

WOB-L® PISTON

Pumps and Compressors

607/668/669/688/689 Series

MODELS:

Standard models available.

607CA22, 607CA32, 607CD22, 607CD32

668CE44, 668CGHI44

688CE44, 688CGHI44

669CE44, 669CHGI44

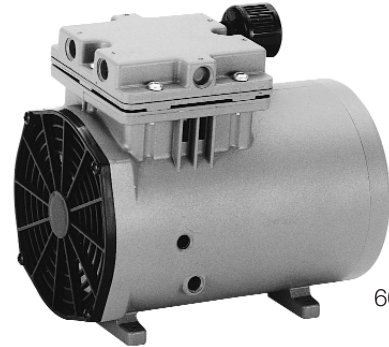
689CE44, 689CGHI44

Other models based on availability and minimum purchase.

FEATURES:

- Oil-less, non-lube piston and cylinder
- Permanently lubricated bearings
- Stainless steel valves
- Lightweight diecast aluminum components
- Long-life, high performance piston seal
- Thin wall, hard coated aluminum cylinder for maximum heat transfer
- Low noise design
- High efficiency, permanent split capacitor motor (668/669/688/689)
- 115 Volt, UL recognized motor and thermal protector
- Balanced for smooth, low vibration operation
- Intake filter
- Six foot cord and plug assembly (607, 688, and 689)
- Field service capability
- All wetted aluminum parts treated for corrosion protection from moisture (668/669/688/689)
- Open drip proof motor shell (668/669/688/689)
- CE approval on all standard 220-240/50 Hz models (Consult factory for non-standard and TUV approved models)

Consult factory for custom applications



607 CA & CD



668
669



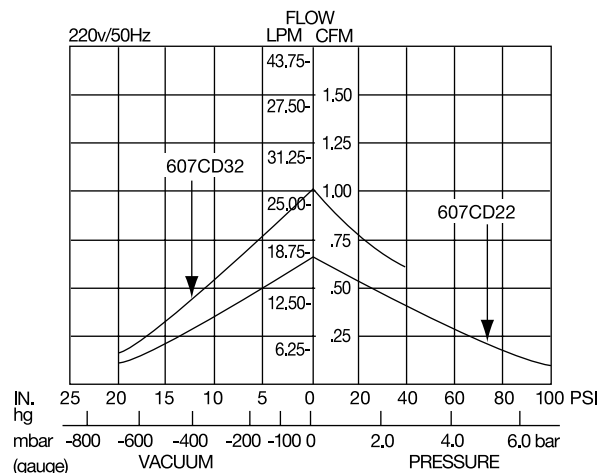
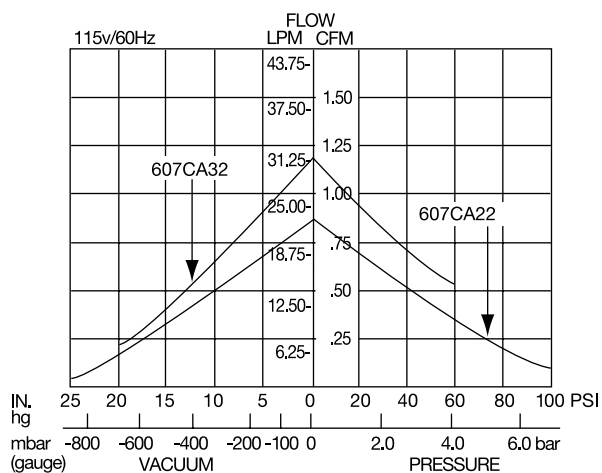
688
689

