

DIAPHRAGM

Compressors and Vacuum Pumps

2107 Series

MODELS:

Standard models available.

2107CA20, 2107CD20

2107CEF20, 2107CH20

Other models based on availability and minimum purchase.

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 (2107CA/2107VA/2107CEF Only)
- Inlet filter
- CE approval on all standard 220-240/50hz models (Consult factory for non-standard models)

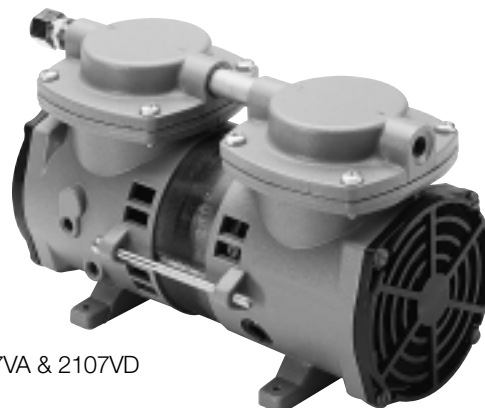
Consult factory for custom applications



2107CA & 2107CD



2107CEF & 2107CH

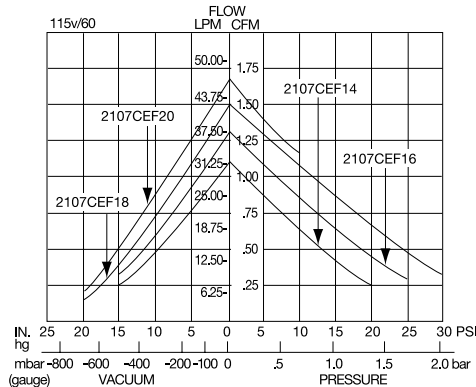
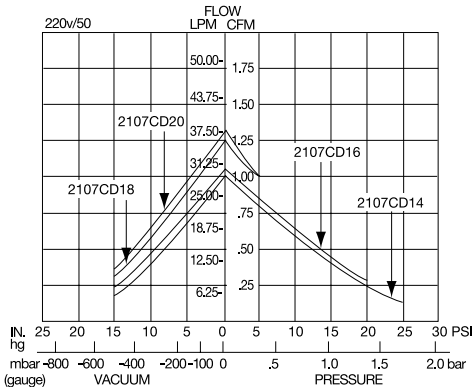
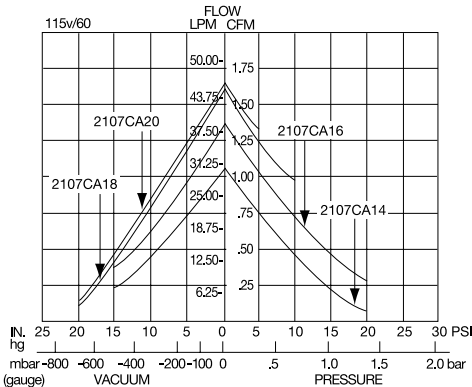


2107VA & 2107VD



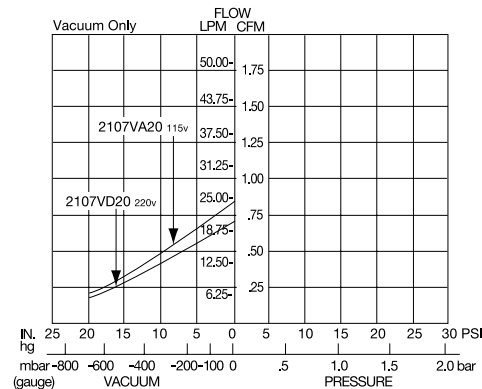
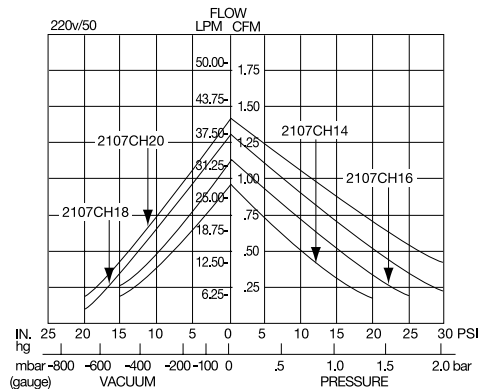
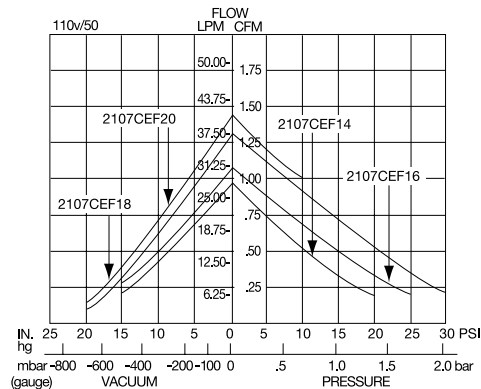
2107 SERIES PERFORMANCE DATA:

