

Diaphragm



2107 SERIES

115v/110v

MODELS

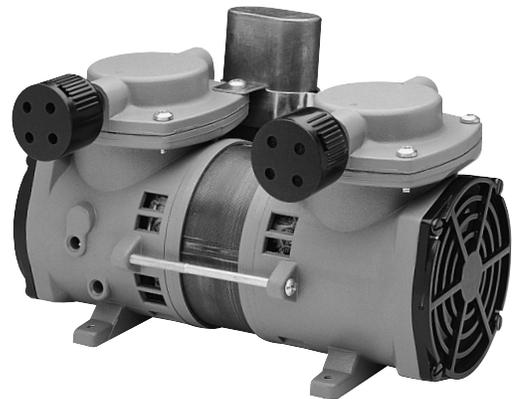
Standard models
2107CA20
2107CEF20

*Other models based
on availability and
minimum purchase.*

2107CA14
2107CA18
2107CEF14
2107CEF18



2107CA



2107CEF

FEATURES

- Oil-less operation
- Permanently lubricated bearings
- Stainless steel valves and lapped aluminum valve plates
- Die-cast aluminum heads and diaphragm hold down plates
- Balanced for smooth, low vibration operation
- Long-life diaphragms
- Field service capability
- Dichromate conversion treated aluminum
- 115v, UL recognized motor and thermal protector
- Inlet filter
- Consult factory for non-standard models
- Service Kit 650126

Consult factory for custom applications

ISO 9001
CERTIFIED

THOMAS
A Gardner Denver Product

2107 Series Performance Data

| | | | | | | Standard | |
|---------------------------------------|--------------------|-----------------|-----------|-----------------|-----------|-----------------|-----------|
| MODEL NUMBER | | 2107CA14 | | 2107CA18 | | 2107CA20 | |
| HEAD CONFIGURATION | | Pressure/Vacuum | | Pressure/Vacuum | | Pressure/Vacuum | |
| STROKE | | .140 Inches | | .180 Inches | | .200 Inches | |
| PRESSURE | | Flow @ 115v | | Flow @ 115v | | Flow @ 115v | |
| CFM @ PSI | LPM @ bar | | | | | | |
| PSI | bar | CFM | LPM | CFM | LPM | CFM | LPM |
| 0 | 0 | 1.10 | 31.1 | 1.60 | 45.3 | 1.65 | 46.7 |
| 5 | .5 | .84 | 20.2 | 1.25 | 31.6 | 1.33 | 33.6 |
| 10 | 1.0 | .56 | 8.5 | .95 | 19.2 | | |
| 15 | 1.5 | .27 | | | | | |
| 20 | 2.0 | .09 | | | | | |
| 25 | 3.0 | | | | | | |
| 30 | | | | | | | |
| 35 | | | | | | | |
| MAX. CONTINUOUS PRESSURE | | 20 PSI | 1.4 bar | 5 PSI | .3 bar | 5 PSI | .3 bar |
| MAX. INTERMITTENT PRESSURE | | 20 PSI | 1.4 bar | 10 PSI | .7 bar | 5 PSI | .3 bar |
| VACUUM | | Flow @ 115v | | Flow @ 115v | | Flow @ 115v | |
| CFM @ IN. hg | LPM @ mbar (gauge) | | | | | | |
| IN. hg | mbar (gauge) | CFM | LPM | CFM | LPM | CFM | LPM |
| 0 | 0 | 1.10 | 31.1 | 1.60 | 45.3 | 1.65 | 46.7 |
| 5 | -100 | .86 | 27.1 | 1.10 | 37.0 | 1.15 | 38.4 |
| 10 | -200 | .55 | 22.8 | .74 | 29.3 | .77 | 30.6 |
| 15 | -400 | .24 | 12.4 | .43 | 17.8 | .47 | 18.7 |
| 20 | -600 | | 2.0 | .14 | 7.7 | .17 | 8.7 |
| 25 | -800 | | | | | | |
| MAX. VACUUM | | 20.0" hg | -677 mbar | 22.7" hg | -769 mbar | 23.2" hg | -786 mbar |
| MAX. AMBIENT AIR TEMP. | | 104° F | 40°C | 104° F | 40°C | 104° F | 40°C |
| MIN. AMBIENT START TEMP. | | 50° F | 10°C | 50° F | 10°C | 50° F | 10°C |
| MAX. RESTART PRESSURE | | 0 PSI | 0 bar | 0 PSI | 0 bar | 0 PSI | 0 bar |
| MAX. RESTART VACUUM | | 0" hg | 0 mbar | 0" hg | 0 mbar | 0" hg | 0 mbar |
| MOTOR VOLTAGE/FREQUENCY | | 115/60/1 | | 115/60/1 | | 115/60/1 | |
| MOTOR TYPE | | Shaded Pole | | Shaded Pole | | Shaded Pole | |
| CURRENT AT RATED LOAD (AMPS) | | 1.5 | | 1.6 | | 1.6 | |
| POWER AT RATED LOAD (WATTS) | | 100 | | 114 | | 123 | |
| STARTING CURRENT (LOCKED ROTOR, AMPS) | | 2.6 | | 2.6 | | 2.6 | |
| CAPACITOR VALUE | | | | | | | |
| MIN. FULL LOAD SPEED (RPM) | | 1675 | | 1575 | | 1524 | |
| THERMAL PROTECTOR | | Yes | | Yes | | Yes | |
| NET WEIGHT | | 6 lbs. | 2.7 Kg | 6 lbs. | 2.7 Kg | 6 lbs. | 2.7 Kg |