**ISO 9001
CERTIFIED**

**THOMAS**
PUMPS & COMPRESSORS

607 SERIES PERFORMANCE DATA:

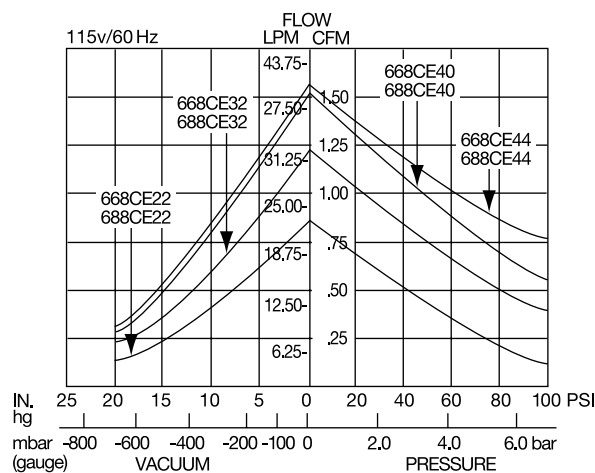
		STANDARD 607CA22		STANDARD 607CA32		STANDARD 607CD22		STANDARD 607CD32	
MODEL NUMBER:		607CA22		607CA32		607CD22		607CD32	
HEAD CONFIGURATION:		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum	
STROKE:		.220 Inches		.320 Inches		.220 Inches		.320 Inches	
PRESSURE:		Flow @ 115v		Flow @ 115v		Flow @ 220v		Flow @ 220v	
CFM @ PSI	LPM @ bar								
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM
0	0	.78	22.1	1.22	34.5	.69	19.5	1.01	28.6
10	.5	.69	20.2	1.10	32.1	.59	17.5	.91	26.5
20	1.0	.59	18.3	.97	29.5	.50	15.6	.80	24.4
30	1.5	.51	16.3	.85	26.9	.42	13.8	.69	22.1
40	2.0	.42	14.7	.74	24.4	.35	12.1	.59	19.8
50	3.0	.37	11.4	.66	20.2	.30	9.4		
60	5.0	.31	6.6	.56		.25	5.4		
70	7.0	.25	1.7			.20	2.7		
80		.18				.17			
90		.13				.14			
100		.07				.10			
MAX. CONTINUOUS PRESSURE:		100 PSI	6.9 bar	50 PSI	3.4 bar	100 PSI	6.9 bar	40 PSI	2.8 bar
MAX. INTERMITTENT PRESSURE:		100 PSI	6.9 bar	60 PSI	4.2 bar	100 PSI	6.9 bar	40 PSI	2.8 bar
VACUUM:		Flow @ 115v		Flow @ 115v		Flow @ 220v		Flow @ 220v	
CFM @ IN. hg	LPM @ mbar (gauge)								
IN. hg	mbar (gauge)	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM
0	0	.78	22.1	1.22	34.5	.69	19.5	1.01	28.6
5	-100	.63	19.6	.87	28.7	.53	16.9	.75	24.3
10	-200	.47	17.0	.65	23.5	.40	14.3	.55	20.2
15	-400	.31	11.7	.45	16.4	.26	9.9	.35	13.5
20	-600	.16	6.5	.23	9.4	.14	5.5	.19	7.4
25	-800	.02	1.7						
MAX. VACUUM:		25.6" hg	-864 mbar	26.8" hg	-907 mbar	26.1" hg	-884 mbar	26.2" hg	-887 mbar
MAX. AMBIENT TEMPERATURE:		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
MAX. RESTART PRESSURE:		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
MOTOR VOLTAGE/FREQUENCY:		115/60/1		115/60/1		220/50/1		220/50/1	
HORSEPOWER:		1/8		1/7		1/8		1/7	
MOTOR TYPE:		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole	
CURRENT AT RATED LOAD (AMPS):		3.1		4.6		1.3		1.9	
POWER AT RATED LOAD (WATTS):		189		285		174		225	
STARTING CURRENT (LOCKED ROTOR AMPS):		5.5		6.4		2.1		2.5	
INSULATION CLASS:		B		B		B		B	
MIN. FULL LOAD SPEED (RPM):		1540		1400		1105		1150	
THERMAL PROTECTOR:		Yes		Yes		Yes		Yes	
NET WEIGHT:		11 lbs.	5 Kg	11 lbs.	5 Kg	11 lbs.	5 Kg	11 lbs.	5 Kg



668 & 688 SERIES PERFORMANCE DATA:

