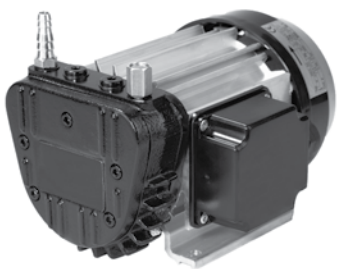
THOMAS
by Gardner Denver

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. Breadth of product, proprietary technologies and global manufacturing benefit our customers.

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

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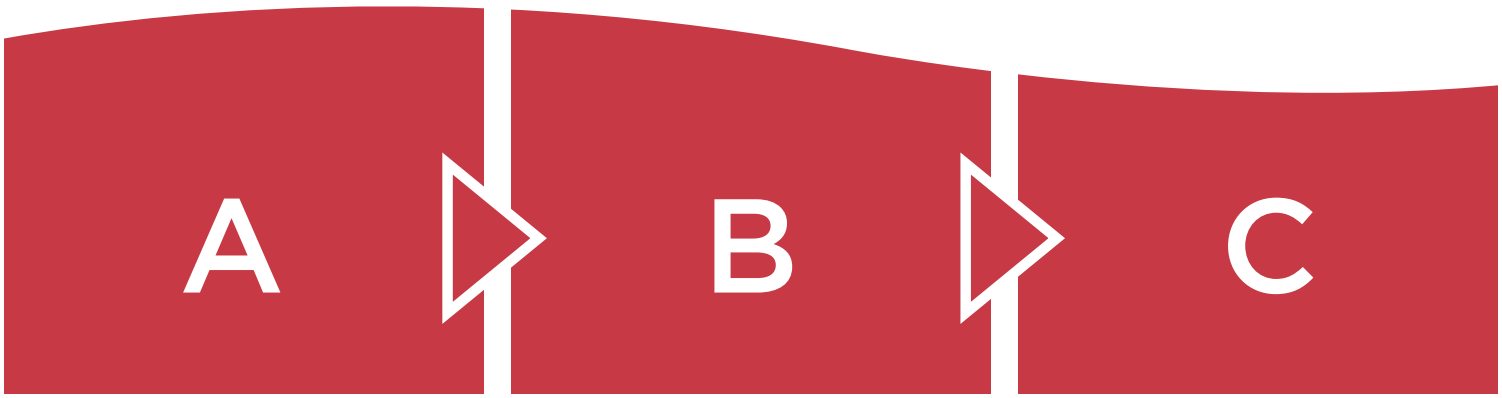
Performance Range

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 3 l/min and pressures to 60 m H_2O. These pumps are self-priming and can also be used for dosing applications.



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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 7.1 cfm (200 l/min)
Pressure: to 160 psi (11 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 5.4 cfm (153 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 10 cfm (283 lpm)
Pressure: to 14.5 psi (1 bar)
Vacuum: to 93% local barometer

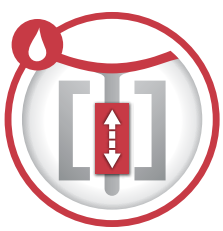
LINEAR

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 10.2 psi (700 mbar)
Vacuum: to 55% 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: 1100 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: 8.0 m H_2O
Pressure height: 10 m H_2O

THOMAS by Gardner Denver

Series Selection

WOB-L® Piston

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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
0.19	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
0.46	13.0	AC or DC	014	-880	26.0	6.9	100.0
0.476	13.5	BLDC	2110Z	0	0	2.1	30..0
0.48	13.6	DC	115	0	0	8.3	120.0
0.49	14.0	AC or DC	8009	0	0	7.0	102.0
0.50	14.2	BLDC	230Z	0	0	2.1	30.0
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
0.85	24.0	DC	309	-900	26.7	11.0	160.0
0.86	24.5	DC	8009Z	0	0	6.9	100.0
0.92	26.1	AC DC or BLDC	405/415	-910	27.0	6.9	100.0
0.97	27.5	DC	215	0	0	8.3	120.0
1.1	31.0	AC or DC	8006Z	-950	28.0	3.0	44.0
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	34.5	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	-920	27.2	7.0	100.0
1.8	50.1	BLDC	260Z	-860	25.5	2.1	30.0
2.3	65.0	AC	2380	-900	26.7	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	11.1	160.0
3.4	96.3	AC	2505	-885	26.1	6.9	100.0
3.8	107.6	AC	2665/2685	0	0	8.3	120.0
3.8	107.6	AC	1207	-880	25.9	8.6	125.0
4.6	130.3	AC	2660	-980	29.0	3.1	45.0
5.1	145.0	AC	2770	0	0	6.9	100.0
6.6	186.9	AC	2807	-850	25.0	8.3	120.0
7.1	199.6	AC	2750	-990	29.1	1.7	25.0