								STANDARD												STANDARD	
MODEL NUMBER:		2107CA14		2107CA16		2107CA18		2107CA20		2107CD14		2107CD16		2107CD18		2107CD20					
HEAD CONFIGURATION:		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum					
STROKE:		.140 Inches		.160 Inches		.180 Inches		.200 Inches		.140 Inches		.160 Inches		.180 Inches		.200 Inches					
PRESSURE:		Flow @ 115v		Flow @ 115v		Flow @ 115v		Flow @ 115v		Flow @ 220v		Flow @ 220v		Flow @ 220v		Flow @ 220v					
CFM @ PSI	LPM @ bar																				
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM				
0	0	1.10	31.1	1.35	38.2	1.60	45.3	1.65	46.7	1.01	28.6	1.10	31.1	1.25	35.4	1.37	38.8				
5	.5	.84	20.2	.99	24.2	1.25	31.6	1.33	33.6	.73	17.5	.88	21.7	1.00	25.1	1.00	23.6				
10	1.0	.56	8.5	.69	13.0	.95	19.2			.48	8.5	.63	13.0								
15	1.5	.27		.43	6.1					.28	3.5	.44	6.0								
20	2.0	.09		.27						.12	4.0	.27									
25	2.5									.13											
30	3.0																				
MAX. CONTINUOUS PRESSURE:		20 PSI	1.4 bar	10 PSI	.7 bar	5 PSI	.3 bar	5 PSI	.3 bar	20 PSI	1.4 bar	10 PSI	.7 bar	5 PSI	.3 bar	5 PSI	.3 bar				
MAX. INTERMITTENT PRESSURE:		20 PSI	1.4 bar	20 PSI	1.4 bar	10 PSI	.7 bar	5 PSI	.3 bar	25 PSI	1.7 bar	20 PSI	1.4 bar	5 PSI	.3 bar	5 PSI	.3 bar				
VACUUM:		Flow @ 115v		Flow @ 115v		Flow @ 115v		Flow @ 115v		Flow @ 220v		Flow @ 220v		Flow @ 220v		Flow @ 220v					
CFM @ IN. hg	LPM @mbar (gauge)																				
IN. hg	mbar (gauge)	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM				
0	0	1.10	31.1	1.35	38.2	1.60	45.3	1.65	46.7	1.01	28.6	1.10	31.1	1.25	35.4	1.37	39.0				
5	-100	.86	27.1	1.03	32.9	1.10	37.0	1.15	38.4	.66	22.7	.78	25.8	.88	29.2	.96	31.9				
10	-200	.55	22.8	.66	27.3	.74	29.3	.77	30.6	.37	17.2	.50	20.6	.58	23.4	.64	25.5				
15	-400	.24	12.4	.36	15.6	.43	17.8	.47	18.7	.17	8.4	.24	11.5	.31	13.7	.38	15.5				
20	-600		2.0		5.6	.14	7.7	.17	8.7		1.7		2.8		4.6		6.8				
25	-800																				
MAX. VACUUM:		20.0" hg	-677 mbar	21.5" hg	-728 mbar	22.7" hg	-769 mbar	23.2" hg	-786 mbar	19.3" hg	-653 mbar	20.8" hg	-708 mbar	22.4" hg	-758 mbar	23.5" hg	-797 mbar				
MAX. AMBIENT TEMPERATURE:		104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C				
MIN. AMBIENT TEMPERATURE:		50°F	10°C	50°F	10°C	50°F	10°C	50°F	10°C	50°F	10°C	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	0 PSI	0 bar	0 PSI	0 bar	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	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar				
MOTOR VOLTAGE/FREQUENCY:		115/60/1		115/60/1		115/60/1		115/60/1		220/50/1		220/50/1		220/50/1		220/50/1					
HORSEPOWER:		1/20		1/20		1/20		1/20		1/20		1/20		1/20		1/20					
MOTOR TYPE:		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole					
CURRENT AT RATED LOAD (AMPS):		1.5		1.6		1.6		1.6		.7		.8		.7		.8					
POWER AT RATED LOAD (WATTS):		100		120		114		123		88		112		94		113					
STARTING CURRENT (LOCKED ROTOR, AMPS):		2.6		2.6		2.6		2.6		1.3		1.3		1.3		1.3					
INSULATION CLASS:		B		B		B		B		A		A		A		A					
MIN. FULL LOAD SPEED (RPM):		1675		1555		1575		1524		1275		1125		1150		1200					
THERMAL PROTECTOR:		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes					
NET WEIGHT:		6 lbs.	2.7 Kg	6 lbs.	2.7 Kg	6 lbs.	2.7 Kg	6 lbs.	2.7 Kg	6 lbs.	2.7 Kg	6 lbs.	2.7 Kg	6 lbs.	2.7 Kg	6 lbs.	2.7 Kg				