MODEL NUMBER:	668CE22 688CE22		668CE32 688CE32		668CE40 688CE40		STANDARD 668CE44 688CE44	
	Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum	
STROKE:	.220 Inches		.320 Inches		.400 Inches		.440 Inches	
PRESSURE:	Flow @ 115v		Flow @ 115v		Flow @ 115v		Flow @ 115v	
CFM @ PSI	LPM @ bar							
PSI	bar		CFM	LPM	CFM	LPM	CFM	LPM
0	0		.84	23.8	1.22	34.5	1.52	43.0
10	.5		.74	21.7	1.08	31.7	1.45	41.6
20	1.0		.66	19.9	1.00	29.6	1.35	39.8
30	1.5		.56	18.2	.90	27.8	1.25	37.7
40	2.0		.48	16.1	.80	25.8	1.15	35.7
50	3.0		.40	12.8	.70	21.7	1.01	31.2
60	5.0		.33	7.2	.60	15.1	.92	22.9
70	7.0		.27	3.2	.55	9.9	.83	15.5
80			.21		.48		.74	
90			.16		.42		.65	
100			.12		.36		.56	
MAX. CONTINUOUS PRESSURE:	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar
MAX. INTERMITTENT PRESSURE:	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar
VACUUM:	Flow @ 115v		Flow @ 115v		Flow @ 115v		Flow @ 115v	
CFM @ IN. hg	LPM @ mbar (gauge)							
IN. hg	mbar (gauge)		CFM	LPM	CFM	LPM	CFM	LPM
0	0		.84	23.8	1.22	34.5	1.52	43.0
5	-100		.62	20.1	.87	28.7	1.04	35.0
10	-200		.47	16.8	.65	23.5	.82	28.3
15	-400		.30	11.6	.45	16.4	.57	20.7
20	-600		.14	6.0	.24	9.5	.30	12.0
MAX. VACUUM:	26.0" hg	-880 mbar	26.9" hg	-911 mbar	27.3" hg	-924 mbar	27.6" hg	-935 mbar
MAX. AMBIENT TEMPERATURE:	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
MAX. RESTART PRESSURE:	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
MOTOR VOLTAGE/FREQUENCY:	115/60/1		115/60/1		115/60/1		115/60/1	
HORSEPOWER:	1/3		1/3		1/3		1/3	
MOTOR TYPE:	Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor	
CURRENT AT RATED LOAD (AMPS):	3.1		3.2		3.4		3.6	
POWER AT RATED LOAD (WATTS):	240		245		285		325	
STARTING CURRENT (LOCKED ROTOR AMPS):	9.2		9.2		9.2		9.2	
INSULATION CLASS:	B		B		B		B	
MIN. FULL LOAD SPEED (RPM):	1750		1720		1660		1650	
THERMAL PROTECTOR:	Yes		Yes		Yes		Yes	
CAPACITOR VALUE:	8 mfd		8 mfd		8 mfd		8 mfd	
NET WEIGHT:	11.75 lbs.	5.3 Kg	11.75 lbs.	5.3 Kg	11.75 lbs.	5.3 Kg	11.75 lbs.	5.3 Kg

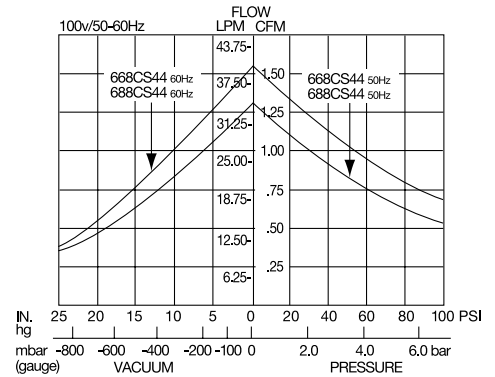
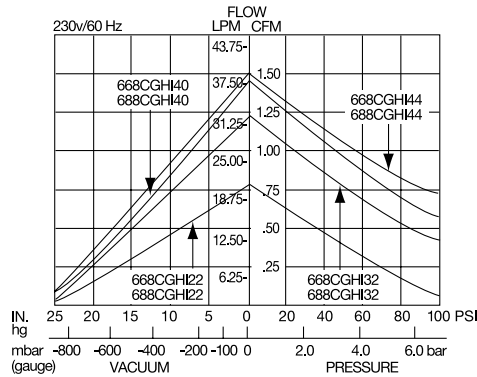
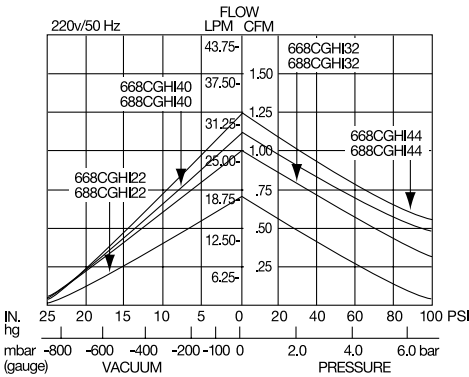
Note: 688 and 689 models include fan guard and cord standard. 668 and 669 models do not have fan guard or cord standard, these are options.