WOB-L® Refrigerant Recovery

Page 12

FREEFLOW cfm	FREEFLOW l/min	VOLTAGE	MODEL SERIES	MAXIMUM VACUUM = mbar	MAXIMUM VACUUM = in. Hg	MAXIMUM PRESSURE = bar	MAXIMUM PRESSURE = psi
0.41	11.6	Rectified DC	500	-910	27.0	30.0	435.0
0.67	19.0	AC	520	-780	23.0	30.0	435.0
1.2	33.0	AC	2520	-860	25.3	30.0	435.0

Articulating Piston

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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
5.4	152.9	AC or DC	TA	0	0	12.1	175.0

Series Selection

Diaphragm

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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
-	0.8	DC	1010	-500	14.8	0.6	9.0
-	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
-	1.3	DC	3013	-450	13.3	0.6	8.7
0.1	2.0	DC	4002	-600	17.7	0.7	10.1
0.2	5.5	DC or BLDC	1410	-750	22.0	1.9	27.6
0.2	6.5	AC or DC	7010	-730	21.5	2.3	33.3
0.3	8.0	DC	1610	-900	26.6	2.0	29.0
0.3	9.0	AC, 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
0.4	12.5	AC or DC	7010Z	-900	26.6	2.3	33.3
0.5	14.0	DC	7015	-800	23.6	2.5	36.3
0.6	16.5	DC	1620	-870	25.7	1.8	26.1
0.6	18.0	AC, DC or BLDC	7006Z	-850	25.1	2.5	36.3
0.8	23.0	AC	8010	-780	23.0	3.0	43.5
0.8	23.2	AC	2119	-918	27.1	0	0
0.8	24.0	DC	7011Z	-980	28.9	2.3	33.3
0.9	25.0	AC or DC	7015Z	-950	28.0	2.5	36.3
1.0	27.5	BLDC	118	-820	24.2	2.1	30.0
1.0	28.0	AC	8015	-830	24.5	3.0	43.5
1.1	32.5	DC	007	-780	23.0	1.0	15.0
1.2	34.0	AC	8011	-950	28.0	0	0
1.2	35.1	AC	927	-810	23.8	2.1	30.0
1.3	38.0	AC	8010Z	-920	27.1	2.8	40.6
1.4	39.6	AC, DC or BLDC	107	-800	23.0	2.4	35.0
1.6	46.7	AC	2107	-960	28.3	1.4	20.0
1.8	50.0	AC	8015Z	-960	28.3	0	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
2.3	65.0	AC	8011Z	-990	29.2	0	0
3.2	90.6	DC	2907	-810	24.0	1.0	15.0

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
0.3	8.5	AC or DC	VA	-550	16.2	700	10.2
0.8	22.0	AC or DC	LM	-350	10.3	400	5.8
1.1	31.0	AC	6015SE	-140	4.0	140	2.0
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

THOMAS by Gardner Denver

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	-450	13.3	0.6	8.7
0.2	6.8	DC	G/04	-260	7.7	0.3	3.8
0.3	7.5	DC	G045	-700	20.7	0.9	13.0
0.3	8.5	BLDC	BL-G 085 M	-500	14.2	0.5	6.5
0.4	11.0	DC	G09	-350	10.3	0.4	5.4
0.6	15.5	DC	G08	-830	24.5	1.4	20.3
0.8	23.0	DC	G/07	-800	23.6	1.4	20.3
1.3	36.0	DC	G/08-T	-930	25.0	1.4	20.3
1.5	42.0	DC	TF2	-800	23.6	1.0	14.5
2.3	66.0	DC	TF4	-800	23.6	1.0	14.5
2.5	70.0	AC or DC	VTE/DTE3	-850	25.1	1.0	14.5
2.8	79.3	AC or BLDC	SR	-850	25.0	0.7	10.1
4.2	120.0	AC or DC	VTE/DTE6	-850	25.1	1.0	14.5
4.8	136.0	DC	TF8	-800	23.6	1.0	14.5
5.6	160.0	AC or DC	VTE/DTE8	-850	25.1	0.6	8.7
7.1	200.0	AC or DC	VTE/DTE10	-850	25.1	1.0	14.5
10.0	283.1	AC	QR	-880	26.0	1.0	15.1

