

DIAPHRAGM

Compressors and Vacuum Pumps

905/907/910/917 Series

MODELS:

Standard models available.

**905CA18, 905CD18, 907CDC18, 910CDC22,
917CA18, 917CD18**

Other models based on availability and minimum purchase.

FEATURES:

- Oil-less operation
- Permanently lubricated bearings
- Field service capability
- Stainless steel valves and aluminum valve plate
- Lightweight die cast aluminum head and diaphragm hold down plate
- Long-life diaphragm
- Inlet filter
- Balanced for smooth, low vibration operation (917 only)
- 6 ft. grounded cord and plug (905/917 only)
- 115v, UL recognized motor and thermal protector (905/917 only)
- Replaceable brushes (910 only)
- Approved, 220-240v/50Hz standard models.
(Consult factory for non-standard and TUV approved models.)
- Service Kit 650378

Consult factory for custom applications



905/917



907

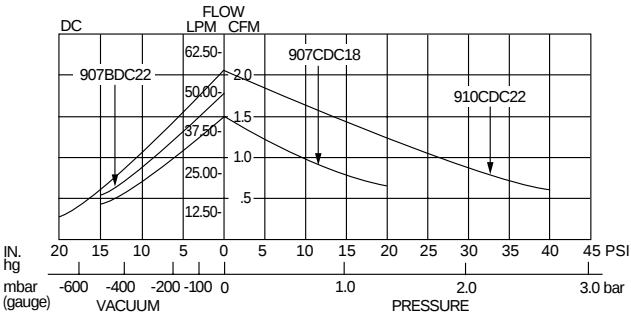
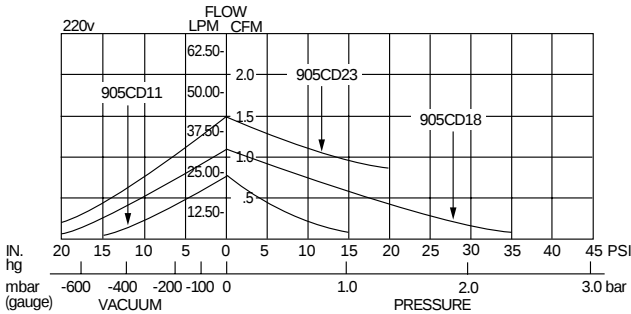
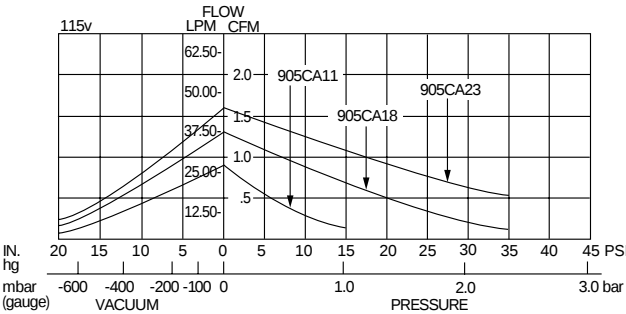


910

905 SERIES (AC) PERFORMANCE DATA:

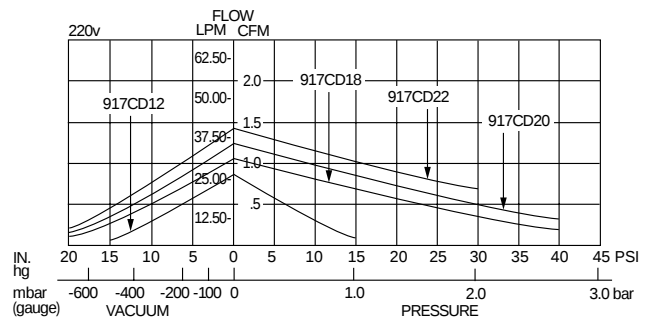
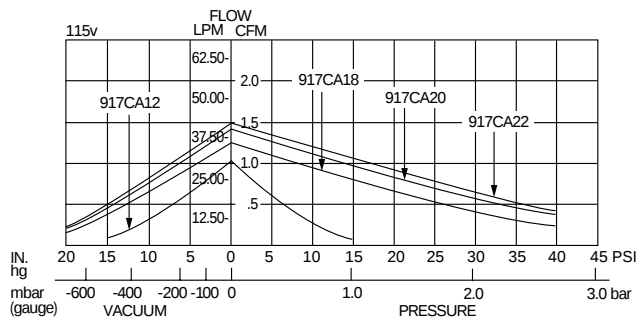
907/910 SERIES (DC)