668 & 688 SERIES PERFORMANCE DATA:

MODEL NUMBER:	668CGHI22 688CGHI22		668CGHI32 688CGHI32		668CGHI40 688CGHI40		STANDARD 668CGHI44 688CGHI44		668CS44 688CS44			
	Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum			
HEAD CONFIGURATION:	Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum			
STROKE:	.220 Inches		.320 Inches		.400 Inches		.440 Inches		.440 Inches			
PRESSURE:	Flow @ 220v/50 - 230v/60 Hz		Flow @ 220v/50 - 230v/60 Hz		Flow @ 220v/50 - 230v/60 Hz		Flow @ 220v/50 - 230v/60 Hz		Flow @ 100v/50-60 Hz			
CFM @ PSI	LPM @ bar											
PSI	bar		CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM		
0	0		.68/.80	19.3/22.7	1.00/1.23	28.3/34.8	1.19/1.40	33.7/39.6	1.27/1.50	35.9/42.4	1.30/1.55	36.8/43.9
10	.5		.62/.74	18.0/21.4	.92/1.13	26.7/32.8	1.13/1.33	32.5/38.2	1.22/1.43	34.9/41.0	1.25/1.50	35.7/42.8
20	1.0		.54/.62	16.5/19.4	.84/.97	25.0/30.0	1.07/1.24	31.2/36.5	1.14/1.33	33.5/39.2	1.16/1.41	34.1/41.2
30	1.5		.45/.56	14.8/17.3	.75/.90	23.3/27.1	.98/1.15	29.9/34.7	1.09/1.22	32.0/37.1	1.08/1.28	32.4/39.2
40	2.0		.39/.48	13.0/16.0	.67/.83	21.5/25.7	.89/1.06	28.0/32.8	.94/1.17	31.0/34.8	.99/1.18	30.8/36.6
50	3.0		.34/.41	10.5/12.9	.60/.72	18.3/22.4	.83/.96	24.6/29.0	.86/1.04	25.8/31.8	.88/1.10	27.0/32.6
60	5.0		.27/.34	6.4/7.5	.54/.66	13.2/16.3	.72/.89	18.0/22.2	.82/1.00	21.3/26.5	.79/1.03	20.2/25.9
70	7.0		.24/.28	2.4/2.9	.48/.59	8.8/11.6	.65/.80	13.3/16.4	.77/.96	16.1/20.6	.73/.94	14.7/19.2
80			.19/.22		.42/.54		.59/.74		.70/.87		.66/.84	
90			.12/.17		.37/.49		.54/.65		.64/.80		.59/.76	
100			.09/.11		.32/.42		.48/.59		.58/.74		.53/.69	
MAX. CONTINUOUS PRESSURE:	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar
MAX. INTERMITTENT PRESSURE:	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar	100 PSI	6.9 bar
VACUUM:	Flow @ 220v/50 - 230v/60 Hz		Flow @ 220v/50 - 230v/60 Hz		Flow @ 220v/50 - 230v/60 Hz		Flow @ 220v/50 - 230v/60 Hz		Flow @ 100v/50-60 Hz			
CFM @ IN. hg	LPM @ mbar (gauge)											
IN. hg	mbar (gauge)		CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM		
0	0		.68/.80	19.3/22.7	1.00/1.23	28.3/34.8	1.19/1.40	33.7/39.6	1.27/1.50	36.0/42.5	1.30/1.55	36.8/43.9
5	-100		.62/.74	18.3/21.6	.81/.96	25.1/30.3	1.00/1.17	30.5/35.8	1.22/1.43	35.1/41.3	1.12/1.33	33.8/40.2
10	-200		.38/.50	16.3/19.7	.61/.73	21.9/26.0	.76/.91	27.1/31.8	.81/.97	32.4/38.1	.85/1.04	30.3/36.2
15	-400		.26/.33	9.5/12.4	.42/.48	15.3/18.1	.51/.61	19.0/22.7	.55/.67	20.3/24.4	.61/.73	21.6/26.3
20	-600		.13/.16	5.4/6.7	.23/.27	9.0/10.4	.30/.33	11.2/13.0	.32/.38	12.0/14.5	.35/.39	13.3/15.4
25	-800		.02/.03	1.4/1.9	.07/.07	3.2/3.5	.10/.11	4.4/4.8	.09/.11	4.3/5.2		4.6/4.1
MAX. VACUUM:	26.0" hg	-880 mbar	27.0" hg	-914 mbar	27.5" hg	-931 mbar	27.5" hg	-931 mbar	27.5" hg	-931 mbar	27.5" hg	-931 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
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
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
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
MOTOR VOLTAGE/FREQUENCY:	220-240/50/1 - 230/60/1		220-240/50/1 - 230/60/1		220-240/50/1 - 230/60/1		220-240/50/1 - 230/60/1		100/50-60/1			
HORSEPOWER:	1/3		1/3		1/3		1/3		1/3			
MOTOR TYPE:	Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor			
CURRENT AT RATED LOAD (AMPS):	.8/.9		1.5/1.3		1.5/1.3		1.5/1.3		4.7/3.2			
POWER AT RATED LOAD (WATTS):	140/160		200/200		240/240		270/270		300/255			
STARTING CURRENT (LOCKED ROTOR AMPS):	3.9/3.8		3.9/3.8		3.9/3.8		3.9/3.8		12.0/11.0			
INSULATION CLASS:	B		B		B		B		B			
MIN. FULL LOAD SPEED (RPM):	1460/1760		1420/1700		1400/1700		1400/1700		1380/1720			
THERMAL PROTECTOR:	Yes		Yes		Yes		Yes		Yes			
CAPACITOR VALUE:	8 mfd		8 mfd		8 mfd		8 mfd		8 mfd			
NET WEIGHT:	13.0 lbs.	5.9 Kg	13.0 lbs.	5.9 Kg	13.75 lbs.	6.2 Kg	14.5 lbs.	6.6 Kg	14.5 lbs.	6.6 Kg		

