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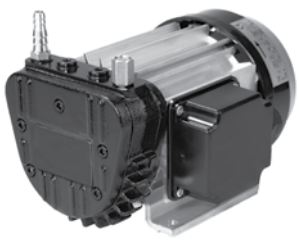
THOMAS®
An Ingersoll Rand Business

COMPRESSORS, VACUUM & LIQUID PUMPS

Global Solutions



Pump and Compressor Solutions for OEMs Worldwide

As the leader in providing fluidic solutions to Original Equipment Manufacturers, Thomas continues to develop new products to meet the requirements of evolving markets and applications. Our wide range of products, unique technologies, and global manufacturing capabilities provide significant benefits to our customers.

These distinctions coupled with innovative research and development programs, qualify Thomas as the premier resource utilized by OEMs throughout the world.

Performance Range

The extensive product line presented in this catalog offers custom solutions configured to meet specific requirements.

Flow – The flow range extends to 22.1 cfm (625 l/min).
Pressure – The pressure range extends to 175 psi (12 bar).
Vacuum – The vacuum range extends to 99% of local barometer (10 mbar abs).
Liquid – Thomas pumps cover a flow range to 3000 ml/min and pressures to 60 m H_2O. These pumps are self-priming and can also be used for dosing applications.

Technology Selection

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Series Selection

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Model Selection

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Technology Selection

Operating Principles for Compressors & Vacuum Pumps

WOB-L® PISTON

Oil-less WOB-L® piston pumps and compressors. Best choice for pressure and/or vacuum applications that require compact, lightweight designs and high performance piston seals.
Free flow: to 9.2 cfm (259 l/min)
Pressure: to 175 psi (12.1 bar)
Vacuum: to 99% local barometer

ARTICULATED PISTON

Oil-less articulating piston pumps and compressors. Well suited for applications that require high pressures with proportionately higher flow capability.
Free flow: to 4.3 cfm (121,7 l/min)
Pressure: to 175 psi (12.1 bar)

DIAPHRAGM

Oil-less diaphragm pumps and compressors. Durable diaphragm design provides high efficiency, low sound level and good air tightness. Adapts well to different gases.
Free flow: to 3.2 cfm (91 l/min)
Pressure: to 44 psi (3 bar)
Vacuum: to 99% local barometer

ROTARY VANE

Oil-less and self-lubricating rotary vane pumps and compressors. Low vibration, nearly pulsation free, compact and in some cases reversible flow operation.
Free flow: to 7 cfm (200 lpm)
Pressure: to 14.5 psi (1 bar)
Vacuum: to 85% local barometer

LINEAR

Oil-less linear diaphragm pumps and compressors. Quiet operation, lower pulsation, higher efficiency and fewer wearing parts.
Free flow: to 22.1 cfm (625 l/min)
Pressure: to 6.5 psi (450 mbar)
Vacuum: to 30% local barometer

Operating Principles for Liquid Pumps

DIAPHRAGM

Liquid diaphragm pumps. Self priming, dry running and suitable for continuous operation. Drive available for all required AC and DC voltages.
Free flow max: 1800 ml/min
Suction height: 6 m H_2O
Pressure height: 60 m H_2O

LINEAR

Liquid linear diaphragm pumps. Very long life and low sound level. For applications with low pressure requirements.
Free flow max: 300 ml/min
Suction height: 3.0 m H_2O
Pressure height: 9.0 m H_2O

PERISTALTIC

Liquid peristaltic pumps. Low vibration, nearly pulsation free and of compact design. Reversible operation. Adjustable through supply voltage.
Free flow max: 3000 ml/min
Suction height: 9.75 m H_2O
Pressure height: 30 m H_2O

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Series Selection

WOB-L® Piston

Page 10

FREEFLOW cfm	FREEFLOW l/min	VOLTAGE	MODEL SERIES	MAXIMUM VACUUM = mbar	MAXIMUM VACUUM = in. Hg	MAXIMUM PRESSURE = bar	MAXIMUM PRESSURE = psi
0.19	5.4	DC or BLDC	8003	-800	23.6	2.0	29.0
0.25	7.2	AC or DC	8005	-780	23.0	2.5	36.0
0.476	13.5	BLDC	2109Z	0	0	2.1	30.0
0.49	14.0	AC or DC	8009	0	0	7.0	102.0
0.54	15.3	DC	135	0	0	6.0	87.0
0.56	15.8	AC or DC	8006	-800	23.6	3.0	44.0
0.74	20.8	BLDC	230Z	0	0	2.1	30.0
0.85	24.0	DC	309	-900	26.6	11.0	160.0
0.86	24.5	DC	8009Z	0	0	7.0	102.0
0.87	24.6	BLDC	415Z1	-922	24.3	6.9	100.0
0.9	25.5	AC or DC	405/415	-860	25.4	6.9	100.0
1.0	28.3	BLDC	250Z	-820	24.2	2.1	30.0
1.1	31.0	AC or DC	8006Z	-950	28.0	0.0	0.0
1.1	32.3	BLDC	2220Z	0	0	2.1	30.0
1.2	34.0	BLDC	2250Z	-870	25.9	2.1	30.0
1.2	34.0	AC	380	-890	26.2	6.9	100.0
1.2	34.5	AC	617	-910	26.8	6.9	100.0
1.3	36.0	DC	319	-940	27.8	8.3	120.0
1.6	45.3	AC	668	-921	27.2	6.9	100.0
1.8	50.1	BLDC	260Z	-860	25.5	2.1	30.0
2.35	66.6	BLDC	380Z	-921	27.2	6.9	100.0
2.4	68.0	AC	660	-910	27.0	3.4	50.0
2.9	82.1	AC or BLDC	2450	0	0	2.1	30.0
3.1	89.2	AC	2668/2688	-980	29.0	12.1	175.0
3.14	88.9	BLDC	2380Z1	-895	26.4	6.9	100.0
3.2	90.6	AC	2380	-920	27.5	6.9	100.0
3.4	96.3	AC	2505	-885	26.1	6.9	100.0
3.4	95.8	BLDC	2320Z1	-900	26.6	4.1	60.0
3.8	107.6	AC	2685	0	0	8.3	120.0
4.5	127.0	AC	2680	-920	27.2	6.9	100.0
4.6	130.3	AC	2660	-980	29.0	3.1	45.0
7.5	212.4	AC	2755	-980	29.0	12.1	175.
7.5	212.4	AC	2775	-900	26.6	6.9	100.0
9.1	257.7	BLDC	2775Z1	-947	28.0	12.1	175.0

Series Selection

Articulating Piston

Page 16

FREEFLOW cfm	FREEFLOW l/min	VOLTAGE	MODEL SERIES	MAXIMUM VACUUM = mbar	MAXIMUM VACUUM = in. Hg	MAXIMUM PRESSURE = bar	MAXIMUM PRESSURE = psi
4.3	121.7	AC or DC	TA	0	0	12.1	175.0

in. Hg 30 25 20 15 10 5 0 | 0 25 50 75 100 125 150 175 200 psi
mbar 1000 800 600 400 200 | 2 4 6 8 10 12 14 bar

Diaphragm

Page 18

FREEFLOW cfm	FREEFLOW l/min	VOLTAGE	MODEL SERIES	MAXIMUM VACUUM = mbar	MAXIMUM VACUUM = in. Hg	MAXIMUM PRESSURE = bar	MAXIMUM PRESSURE = psi
-	0.7	DC	1014	-470	13.9	0.6	8.4
-	0.8	DC or BLDC	2002	-520	15.3	0.6	9.0
-	1.0	DC or BLDC	3003	-480	14.2	1.0	14.5
-	1.0	DC	3014	-650	19.2	0.8	12.2
0.2	5.5	DC or BLDC	1410	-750	22.0	1.9	27.6
0.3	8.0	DC	1610	-900	26.6	2.0	29.0
0.3	9.0	DC or BLDC	7006	-850	25.1	2.5	36.3
0.4	11.0	DC or BLDC	1420	-900	26.6	1.9	27.6
0.4	11.0	DC	7011	-900	26.6	2.3	33.3
0.6	16.5	DC	1620	-870	25.7	1.8	26.1
0.6	18.0	DC or BLDC	7006Z	-950	25.1	2.5	36.3
0.8	24.0	DC	7011Z	-980	28.9	2.5	33.3
0.8	22.0	AC	8111	-972	28.7	0	0
1.2	35.1	AC	927	-810	23.8	2.1	30.0
1.5	43.0	AC	8311	-982	29.0	0	0
1.37	39.0	AC	8221	-960	23.3	0	0
1.4	39.6	AC, DC or BLDC	107	-800	23.0	2.4	35.0
1.4	39.5	DC	007	-850	25.0	1.0	15.0
1.6	46.7	AC	2107	-960	28.3	1.4	20.0
2.0	55.8	DC	910	-820	24.3	1.7	25.0
2.1	59.5	DC or BLDC	907	-840	24.8	2.1	30.0
2.5	72.0	AC	8211	-1002	29.6	0	0
3.2	90.6	DC	2907	-810	24.0	1.0	15.0

in. Hg 30 25 20 15 10 5 0 | 0 10 20 30 40 50 psi
mbar 1000 800 600 400 200 | 0.5 1.0 1.5 2.0 2.5 3.0 3.5 bar

Series Selection

Rotary Vane

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FREEFLOW cfm	FREEFLOW l/min	VOLTAGE	MODEL SERIES	MAXIMUM VACUUM = mbar	MAXIMUM VACUUM = in. Hg	MAXIMUM PRESSURE = bar	MAXIMUM PRESSURE = psi
0.1	1.6	DC or BLDC	G/01	-290	8.6	0.3	4.1
0.1	2.2	DC	G/01-K	-70	2.1	0.1	1.2
0.1	3.7	DC or BLDC	G/02	-370	10.9	0.4	5.4
0.2	6.8	DC	G/04	-260	7.7	0.3	3.8
0.3	7.5	DC	G/045	-750	20.7	0.75	10.9
0.4	11.0	DC	G/09	-350	10.3	0.4	5.4
0.6	15.5	DC	G/08	-830	24.5	1.4	20.3
0.7	21.0	DC	G/07	-770	22.7	1.4	20.3
1.3	36.0	DC	G/08-T	-930	25.0	1.4	20.3
2.5	70.0	AC or DC	VTE/DTE3	-850	25.1	1.0	14.5
4.2	120.0	AC or DC	VTE/DTE6	-850	25.1	1.0	14.5
5.6	160.0	AC or DC	VTE/DTE8	-850	25.1	1.0	14.5
7.1	200.0	AC or DC	VTE/DTE10	-850	25.1	1.0	14.5