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 his intended use and the user assumes all risk and liability whatsoever in connection therewith. Thomas Industries does not warrant, guarantee or assume any obligation or liability in connection with this information.

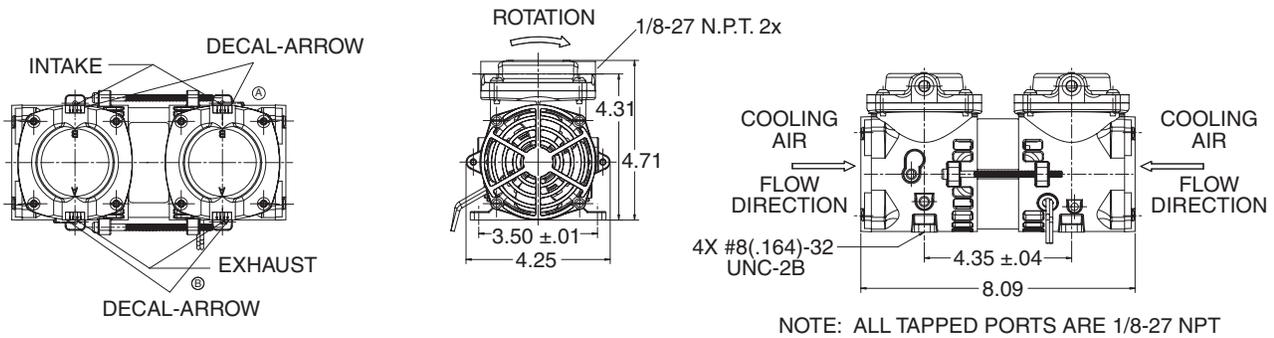
NOTE: Models pictured are representative of the series and do not represent a specific model number. Consult factory for detailed physical description.