Liquid Diaphragm

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FREEFLOW ml/min	VOLTAGE	MODEL SERIES	SUCTION HEIGHT = m H_2O	PRESSURE HEIGHT = m H_2O
180	DC	1210	6	60.0
750	DC	1510	7	20.0
1100	DC	5002F	6	40.0
900	AC/DC	F120	4	60.0

Liquid Linear

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FREEFLOW ml/min	VOLTAGE	MODEL SERIES	SUCTION HEIGHT = m H_2O	PRESSURE HEIGHT = m H_2O
300	AC or DC	LMF	3	9.0

Liquid Peristaltic

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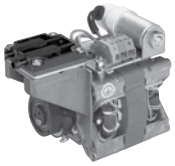
FREEFLOW ml/min	VOLTAGE	MODEL SERIES	SUCTION HEIGHT = m H_2O	PRESSURE HEIGHT = m H_2O
50	AC	SR18	8	10.0
80	DC	SR10/30	8	8.0
220	DC	SR10/50	8	8.0
746	AC/DC	SR25	8	10.0
3000	AC/DC	SR10/100	8	8.0

Model Selection

8003 BLDC

8009 DC

8006 AC



115ADC

215DC

230Z

3D19

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	-	-	-	-	-	-	-	-	-	-
8005D	12,24	PM	7.2	5.7	4.3	3.2	2.4	-	-	-	1.5	2.5
8005D	230/50/1	SP	6.0	4.8	3.7	2.8	2.0	-	-	-	1.5	2.5
8005V	12,24	PM	-	-	-	-	-	-	-	-	-	-
8005V	230/50/1	SP	-	-	-	-	-	-	-	-	-	-
8006D	12,24	PM	15.8	12.2	9.3	6.9	4.8	1.3	-	-	1.0	3.0
8006D	230/50/1	PSC	15.8	12.6	10.1	7.6	5.5	2.0	-	-	1.0	3.0
8006V	12,24	PM	-	-	-	-	-	-	-	-	-	-
8006V	230/50/1	SP	-	-	-	-	-	-	-	-	-	-
8006ZVP	12,24	PM	-	-	-	-	-	-	-	-	-	-
8006ZVP	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8006ZVR	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8009D	12,24	PM	14.0	11.5	9.0	8.0	7.1	5.6	3.2	1.8	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
014CA28	115/60/1	SP	0.46	0.40	0.37	0.32	0.26	0.22	0.17	0.12	100.0	100.0
014CD28	220/50/1	SP	0.37	0.33	0.30	0.28	0.22	0.17	0.15	0.09	100.0	100.0
014CDC20/12	12	PM	0.39	0.31	0.22	0.16	-	-	-	-	20.0	50.0
115ADC56/	12 or 24	PM	0.48	0.44	0.39	0.36	0.29	0.25	0.21	0.16	-	120.0
135ADC56/	12 or 24	PM	0.54	0.51	0.48	0.42	0.38	0.27	0.22	0.17	-	87.0
215ADC38/	12 or 24	PM	0.97	0.92	0.87	0.76	0.61	0.46	0.38	0.30	-	120.0
230ZA30/12	12	BLDC	0.74	0.57	0.54	0.46	-	-	-	-	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	0.85	0.82	0.73	0.70	0.60	0.53	0.45	0.42	-	134.0
3191250IRBLSCE	12	PM	1.25	1.20	1.15	1.05	0.90	0.79	0.71	0.65	100.0	100.0
3D191250IRSLSCE	12	PM	1.27	1.22	1.18	1.09	0.93	0.83	0.73	0.68	100.0	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
415ZC36/24	24	BLDC	.64	0.59	0.55	0.51	0.42	0.38	0.34	0.31	100.0	100.0