Series Selection

Linear

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FREEFLOW cfm	FREEFLOW l/min	VOLTAGE	MODEL SERIES	MAXIMUM VACUUM = mbar	MAXIMUM VACUUM = in. Hg	MAXIMUM PRESSURE = mbar	MAXIMUM PRESSURE = psi
-	1.5	AC or DC	LMG	-200	5.9	450	6.5
0.8	22.0	AC or DC	LM	-350	10.3	400	5.8
2.1	60.3	AC or DC	6025SE	-270	8.0	280	4.0
4.0	115.0	AC	YP	-200	5.9	200	2.9
6.7	190.0	AC	AP	0	0	300	4.4
10.6	300.0	AC	LP	0	0	300	4.4
22.1	625.0	AC	LW	0	0	250	3.6

Series Selection

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Liquid Diaphragm

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FREE FLOW ml/min LIQUID	FREE FLOW ml/min GAS	VOLTAGE	MODEL	SUCTION HEIGHT ■ = mbar ■ = in. Hg	PRESSURE HEIGHT ■ = mbar ■ = psi
180	-	12/24 V DC	1210	600 17.77	1000 14.50
250	2300	12/24 V DC	6311	300 8.88	4000 58.02
550	5000	12/24 V DC	6313	700 20.73	1000 14.50
850	–	12/24 V DC	6410	300 8.88	1000 14.50
1750	–	12/24 V DC	6323	700 20.73	1000 14.50
1800	–	12/24 V DC	6420	300 8.88	1000 14.50

Liquid Linear

Page 30

FREE FLOW ml/min	VOLTAGE	MODEL SERIES	SUCTION HEIGHT mbar	PRESSURE HEIGHT mbar
300	12/24 V AC 115/230 V AC	LMF	300	900

Liquid Peristaltic

Page 30

FREE FLOW ml/min	VOLTAGE	MODEL SERIES	SUCTION HEIGHT mbar	PRESSURE HEIGHT mbar
5 - 50	230 V AC	SR18	800	1000
0.5 - 80	12/24 V DC	SR10/30	800	800
52 - 220	12/24 V DC	SR10/50	800	800
0.1 - 746	12/24 V DC 115/230 V AC	SR25	800	1000
0 - 60	24 V DC	ETL200	900	2000
0 - 3000	NA	ETL500	975	3000

Model Selection

8003 BLDC

8009 DC

115ADC

135SDC

230Z

3D19

380Z1

WOB-L® Piston

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ bar								MAXIMUM PRESSURE bar	
	VOLTAGE	TYPE*	0.0	0.5	1.0	1.5	2.0	3.0	5.0	7.0	CONTINUOUS	INTERMITTENT
8003D	12,24	PM	4.3	3.1	2.1	1.3	-	-	-	-	1.0	2.0
8003ZDP	12	PM	5.4	2.8	1.6	0.8	-	-	-	-	0.3	2.0
8003V	12,24	PM	-	-	-	-	-	-	-	-	-	-
8003ZVR	12	PM	-	-	-	-	-	-	-	-	-	-
8003ZVP	12	PM	-	-	-	-	-	-	-	-	-	-
8005D	12,24	PM	7.2	5.7	4.3	3.2	2.4	-	-	-	1.5	2.5
8005V	12,24	PM	-	-	-	-	-	-	-	-	-	-
8005V	230/50/1	SP	-	-	-	-	-	-	-	-	-	-
8006D	12,24	PM	15.8	12.2	8.7	6.9	4.8	2.9	-	-	1.0	3.0
8006V	12,24	PM	-	-	-	-	-	-	-	-	-	-
8006V	230/50/1	SP	-	-	-	-	-	-	-	-	-	-
8006ZVP	12,24	PM	-	-	-	-	-	-	-	-	-	-
8009D	12,24	PM	14.0	10.8	9.8	9.3	8.7	7.6	5.5	2.5	1.0	7.0
8009D	230/50/1	PSC	11.8	10.4	9.4	8.5	7.6	6.2	4.2	2.9	1.0	7.0
8009ZD	24	PM	24.5	21.6	19.1	17.2	15.3	13.4	10.2	7.0	1.0	7.0
8009ZD	230/50/1	PSC	22.4	19.9	17.8	16.1	14.4	11.9	8.2	5.4	1.0	7.0

*PM = Permanent Magnet, SP = Shaded Pole, PSC = Permanent Split Capacitor
Note: Minimum release quantities or regional availability may apply. Consult factory.

WOB-L® Piston

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi								MAXIMUM PRESSURE psi	
	VOLTAGE	TYPE*	0	5	10	20	40	60	80	100	CONTINUOUS	INTERMITTENT
135ADC56/	12 or 24	PM	0.54	0.51	0.48	0.42	0.38	0.27	0.22	0.17	-	87.0
135SDC56/	12 or 24	PM	0.54	0.51	0.48	0.42	0.38	0.27	0.22	0.17	-	87.0
230ZA30/12	12	BLDC	0.74	0.57	0.54	0.46	-	-	-	-	30.0	30.0
250ZC35/24	24	BLDC	1.00	0.90	0.86	0.79	-	-	-	-	30.0	30.0
260ZC35/24	24	BLDC	1.77	1.62	1.49	1.23	-	-	-	-	30.0	30.0
309CDC56/12	12	PM	0.85	0.82	0.73	0.70	0.60	0.53	0.45	0.42	-	160.0
309DDC56/12	12	PM	0.81	0.82	0.73	0.70	0.61	0.54	0.45	0.43	-	134.0
3191250IRBLSCE	12	PM	1.25	1.20	1.15	1.05	0.90	0.79	0.71	0.65	-	120.0
380CE32	115/60/1	PSC	1.20	1.15	1.10	0.98	0.78	0.60	0.45	0.30	100.0	100.0
380CGHI32	230/50/60/1	PSC	1.20	1.15	1.10	0.98	0.78	0.60	0.45	0.30	100.0	100.0
380CS32	100/50/60/1	PSC	1.20	1.15	1.10	.0.98	0.78	0.60	-	-	60.0	60.0
380Z1C32/	24 or 48	BLDC	1.55	1.48	1.42	1.31	1.08	0.86	0.66	0.47	100.0	100.0
380Z1B53/	24 or 48	BLDC	-	-	-	-	-	-	-	-	-	-
3D191250IRSLSCE	12	PM	1.27	1.22	1.18	1.09	0.93	0.83	0.73	0.68	-	120.0
405AA38	115/60/1	SP	0.29	0.27	0.24	0.17	-	-	-	-	20.0	40.0
405AD38	220/50/1	SP	0.26	0.24	0.19	0.17	0.14	-	-	-	20.0	40.0
405ADC38/	12 or 24	PM	0.79	0.77	0.75	0.71	0.56	0.38	0.33	0.24	100.0	100.0
415CDC30/	12 or 24	PM	0.92	0.87	0.81	0.71	0.56	0.44	0.34	0.25	100.0	100.0
415Z1C3624	24	BLDC	0.87	0.81	0.76	0.67	0.53	0.42	0.33	0.23	100.0	100.0

*PM = Permament Magnet, SP = Shaded Pole, PSC = Permanent Splt Capacitor , BLDC=Brushless DC
Note: Minimum release quantities or regional availability may apply. Consult factory.
Note: 50/60 Hz voltage - flow values listed at 60 Hz.

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Model Selection

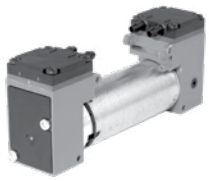
WOB-L® Piston

Vacuum

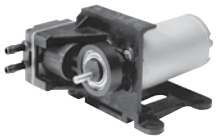
MODEL	MOTOR CAPACITY		FLOW l/min @ mbar						MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	-100	-200	-400	-600	-800	% local barometer	mm	kg
8003D	12, 24	-	-	-	-	-	-	-	-	54 x 30 x 82	0.19
8003ZDP	12	PM	-	-	-	-	-	-	-	53 x 30 x 126	0.35
8003V	12,24	PM	4.3	3.5	2.8	1.5	0.2	-	65%	54 x 30 x 82	0.19
8003ZVR	12	PM	2.9	2.5	2.0	1.2	0.6	-	80%	53 x 30 x 126	0.35
8003ZVP	12	PM	5.4	3.6	2.4	1.4	-	-	59%	53 x 30 x 126	0.35
8005D	12,24	PM	-	-	-	-	-	-	-	75 x 96 x 118	1.1
8005V	12,24	PM	7.2	6.0	4.8	3.0	1.4	-	78%	75 x 96 x 118	1.1
8005V	230/50/1	SP	4.8	4.0	3.2	1.9	0.6	-	73%	75 x 106 x 110	1.1
8006D	12,24	PM	-	-	-	-	-	-	-	100 x 71 x 146	1.2
8006V	12,24	PM	15.8	13.4	11.1	6.2	3.6	-	80%	100 x 71 x 146	1.2
8006V	230/50/1	SP	14.2	12.0	9.7	6.0	3.0	-	80%	110 x 71 x 131	1.5
8006ZVP	12,24	PM	31.0	25.0	20.0	11.7	5.1	-	80%	99 x 63 x 191	0.9
8009D	12,24	PM	-	-	-	-	-	-	-	104 x 63 x 145	1.1
8009D	230/50/1	PSC	-	-	-	-	-	-	-	108 x 91 x 153	1.7
8009ZD	24	PM	-	-	-	-	-	-	-	105 x 70 x 177	2.1
8009ZD	230/50/1	PSC	-	-	-	-	-	-	-	108 x 110 x 195	2.5

*PM = Permanent Magnet, SP = Shaded Pole, PSC = Permanent Split Capacitor
Note: Minimum release quantities or regional availability may apply. Consult factory.

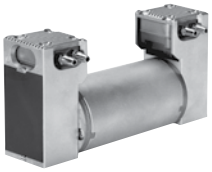
8003 Z



8005 DC



8009 ZDC



WOB-L® Piston

Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg						MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	5	10	15	20	25	% local barometer	in	lb
135ADC56/	12 or 24	PM	-	-	-	-	-	-	-	3.60 x 1.66 x 4.34	1.2
135SDC56/	12 or 24	PM	-	-	-	-	-	-	-	4.13 x 1.66 x 4.34	1.3
230ZA30/12	12	BLDC	-	-	-	-	-	-	-	3.80 x 2.64 x 3.63	1.2
250ZC35/24	24	BLDC	1.00	0.80	0.59	0.38	0.18	-	82%	4.54 x 3.02 x 4.14	2.4
260ZC35/24	24	BLDC	1.77	1.30	0.94	0.60	0.26	0.03	87%	4.63 x 3.02 x 4.14	2.8
309CDC56/12	12	PM	0.75	0.61	0.48	0.34	0.21	0.09	91%	6.14 x 4.00 x 7.65	5.1
309DDC56/12	12	PM	-	-	-	-	-	-	-	6.79 x 5.26 x 9.08	6.4
3191250IRBLSCE	12	PM	1.25	0.84	0.62	0.43	0.27	0.07	93%	6.14 x 4.00 x 7.46	5.1
380CE32	115/60/1	PSC	1.20	0.97	0.75	0.52	0.29	0.06	89%	6.73 x 5.14 x 6.99	9.7
380CGHI32	230/50/60/1	PSC	1.20	0.97	0.75	0.52	0.29	0.06	89%	6.73 x 5.14 x 8.40	9.95
380CS32	100/50/60/1	PSC	1.20	0.97	0.75	0.52	0.29	0.06	89%	6.73 x 5.14 x 8.40	9.95
380Z1C32/	24 or 48	BLDC	1.54	1.24	0.94	0.65	0.37	0.09	88%	6.62 x 5.34 x 6.94	7.16
380Z1B53/	24 or 48	BLDC	2.35	1.85	1.4	0.98	0.56	0.16	91%	6.64 x 5.34 x 6.94	7.2
3D191250IRSLSCE	12	PM	-	-	-	-	-	-	-	6.82 x 5.26 x 9.12	6.4
405AA38	115/60/1	SP	-	-	-	-	-	-	-	5.30 x 4.25 x 6.74	5.5
405AD38	230/50/1	SP	-	-	-	-	-	-	-	5.30 x 4.25 x 6.74	5.5
405ADC38/	12 or 24	PM	-	-	-	-	-	-	-	5.30 x 4.26 x 7.29	4.3
415CDC30/	12 or 24	PM	0.92	0.75	0.54	0.34	0.20	-	84%	5.35 x 4.25 x 7.29	5.0
415Z1C36/24	24	BLDC	0.82	0.64	0.46	0.29	0.13	-	24.3	5.33 x 5.14 x 6.01	4.6

*PM = Permament Magnet, SP = Shaded Pole, PSC = Permanent Splt Capacitor , BLDC=Brushless DC
Note: Minimum release quantities or regional availability may apply. Consult factory.
Note: 50/60 Hz voltage - flow values listed at 60 Hz.