						STANDARD		STANDARD						STANDARD				STANDARD	
MODEL NUMBER:		905CA11		905CD11		905CA18		905CD18		905CA23		905CD23		907CDC18		907BDC22		910CDC22	
HEAD CONFIGURATION:		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Vacuum Only		Pressure/ Vacuum	
STROKE:		.110 Inches		.110 Inches		.180 Inches		.180 Inches		.230 Inches		.230 Inches		.180 Inches		.220 Inches		.220 Inches	
PRESSURE:		Flow @ 115v		Flow @ 220v		Flow @ 115v		Flow @ 220v		Flow @ 115v		Flow @ 220v		Flow @ 12v				Flow @ 12v	
CFM @ PSI		LPM @ bar																	
PSI	bar	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM	CFM	LPM		CFM	LPM	
0	0	.91	25.8	.79	22.4	1.30	36.8	1.16	32.8	1.63	46.2	1.50	42.5	2.05	58.0		1.97	55.8	
5	.5	.60	13.2	.52	11.3	1.13	29.7	1.00	25.8	1.49	39.9	1.35	36.3	1.67	42.5		1.72	45.5	
10	1.0	.30	4.4	.25	3.3	.95	21.5	.80	17.8	1.31	32.8	1.20	30.2	1.30	27.3		1.47	37.0	
15	1.5	.14		.10		.74	14.7	.61	11.4	1.14	26.4	1.05	22.8	.93	18.4		1.29	29.7	
20	2.0					.58	8.0	.45	6.3	.99	20.6	.87		.72	10.9		1.10	23.7	
25	3.0					.41		.31		.83	9.9			.53			.95	10.4	
30	5.0					.25		.20		.70				.35			.79		
35	7.0					.13		.13		.57							.64		
40	10.0																.48		
MAX. CONT. PRESSURE:		15 PSI	1.0 bar	15 PSI	1.0 bar	20 PSI	1.4 bar	20 PSI	1.4 bar	15 PSI	1.0 bar	15 PSI	1.0 bar	30 PSI	2.1 bar		25 PSI	1.7 bar	
MAX. INTER. PRESSURE:		15 PSI	1.0 bar	15 PSI	1.0 bar	35 PSI	2.4 bar	35 PSI	2.4 bar	25 PSI	1.7 bar	20 PSI	1.4 bar	30 PSI	2.1 bar		40 PSI	2.8 bar	
VACUUM:		Flow @ 115v		Flow @ 220v		Flow @ 115v		Flow @ 220v		Flow @ 115v		Flow @ 220v		Flow @ 12v		Flow @ 12v		Flow @ 12v	
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	.91	25.8	.79	22.4	1.30	36.8	1.16	32.8	1.63	46.2	1.50	42.5	2.05	58.0	1.80	60.0	1.97	55.8
5	-100	.55	19.7	.42	16.2	.89	30.0	.77	26.3	1.24	39.6	1.00	34.1	1.25	44.6	1.34	43.3	1.53	48.4
10	-200	.28	14.2	.22	10.9	.64	23.9	.53	20.6	.84	33.1	.74	27.0	.82	33.1	.88	35.6	1.05	40.9
15	-400	.06	5.7	.05	4.5	.37	15.4	.30	12.6	.49	20.2	.46	18.1	.48	19.7	.56	21.6	.65	25.6
20	-600					.13	6.8	.08	5.1	.23	9.9	.21	9.2		8.3		10.9	.28	12.7
MAX. VACUUM:		16.1"hg	-550 mbar	16.2" hg	-550 mbar	22.4" hg	-760 mbar	22.5" hg	-763 mbar	25" hg	-836 mbar	25" hg	-836 mbar	22.2"hg	-751mbar	24.8"hg	-841mbar	24.3"hg	-824mbar
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
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
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	5 PSI	.3 bar		20 PSI	1.4 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	21.9"hg	-741mbar	24.1"hg	-817mbar	24.3"hg	-824mbar
MOTOR VOLTAGE/ FREQUENCY:		115/60/1		220/50/1		115/60/1		220/50/1		115/60/1		220/50/1		12v DC		12v DC		12v DC	
HORSEPOWER:		1/15		1/15		1/15		1/15		1/10		1/10		1/10		1/10		1/6	
MOTOR TYPE:		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Perm. Magnet		Perm. Magnet		Perm. Magnet	
CURRENT AT RATED LOAD (AMPS):		2.20		1.10		2.40		1.20		3.40		1.40		10.8		7.7		12.8	
POWER AT RATED LOAD (WATTS):		116		116		160		157		226		204							
STARTING CURRENT (LOCKED ROTOR, AMPS):		3.5		1.74		3.5		1.74		4.5		2.1		40.0		20.0		96.6	
INSULATION CLASS:		B		B		B		B		B		B		A		A		B	
MIN. FULL LOAD SPEED (RPM):		1700		1400		1550		1150		1450		1125		2680		2504		2160	
THERMAL PROTECTOR:		Yes		Yes		Yes		Yes		Yes		Yes		No		No		No	
NET WEIGHT:		9.0 lbs.	4.0 kg	9.0 lbs.	4.0 kg	9.0 lbs.	4.0 kg	9.0 lbs.	4.0 kg	9.0 lbs.	4.0 kg	9.0 lbs.	4.0 kg	6.5 lbs.	2.9 kg	6.5 lbs.	2.9 kg	8.25 lbs.	3.7 kg