2107 Series Performance Data

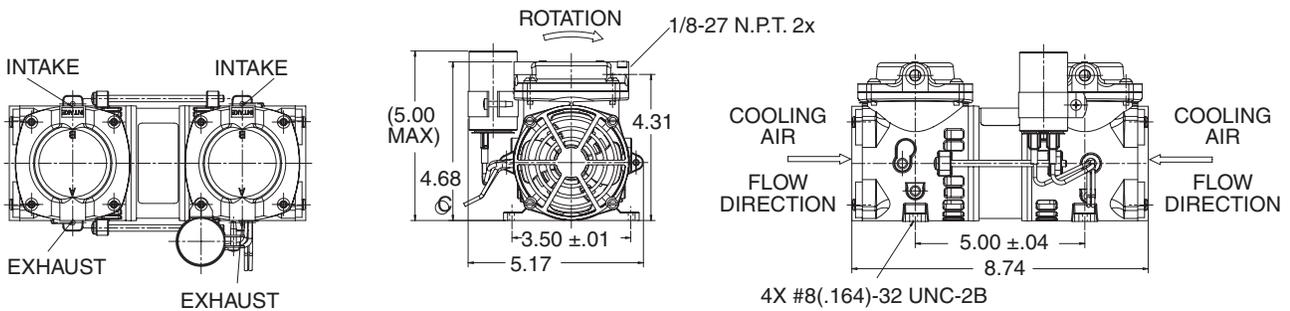
| MODEL NUMBER | | 2107CEF14 | | 2107CEF18 | | Standard 2107CEF20 | |
|--|--------------------|---------------------------|-----------|---------------------------|-----------|---------------------------|-----------|
| HEAD CONFIGURATION | | Pressure/Vacuum | | Pressure/Vacuum | | Pressure/Vacuum | |
| STROKE | | .140 Inches | | .180 Inches | | .200 Inches | |
| PRESSURE | | Flow @ 115/110v | | Flow @ 115/110v | | Flow @ 115/110v | |
| CFM @ PSI | LPM @ bar | | | | | | |
| PSI | bar | CFM | LPM | CFM | LPM | CFM | LPM |
| 0 | 0 | 1.10/.92 | 31.1/26.1 | 1.50/1.29 | 42.5/36.5 | 1.65/1.40 | 46.7/39.6 |
| 5 | .5 | .97/.81 | 23.5/19.0 | 1.24/1.07 | 32.7/27.5 | 1.40/1.20 | 36.5/31.4 |
| 10 | 1.0 | .66/.50 | 13.8/9.6 | 1.05/.85 | 24.9/19.0 | 1.15/1.00 | 26.2/23.2 |
| 15 | 1.5 | .47/.32 | 4.9/4.1 | .86/.65 | 17.5/12.5 | | |
| 20 | 2.0 | .25/.19 | | .68/.50 | 10.1/6.8 | | |
| 25 | 3.0 | | | .50/.33 | | | |
| 30 | | | | .32/.22 | | | |
| 35 | | | | | | | |
| MAX. CONTINUOUS PRESSURE | | 20 PSI | 1.4 bar | 20 PSI | 1.4 bar | 10 PSI | .7 bar |
| MAX. INTERMITTENT PRESSURE | | 20 PSI | 1.4 bar | 30 PSI | 2.1 bar | 10 PSI | .7 bar |
| VACUUM | | Flow @ 115/110v | | Flow @ 115/110v | | Flow @ 115/110v | |
| CFM @ IN. hg | LPM @ mbar (gauge) | | | | | | |
| IN. hg | mbar (gauge) | CFM | LPM | CFM | LPM | CFM | LPM |
| 0 | 0 | 1.10/.92 | 31.1/26.1 | 1.50/1.29 | 42.5/36.5 | 1.65/1.40 | 46.7/39.6 |
| 5 | -100 | .86/.72 | 27.1/22.7 | 1.10/.91 | 35.8/30.2 | 1.19/1.00 | 39.0/33.0 |
| 10 | -200 | .52/.45 | 22.6/19.0 | .75/.62 | 29.4/24.3 | .85/.70 | 32.0/26.8 |
| 15 | -400 | .25/.20 | 12.0/10.2 | .41/.34 | 17.7/14.7 | .49/.40 | 20.4/16.7 |
| 20 | -600 | | 3.0/1.8 | .13/.10 | 7.3/6.0 | .18/.14 | 9.1/7.3 |
| 25 | -800 | | | | | | |
| MAX. VACUUM | | 20.0" hg | -677 mbar | 22.6" hg | -766 mbar | 23.3" hg | -789 mbar |
| MAX. AMBIENT AIR TEMP. | | 104° F | 40°C | 104° F | 40°C | 104° F | 40°C |
| MIN. AMBIENT START TEMP. | | 50° F | 10°C | 50° F | 10°C | 50° F | 10°C |
| MAX. RESTART PRESSURE | | 0 PSI | 0 bar | 0 PSI | 0 bar | 0 PSI | 0 bar |
| MAX. RESTART VACUUM | | 0" hg | 0 mbar | 0" hg | 0 mbar | 0" hg | 0 mbar |
| MOTOR VOLTAGE/FREQUENCY | | 115/60/1-110/50/1 | | 115/60/1-110/50/1 | | 115/60/1-110/50/1 | |
| MOTOR TYPE | | Permanent Split Capacitor | | Permanent Split Capacitor | | Permanent Split Capacitor | |
| CURRENT AT RATED LOAD (AMPS) | | .9/1.1 | | 1.1/1.2 | | 1.1/1.2 | |
| POWER AT RATED LOAD (WATTS) | | 85/80 | | 108/100 | | 108/105 | |
| STARTING CURRENT (LOCKED ROTOR, AMPS) | | 1.6/1.9 | | 1.6/1.9 | | 1.6/1.9 | |
| CAPACITOR VALUE | | 5 mfd | | 5 mfd | | 5 mfd | |
| MIN. FULL LOAD SPEED (RPM) | | 1650/1375 | | 1550/1285 | | 1500/1245 | |
| THERMAL PROTECTOR | | Yes | | Yes | | Yes | |
| NET WEIGHT | | 7 lbs. | 3.1 Kg | 7 lbs. | 3.1 Kg | 7 lbs. | 3.1 Kg |

Dimensions

2107CA



2107CEF



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