

MODELS

2807CE72 2807CGHI72

2807 SERIES



FEATURES

- Oil-less, non-lube piston and cylinder
- Permanently lubricated bearings
- Stainless steel valves and aluminum valve plate
- Lightweight die cast aluminum components
- Long-life, high performance piston seal
- Thin wall, hard coated aluminum cylinder for maximum heat transfer
- Twin fans provide cool air through and around motor and cylinders
- Low noise design
- Inlet filter
- All wetted aluminum parts treated for corrosion protection
- All other wetted parts stainless steel
- Eight foot cord and plug
- Balanced for smooth, low vibration operation
- Field service capability
- 115 volt, UL recognized motor and thermal protector

Consult factory for custom applications



Thomas Division is an ISO 9001 registered company

2807 Series Performance Data

MODEL NUMBER		2807CE72		2807CGHI72	
HEAD CONFIGURATION		Pressure/Vacuum		Pressure/Vacuum	
STROKE		.720 Inches		.720 Inches	
PRESSURE		Flow @ 115v 60Hz		Flow @ 220v 50Hz/230v 60Hz	
CFM @ PSI	LPM @ bar				
PSI	bar	CFM	LPM	CFM	LPM
0 10 20 30 40 50 60 70 80 90 100 110 120	0 .5 1.0 1.5 2.0 3.0 5.0 7.0	6.60 6.20 5.90 5.55 5.13 4.65 4.35 4.07 3.75 3.38 3.05 2.75 2.45	186.9 178.7 171.7 165.2 157.2 141.4 112.5 84.9	5.48 / 6.60 5.15 / 6.20 4.90 / 5.95 4.26 / 5.13 3.86 / 4.65 3.61 / 4.35 3.38 / 4.07 3.11 / 3.75 2.81 / 3.38 2.53 / 3.05 2.28 / 2.75 2.02 / 2.45	155.2 / 186.9 148.3 / 178.7 142.6 / 171.7 137.2 / 165.2 130.6 / 157.2 117.4 / 141.4 93.4 / 112.5 70.4 / 84.9
MAX. CONTINUOUS PRESSURE		50 PSI	3.4bar	50.0 PSI	3.4 bar
MAX. INTERMITTENT PRESSURE		120.0 PSI	8.3 bar	120.0 PSI	8.3 bar
VACUUM		Flow @ 115v 60Hz		Flow @ 220v 50Hz/230v 60Hz	
CFM @ IN. hg	LPM @ mbar (gauge)				
IN. hg	mbar (gauge)	CFM	LPM	CFM	LPM
0 5	0 -100	6.60 4.30	186.9 136.7	5.48 / 6.60 3.66 / 4.30	155.2 / 186.9 125.0 / 136.7
10 15 20	-200 -400 -600	2.66 1.80 .88	97.1 66.5 36.8	2.21 / 2.66 1.41 / 1.80 .56 / .88	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8
15	-400	1.80	97.1 66.5	1.41 / 1.80	96.1 / 97.1 54.4 / 66.5
15 20	-400 -600	1.80 .88	97.1 66.5 36.8	1.41 / 1.80 .56 / .88	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8
15 20 MAX. VACUUM	-400 -600 AIR TEMP.	1.80 .88 25.0" hg	97.1 66.5 36.8 -848 mbar	1.41 / 1.80 .56 / .88 25.0" hg	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar
15 20 MAX. VACUUM MAX. AMBIENT	-400 -600 AIR TEMP. START TEMP.	1.80 .88 25.0" hg 104° F	97.1 66.5 36.8 -848 mbar 40°C	1.41 / 1.80 .56 / .88 25.0" hg 104° F	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C
15 20 MAX. VACUUM MAX. AMBIENT A MIN. AMBIENT S	-400 -600 AIR TEMP. START TEMP. PRESSURE	1.80 .88 25.0" hg 104° F 50° F	97.1 66.5 36.8 -848 mbar 40°C 10°C	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C
15 20 MAX. VACUUM MAX. AMBIENT 3 MIN. AMBIENT 5 MAX. RESTART	-400 -600 AIR TEMP. START TEMP. PRESSURE VACUUM	1.80 .88 25.0" hg 104° F 50° F 100 PSI 0 "hg	97.1 66.5 36.8 -848 mbar 40°C 10°C 6.9 bar	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F 100 PSI	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar
15 20 MAX. VACUUM MAX. AMBIENT S MIN. AMBIENT S MAX. RESTART 1 MAX. RESTART 1	-400 -600 AIR TEMP. START TEMP. PRESSURE VACUUM	1.80 .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 115/	97.1 66.5 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 220-240/50	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar
15 20 MAX. VACUUM MAX. AMBIENT 3 MIN. AMBIENT 3 MAX. RESTART 1 MAX. RESTART 1 MOTOR VOLTAG MOTOR TYPE	-400 -600 AIR TEMP. START TEMP. PRESSURE VACUUM	1.80 .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 115, Permanent S	97.1 66.5 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar '60/1	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 220-240/50 Capacit	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar /1-230/60/1
15 20 MAX. VACUUM MAX. AMBIENT S MAX. RESTART M MAX. RESTART M MOTOR VOLTAG MOTOR TYPE CURRENT AT RA	-400 -600 AIR TEMP. START TEMP. PRESSURE VACUUM SE/FREQUENCY	1.80 .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 115/ Permanent S 8	97.1 66.5 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar (60/1 plit Capacitor	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 220-240/50 Capacit 5.0 /	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar /1-230/60/1 tor Start
15 20 MAX. VACUUM MAX. AMBIENT S MAX. RESTART M MAX. RESTART M MOTOR VOLTAG MOTOR TYPE CURRENT AT RA	-400 -600 AIR TEMP. START TEMP. PRESSURE VACUUM SE/FREQUENCY SED LOAD (AMPS) ED LOAD (WATTS) RENT	1.80 .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 115, Permanent S 8 90	97.1 66.5 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar 60/1 cplit Capacitor .5	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 220-240/50 Capacit 5.0 / 948 /	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar /1-230/60/1 tor Start / 4.8
15 20 MAX. VACUUM MAX. AMBIENT S MAX. RESTART M MAX. RESTART M MOTOR VOLTAG MOTOR TYPE CURRENT AT RATE POWER AT RATE STARTING CURF	-400 -600 AIR TEMP. START TEMP. PRESSURE VACUUM SE/FREQUENCY STED LOAD (AMPS) ED LOAD (WATTS) RENT R, AMPS)	1.80 .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 115, Permanent S 8 99	97.1 66.5 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar 60/1 split Capacitor .5 02	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 220-240/50 Capacit 5.0 , 948 , 20	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar /1-230/60/1 tor Start / 4.8 / 929
15 20 MAX. VACUUM MAX. AMBIENT S MAX. RESTART I MAX. RESTART I MAX. RESTART I MOTOR VOLTAG MOTOR TYPE CURRENT AT RA POWER AT RATE STARTING CURF (LOCKED ROTO)	-400 -600 AIR TEMP. START TEMP. PRESSURE VACUUM SE/FREQUENCY TED LOAD (AMPS) ED LOAD (WATTS) RENT R, AMPS) .UE	1.80 .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 115/ Permanent S 8 99 44 30	97.1 66.5 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar 60/1 .5 02	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 220-240/50 Capacit 5.0 , 948 , 20 30	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar /1-230/60/1 tor Start / 4.8 / 929
15 20 MAX. VACUUM MAX. AMBIENT S MAX. RESTART I MAX. RESTART I MAX. RESTART I MOTOR VOLTAG MOTOR VOLTAG MOTOR TYPE CURRENT AT RA POWER AT RATE STARTING CURE (LOCKED ROTO) CAPACITOR VAL	-400 -600 AIR TEMP. START TEMP. PRESSURE VACUUM SE/FREQUENCY SECTOR (MATS) ED LOAD (WATTS) ED LOAD (WATTS) RENT R, AMPS) .UE D SPEED (RPM)	1.80 .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 115/ Permanent S 8 90 44 300 17	97.1 66.5 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar 60/1 .9bit Capacitor .5 02 4.0 mfd	1.41 / 1.80 .56 / .88 25.0" hg 104° F 50° F 100 PSI 0 "hg 220-240/50 Capacit 5.0 / 948 / 20 30 1 1425	96.1 / 97.1 54.4 / 66.5 26.8 / 36.8 -848 mbar 40°C 10°C 6.9 bar 0 mbar /1-230/60/1 tor Start / 4.8 / 929

ROTATION /- 1/4-18 N.P.T. x 4 NO OPEN EXHAUST PORT (AS CAST) ोकान्त्री Ŧ Ŧ 4X 1/4-20 UNC THREAD THRU $\leq =$ COOLING AIR FLOW DIRECTION 8.45±.01 15.60 NO OPEN PORT INTAKE (AS CAST) ্ৰিচ্ৰেৰ্ 9.36 10.05

> 5.44±.01 -- 7.31 ---

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.

Printed in U.S.A. Form No. 850-3315 04/15 ©2007 Gardner Denver Thomas, Inc. All rights reserved.