260Z

319

415Z1

Model Selection

2109Z

2250Z

2380

2380Z

2450

WOB-L® Piston

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi								MAXIMUM PRESSURE psi	
	VOLTAGE	TYPE*	0	5	10	20	40	60	80	100	CONTINUOUS	INTERMITTENT
617CA22	115/60/1	SP	0.78	0.74	0.69	0.59	0.42	0.31	0.18	0.07	100.0	100.0
617CA32	115/60/1	SP	1.22	1.19	1.10	0.97	0.74	0.56	-	-	50.0	60.0
617CD22	220/50/1	SP	0.69	0.65	0.59	0.50	0.35	0.25	0.17	0.10	100.0	100.0
617CD32	220/50/1	SP	1.01	0.97	0.91	0.80	0.59	-	-	-	40.0	40.0
60E48XNTLSXX	115/60/1	PSC	2.40	2.31	2.20	2.01	1.65	-	-	-	45.0	45.0
660N48XNTLSXX	220-240/50/60/1	PSC	2.40	2.31	2.20	2.01	1.65	-	-	-	45.0 (50Hz), 50.0 (60Hz)	45.0 (50Hz), 50.0 (60Hz)
660S48XNTLSXX	100/50/60/1	PSC	2.40	2.31	2.20	2.01	1.65	-	-	-	30.0 (50Hz), 50.0 (60Hz)	30.0 (50Hz), 50.0 (60Hz)
668E44XNTLSXX	115/60/1	PSC	1.61	1.56	1.52	1.39	1.19	1.01	0.84	0.71	100.0	100.0
668N44XNTLSXX	220-240/50/60/1	PSC	1.61	1.56	1.52	1.39	1.19	1.01	0.84	0.71	100.0	100.0
668S44XNTLSXX	100/50/60/1	PSC	1.61	1.56	1.52	1.39	1.19	1.01	0.84	0.71	100.0	100.0
2109ZA26/12M	12	BLDC	0.47	0.44	0.41	0.36	-	-	-	-	30.0	30.0
2220ZA30/12M	12	BLDC	1.14	1.09	1.06	1.00	-	-	-	-	30.0	30.0
2250ZC35/24	24	BLDC	1.15	0.97	0.89	0.82	-	-	-	-	30.0	30.0
2320Z1C36	24 or 48	BLDC	3.38	3.25	3.12	2.85	2.32	1.80	-	-	60.0	60.0
2320Z1B36	24 or 48	BLDC	-	-	-	-	-	-	-	-	-	-
2380BES44	115/60/1, 100/50/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2380BGUU44	230/60/1, 230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
2380CE32	115/60/1	PSC	2.30	2.19	2.04	1.84	1.48	1.19	0.89	0.61	100.0	100.0
2380CS32	100/50/60/1	PSC	2.30	2.19	2.04	1.84	1.48	1.19	0.89	0.61	100.0	100.0
2380CUU32	230/50/1	PSC	2.00	1.88	1.71	1.58	1.24	0.96	0.71	0.47	100.0	100.0
2380CE38	115/60/1	PSC	2.70	2.62	2.45	2.20	1.75	1.35	-	-	75.0	75.0
2380CUU38	230/50/1	PSC	2.30	2.21	2.10	1.90	1.50	1.10	-		75.0	75.0
2380CE44	115/60/1	PSC	3.20	3.10	2.90	2.60	2.13	-	-	-	40.0	40.0
2380CUU44	230/50/1	PSC	2.70	2.60	2.49	2.23	1.80	-	-		40.0	40.0
2380Z1C32	12 or 24	BLDC	3.14	2.99	2.86	2.59	2.10	1.66	1.27	0.93	100.0	100.0
2380Z1B53	24 or 48	BLDC	-	-	-	-	-	-	-	-	-	-
2380Z1V53	24	BLDC	-	-	-	-	-	-	-	-	-	-
2450AE44	115/60/1	PSC	3.00	2.87	2.70	2.57	-	-	-	-	30.0	30.0
2450AUU44	230/50/1	PSC	2.60	2.50	2.37	2.11	-	-	-	-	30.0	30.0
2505CE38	115/60/1	PSC	3.40	3.23	3.06	2.77	2.22	1.75	1.25	0.75	100.0	100.0
2505CG38	230/60/1	PSC	3.40	3.32	3.03	2.72	2.16	1.67	-	-	60.0	60.0
2505CHI45	220-240/50/1	PSC	3.40	3.27	3.05	2.78	-	-	-	-	35.0	35.0

*SP = Shaded Pole, PSC = Permanent Splt Capacitor , BLDC=Brushless DC, CS = Capacitor Start

Note: Minimum release quantities or regional availability may apply. Consult factory.

Note: 50/60 Hz voltage - flow values listed at 60 Hz.

THOMAS
An Ingersoll Rand Business

Model Selection

WOB-L® Piston

Vacuum

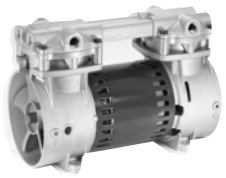
MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg						MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	5	10	15	20	25	% local barometer	in	lb.
617CA22	115/60/1	SP	0.78	0.63	0.47	0.31	0.16	0.02	87%	6.77 x 5.00 x 7.89	11.0
617CA32	115/60/1	SP	1.22	0.87	0.65	0.45	0.23	-	92%	6.77 x 5.00 x 7.89	11.0
617CD22	230/50/1	SP	0.69	0.53	0.40	0.26	0.14	-	87%	6.77 x 5.00 x 7.89	11.0
617CD32	230/50/1	SP	1.01	0.75	0.55	0.35	0.19	-	89%	6.77 x 5.00 x 7.89	11.0
60E48XNTLSXX	115/60/1	PSC	2.40	1.81	1.40	1.01	0.58	0.19	92%	7.19 x 5.18 x 7.09	14.4
660N48XNTLSXX	220-240/50/60/1	PSC	2.40	1.81	1.40	1.01	0.58	0.19	92%	7.19 x 5.18 x 7.09	13.5
660S48XNTLSXX	100/50/60/1	PSC	2.40	1.81	1.40	1.01	0.58	0.19	92%	7.19 x 5.18 x 7.09	14.4
668E44XNTLSXX	115/60/1	PSC	1.61	1.30	0.99	0.71	0.41	0.13	93%	7.19 x 5.18 x 7.09	13.3
668N44XNTLSXX	220-240/50/60/1	PSC	1.61	1.30	0.99	0.71	0.41	0.13	93%	7.19 x 5.18 x 7.09	13.3
668S44XNTLSXX	100/50/60/1	PSC	1.61	1.30	0.99	0.71	0.41	0.13	93%	7.19 x 5.18 x 7.09	13.3
2109ZA26/12M	12	BLDC	-	-	-	-	-	-	-	2.74 x 1.99 x 3.41	0.64
2220ZA30/12M	12	BLDC	-	-	-	-	-	-	-	3.77 x 2.64 x 4.70	1.5
2250ZC35/24	24	BLDC	1.92	1.43	1.06	0.74	0.39	0.94	88%	4.27 x 3.10 x 6.05	2.8
2320Z1C36	24 or 48	BLDC	3.04	2.43	1.84	1.27	0.71	0.18	90%	6.03 x 5.29 x 6.84	7.8
2320Z1B36	24 or 48	BLDC	3.06	2.45	1.86	1.28	0.73	0.19	89%	6.03 x 5.29 x 6.84	7.8
2380BES44	115/60/1, 100/50/60/1	PSC	3.00	2.50	1.90	1.30	0.70	0.20	91%	6.79 x 5.14 x 9.31	12.0
2380BGUU44	230/60/1, 230/50/1	PSC	3.00	2.50	1.90	1.30	0.70	0.20	91%	6.79 x 5.14 x 9.31	12.0
2380CE32	115/60/1	PSC	2.30	1.94	1.46	1.01	0.57	0.16	90%	6.73 x 5.14 x 9.31	12.0
2380CS32	100/50/60/1	PSC	2.30	1.94	1.46	1.01	0.57	0.16	90%	6.73 x 5.14 x 9.31	12.0
2380CUU32	230/50/1	PSC	2.00	1.67	1.26	0.86	0.48	0.13	90%	6.73 x 5.14 x 9.31	12.0
2380CE38	100/50/60/1	PSC	2.70	2.15	1.63	1.12	0.65	0.16	91%	6.76 x 5.14 x 9.31	12.0
2380CUU38	230/50/1	PSC	2.30	1.85	1.40	0.95	0.52	0.10	91%	6.76 x 5.14 x 9.31	12.0
2380CE44	115/60/1	PSC	3.20	2.50	1.88	1.31	0.75	0.24	92%	6.79 x 5.14 x 8.94	12.0
2380CUU44	230/50/1	PSC	2.70	2.25	1.70	1.23	0.72	0.23	92%	6.79 x 5.14 x 8.94	12.0
2380Z1C32	24 or 48	BLDC	3.00	2.40	1.82	1.26	0.71	0.18	90%	6.72 x 5.14 x 9.31	9.36
2380Z1B53	24 or 48	BLDC	4.52	3.62	2.76	1.92	1.13	0.36	94%	6.76 x 5.34 x 9.31	9.8
2380Z1C32	24	BLDC	1.98	1.93	1.52	1.12	0.69	0.29	98%	6.76 x 5.34 x 9.31	9.8
2450AE44	115/60/1	PSC	-	-	-	-	-	-	-	6.45 x 3.90 x 8.32	9.5
2450AUU44	230/50/1	PSC	-	-	-	-	-	-	-	6.45 x 3.90 x 8.32	9.5
2505CE38	115/60/1	PSC	3.40	2.69	2.04	1.37	0.74	0.17	90%	6.51 x 4.64 x 9.34	14.0
2505CG38	230/60/1	PSC	3.40	2.64	1.93	1.30	0.60	0.13	90%	6.51 x 4.64 x 9.34	14.0
2505CHI45	220-240/50/1	PSC	3.40	2.63	1.98	1.37	0.66	0.15	90%	6.51 x 4.64 x 9.34	14.0

617

668

2320Z

2505



SP = Shaded Pole, PSC = Permanent Splt Capacitor , BLDC=Brushless DC, CS = Capacitor Start
Note: Minimum release quantities or regional availability may apply. Consult factory.
Note: 50/60 Hz voltage - flow values listed at 60 Hz.