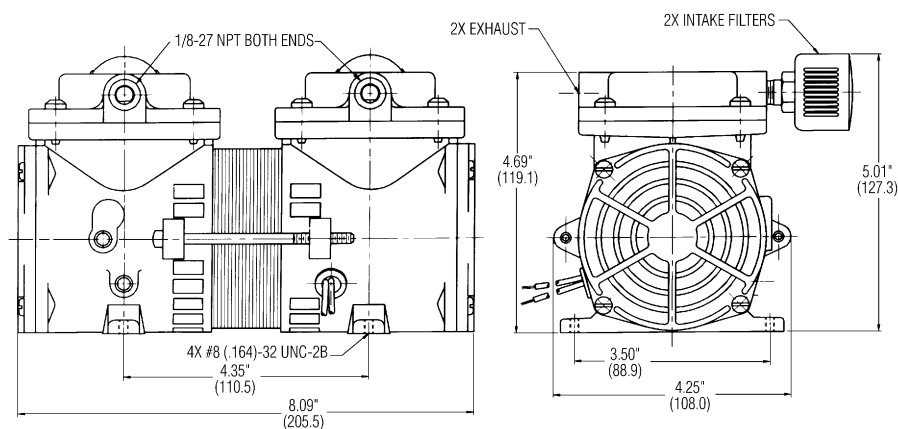


2107 SERIES PERFORMANCE DATA:

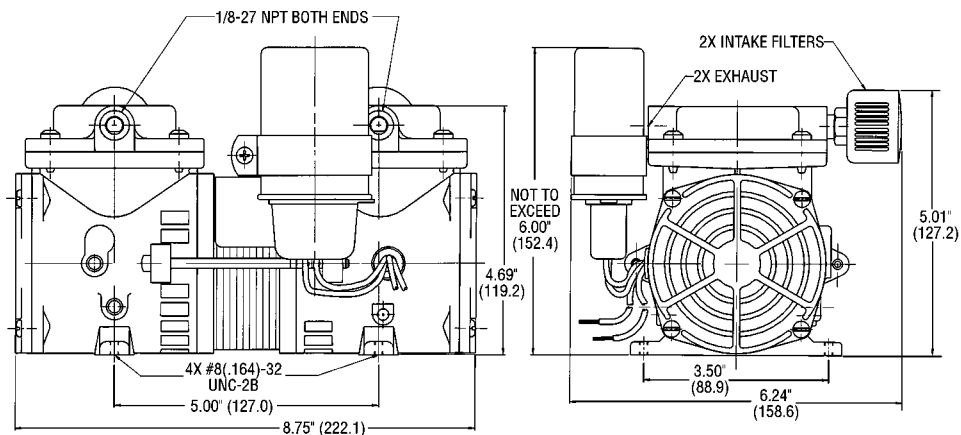
								STANDARD								STANDARD							
MODEL NUMBER:		2107CEF14		2107CEF16		2107CEF18		2107CEF20		2107CH14		2107CH16		2107CH18		2107CH20		2107VA20		2107VD20			
HEAD CONFIGURATION:		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Vacuum Only		Vacuum Only			
STROKE:		.140 Inches		.160 Inches		.180 Inches		.200 Inches		.140 Inches		.160 Inches		.180 Inches		.200 Inches		.200 Inches		.200 Inches			
PRESSURE:		Flow @ 115/110v		Flow @ 115/110v		Flow @ 115/110v		Flow @ 115/110v		Flow @ 220v		Flow @ 220v		Flow @ 220v		Flow @ 220v							
CFM @ PSI	LPM @ bar																						
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM						
0	0	1.10/.92	31.1/26.1	1.30/1.10	36.8/31.1	1.50/1.29	42.5/36.5	1.65/1.40	46.7/39.6	.91	25.8	1.15	32.6	1.30	36.8	1.40	39.6						
5	.5	.97/.81	23.5/19.0	1.10/.94	27.8/23.2	1.24/1.07	32.7/27.5	1.40/1.20	36.5/31.4	.77	18.4	.90	22.6	1.10	28.6	1.20	31.4						
10	1.0	.66/.50	13.8/9.6	.84/.67	18.7/13.9	1.05/.85	24.9/19.0	1.15/1.00	26.2/23.2	.50	9.1	.67	13.6	.90	19.1	1.00	23.7						
15	1.5	.47/.32	4.9/4.1	.64/.47	11.2/8.1	.86/.65	17.5/12.5			.30	3.5	.46	7.3	.65	12.1	.82	17.0						
20	2.0	.25/.19		.46/.33	3.8/2.7	.68/.50	10.1/6.8			.17		.30	2.4	.48	6.6	.65	12.2						
25	2.5					.50/.33								.33		.51							
30	3.0					.32/.22								.21		.41							
MAX. CONT. PRESSURE:		20 PSI	1.4 bar	20 PSI	1.4 bar	20 PSI	1.4 bar	10 PSI	.7 bar	15 PSI	1.0 bar	20 PSI	1.4 bar	20 PSI	1.4 bar	20 PSI	1.4 bar						
MAX. INTER. PRESSURE:		20 PSI	1.4 bar	25 PSI	1.7 bar	30 PSI	2.1 bar	10 PSI	.7 bar	20 PSI	1.4 bar	25 PSI	1.7 bar	30 PSI	2.1 bar	30 PSI	2.1 bar						
VACUUM:		Flow @ 115/110v		Flow @ 115/110v		Flow @ 115/110v		Flow @ 115/110v		Flow @ 220v		Flow @ 220v		Flow @ 220v		Flow @ 220v		Flow @ 115v		Flow @ 220v			
CFM @ IN. hg	LPM @ mbar (gauge)																						
IN. hg	mbar (gauge)	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM		
0	0	1.10/.92	31.1/26.1	1.30/1.10	36.8/31.1	1.50/1.29	42.5/36.5	1.65/1.40	46.7/39.6	.91	25.8	1.15	32.6	1.30	36.8	1.40	39.6	.85	24.1	.72	20.4		
