

## 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

- > O<sub>2</sub> Concentrator
- > Blood & Laboratory Analyzers
- > Dental & Optical Equipment
- > Medical Trauma Carts
- > Laboratory Air Dryers
- > Aspirators/Respirators
- > Industrial/Manufacturing Equipment

### BASE MODELS

2505CE38

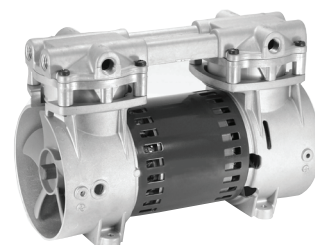
(115/60/1)

2505CG38

(230/60/1)

2505CHI45

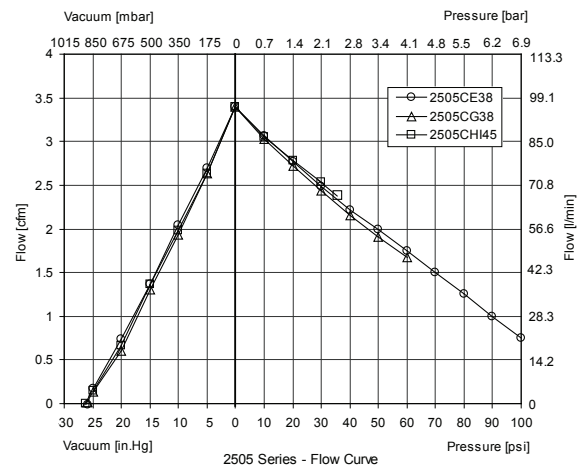
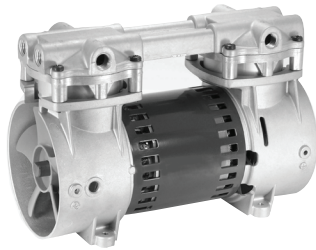
(220-240/50/1)



**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               |

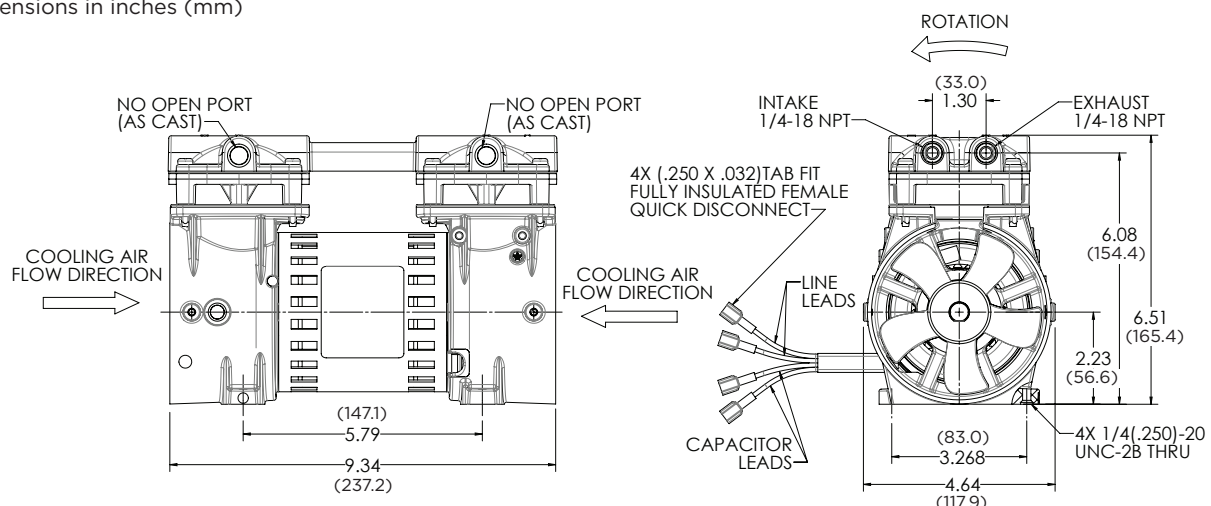
| ELECTRICAL DATA                           |                                   |                                   |                                   |
|-------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 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

Dimensions in inches (mm)



PUMP AND COMPRESSOR SOLUTIONS FOR OEMS WORLDWIDE

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