Model Selection

WOB-L® Piston

Pressure

2660

2680CWW40

2685PE40

MODEL	MOTOR CAPACITY		FLOW cfm @ psi								MAXIMUM PRESSURE psi	
	VOLTAGE	TYPE*	0	5	10	20	40	60	80	100	CONTINUOUS	INTERMITTENT
2660E48XNTLSXX	115/60/1	PSC	4.60	4.43	4.25	3.92	3.25	-	-	-	40.0	40.0
2660N48XNTLSXX	220-240/50/60/1	PSC	4.60	4.43	4.25	3.92	3.25	-	-	-	45.0 (50Hz), 40 (60Hz)	45.0 (50Hz), 40 (60Hz)
2660S48XNTLSXX	100/50/60/1	PSC	4.60	4.43	4.25	3.92	-	-	-	-	25.0 (50Hz), 20.0 (60Hz)	25.0 (50Hz), 20.0 (60Hz)
2668E44XNTLSXX	115/60/1	PSC	3.06	2.95	2.89	2.65	2.24	1.88	1.57	1.32	100.0	100.0
2668N44XNTLSXX	220-240/50/60/1	PSC	3.06	2.95	2.89	2.65	2.24	1.88	1.57	1.32	100.0	100.0
2668S44XNTLSXX	100/50/60/1	PSC	3.06	2.95	2.89	2.65	2.24	1.88	1.57	1.32	100 (50Hz), 40 (60Hz)	100 (50Hz), 40 (60Hz)
2680CWW40	200-240/50/1, 100-127/60/1	PSC	4.50	4.30	4.11	3.72	3.15	2.60	2.23	1.83	100.0	100.0
2685PE40	115/60/1	PSC	3.86	3.70	3.50	3.15	2.60	2.19	1.75	1.44	100.0	120.0
2685PHI44	220-240/50/1	PSC	3.35	3.22	3.15	2.78	2.25	1.85	1.43	1.09	100.0	120.0
2688TE44/38	115/60/1	PSC	1.52	1.48	1.45	1.41	1.35	1.32	1.30	1.28	160.0	160.0
2688TGHI44/38	220-240/50/1, 230/60/1	PSC	1.52	1.48	1.45	1.41	1.35	1.32	1.30	1.28	175.0	175.0
2688VE44	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2688VGHI44	220-240/50/1, 230/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2688VS44	100/50/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2755BE75	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2755BGHI75	220-240/50/1, 230/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2755CE60	115/60/1	PSC	6.50	6.23	5.98	-	-	-	-	-	15.0	15.0
2755CGHI60	220-240/50/1, 230/60/1	PSC	6.50	6.23	5.98	5.40	-	-	-	-	20.0	20.0
2755TE48/40	115/60/1	PSC	2.60	2.50	2.40	2.22	2.00	1.95	1.90	1.85	160.0	160.0
2755TGHI52/48	220-240/50/1, 230/60/1	PSC	2.75	2.60	2.50	2.40	2.20	2.14	2.08	2.03	175.0	175.0
2755VEF75	115/60/1, 110/50/1	PSC	-	-	-	-	-	-	-	-	-	-
2755VHI75	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
2775CE50	115/60/1	PSC	5.50	5.30	5.05	4.59	3.78	3.09	2.47	1.96	100.0	120.0
2775CE70	115/60/1	PSC	7.20	6.95	6.80	6.50	5.7				45.0	100.0
2775CE75	115/60/1	PSC	7.50	7.31	7.13	6.81					30.0	40.0
2775CGHI50	220-240/50/1, 230/60/1	PSC	5.50	5.30	5.05	4.59	3.78	3.09	2.47	1.96	100.0	120.0
2775CGUU70	230/50/60/1	PSC	7.20	6.80	6.60	6.10	5.2				45.0	70.0
2775Z1C5048	48	BLDC	6.9	6.6	6.39	6	5.02	4.05	3.27	2.67	100	100
2775Z1C6048	48	BLDC	8	7.6	7.32	7.04	5.35	4.06	3.2	2.68	100	100
2775Z1C7548	48	BLDC	9.15	8.97	8.8	8.14	5.4	-	-	-	50	50
2775Z1T60-4048	48	BLDC	4.15	4.01	3.87	3.63	3.2	2.98	2.91	2.84	175	175

*PSC = Permanent Splt Capacitor

Note: Minimum release quantities or regional availability may apply. Consult factory.

Note: 50/60 Hz voltage - flow values listed at 60 Hz.

THOMAS®
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Model Selection

WOB-L® Piston

Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg						MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	5	10	15	20	25	% local barometer	in	lb.
2660E48XNTLSXX	115/60/1	PSC	4.60	3.61	2.75	1.93	1.11	0.34	92%	7.09 x 5.18 x 9.31	17.6
2660N48XNTLSXX	220-240/50/60/1	PSC	4.60	3.61	2.75	1.93	1.11	0.34	92%	7.09 x 5.18 x 9.31	17.1
2660S48XNTLSXX	100/50/60/1	PSC	4.60	3.61	2.75	1.93	1.11	0.34	92%	7.09 x 5.18 x 9.31	17.6
2668E44XNTLSXX	115/60/1	PSC	3.06	2.42	1.81	1.22	0.65	0.11	93%	7.09 x 5.18 x 9.31	16.3
2668N44XNTLSXX	220-240/50/60/1	PSC	3.06	2.42	1.81	1.22	0.65	0.11	93%	7.09 x 5.18 x 9.31	16.3
2668S44XNTLSXX	100/50/60/1	PSC	3.06	2.42	1.81	1.22	0.65	0.11	93%	7.09 x 5.18 x 9.31	16.3
2680CWW40	200-240/50/1, 100-127/60/1	PSC	4.50	3.55	2.69	1.83	1.08	0.32	92%	7.09 x 5.38 x 10.57	20.9
2685PE40	115/60/1	PSC	-	-	-	-	-	-	-	7.19 x 5.38 x 9.72	16.4
2685PHI44	220-240/50/1	PSC	-	-	-	-	-	-	-	7.09 x 5.38 x 9.72	16.4
2688TE44/38	115/60/1	PSC	-	-	-	-	-	-	-	7.35 x 6.68 x 9.73	16.0
2688TGHI44/38	220-240/50/1, 230/60/1	PSC	-	-	-	-	-	-	-	7.35 x 6.68 x 9.73	15.0
2688VE44	115/60/1	PSC	1.60	1.20	0.98	0.69	0.48	0.16	98%	7.35 x 6.81 x 9.73	16.4
2688VGHI44	220-240/50/1, 230/60/1	PSC	1.60	1.20	0.98	0.69	0.48	0.16	98%	7.35 x 6.81 x 9.73	14.6
2688VS44	100/50/60/1	PSC	1.60	1.20	0.98	0.69	0.48	0.16	98%	7.35 x 6.81 x 9.73	16.4
2755BE75	115/60/1	PSC	7.50	6.21	4.73	3.29	1.87	0.53	93%	9.32 x 5.37 x 10.35	21.5
2755BGHI75	220-240/50/1, 230/60/1	PSC	7.50	6.21	4.73	3.29	1.87	0.53	93%	9.32 x 5.37 x 10.35	22.6
2755CE60	1115/60/1	PSC	6.50	5.29	4.02	2.72	1.49	0.31	91%	9.32 x 5.37 x 10.35	21.5
2755CGHI60	220-240/50/1, 230/60/1	PSC	6.50	5.29	4.02	2.72	1.49	0.31	91%	9.32 x 5.37 x 10.35	22.6
2755TE48/40	1115/60/1	PSC	-	-	-	-	-	-	-	9.32 x 5.37 x 10.75	21.7
2755TGHI52/48	220-240/50/1, 230/60/1	PSC	-	-	-	-	-	-	-	9.32 x 5.37 x 10.75	23.0
2755VEF75	115/60/1, 110/50/1	PSC	3.90	3.21	2.51	1.86	1.16	0.49	98%	9.32 x 5.37 x 10.35	21.5
2755VHI75	230/50/1	PSC	3.40	2.65	2.05	1.48	0.90	0.40	98%	9.32 x 5.37 x 10.35	22.6
2775CE50	115/60/1	PSC	5.50	3.92	2.96	2.02	1.12	0.27	90%	9.80 x 6.10 x 12.40	23.8
2775CE70	115/60/1	PSC	7.2	4.81	3.69	2.55	1.43	0.36	91%	9.80 x 6.10 x 12.40	23.8
2775CE75	115/60/1	PSC	7.5	5.2	3.94	2.75	1.67	0.41	91%	9.80 x 6.10 x 12.40	23.8
2775CGHI50	220-240/50/1, 230/60/1	PSC	5.50	3.92	2.96	2.55	1.12	0.27	90%	9.80 x 6.10 x 12.40	23.8
2775CGUU70	230/50/60/1	PSC	7.2	4.96	3.87	2.64	1.56	0.45	91%	9.80 x 6.10 x 12.40	23.8
2775Z1C5048	48	BLDC	6.42	5.8	3.93	2.72	1.58	0.48	92%	9.32 x 6.74 x 11.73	17.25
2775Z1C6048	48	BLDC	7.55	6.08	4.65	3.21	1.84	0.5	93%	9.32 x 6.74 x 11.73	18.75
2775Z1C7548	48	BLDC	9.5	7.72	5.94	4.17	2.39	0.64	94%	9.32 x 6.74 x 11.73	18.75
2775Z1T60-4048	48	BLDC	-	-	-	-	-	-	-	9.32 x 6.74 x 11.73	17.25

2668

2755

2775

*PSC = Permanent Splt Capacitor

Note: Minimum release quantities or regional availability may apply. Consult factory.

Note: 50/60 Hz voltage - flow values listed at 60 Hz.

