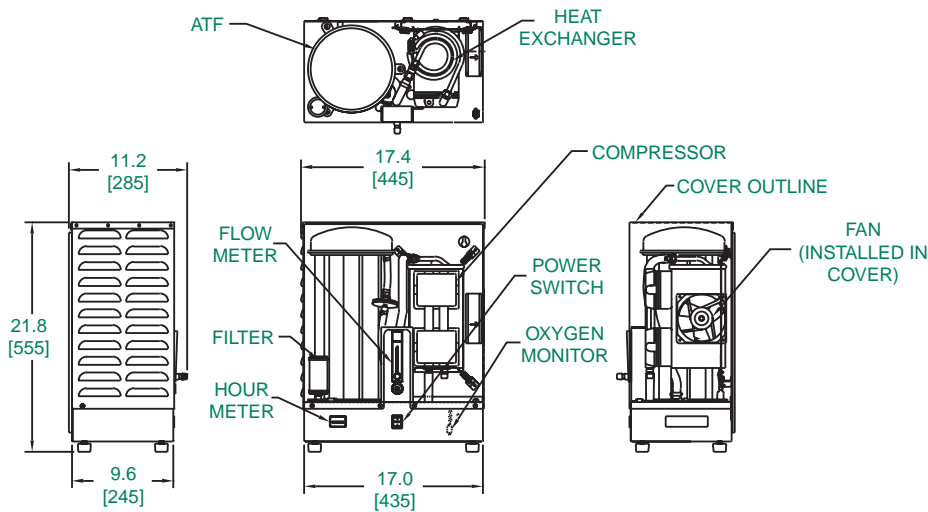
The Workhorse-15 Profile provides oxygen from 0-15 standard cubic feet per hour (SCFH)/ 0-7.1 standard liters per minute (SLPM) at 90-95% purity.



Workhorse Performance Data

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Envelope Dimensions inches (mm)



Workhorse Characteristics:

Ambient Temperature Parameters

40°F - 130°F (4°C - 54°C) inside operating enclosure

0°F - 140°F (-18°C - 60°C) storage

Oxygen Delivery Dewpoint

-100°F (-73°C)

Physical

O₂ outlet: 1/8" NPT female pipe connection.
 Cover with integral fan: standard
 Rear mounting bracket: standard
 Hourmeter: standard
 Continuous oxygen monitor: optional

Electrical

Power consumption is approximately 450W.

Workhorse Specifications and Performance

Name	Model #	Power Supply	Performance Data		Weight (Mass)
			Flow 90%(+3%/-5%) O ₂ at:	Oxygen Delivery Pressure	
Workhorse-15	5769	120 V, 60 Hz	15 SCFH	7.0 psig	67 lbs 30 kg
	5785	208-240 V, 60 Hz	7.1 SLPM	0.5 bar	
	5777	208-240 V, 50 Hz	0.4 m ³ /hr 30 lb/day	360 mm Hg 190 in H ₂ O	
Workhorse-23	5755	120 V, 60 Hz	23 SCFH	7.0 psig	78 lbs 35 kg
	5759	208-240 V, 60 Hz	11 SLPM	0.5 bar	
	5763	208-240V, 50 Hz	0.7 m ³ /hr 46 lb/day	360 mm Hg 190 in H ₂ O	

Workhorse Profile Family Accessory

Part No.	Description
9135	Continuous Oxygen Monitor (Factory Installed Option)

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