*PM = Permanent Magnet, SP = Shaded Pole, BLDC=Brushless DC

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

Model Selection

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WOB-L® Piston

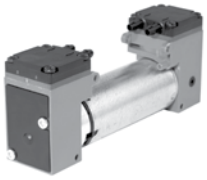
Vacuum

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar						MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	-100	-200	-400	-600	-800	mbar	mm	kg
8003D	12, 24	-	-	-	-	-	-	-	-	54 x 30 x 82	0.19
8003ZDP	12	PM	-	-	-	-	-	-	-	53 x 30 x 123	0.28
8003V	12,24	PM	4.3	3.5	2.8	1.5	0.2	-	-650	54 x 30 x 82	0.19
8003ZVR	12	PM	2.9	2.5	2.0	1.2	0.6	-	-800	53 x 30 x 123	0.28
8005D	12,24	PM	-	-	-	-	-	-	-	75 x 96 x 118	1.1
8005D	230/50/1	SP	-	-	-	-	-	-	-	75 x 106 x 110	1.1
8005V	12,24	PM	7.2	6.0	4.8	3.0	1.4	-	-780	75 x 96 x 118	1.1
8005V	230/50/1	SP	6.0	4.9	3.8	2.4	1.2	-	-780	75 x 106 x 110	1.1
8006D	12,24	PM	-	-	-	-	-	-	-	100 x 71 x 146	1.2
8006D	230/50/1	PSC	-	-	-	-	-	-	-	114 x 78 x 147	1.5
8006V	12,24	PM	15.8	13.4	11.1	6.2	3.6	-	-800	100 x 71 x 146	1.2
8006V	230/50/1	SP	14.2	12.0	9.7	6.0	3.0	-	-800	110 x 71 x 131	1.5
8006ZVP	12,24	PM	31.0	25.0	20.0	11.7	5.1	-	-800	99 x 63 x 191	0.9
8006ZVP	230/50/1	PSC	29.0	24.9	20.7	12.9	6.2	-	-800	114 x 78 x 193	2.0
8006ZVR	230/50/1	PSC	14.2	12.0	10.5	7.0	4.0	1.5	-950	114 x 78 x193	2.0
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

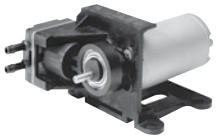
*PM = Permanent Magnet, SP = Shaded Pole, PSC = Permanent Split Capacitor

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

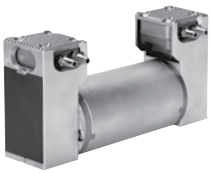
8003 Z



8005 DC



8009 ZDC



WOB-L® Piston

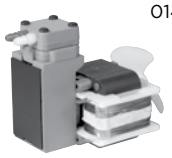
Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg						MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	5	10	15	20	25	in. Hg	in	lb
014CA28	115/60/1	SP	0.46	0.37	0.28	0.19	0.09	-	26.0	5.02 x 4.50 x 5.89	4.7
014CD28	220/50/1	SP	0.37	0.30	0.24	0.17	0.07	-	25.7	5.06 x 4.50 x 5.89	4.7
014CDC20/12	12	PM	0.39	0.24	0.18	0.12	0.06	-	25.3	4.09 x 1.89 x 5.58	2.3
115ADC56/	12 or 24	PM	-	-	-	-	-	-	-	5.13 x 1.01 x 5.27	1.6
135ADC56/	12 or 24	PM	-	-	-	-	-	-	-	3.60 x 1.66 x 4.34	1.2
215ADC38/	12 or 24	PM	-	-	-	-	-	-	-	4.46 x 2.10 x 6.18	3.0
230ZA30/12	12	BLDC	-	-	-	-	-	-	-	3.80 x 2.64 x 3.63	1.2
260ZC35/24	24	BLDC	1.77	1.30	0.94	0.60	0.26	0.03	25.5	4.63 x 3.02 x 4.12	2.8
309CDC56/12	12	PM	0.75	0.61	0.48	0.34	0.21	0.09	26.7	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	27.0	6.14 x 4.00 x 7.46	5.1
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	-	24.6	5.35 x 4.25 x 7.29	5.0
415ZC36/24	24	BLDC	0.64	0.49	0.39	0.28	0.18	0.08	27.0	5.88 x 4.25 x 6.04	3.6