Model Selection

TA-3101 DC
TA-4101 DC

TA-3101
TA-4101

Articulated Piston

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi								MAXIMUM PRESSURE psi	
	VOLTAGE	TYPE*	0	5	10	20	40	60	80	100	CONTINUOUS	INTERMITTENT
TA-3101-DC (270024)	12V DC	PM	1.70	1.62	1.55	1.40	1.18	1.00	0.85	0.70	100.0	100.0
TA-4101-DC (270025)	12V DC	PM	2.20	2.07	1.95	1.75	1.45	1.25	1.10	0.95	100.0	100.0
TA-4101-DC (270047)	24V DC	PM	2.20	2.07	1.95	1.75	1.45	1.25	1.10	0.95	100.0	100.0
TA-5102-DC (270058)	12V DC	PM	4.06	3.81	3.54	3.42	3.02	2.72	2.12	1.61	100.0	100.0
TA-3101 (270005)	115/230/60/1	CS	1.60	1.50	1.40	1.25	1.03	0.85	0.66	0.60	100.0	100.0
TA-4101 (270015)	115/230/60/1	CS/CR	2.20	2.12	2.05	1.90	1.65	1.45	1.25	1.10	100.0	100.0
TA-4102 (270010)	115/230/60/1	CS	2.60	2.54	2.44	2.20	1.80	1.60	1.35	1.20	50.0	50.0
TA-4172 (270072)	115/230/60/1	CS	1.40	1.38	1.35	1.35	1.30	1.25	1.20	1.15	175.0	175.0
TA-5102 (270011)	115/230/60/1	CS	3.20	3.05	2.90	2.68	2.40	2.10	1.90	1.65	100.0	100.0
TA-5102 (270040)	110/220-240/50/1	CS	2.55	2.42	2.30	2.15	1.90	1.70	1.50	1.30	100.0	100.0
TA-5102 (270043)	190/380 208-230/460	POLY	3.20	3.05	2.90	2.68	2.40	2.10	1.90	1.65	100.0	100.0
TA-5172 (270073)	115/230/60/1	CS	1.80	1.79	1.79	1.78	1.75	1.72	1.69	1.65	175.0	175.0
TA-5172 (270078)	110/220-240/50/1	CS	1.43	1.42	1.42	1.41	1.39	1.37	1.35	1.32	175.0	175.0
TA-6102 (270012)	115/230/60/1	CS	4.30	4.15	4.00	3.75	3.30	2.95	2.60	2.40	100.0	100.0
TA-6102 (270044)	190/380 208-230/460	POLY	4.30	4.15	4.00	3.75	3.30	2.95	2.60	2.40	100.0	100.0
TA-6172 (270080)	115/230/60/1	CS	2.40	2.39	2.39	2.37	2.34	2.31	2.28	2.25	175.0	175.0
TA-6172 (270082)	190/380 208-230/460	POLY	2.40	2.39	2.39	2.37	2.34	2.31	2.28	2.25	175.0	175.0

*PM = Permanent Magnet, CS = Capacitor Start, CS/CR = Capacitor start/run, POLY = 3 Phase
Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

THOMAS
An Ingersoll Rand Business

Articulated Piston

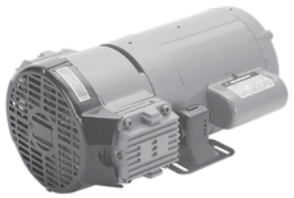
Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg						MAX. VACUUM % local barometer	DIMENSIONS (H x W x L) in	WEIGHT lb.
	VOLTAGE	TYPE*	0	5	10	15	20	25			
TA-3101-DC (270024)	12	PM	-	-	-	-	-	-	-	8.61 x 5.83 x 11.54	22.0
TA-4101-DC (270025)	12	PM	-	-	-	-	-	-	-	8.61 x 5.83 x 11.54	22.0
TA-4101-DC (270047)	24	PM	-	-	-	-	-	-	-	8.61 x 5.83 x 11.54	25.0
TA-5102-DC (270058)	12	PM	-	-	-	-	-	-	-	6.81 x 9.96 x 15.32	40.0
TA-3101 (270005)	115/230/60/1	CS	-	-	-	-	-	-	-	8.10 x 5.75 x 12.11	21.0
TA-4101 (270015)	115/230/60/1	CS/CR	-	-	-	-	-	-	-	8.10 x 5.75 x 12.05	24.0
TA-4102 (270010)	115/230/60/1	CS	-	-	-	-	-	-	-	6.95 x 10.20 x 11.49	36.0
TA-4172 (270072)	115/230/60/1	CS	-	-	-	-	-	-	-	6.95 x 11.20 x 14.30	45.0
TA-5102 (270011)	115/230/60/1	CS	-	-	-	-	-	-	-	6.91 x 10.59 x 14.30	37.0
TA-5102 (270040)	110/220-240/50/1	CS	-	-	-	-	-	-	-	9.04 x 10.83 x 16.30	37.0
TA-5102 (270043)	190/380 208-230/460	POLY	-	-	-	-	-	-	-	6.95 x 10.71 x 14.13	37.0
TA-5172 (270073)	115/230/60/1	CS	-	-	-	-	-	-	-	6.95 x 11.59 x 14.30	51.0
TA-5172 (270078)	110/220-240/50/1	CS	-	-	-	-	-	-	-	9.04 x 11.20 x 16.30	51.0
TA-6102 (270012)	115/230/60/1	CS	-	-	-	-	-	-	-	6.91 x 10.20 x 15.30	45.0
TA-6102 (270044)	190/380 208-230/460	POLY	-	-	-	-	-	-	-	6.91 x 10.20 x 15.30	45.0
TA-6172 (270080)	115/230/60/1	CS	-	-	-	-	-	-	-	6.95 x 12.05 x 15.30	56.0
TA-6172 (270082)	190/380 208-230/460	POLY	-	-	-	-	-	-	-	6.95 x 12.05 x 14.13	56.0

*PM = Permanent Magnet, CS = Capacitor Start, CS/CR = Capacitor start/run, POLY = 3 Phase
Note: Minimum release quantities or regional availability may apply. Consult factory.

TA-5102 DC

TA-6102



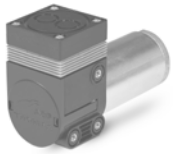
Model Selection

1014 DC

1410 DC

1610

7006 DC



Diaphragm

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ bar								MAXIMUM PRESSURE bar	
	VOLTAGE	TYPE*	0.0	0.5	1.0	1.5	2.0	3.0	5.0	7.0	CONTINUOUS	INTERMITTENT
1014	2.5 - 4	PM	0.7	0.6	-	-	-	-	-	-	0.6	0.6
2002	2.0 - 12	PM	0.8	0.1	-	-	-	-	-	-	0.2	0.6
3003	4.5 - 12	PM	1.0	0.1	-	-	-	-	-	-	0.2	0.6
3014	3.0 - 12	PM	1.0	0.3	-	-	-	-	-	-	0.2	0.8
1410D	12, 24	PM	5.5	2.5	-	-	-	-	-	-	1.0	1.0
1410VD	12, 24	PM	4.3	2.5	1.4	0.6	-	-	-	-	0.7	1.9
1420DP	12, 24	PM	11.0	5.1	-	-	-	-	-	-	1.0	1.0
1420VDP	12,24	PM	8.2	6.0	3.9	1.7	-	-	-	-	0.7	1.9
1610	12,24	PM	8.0	6.3	4.1	1.7	0.0	-	-	-	0.5	2.0
1620	12,24	PM	16.5	12.3	7.9	3.7	-	-	-	-	0.25	1.8
7006	12,24	PM	7.2	5.3	3.9	2.8	1.9	-	-	-	0.8	2.5
7006	230/50/1	PSC	6.9	5.0	3.7	2.3	1.3	-	-	-	0.8	2.5
7006ZP	12,24	PM	13.8	9.4	7.1	5.5	4.1	-	-	-	0.8	2.5
7006ZVR	12,24	PM	-	-	-	-	-	-	-	-	-	-
7011	12,24	PM	12.4	8.1	5.3	3.5	1.5	-	-	-	0.8	2.3
7011ZP	12,24	PM	24.0	17.0	11.0	8.0	-	-	-	-	0.5	2.5
7011ZR	12,24	PM	-	-	-	-	-	-	-	-	-	-
8221	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8111ZVR	220-240/50/60/1	PSC	-	-	-	-	-	-	-	-	-	-
8211V	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8211ZVP	115/60/1, 230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8211ZVR 1	115/60/1, 230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8311ZVR	100/50/60/1	PSC	-	-	-	-	-	-	-	-	-	-
8311ZVR	230/50/1, 220/50/60/1	PSC	-	-	-	-	-	-	-	-	-	-

*PM = Permanent Magnet, SP = Shaded Pole,

*PSC=Permanent Split Capacitor, Consult factory for 60 Hz models – minimum quantities apply.

Note: Minimum release quantities or regional availability may apply. Consult factory.

THOMAS
An Ingersoll Rand Business

Model Selection

Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar						MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	-100	-200	-400	-600	-800	mbar	mm	kg
1014	2.5 - 4	PM	0.7	0.5	0.3	0.1	-	-	-470	23 x 14 x 33	0.02
2002	2.0 - 10	PM	0.8	0.6	0.4	-	-	-	-520	26 x 17 x 41	0.03
3003	4.5 - 12	PM	1.0	0.6	0.3	-	-	-	-380	37 x 23 x 43	0.04
3014	3.0 - 12	PM	1.0	0.7	0.5	0.2	-	-	-650	34 x 23 x 44	0.04
1410V	12,24	PM	5.5	4.6	3.9	2.4	1.0	-	-750	54 x 30 x 83	0.17
1410VD	12,24	PM	4.3	3.5	2.8	1.7	0.6	-	-730	54 x 30 x 83	0.17
1420VP	12,24	PM	11.0	9.5	8.0	5.0	2.1	-	-780	75 x 30 x 87	0.22
1420VDP	12,24	PM	8.2	7.0	5.8	3.2	1.0	-	-730	75 x 30 x 87	0.22
1610	12,24	PM	8.0	6.9	5.7	3.7	1.9	0.4	-900	97 x 47 x 120	0.64
1620	12,24	PM	16.5	14.4	12.1	7.8	4.0	0.7	-870	141 x 47 x 138	0.75
7006	12,24	PM	7.2	5.3	4.4	2.7	1.2	0.3	-850	78 x 47 x 123	0.60
7006	230/50/1	PSC	6.9	5.3	4.3	2.6	1.2	0.3	-850	110 x 79 141	1.6
7006ZP	12,24	PM	13.8	10.6	8.6	5.3	2.8	0.9	-850	78 x 47 x 123	0.9
7006ZVR	12,24	PM	6.6	5.7	4.8	3.2	1.9	0.7	-950	78 x 47 x 123	0.90
7011	12,24	PM	12.4	9.5	7.5	4.5	1.5	-	-730	62 x 87 x 150	0.85
7011ZP	12,24	PM	24.0	20.0	15.5	3.0	2.5	-	-700	48 x 97 194	1.4
7011ZR	12,24	PM	7.0	6.2	5.6	3.5	2.0	0.8	-990	48 x 97 x 192	1.4
8221	230/50/1	PSC	39.0	35.0	30.0	20.0	12.0	1.0	-960	159 x 129 x 261	3.0
8111ZVR	220-240/50/60/1	PSC	22.0	17.0	14.5	10.0	6.5	3.0	96%	131 x 87 x 194	3.0
8211V	230/50/1	PSC	38.0	29.0	22.5	14.0	8.0	3.0	92%	159 x 129 x 193	3.5
8211ZVP	115/60/1, 230/50/1	PSC	72.0	66.0	58.0	36.0	21.5	8.0	93%	158 x 129 x 261	5.0
8211ZVR	115/60/1, 230/50/1	PSC	34.0	25.0	22.0	15.5	10.0	4.7	99%	143 x 129 x 235	5.0
8311ZVR	100/50/60/1	PSC	40.0	34.0	28.5	19.7	12.4	5.5	97%	156 x 132 x 236	5.4
8311ZVR	230/50/1, 220/50/60/1	PSC	43.0	35.5	29.0	20.0	12.5	5.5	97%	156 x 128 x 236	5.4

*PM = Permanent Magnet, SP = Shaded Pole,
*PSC=Permanent Split Capacitor, Consult factory for 60 Hz models – minimum quantities apply.
Note: Minimum release quantities or regional availability may apply. Consult factory.

