

2450 Series

THOMAS
by Gardner Denver

FEATURES

- > Oil-less operation
- > Permanently lubricated bearings
- > Stainless steel valves
- > High performance piston seal
- > Die-cast aluminum components
- > Thin wall, hard coated aluminum cylinder
- > Wetted parts treated for corrosion resistance
- > Dynamically balanced
- > Designed and tested per Agency standards
- > RoHS compliant

Declaration documentation available upon request

CUSTOMER REQUIREMENTS

- > 100 cfm minimum supplemental cooling air flow for compressor to be integrated into thermal management system to ensure that proper installation and operating environment is maintained in keeping with the product specifications.

TYPICAL APPLICATIONS

- > O₂ Concentrator
- > Other Medical Applications

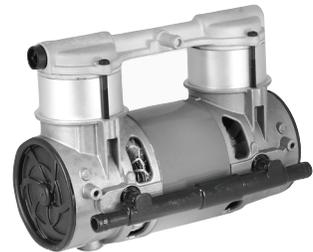
BASE MODELS

2450AE44

(115/60/1)

2450AUU44

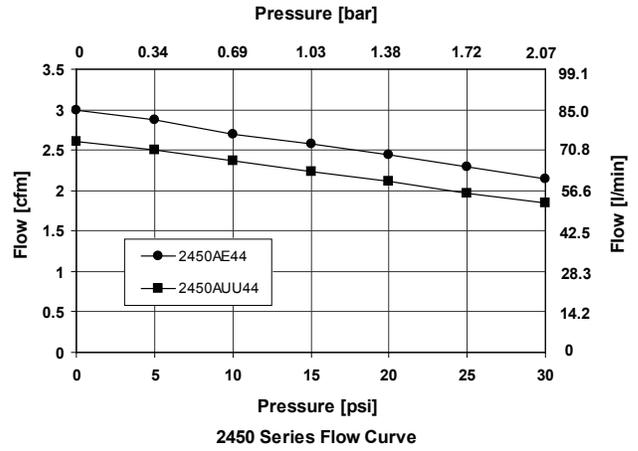
(230/50/1)



WOB-L

2450 Series

Flow	3.0 cfm (85 l/min)
Max. pressure	30 psi (2.1 bar)
Max. vacuum	N/A



NOTE: All test values are nominal and for reference only. They are not guaranteed maximum or minimum limits, nor do they imply mean or median values.

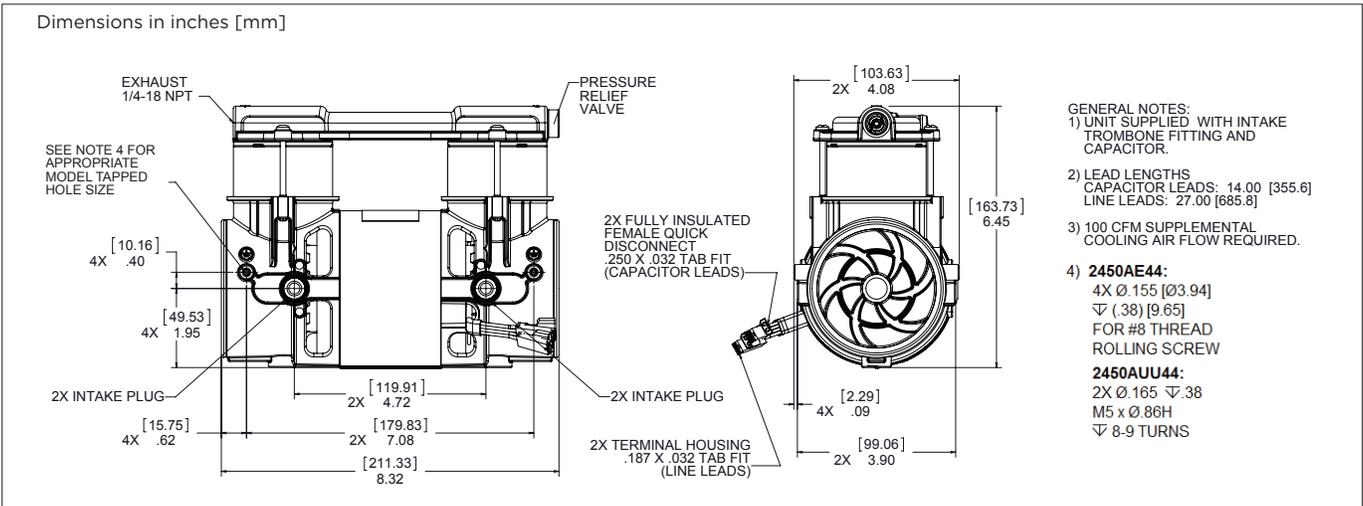
PERFORMANCE DATA			
Model Number	2450AE44	2450AUU44	
Head Configuration	Pressure parallel flow	Pressure parallel flow	
Stroke	0.44 in. (11.2 mm)	0.44 in. (11.2 mm)	
Nominal voltage input	115/60/1	230/50/1	
Max. open air flow	3.0 cfm (85.0 l/min)	2.6 cfm (73.6 l/min)	
Max. rated pressure	30 psi (2.1 bar)	30 psi (2.1 bar)	
Current at rated pressure	3.5A	1.6A	
Power at rated pressure	388W	350W	
Speed at rated pressure	1650 rpm	1330 rpm	
Max. pressure restart	N/A	N/A	
Max. vacuum	N/A	N/A	
Max. vacuum restart	N/A	N/A	

ELECTRICAL DATA			
Motor type (Capacitance)	P.S.C. [20 µF]	P.S.C. [10 µF]	
Motor locked rotor current	8.7A	3.5A	
Motor insulation class	B	B	
Thermal switch (Nominal Open temperature)	Yes [293°F (145°C)]	Yes [293°F (145°C)]	
Lead wire color, gauge	Brown(hot), blue(neutral), 18 AWG	Brown(hot), blue(neutral), 18 AWG	
Capacitor lead wire color, gauge	Black, black, 18 AWG	Red, red, 18 AWG	

GENERAL DATA			
Operating ambient temperature*	50° to 104°F (10°C TO 40°C)	50° to 104°F (10°C TO 40°C)	
Safety Certification	cRUus, CSA	TUV	
Net weight	9.50 lbs (4.3 kg)	9.50 lbs (4.3 kg)	

* Broader ambient operating ranges may be possible depending on your specific application. Please consult factory regarding your particular system needs.

PRODUCT DIMENSIONS



PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

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The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for the intended use and the user assumes all risk and liability in connection there with. Thomas does not warrant, guarantee or assume any obligation or liability in connection with this information.

Models presented in this catalog are representative of the product family. Photos of products pictured in this catalog do not necessarily represent a specific model number. To obtain further information for custom options, contact your local Thomas office.

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