

2505 Series

THOMAS
by Gardner Denver

FEATURES

- > Oil-less operation
- > Permanently lubricated bearings
- > Stainless steel valves
- > Die-cast aluminum components
- > Dynamically balanced
- > Proven WOB-L technology
- > Monolithic head
- > Field service capability
- > Thermally protected motor
- > Designed and tested per Agency standards
- > RoHS compliant

Declaration documentation available upon request

TYPICAL APPLICATIONS

- > O₂ Concentrator
- > Blood & Laboratory Analyzers
- > Dental & Optical Equipment
- > Medical Trauma Carts
- > Laboratory Air Dryers
- > Aspirators/Respirators
- > Industrial/Manufacturing Equipment

BASE MODELS

2505CE38

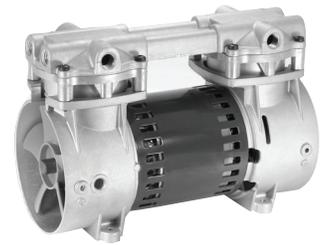
(115/60/1)

2505CG38

(230/60/1)

2505CHI45

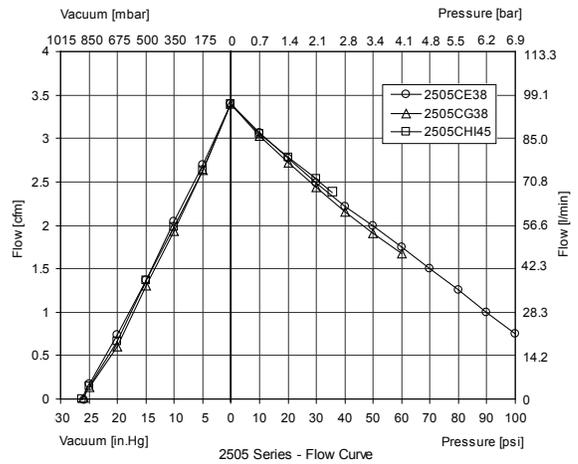
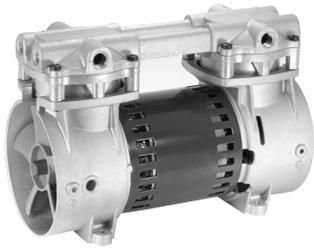
(220-240/50/1)



WOB-L

2505 Series

Flow	3.4 cfm (96.3 l/min)
Max. pressure	100 psi (6.9 bar)
Max. vacuum	90% local barometer



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.

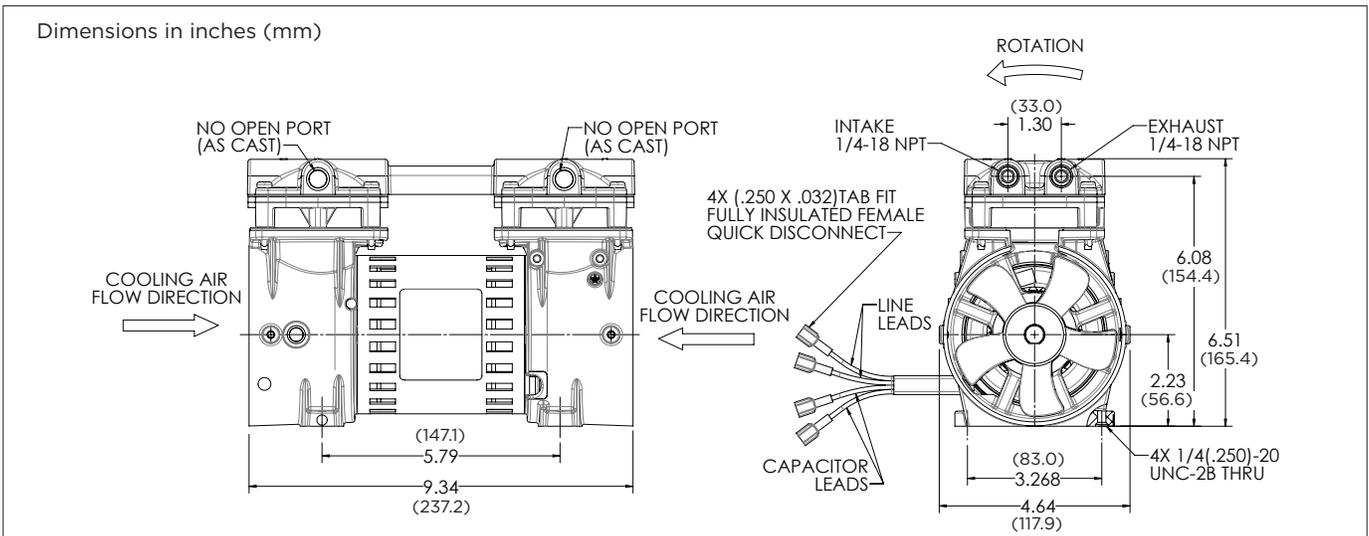
PERFORMANCE DATA	T15-0120	T14-0320	T14-0320
Model Number	2505CE38	2505CG38	2505CHI45
Head Configuration	Pressure/vacuum parallel flow	Pressure/vacuum parallel flow	Pressure/vacuum parallel flow
Stroke	0.38 in. (9.6 mm)	0.38 in. (9.6 mm)	0.45 in. (11.4 mm)
Nominal voltage input	115/60/1	230/60/1	220-240/50/1
Max. open air flow	3.4 cfm (96.3 l/min)	3.4 cfm (96.3 l/min)	3.4 cfm (96.3 l/min)
Max. rated pressure	100 psi (6.9 bar)	60 psi (4.1 bar)	35 psi (2.4 bar)
Current at rated pressure	3.6A	1.9A	1.7A
Power at rated pressure	380W	415W	385W
Speed at rated pressure	1700 rpm	1670 rpm	1400 rpm
Max. pressure restart	Consult factory	Consult factory	Consult factory
Max. vacuum	90% local barometer	90% local barometer	90% local barometer
Max. vacuum restart	Consult factory	Consult factory	Consult factory

ELECTRICAL DATA			
Motor type (Capacitance)	P.S.C. [22 µF]	P.S.C. [12.5 µF]	P.S.C. [12.5 µF]
Motor locked rotor current	11.8A	4.0A	4.5A
Motor insulation class	B	B	B
Thermal switch (Nominal Open temperature)	Yes [275°F (135°C)]	Yes [275°F (135°C)]	Yes [275°F (135°C)]
Lead wire color, gauge	Brown(hot), blue(neutral), 18 AWG	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	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)*	50° to 104°F (10°C TO 40°C)*
Safety Certification	cRUus	TUV	TUV
Net weight	14.0 lbs (6.4 kg)	14.0 lbs (6.4 kg)	14.0 lbs (6.4 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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