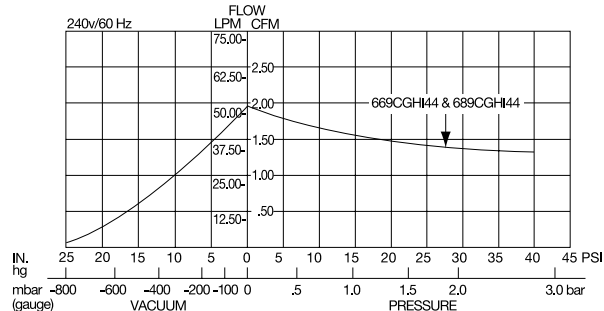
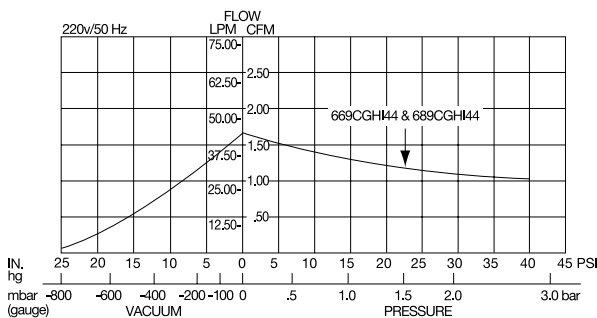
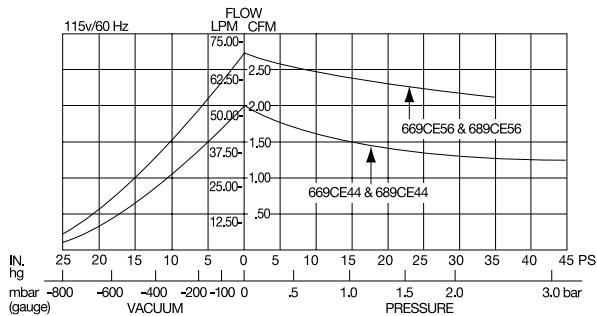
Note: 688 and 689 models include fan guard and cord standard. 668 and 669 models do not have fan guard or cord standard, these are options.