5	-100	.86/.72	27.1/22.7	.98/.82	31.5/26.5	1.10/.91	35.8/30.2	1.19/1.00	39.0/33.0	.69	22.1	.81	26.9	.92	30.5	1.00	33.0	.65	20.7	.56	17.7		
10	-200	.52/.45	22.6/19.0	.64/.53	26.0/21.7	.75/.62	29.4/24.3	.85/.70	32.0/26.8	.42	18.2	.52	21.4	.62	24.5	.71	26.8	.49	17.6	.42	15.1		
15	-400	.25/.20	12.0/10.2	.32/.27	14.8/12.3	.41/.34	17.7/14.7	.49/.40	20.4/16.7	.18	9.4	.26	12.1	.34	14.7	.42	17.1	.33	12.2	.29	10.6		
20	-600		3.0/1.8		4.1/3.6	.13/.10	7.3/6.0	.18/.14	9.1/7.3				3.4	.11	6.1	.17	8.0	.20	7.3	.17	6.4		
25	-800																	3.0	3.0		2.4		
MAX. VACUUM:		20.0" hg	-677 mbar	21.3" hg	-721 mbar	22.6" hg	-766 mbar	23.3" hg	-789 mbar	19.7" hg	-667 mbar	21.3" hg	-721mbar	21.6" hg	-732mbar	23.9" hg	-809 mbar	28.2" hg	-956 mbar	28.3" hg	-959 mbar		
MAX. AMBIENT TEMP.:		104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C	104°F	40°C		
MIN. AMBIENT TEMP.:		50°F	10°C	50°F	10°C	50°F	10°C	50°F	10°C	50°F	10°C	50°F	10°C	50°F	10°C	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	0 PSI	0 bar	0 PSI	0 bar	0 PSI	0 bar	0 PSI	0 bar	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	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar	0" hg	0 mbar		
MOTOR VOLTAGE/FREQ.:		115/60/1-110/50/1		115/60/1-110/50/1		115/60/1-110/50/1		115/60/1-110/50/1		220/50/1		220/50/1		220/50/1		220/50/1		115/60/1		220/50/1			
HORSEPOWER:		1/20		1/20		1/20		1/20		1/20		1/20		1/20		1/20		1/20		1/20			
MOTOR TYPE:		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Shaded Pole		Shaded Pole			
CURRENT AT RATED LOAD (AMPS):		.9/1.1		1.0/1.1		1.1/1.2		1.1/1.2		.5		.5		.6		.6		2.2		.7			
POWER AT RATED LOAD (WATTS):		85/80		95/88		108/100		108/105		95		99		111		125		142		91			
STARTING CURRENT (LOCKED ROTOR, AMPS):		1.6/1.9		1.6/1.9		1.6/1.9		1.6/1.9		.8		.8		.8		.8		4.0		1.3			
INSULATION CLASS:		A		A		A		A		A		A		A		A		B		A			
MIN. FULL LOAD SPEED (RPM):		1650/1375		1625/1350		1550/1285		1500/1245		1375		1350		1275		1225		1700		1420			
THERMAL PROTECTOR:		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes			
CAPACITOR VALUE:		5 mfd.		5 mfd.		5 mfd.		5 mfd.		7 mfd.		7 mfd.		7 mfd.		7 mfd.							
NET WEIGHT:		7 lbs.	3.1 Kg	7 lbs.	3.1 Kg	7 lbs.	3.1 Kg	7 lbs.	3.1 Kg	7 lbs.	3.1 Kg	7 lbs.	3.1 Kg	7 lbs.	3.1 Kg	7 lbs.	3.1 Kg	6.3 lbs.	2.8 Kg	6.3 lbs.	2.8 Kg		



