2450 Series

THOMAS
by Gardner Denver

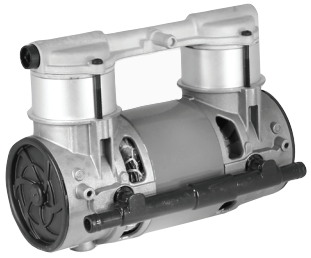
FEATURES

> 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

BASE MODELS

2450AE44
(115/60/1)
2450AUU44
(230/50/1)



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

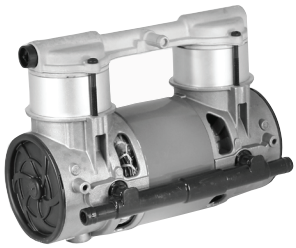
> O_2 Concentrator
> Other Medical Applications



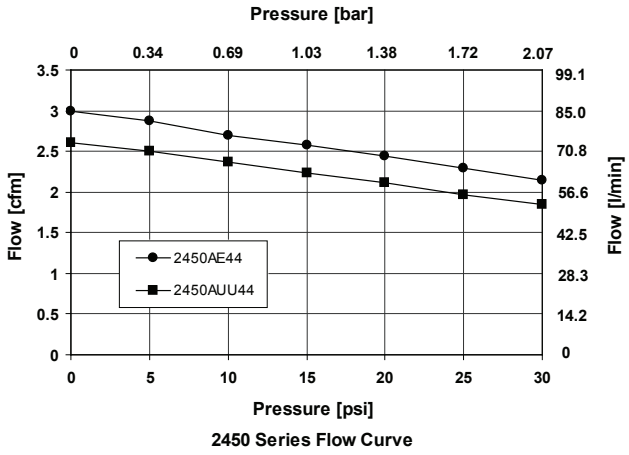
WOB-L

2450 Series

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



Oil-less



2450 Series Flow Curve

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	

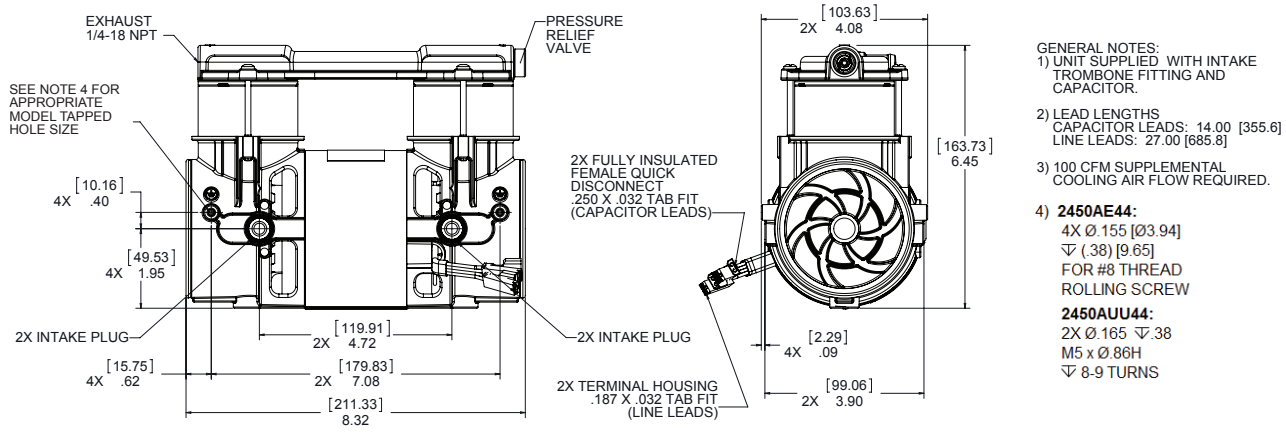
ELECTRICAL DATA			
Motor type (Capacitance)	P.S.C. [20 µF]	P.S.C. [10 µF]	
Motor locked rotor current	8.7A	3.5A	
Motor insulation class	B	B	
Thermal switch (Nominal Open temperature)	Yes [293°F (145°C)	Yes [293°F (145°C)]	
Lead wire color, gauge	Brown(hot), blue(neutral), 18 AWG	Brown(hot), blue(neutral),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

Dimensions in inches [mm]



GENERAL NOTES:
1) UNIT SUPPLIED WITH INTAKE TROMBONE FITTING AND CAPACITOR.

2) LEAD LENGTHS
CAPACITOR LEADS: 14.00 [355.6]
LINE LEADS: 27.00 [685.8]

3) 100 CFM SUPPLEMENTAL COOLING AIR FLOW REQUIRED.

4) **2450AE44:**
4X Ø.155 [Ø3.94]
⌵ (.38) [9.65]
FOR #8 THREAD
ROLLING SCREW

2450AUU44:
2X Ø.165 ⌵.38
M5 x Ø.86H
⌵ 8-9 TURNS

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