2002

3014

1420 BLDC

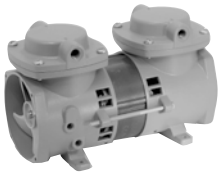
1620 VD

7011 DC

Model Selection

107 AC

2107



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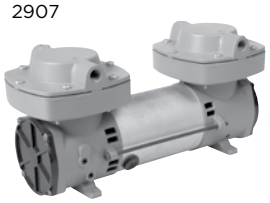


Diaphragm

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi								MAXIMUM PRESSURE psi	
	VOLTAGE	TYPE*	0	5	10	20	40	60	80	100	CONTINUOUS	INTERMITTENT
007BDC19	12 or 24	PM	-	-	-	-	-	-	-	-	-	-
007CDC19	12 or 24	PM	0.75	0.62	0.50	-	-	-	-	-	15.0	25.0
107AB18XFTLBXX	100/50/1, 115/60/1	SP	0.70	0.60	0.50	0.30	-	-	-	-	20.0	25.0
107CDU18XFTLBXX	220-230/50/1, 230/60/1	SP	0.70	0.60	0.50	0.30	-	-	-	-	20.0	25.0
1071220IFTLBXX	12	PM	1.44	1.30	1.15	0.85	-	-	-	-	35.0	35.0
107Z1C1824	24	BLDC	1.34	1.00	0.80	0.56	-	-	-	-	35.0	35.0
907BDC22	12	PM	-	-	-	-	-	-	-	-	-	-
907CDC18	12	PM	2.05	1.67	1.30	0.72	-	-	-	-	30.0	30.0
907Z1C1824	24	BLDC	2.06	1.54	1.21	0.70	-	-	-	-	25.0	25.0
910CDC22/12	12	PM	1.97	1.72	1.47	1.10	0.48	-	-	-	25.0	40.0
927CA18	115/60/1	SP	1.24	1.11	0.96	0.65	0.24	-	-	-	30.0	40.0
927CD18	220/50/1	SP	1.15	1.00	0.87	0.61	0.21	-	-	-	30.0	40.0
2107A18XSTLNXX	115/60/1	SP	1.60	1.25	-	-	-	-	-	-	5.0	5.0
2107DU18XSTLNXX	220-230/50/1	SP	1.25	1.00	-	-	-	-	-	-	5.0	5.0
2107VA20	115/60/1	SP	-	-	-	-	-	-	-	-	-	-
2107VD20	220/50/1	SP	-	-	-	-	-	-	-	-	-	-
2907CDC22/12	12	PM	3.20	2.89	2.53	-	-	-	-	-	15.0	15.0

*PM = Permament Magnet, SP = Shaded Pole, PSC = Permanent Splt Capacitor , BLDC=Brushless DC
Note: Minimum release quantities or regional availability may apply. Consult factory.
Note: 50/60 Hz voltage - flow values listed at 60 Hz.

Model Selection

THOMAS
An Ingersoll Rand Business

Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg						MAX. VACUUM % local barometer	DIMENSIONS (H x W x L) in	WEIGHT lb.
	VOLTAGE	TYPE*	0	5	10	15	20	25			
007BDC19	12 or 24	PM	1.40	1.00	0.70	0.45	0.20	0	85%	5.03 x 3.35 x 6.10	2.9
007CDC19	12 or 24	PM	0.75	0.56	0.39	0.22	.05	-	78%	5.12 x 3.35 x 6.17	2.9
107AB18XFTLBXX	100/50/1, 115/60/1	SP	0.70	0.57	0.45	0.33	0.20	-	75%	4.68 x 4.25 x 6.35	5.1
107CDU18XFTLBXX	220-230/50/1, 230/60/1	SP	0.70	0.57	0.45	0.33	0.20	-	75%	4.68 x 4.25 x 6.35	5.1
1071220IFTLBXX	12	PM	1.45	1.10	0.80	0.50	0.20	-	75%	4.68 x 4.25 x 7.17	4.5
107Z1C1824	24	BLDC	1.34	0.72	0.48	0.29	0.07	-	74%	4.68 x 5.14 x 6.09	4.3
907BDC22	12	PM	1.80	1.34	0.88	0.56	-	-	85%	5.89 x 4.75 x 7.88	6.5
907CDC18	12	PM	2.05	1.25	0.82	0.48	-	-	76%	5.89 x 4.75 x 7.88	6.5
907Z1C1824	24	BLDC	1.67	1.20	0.77	0.40	0.08	-	72%	5.89 x 5.14 x 6.59	5.8
910CDC22/12	12	PM	1.97	1.53	1.05	0.65	0.28	-	83%	5.89 x 4.75 x 7.88	8.3
927CA18	115/60/1	SP	1.24	0.89	0.64	0.36	0.16	-	23.8	6.77 x 4.75 x 7.81	11.0
927CD18	220/50/1	SP	1.15	0.73	0.53	0.33	0.11	-	23.8	6.77 x 4.75 x 7.81	11.0
2107A18XSTLNXX	115/60/1	SP	1.60	1.10	0.74	0.43	0.14	-	75%	4.71 x 4.25 x 7.47	6.0
2107DU18XSTLNXX	220-230/50/1	SP	1.25	0.88	.058	0.31	-		70%	4.71 x 4.25 x 7.47	6.0
2107VA20	115/60/1	SP	0.85	0.65	0.49	0.33	0.20	-	28.2	4.71 x 4.25 x 8.11	6.3
2107VD20	220/50/1	SP	0.72	0.56	0.42	0.29	0.17	-	28.3	4.71 x 4.25 x 8.11	6.3
2907CDC22/12	12	PM	3.20	2.00	1.43	0.90	0.41	-	82%	6.16 x 4.75 x 11.50	11.0

007BDC

907

910

*PM = Permament Magnet, SP = Shaded Pole, PSC = Permanent Splt Capacitor , BLDC=Brushless DC
Note: Minimum release quantities or regional availability may apply. Consult factory.
Note: 50/60 Hz voltage - flow values listed at 60 Hz.

Model Selection

G 04 EB

G 045

Rotary Vane

Pressure

MODEL	MODEL CAPACITY		FLOW l/min @ mbar								MAXIMUM PRESSURE mbar	
	VOLTAGE	TYPE*	0.0	50	100	200	400	600	800	1000	CONTINUOUS	INTERMITTENT
G 01-K-LC(L)	6	PM	2.2	1.3	-	-	-	-	-	-	25.0	80.0
G 01-K-EB	6,12	PM	1.4	-	-	-	-	-	-	-	10.0	40.0
G 01 EB	3,6,12,24	PM	1.6	1.2	0.7	-	-	-	-	-	100.0	180.0
G 01-4 EB	6,12,24	PM	1.4	1.2	0.9	0.4	-	-	-	-	100.0	280.0
G 02 EB	3,6,12,24	PM	3.6	2.6	1.6	-	-	-	-	-	100.0	190.0
G 02-4 EB	6,12,24	PM	3.7	3.2	2.5	1.3	-	-	-	-	100.0	310.0
G 02-8	6,12	PM	2.7	2.5	2.2	1.6	0.5	-	-	-	200.0	500.0
G 04 EB	3,6,12,24	PM	6.8	4.5	2.4	-	-	-	-	-	40.0	150.0
G 04-4 EB	6,12	PM	5.1	4.0	3.0	0.9	-	-	-	-	50.0	240.0
G 04-8	12	PM	4.4	3.6	2.6	1.0	-	-	-	-	100.0	260.0
G 045-LC	12	PM	6.5	6.0	5.6	-	-	-	-	-	100.0	750.0
G 045	12,24	PM	6.1	5.8	5.5	4.5	2.9	1.3	-	-	150.0	750.0
G 07	12,24	PM	21.0	21.0	20.0	19.0	15.0	13.0	9.0	6.0	200.0	1,400.0
G 08	12.24	PM	15.5	15.0	15.0	14.0	11.0	9.0	6.0	5.0	300.0	1400.0
G 08-T Series	12,24	PM	19.0	19.0	18.0	17.0	13.0	11.0	7.0	6.0	-	1400.0
G 08-T Parallel	12,24	PM	36.0	36.0	34.0	33.0	25.0	21.0	12.0	10.0	-	1,400.0
G09-6	12,24	PM	11.0	9.5	8.0	5.0	-	-	-	-	200.0	370.0

*PM = Permament Magnet, BLDC=Brushless DC

Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

Rotary Vane

Vacuum

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar						MAX. VACUUM mbar	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	-100	-200	-400	-600	-800	CONT./INTERM.	mm	kg
G 01-K-LC(L)	3,6	PM	2.2	-	-	-	-	-	-25 / -70	20.5 x 20 x 46	0.03
G 01-K-EB	6,12	PM	1.4	-	-	-	-	-	-10 / -40	20.5 x 20 x 53	0.04
G 01 EB	3,6,12,24	PM	1.6	0.8	-	-	-	-	-100 / -200	29 x 26 x 55	0.10
G 01-4 EB	6,12,24	PM	1.4	0.9	0.4	-	-	-	-100 / -290	29 x 26 x 55	0.10
G 02 EB	3,6,12,24	PM	3.6	1.6	-	-	-	-	-100 / -190	29 x 26 x 55	0.10
G 02-4 EB	6,12,24	PM	3.7	2.5	1.3	-	-	-	-100 / -310	29 x 26 x 55	0.10
G 02-8	6,12	PM	2.7	2.1	1.5	0.3	-	-	-200 / -450	29 x 26 x 72	0.13
G 04 EB	3,6,12,24	PM	6.8	2.5		-	-	-	-40 / -160	29 x 26 x 62	0.10
G 04-4 EB	6,12	PM	5.1	3.0	1.0	-	-	-	-50 / -260	29 x 26 x 62	0.10
G 04-8	12	PM	4.4	2.5	0.9	-	-	-	100 / -250	29 x 26 x 78	0.14
G 045-LC	12	PM	6.5	5.7	4.5	1.8	0.8	-	-100 / -630	42 x 42 x 90	0.25
G 045	12,24	PM	6.1	5.3	4.4	2.6	0.8	-	-150 / -700	42 x 42 x 86	0.25
G 07	12,24	PM	21.0	18.0	16.0	10.0	5.0	-	-200 / -770	48 x 48 x 150	0.70
G 08	12,24	PM	15.5	13.0	12.0	8.0	5.0	1.0	-300 / -830	59 x 59 x 135	0.75
G 08-T Series	12,24	PM	19.0	17.0	15.0	11.0	7.0	3.0	- / -930	59 x 59 x 210	1.30
G 08-T Parallel	12,24	PM	36.0	32.0	27.0	19.0	10.0	2.0	- / -840	59 x 59 x 210	1.30
G09-6	12,24	PM	11.0	7.8	4.2	-	-	-	-200 / -350	40 x 40 x 60	0.30

*PM = Permament Magnet, BLDC=Brushless DC

Note: Minimum release quantities or regional availability may apply. Consult factory.