917 SERIES (Heavy Duty) PERFORMANCE DATA:

		STANDARD				STANDARD											
MODEL NUMBER:		917CA12		917CD12		917CA18		917CD18		917CA20		917CD20		917CA22		917CD22	
HEAD CONFIGURATION:		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum		Pressure/ Vacuum	
STROKE:		.120 Inches		.120 Inches		.180 Inches		.180 Inches		.200 Inches		.200 Inches		.220 Inches		.220 Inches	
PRESSURE:		Flow @ 115v		Flow @ 220v		Flow @ 115v		Flow @ 220v		Flow @ 115v		Flow @ 220v		Flow @ 115v		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	1.05	29.7	.86	24.4	1.24	35.1	1.15	32.6	1.41	39.9	1.20	34.0	1.50	42.5	1.41	39.9
5	.5	.70	15.0	.58	12.5	1.11	29.5	1.00	26.7	1.28	34.3	1.06	28.4	1.39	37.6	1.25	33.5
10	1.0	.32	4.7	.27	3.8	.96	23.4	.87	20.8	1.13	28.2	.93	23.3	1.25	31.6	1.10	27.6
15	1.5	.15		.12		.81	17.1	.72	15.8	.98	23.3	.81	19.3	1.10	25.6	.96	21.5
20	2.0					.65	12.9	.61	11.0	.88	17.7	.73	14.7	.95	20.3	.82	14.5
25	3.0					.52	4.6	.46	4.2	.72	8.2	.59	6.1	.82	9.6	.65	
30	5.0					.44		.37		.60		.50		.69			
35	7.0					.35		.30		.51		.42		.56			
40	10.0					.24		.21		.38		.30		.43			
MAX. CONT. PRESSURE:		15 PSI	1.0 bar	15 PSI	1.0 bar	30 PSI	2.1 bar	30 PSI	2.1 bar	20 PSI	1.4 bar	20 PSI	1.4 bar	15 PSI	1.0 bar	15 PSI	1.0 bar
MAX. INTER. PRESSURE:		15 PSI	1.0 bar	15 PSI	1.0 bar	40 PSI	2.8 bar	40 PSI	2.8 bar	30 PSI	2.1 bar	40 PSI	2.8 bar	40 PSI	2.8 bar	15 PSI	1.0 bar
VACUUM:		Flow @ 115v		Flow @ 220v		Flow @ 115v		Flow @ 220v		Flow @ 115v		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
0	0	1.05	29.7	.86	24.4	1.24	35.1	1.15	32.6	1.41	39.9	1.20	34.0	1.50	42.5	1.41	39.9
5	-100	.59	22.0	.50	18.3	.89	29.3	.73	25.5	.99	32.9	.82	27.6	1.11	36.0	.97	32.6
10	-200	.36	15.5	.29	13.1	.64	23.9	.53	19.6	.71	26.6	.59	22.0	.80	29.8	.70	26.1
15	-400	.12	7.7	.09	6.2	.36	15.2	.33	13.0	.42	17.1	.35	14.2	.49	19.5	.44	17.2
20	-600					.16	7.1	.11	6.0	.19	8.4	.15	6.8	.19	9.3	.19	8.6
MAX. VACUUM:		18.3" hg	-620 mbar	18.2" hg	-617 mbar	23.8" hg	-807 mbar	23.8" hg	-807 mbar	24.3" hg	-824 mbar	24.3" hg	-824 mbar	25.0" hg	-836 mbar	23.1" hg	-783 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
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
MAX. RESTART PRESS.:		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		220/50/1		115/60/1		220/50/1		115/60/1		220/50/1		115/60/1		220/50/1	
HORSEPOWER:		1/8		1/8		1/8		1/8		1/8		1/8		1/8		1/8	
MOTOR TYPE:		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole		Shaded Pole	
CURRENT AT RATED LOAD (AMPS):		2.90		1.10		3.00		1.30		3.20		1.30		3.30		1.30	
POWER AT RATED LOAD (WATTS):		154		125		191		171		210		172		218		173	
STARTING CURRENT (LOCKED ROTOR, AMPS):		5.5		2.1		5.5		2.1		5.5		2.1		5.5		2.1	
INSULATION CLASS:		B		B		B		B		B		B		B		B	
MIN. FULL LOAD SPEED (RPM):		1725		1415		1625		1250		1605		1220		1515		1170	
THERMAL PROTECTOR:		Yes		Yes		Yes		Yes		Yes		Yes		Yes		Yes	
NET WEIGHT:		11 lbs.	4.9 kg	11 lbs.	4.9 kg	11 lbs.	4.9 kg	11 lbs.	4.9 kg	11 lbs.	4.9 kg	11 lbs.	4.9 kg	11 lbs.	4.9 kg	11 lbs.	4.9 kg