669 & 689 SERIES PERFORMANCE DATA:

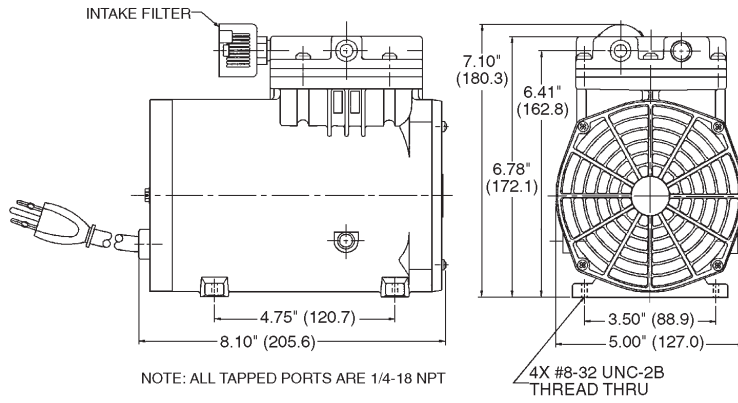
MODEL NUMBER:	STANDARD		STANDARD		STANDARD		
	669CE44 689CE44		669CGH144 689CGH144		669CE56 689CE56		
HEAD CONFIGURATION:	Pressure/Vacuum		Pressure/Vacuum		Pressure/Vacuum		
STROKE:	.440 Inches		.440 Inches		.564 Inches		
PRESSURE:	Flow @ 115v		Flow @ 220v/50Hz - 240v/60Hz		Flow @ 115v		
CFM @ PSI	LPM @ bar						
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM
0	0	2.00	56.6	1.65/1.94	46.7/54.9	2.70	76.5
5	.5	1.85	51.7	1.50/1.82	41.8/50.5	2.61	73.1
10	1.0	1.80	48.4	1.45/1.74	38.5/47.7	2.55	70.2
15	1.5	1.70	44.8	1.35/1.68	36.1/44.7	2.47	66.4
20	2.0	1.60	42.8	1.30/1.59	33.0/42.3	2.37	63.3
25	3.0	1.55	36.2	1.23/1.56	27.2/36.9	2.30	56.7
30		1.50		1.15/1.48		2.22	
35		1.40		1.08/1.39		2.14	
40		1.33		1.04/1.34			
45		1.26					
MAX. CONTINUOUS PRESSURE:	45 PSI	3.1 bar	40 PSI	2.8 bar	35 PSI	2.4 bar	
MAX. INTERMITTENT PRESSURE:	45 PSI	3.1 bar	40 PSI	2.8 bar	35 PSI	2.4 bar	
VACUUM:	Flow @ 115v		Flow @ 220v/50Hz - 240v/60Hz		Flow @ 115v		
CFM @ IN. hg	LPM @ mbar (gauge)						
IN. hg	mbar (gauge)	CFM	LPM	CFM	LPM	CFM	LPM
0	0	2.00	56.6	1.65/1.94	46.7/54.9	2.70	76.5
5	-100	1.55	49.1	1.23/1.45	39.7/46.7	1.72	60.1
10	-200	1.20	42.0	.92/1.08	33.2/39.1	1.35	46.8
15	-400	.80	29.8	.63/.74	23.1/27.0	.98	34.4
20	-600	.42	16.8	.30/.34	12.8/14.7	.59	21.7
25	-800	.13	5.9	.09/.10	4.2/4.9	.22	9.1
MAX. VACUUM:	27.0"hg	-914 mbar	27.0" hg	-914 mbar	28.5" hg	-965 mbar	
MAX. AMBIENT TEMPERATURE:	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	
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		220-240/50/1 230/60/1		115/60/1		
HORSEPOWER:	1/3		1/3		1/3		
MOTOR TYPE:	Permanent Split Capacitor		Permanent Split Capacitor		Permanent Split Capacitor		
CURRENT AT RATED LOAD (AMPS):	3.7		1.2/1.2		2.2		
POWER AT RATED LOAD (WATTS):	330		240/260		400		
STARTING CURRENT (LOCKED ROTOR AMPS):	9.4		3.9/3.8		9.4		
INSULATION CLASS:	B		B		B		
MIN. FULL LOAD SPEED (RPM):	1640		1400/1700		1660		
THERMAL PROTECTOR:	Yes		Yes		Yes		
CAPACITOR VALUE:	7 mfd		7 mfd		8 mfd		
NET WEIGHT:	11 lbs.	5.0 Kg	11 lbs.	5.0 Kg	13 lbs.	5.9 Kg	