G-01-K-LC(L)

G 02 EB

G 07 N

Model Selection

DTE 3

DTE 6

Rotary Vane

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar								MAXIMUM PRESSURE bar	
	VOLTAGE	TYPE*	0	100	200	400	600	800	1000		CONTINUOUS	INTERMITTENT
VTE 3	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
VTE 3	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
VTE 3	multi	POLY	-	-	-	-	-	-	-	-	-	-
VTE 3	24	PM	-	-	-	-	-	-	-	-	-	-
DTE 3	230/50/1	PSC	58	57	55	52	47	43	38	-	1.0	1.0
DTE 3	115/60/1	PSC	70	69	68	63	60	55	-	-	0.8	0.8
DTE 3	multi	POLY	58	57	55	52	47	43	38	-	1.0	1.0
DTE 3	24	PM	58	57	55	52	47	43	38	-	1.0	1.0
VTE 6	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
VTE 6	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
VTE 6	multi	POLY	-	-	-	-	-	-	-	-	-	-
VTE 6	24	PM	-	-	-	-	-	-	-	-	-	-
DTE 6	230/50/1	PSC	100	98	97	90	85	75	67	-	1.0	1.0
DTE 6	115/60/1	PSC	120	117	115	108	102	95	83	-	1.0	1.0
DTE 6	multi	POLY	100	98	97	90	85	75	67	-	1.0	1.0
DTE 6	24	PM	100	98	97	90	85	75	67	-	1.0	1.0
VTE 8	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
VTE 8	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
VTE 8	multi	POLY	-	-	-	-	-	-	-	-	-	-
VTE 8	24	PM	-	-	-	-	-	-	-	-	-	-
DTE 8	230/50/1	PSC	133	132	128	118	113	-	-	-	0.6	0.6
DTE 8	115/60/1	PSC	160	128	153	145	133	102	98	-	0.6	0.6
DTE 8	multi	POLY	133	132	128	118	113	102	98	-	1.0	1.0
DTE 8	24	PM	133	132	128	118	113	102	98	-	1.0	1.0
VTE 10	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
VTE 10	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
VTE 10	multi	POLY	-	-	-	-	-	-	-	-	-	-
VTE 10	24	PM	-	-	-	-	-	-	-	-	-	-
DTE 10	230/50/1	PSC	167	164	158	146	134	122	-	-	0.8	0.8
DTE 10	115/60/1	PSC	200	194	187	174	161	148	-	-	0.8	0.8
DTE 10	multi	POLY	167	164	158	146	134	122	110	-	1.0	1.0
DTE 10	24	PM	167	164	158	146	134	122	110	-	1.0	1.0

*PM = Permament Magnet, PSC = Permanent Splt Capacitor, POLY = 3 Phase

Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

Rotary Vane

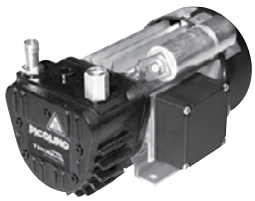
Vacuum

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar						MAX. VACUUM mbar	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	-100	-200	-400	-600	-800	CONT./INTERM.	mm	kg
VTE 3	230/50/1	PSC	58	51	44	31	17	3	-850 / -850	150 x 152 x 205	6.5
VTE 3	115/60/1	PSC	70	62	53	37	20	4	-850 / -850	150 x 152 x 205	6.5
VTE 3	multi	POLY	58	51	44	31	17	3	-850 / -850	150 x 152 x 205	6.5
VTE 3	24	PM	58	51	44	31	17	3	-850 / -850	150 x 152 x 210	7.9
DTE 3	230/50/1	PSC	-	-	-	-	-	-	-	150 x 152 x 205	6.5
DTE 3	115/60/1	PSC	-	-	-	-	-	-	-	150 x 152 x 205	6.5
DTE 3	multi	POLY	-	-	-	-	-	-	-	150 x 152 x 205	6.5
DTE 3	24	PM	-	-	-	-	-	-	-	150 x 152 x 210	7.9
VTE 6	230/50/1	PSC	100	89	77	52	30	7	-850 / -850	156 x 152 x 220	7.5
VTE 6	115/60/1	PSC	120	106	92	64	36	9	-850 / -850	156 x 152 x 220	7.5
VTE 6	multi	POLY	100	89	77	52	30	7	-850 / -850	156 x 152 x 220	7.5
VTE 6	24	PM	100	89	77	52	30	7	-850 / -851	156 x 152 x 225	8.5
DTE 6	230/50/1	PSC	-	-	-	-	-	-	-	156 x 152 x 220	7.5
DTE 6	115/60/1	PSC	-	-	-	-	-	-	-	156 x 152 x 220	7.5
DTE 6	multi	POLY	-	-	-	-	-	-	-	156 x 152 x 220	7.5
DTE 6	24	PM	-	-	-	-	-	-	-	156 x 156 x 225	8.5
VTE 8	230/50/1	PSC	133	117	99	68	77	10	-850 / -850	156 x 156 x 249	8.0
VTE 8	115/60/1	PSC	160	140	120	81	45	13	-850 / -850	156 x 156 x 249	8.0
VTE 8	multi	POLY	133	117	99	68	37	10	-850 / -850	156 x 156 x 249	8.0
VTE 8	24	PM	133	117	99	68	37	10	-850 / -850	156 x 156 x 245	9.2
DTE 8	230/50/1	PSC	-	-	-	-	-	-	-	156 x 156 x 249	8.0
DTE 8	115/60/1	PSC	-	-	-	-	-	-	-	156 x 156 x 249	8.0
DTE 8	multi	POLY	-	-	-	-	-	-	-	156 x 156 x 249	8.0
DTE 8	24	PM	-	-	-	-	-	-	-	156 x 156 x 245	9.2
VTE 10	230/50/1	PSC	167	150	130	90	50	10	-850 / -850	156 x 156 x 265	10.3
VTE 10	115/60/1	PSC	200	175	155	105	60	15	-850 / -850	156 x 156 x 265	10.3
VTE 10	multi	POLY	167	150	130	90	50	10	-850 / -850	156 x 156 x 265	10.1
VTE 10	24	PM	167	150	130	90	50	10	-850 / -850	156 x 156 x 270	11.8
DTE 10	230/50/1	PSC	-	-	-	-	-	-	-	156 x 156 x 265	10.3
DTE 10	115/60/1	PSC	-	-	-	-	-	-	-	156 x 156 x 265	10.3
DTE 10	multi	POLY	-	-	-	-	-	-	-	156 x 156 x 265	10.1
DTE 10	24	PM	-	-	-	-	-	-	-	156 x 156 x 270	11.8

VTE 3

VTE 6

VTE 10

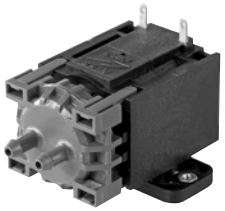


*PM = Permament Magnet, PSC = Permanent Splt Capacitor, POLY = 3 Phase

Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

LMG 4



Linear Diaphragm

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar				OPERATING PRESSURE RANGE mbar	
	VOLTAGE	TYPE*	0 [1)]	100	200	400	MINIMUM	MAXIMUM
LMG 4	230/50/1	LM	-	1.1	0.95	0.5	50	450
LMG 4	115/60/1	LM	-	1.2	1.0	0.35	50	450
LMG 4	12/50, 24/50	LM	-	1.1	0.95	0.5	50	450
LM 15	230/50/1	LM	16.0	12.5	8.4	-	0	300
LM 15	115/60/1	LM	16.0	12.5	8.7	0.8	0	300
LM 15	12,24	LM	15.0	12.0	6.6	-	0	200
LM 22	230/50/1	LM	22.0	16.0	8.0	-	50	250
LM 22	12,24	LM	20.0	15.0	5.6	-	0	200
YP-15DU	230/50/1	LM	25.0	15.0	5.0	-	20	200

*LM = Linear Magnetic. If 230V 60Hz is required for YP Models, consult factory.
0[1)] - Free flow operation not recommended
Note: Minimum release quantities or regional availability may apply. Consult factory.

YP-15DU

Linear Diaphragm

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi					OPERATING PRESSURE RANGE psi	
	VOLTAGE	TYPE*	0	1	2	3	4	MINIMUM	MAXIMUM
6025SE(150057)	115/60/1	LM	2.05	1.75	1.35	0.90	0.45	1.00	4.00
6025SE(150058)	230/50/60/1	LM	2.13	1.86	1.43	1.04	0.60	1.00	4.00
6025SE(150108,150112)	12	LM	1.50	1.08	0.73	0.41	016	1.00	4.00
6025SE(150109,150113)	24	LM	1.50	1.08	0.73	0.41	016	1.00	4.00

6025

*LM = Linear Magnetic.
Note: Minimum release quantities or regional availability may apply. Consult factory.
Note: 50/60 Hz voltage - flow values listed at 60 Hz.

THOMAS
An Ingersoll Rand Business

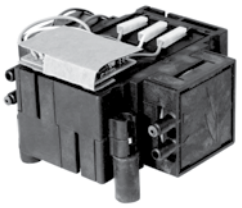
Model Selection

Linear Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar			OPERATING VACUUM RANGE mbar		DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0 [1)]	-100	-200	MINIMUM	MAXIMUM	mm	kg
LMG 4	230/50/1	LM	-	0.9	0.4	5%	20%	46 x 53 x 72	0.2
LMG 4	115/60/1	LM	-	0.9	0.4	5%	20%	46 x 53 x 72	0.2
LMG 4	12/50, 24/50	LM	-	0.9	0.4	5%	20%	46 x 53 x 72	0.2
LM 15	230/50/1	LM	16.0	12.5	7.5	0%	30%	65 x 111 x 107	1.0
LM 15	115/60/1	LM	16.0	12.5	8.4	0%	30%	65 x 111 x 107	1.0
LM 15	12,24	LM	15.0	16.0	5.3	0%	20%	76 x 111 x 107	1.0
LM 22	230/50/1	LM	22.0	16.0	6.0	5%	25%	65 x 111 x 107	1.0
LM 22	12,24	LM	20.0	15.0	5.6	0%	20%	76 x 111 x 107	1.0
YP-15DU	230/50/1	LM	-	-	-	-		77 x 116 x 110	1.2

LM 15



*LM = Linear Magnetic.
0[1)] - Free flow operation not recommended
Note: Minimum release quantities or regional availability may apply. Consult factory.