*PM = Permanent Magnet, SP = Shaded Pole, BLDC=Brushless DC

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

014CA



260Z

319

Model Selection

2110Z

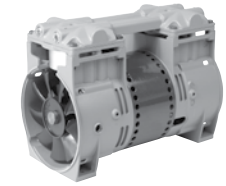
2250Z

2380

2450

2505

2660/2668



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
660E48XNTLSXX	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
1207PHI80	220-240/50/1	PSC	3.60	3.52	3.47	3.24	2.92	2.52	2.16	1.85	125.0	125.0
1207PK80	115/60/1	CS	3.78	3.72	3.66	3.43	3.04	2.69	2.33	1.99	125.0	125.0
2110ZA26/12	12	BLDC	0.48	.044	0.41	0.37	0.32	-	-	-	30.0	30.0
2220ZA30/12	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
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
2450AE44	115/60/1	PSC	3.00	2.87	2.70	2.57	2.45	-	-	-	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	-	-	-	-	30.0	30.0
2660E48XNTLSXX	115/60/1	PSC	4.60	4.43	4.25	3.92	3.63	-	-	-	40.0	40.0
2660N48XNTLSXX	220-240/50/60/1	PSC	4.60	4.43	4.25	3.92	3.63	-	-	-	45.0	45.0
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)
2665PE40	115/60/1	PSC	3.86	3.70	3.50	3.15	2.60	2.19	1.75	1.44	100.0	120.0
2665PHI44	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
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	100.0	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	160.0	160.0
2688VE44	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2688VGHI44	220-240/50/1, 230/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2688VS44	100/50/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2750BE75	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2750BGHI75	220-240/50/1, 230/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2750BS75	100/50/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2750CE60	115/60/1	PSC	6.20	6.05	5.80	-	-	-	-	-	15.0	15.0
2750CGHI60	220-240/50/1, 230/60/1	PSC	6.20	6.05	5.80	5.3	-	-	-	-	20.0	20.0
2750CS60	100/50/60/1	PSC	6.20	6.05	5.80	5.3	-	-	-	-	20.0	25.0
2750VEF75	115/60/1, 110/50/1	PSC	-	-	-	-	-	-	-	-	-	-
2750VHI75	220-240/50/1	PSC	-	-	-	-	-	-	-	-	-	-
2750VS75	100/50/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2770CE50	115/60/1	PSC	5.12	4.68	4.75	4.35	3.64	2.98	2.38	1.87	100.0	100.0
2770CGHI50	220-240/50/1, 230/60/1	PSC	5.12	4.68	4.75	4.35	3.64	2.98	2.38	1.87	100.0	100.0
2807CE72	115/60/1	PSC	6.60	6.40	6.20	5.90	5.13	4.35	3.75	3.05	50.0	120.0
2807CGHI72	220-240/50/1, 230/60/1	PSC	6.60	6.40	6.20	5.90	5.13	4.35	3.75	3.05	50.0	120.0

*PM = Permament Magnet, SP = Shaded Pole, PSC = Permanent Splt Capacitor , BLDC=Brushless DC, CS = Capacitor Start
Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