Note: 688 and 689 models include fan guard and cord standard. 668 and 669 models do not have fan guard or cord standard, these are options.



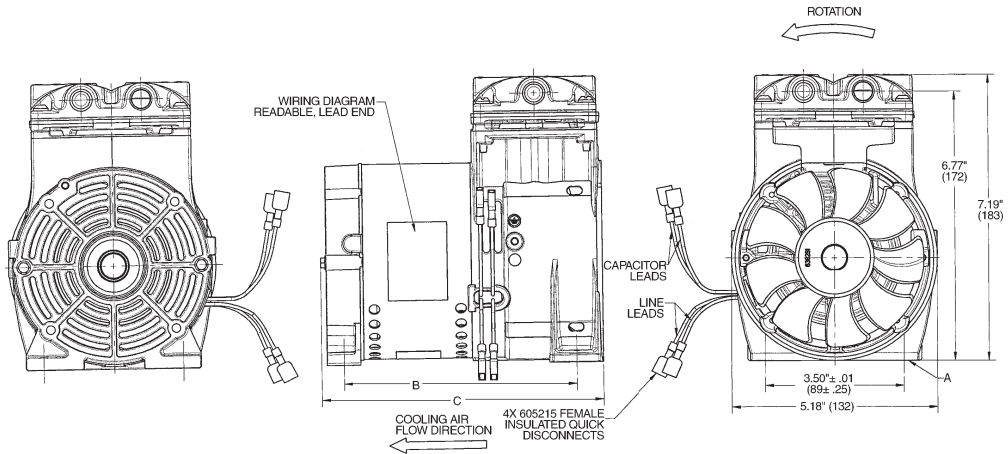
DIMENSIONS: Millimeters are in ()

607 CA & CD



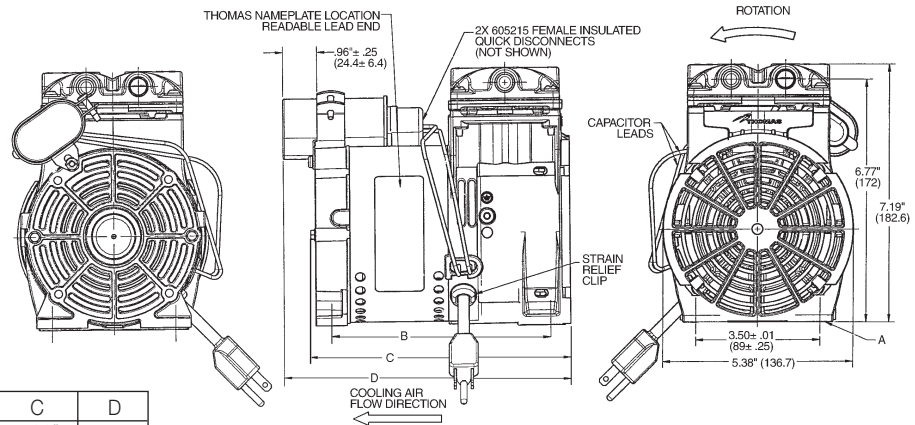
668

669



688

689



MODEL	A	B	C	D
668	#8-32 UNC-2B THREAD THRU	6.13" (156)	7.28" (185)	NA
688	#8-32 UNC-2B THREAD THRU	6.13" (156)	7.28" (185)	8.01" (203)
669	1/4-20 UNC-2B THREAD THRU	5.87" (149)	7.12" (181)	NA
689	1/4-20 UNC-2B THREAD THRU	5.87" (149)	7.12" (181)	8.01" (203)

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.