Linear Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg					OPERATING VACUUM RANGE mbar		DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	2	4	6	8	MINIMUM	MAXIMUM	in	lb
6025SE (150057)	115/60/1	LM	2.05	1.57	1.13	0.77	0.39	7%	27%	3.33 x 4.60 x 5.00	3.3
6025SE (150058)	230/50/60/1	LM	2.13	1.55	1.12	0.76	0.45	7%	27%	3.33 x 4.60 x 5.00	3.3
6025SE (150108, 150112)	12	LM	1.50	1.09	0.74	0.43	0.17	7%	27%	3.33 x 4.60 x 5.00	3.3
6025SE (150109, 150113)	24	LM	1.50	1.09	0.74	0.43	0.17	7%	27%	3.33 x 4.60 x 5.00	3.3

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*LM = Linear Magnetic, 230/50/60/1 Model Flow reported at 60Hz
Note: Minimum release quantities or regional availability may apply. Consult factory.
Note: 50/60 Hz voltage - flow values listed at 60 Hz.

Model Selection

AP-120

Linear Diaphragm

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar				OPERATING PRESSURE RANGE mbar	
	VOLTAGE	TYPE*	0	100	200	300	MINIMUM	MAXIMUM
YP-70VC	230/50/1	LM	115.0	93.0	73.0	-	50.0	200.0
AP-40	230/50/1	LM	72.0	52.0	21.0	-	50.0	200.0
AP-50G	230/50/1	LM	105.0	87.0	47.0	4.0	100.0	300.0
AP-60G	230/50/1	LM	118.0	96.0	60.0	18.0	100.0	300.0
AP-80H	230/50/1	LM	151.0	124.0	82.0	21.0	100.0	300.0
AP-100	230/50/1	LM	172.0	143.0	108.0	48.0	140.0	300.0
AP-120	230/50/1	LM	190.0	160.0	125.0	70.0	160.0	300.0
LP-150HN	230/50/1	LM	255.0	200.0	150.0	90.0	100.0	300.0
LP-200HN	230/50/1	LM	300.0	250.0	200.0	148.0	100.0	300.0
LW-240	230/50/1	LM	385.0	315.0	240.0	-	100.0	250.0
LW-300	230/50/1	LM	570.0	480.0	350.0	-	100.0	250.0
LW-400	230/50/1	LM	625.0	530.0	425.0	-	100.0	250.0

*LM = Linear Magnetic. If 230V 60Hz required, consult factory

Note: Minimum release quantities or regional availability may apply. Consult factory.

LW-400

Linear Diaphragm

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi				OPERATING PRESSURE RANGE psi	
	VOLTAGE	TYPE*	0	1	2	3	MINIMUM	MAXIMUM
AP-40 (150131)	115/60/1	LM	2.10	1.90	1.40	0.88	1.45	2.90
AP-60 (150132)	115/60/1	LM	2.80	2.50	2.28	1.71	1.45	2.90
AP-80 (150133)	115/60/1	LM	4.20	3.50	3.10	2.52	1.74	2.90

*LM = Linear Magnetic.

Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

Linear Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar			OP VACUUM RANGE mbar	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	-100	-200	MIN./MAX.	mm	kg
YP-70VC	230/50/1	LM	115.0	87.0	61.0	-50 / -200	163 X 175 X 207	6.2
AP-40	230/50/1	LM	-	-	-	-	199 X 172 X 215	4.6
AP-50G	230/50/1	LM	-	-	-	-	199 X 172 X 215	5.8
AP-60G	230/50/1	LM	-	-	-	-	199 X 172 X 215	5.8
AP-80H	230/50/1	LM	-	-	-	-	199 X 172 X 215	6.1
AP-100	230/50/1	LM	-	-	-	-	199 X 172 X 215	6.1
AP-120	230/50/1	LM	-	-	-	-	199 X 172 X 215	6.1
LP-150HN	230/50/1	LM	-	-	-	-	218 X 179 X 250	8.6
LP-200HN	230/50/1	LM	-	-	-	-	218 X 179 X 250	8.6
LW-240	230/50/1	LM	-	-	-	-	216 X 220 X 365	14.4
LW-300	230/50/1	LM	-	-	-	-	216 X 220 X 365	16.0
LW-400	230/50/1	LM	-	-	-	-	216 X 220 X 365	16.0

YP-70VC

*LM = Linear Magnetic. If 230V 60Hz required, consult factory

Note: Minimum release quantities or regional availability may apply. Consult factory.

LP-200HN

Linear Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg					OP VACUUM RANGE	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	1	2	3	4	in. Hg	in	lb
AP-40 (150131)	115/60/1	LM	-	-	-	-	-	-	7.84 x 7.01 x 8.58	10.3
AP-60 (150132)	115/60/1	LM	-	-	-	-	-	-	7.84 x 7.01 x 8.58	10.9
AP-80 (150133)	115/60/1	LM	-	-	-	-	-	-	7.84 x 7.01 x 8.58	10.9

*LM = Linear Magnetic.

Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

1210 DC

6311

6323

6410

6420

LMF

Liquid Diaphragm

TYPICAL CHARACTERISTICS
safe dry running, self priming, different diaphragm materials possible, connection via nozzle or thread

MODEL	VOLTAGE	FREE FLOW LIQUID ml/min	FREE FLOW GAS ml/min	PRESSURE HEIGHT	SUCTION HEIGHT	OPERATION	DIMENSIONS (mm) H x W x L
1210	12/24V DC	180	–	1000 mbar	-600 mbar	Continuous	68 x 54 x 40
6311	12/24V DC	250	2300	4000 mbar	-300 mbar	Continuous	81 x 56 x 40
6313	12/24V DC	550	5000	1000 mbar	-700 mbar	Continuous	52 x 31 x 73
6410	12/24V DC	850	–	1000 mbar	-300 mbar	Continuous	85 x 60 x 57
6323	12/24V DC	1750	–	1000 mbar	-700 mbar	Continuous	83 x 31 x 72
6420	12/24V DC	1800	–	1000 mbar	-300 mbar	Continuous	86 x 69 x 94

Liquid Linear

TYPICAL CHARACTERISTICS
self priming, individual impulse drive, long life; pulse control, dosing pumps available

MODEL	VOLTAGE	MOTOR TYPE	FREE FLOW ml/min	PRESSURE HEIGHT	SUCTION HEIGHT	OPERATION	DIMENSIONS (mm) H x W x L
LMF 3	12/24V AC 115/230V AC	LM	250	750 mbar	-200 mbar	Continuous	46 x 53 x 72
LMF 4	12/24V AC 115/230V AC	LM	300	900 mbar	-300 mbar	Continuous	46 x 53 x 72
LMF Dosing	12/24V AC 115/230V AC	LM	63	560 mbar	-100 mbar	Continuous	46 x 53 x 88

LM = Linear drive

Model Selection

Liquid Peristaltic, Direct Drive

mbar

TYPICAL CHARACTERISTICS
safe dry running, adjustable via speed, reversible (DC), interchangeable cassettes, wide range of tubing options

MODEL	VOLTAGE	MOTOR TYPE	FREE FLOW ml/min	PRESSURE HEIGHT	SUCTION HEIGHT	OPERATION	TUBE CONFIGURATION	DIMENSIONS (mm) H x W x L
SR10/30	DC	PM	16-55	800 mbar	-800 mbar	Continuous	Cassette	68 x 54 x 40
SR10/30	DC	PM	20-80	800 mbar	-800 mbar	Continuous	Cassette	81 x 56 x 40
SR10/30	DC/AC*	ST	0.48-20	800 mbar	-800 mbar	Continuous	Cassette	38 x 53 x 40
SR10/50	DC	PM	52-220	800 mbar	-800 mbar	Continuous	Cassette	85 x 60 x 57

DC/AC* = With separate electronics, PM = Permanent Magnet, ST = Stepper motor.

SR10/30 DC

SR10/50 DC

Liquid Peristaltic, Gear Drive

TYPICAL CHARACTERISTICS
insensitive against contamination, adjustable via speed, pumping of highly viscous liquids, sterilisable tubes, simple changing of tubing, wide range of tubing available

MODEL	VOLTAGE	MOTOR TYPE	FREE FLOW ml/min	PRESSURE HEIGHT	SUCTION HEIGHT	OPERATION	TUBE CONFIGURATION	DIMENSIONS (mm) H x W x L
SR18	AC	SY	3-50	1000 mbar	-800 mbar	Continuous	Tube Element	61.5 x 68 x 90
SR25	AC	SY	0.2-14	1000 mbar	-800 mbar	Continuous	Tube Element	92 x 86 x 80
SR25	AC or DC	SP/PM	2.0-287	1000 mbar	-800 mbar	Continuous	Tube Element	156 x 80 x 108
SR25-300S	DC/AC*	ST	0.1-430	1000 mbar	-800 mbar	Continuous	Tube Element	96 x 80 x 101

DC/AC* = With separate electronics, PM = Permanent Magnet, ST = Stepper motor, SP = Shaded Pole, SY = Syncro

SR18

SR25 DC

ETL200

ETL500

Liquid Peristaltic, Extended Tube Life - Dual Spring Occlusion

TYPICAL CHARACTERISTICS
Designed for longer tube life and more fine control for mission critical applications.
Simple flip-top design for easy tube changes.

MODEL	VOLTAGE	MOTOR TYPE	FREE FLOW ml/min	PRESSURE HEIGHT	SUCTION HEIGHT	OPERATION	TUBE CONFIGURATION	DIMENSIONS (mm) H x W x L
ETL200	DC	ST	0.006-60	200 mbar	-900 mbar	Continuous	Tube Element	46.5 x 31 x 69
ETL500	N/A	No Motor	0.025-3000	300 mbar	-975 mbar	Continuous	Continuous Tube	92 x 91 x 58
ETL500	DC or DC	ST	0.025-3000	300 mbar	-975 mbar	Continuous	Continuous Tube	92 x 91 x 152

DC/AC* = With separate electronics, ST = Stepper motor.

Conversion of Units

Flow
1 cfm = 28.32 l/min
1 l/min = 0.0353 cfm

Pressure
1 psi = 0.069 bar
1 bar = 14.5 psi

Vacuum
1 in. Hg = 33.8 mbar
1 mbar = 0.0296 in. Hg

Dimensions
1 in = 25.4 mm
1 mm = 0.0394 in

Weight
1 lb = 0.4536 kg
1 kg = 2.21 lb

Temperature
°C = 0.55 x (°F - 32.0)
°F = (1.8 x °C) + 32.0

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