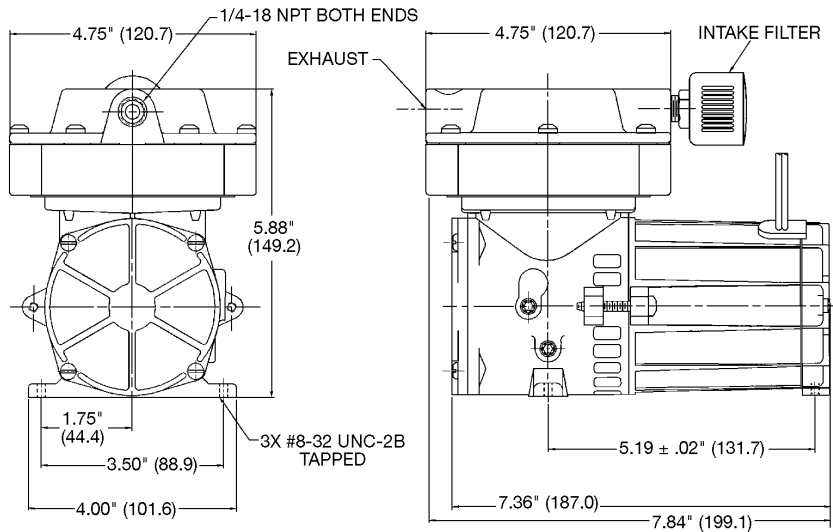


The information presented in this material is based on technical data and test results of nominal units. It is believed to be accurate and reliable and is offered as an aid to help in the selection of Thomas products. It is the responsibility of the user to determine the suitability of the product for 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.

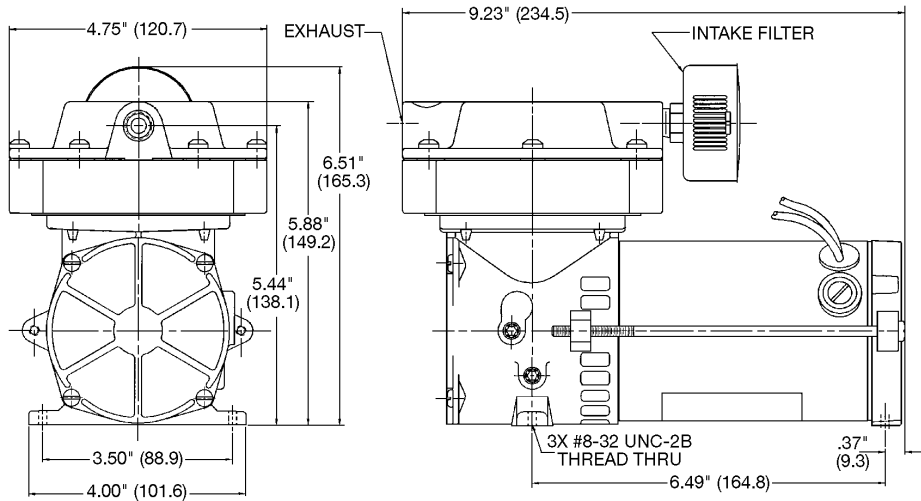
Note: Models pictured are representative of the series and do not represent a specific model number. Consult factory for detailed physical description.

DIMENSIONS: Millimeters are in ()

907 DC



910 DC



905/917