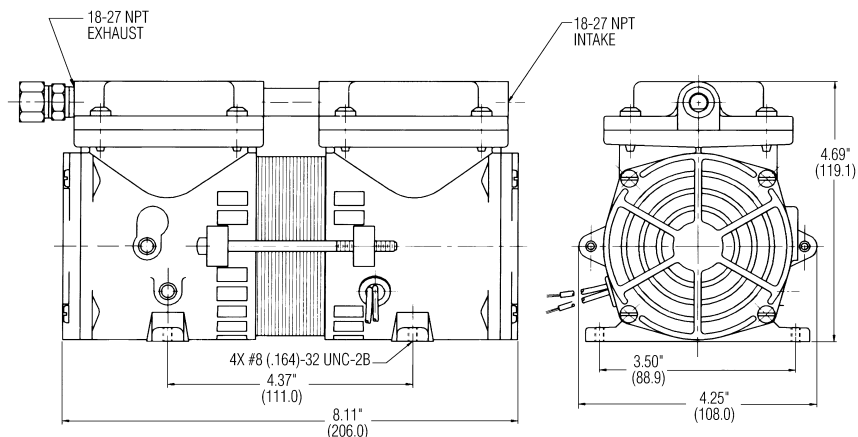
2107 SERIES DIMENSIONS: Millimeters are in ()



2107CA & 2107CD



2107CEF & 2107CH



2107VA & 2107VD

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.