THOMAS by Gardner Denver

WOB-L® Piston

Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg						MAX. VACUUM % local barometer	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	5	10	15	20	25	in. Hg	in	lb.
617CA22	115/60/1	SP	0.78	0.63	0.47	0.31	0.16	0.02	25.6	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	-	26.8	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	-	25.6	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	-	26.2	6.77 x 5.00 x 7.89	11.0
660E48XNTLSXX	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
1207PHI80	220-240/50/1	PSC	3.60	2.45	1.80	1.25	0.66	-	24.3	10.05 x 6.55 10.66	26.0
1207PK80	115/60/1	CS	3.78	2.60	1.98	1.30	0.70	0.10	25.9	10.02 x 6.53 x 10.70	26.0
2110ZA26/12	12	BLDC	-	-	-	-	-	-	-	2.99 x 2.20 x 3.54	0.85
2220ZA30/12	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	25.9	4.27 x 3.10 x 6.05	2.8
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	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
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
2450AE44	115/60/1	PSC	-	-	-	-	-	-	-	6.41 x 3.90 x 8.32	9.5
2450AUU44	230/50/1	PSC	-	-	-	-	-	-	-	6.41 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
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
2665PE40	115/60/1	PSC	-	-	-	-	-	-	-	7.09 x 5.38 x 9.31	16.0
2665PHI44	220-240/50/1	PSC	-	-	-	-	-	-	-	7.09 x 5.38 x 9.31	16.0
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	16.0
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	16.0
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	16.0
2685PE40	115/60/1	PSC	-	-	-	-	-	-	-	7.09 x 5.38 x 9.77	16.4
2685PHI44	220-240/50/1	PSC	-	-	-	-	-	-	-	7.09 x 5.38 x 9.77	16.4
2688TE44/38	115/60/1	PSC	-	-	-	-	-	-	-	7.39 x 6.68 x 9.73	16.0
2688TGHI44/38	220-240/50/1, 230/60/1	PSC	-	-	-	-	-	-	-	7.39 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	29.0	7.40 x 6.61 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	29.0	7.40 x 6.61 x 9.73	14.6
2688VS44	100/50/60/1	PSC	1.60	1.20	0.98	0.69	0.48	0.16	29.0	7.40 x 6.61 x 9.73	16.4
2750BE75	115/60/1	PSC	7.1	6.3	4.7	3.2	1.8	0.5	27.0	9.29 x 5.37 x 10.09	20.0
2750BGHI75	220-240/50/1, 230/60/1	PSC	7.1	6.3	4.7	3.2	1.8	0.5	27.0	9.29 x 5.37 x 10.09	21.0
2750BS75	100/50/60/1	PSC	7.1	6.3	4.7	3.2	1.8	0.5	27.0	9.29 x 5.37 x 10.09	21.0
2750CE60	115/60/1	PSC	6.2	5.0	3.7	2.6	1.4	0.4	27.0	9.29 x 5.37 x 10.09	21.0
2750CGHI60	220-240/50/1, 230/60/1	PSC	6.2	5.0	3.7	2.6	1.4	0.4	27.0	9.29 x 5.37 x 10.09	21.0
2750CS60	100/50/60/1	PSC	6.2	5.0	3.7	2.6	1.4	0.4	27.0	9.29 x 5.37 x 10.09	21.0
2750VEF75	115/60/1, 110/50/1	PSC	3.64	3.06	2.39	1.70	1.07	0.47	29.1	9.29 x 5.37 x 10.09	20.0
2750VHI75	220-240/50/1	PSC	3.14	2.65	2.05	1.48	0.90	0.40	29.0	9.29 x 5.37 x 10.09	21.0
2750VS75	100/50/60/1	PSC	3.64	3.06	2.39	1.70	1.07	0.47	29.1	9.29 x 5.37 x 10.09	21.0
2770CE50	115/60/1	PSC	-	-	-	-	-	-	-	9.58 x 6.11 x 12.80	25.0
2770CGHI50	220-240/50/1, 230/60/1	PSC	-	-	-	-	-	-	-	9.58 x 6.11 x 12.80	25.0
2807CE72	115/60/1	PSC	6.60	4.30	2.66	1.80	0.88	-	25.0	10.05 x 7.31 x 15.60	39.0
2807CGHI72	220-240/50/1, 230/60/1	PSC	6.60	4.30	2.66	1.80	0.88	-	25.0	10.05 x 7.31 x 15.60	39.0

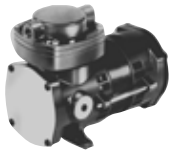
*PM = Permament Magnet, SP = Shaded Pole, PSC = Permanent Splt Capacitor , BLDC=Brushless DC, CS = Capacitor Start

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

2750

2807

415DC



617

668

1207

Model Selection

WOB-L® Refrigerant Recovery

520

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi								MAXIMUM PRESSURE psi	
	VOLTAGE	TYPE*	0	50	100	150	250	350	400	435	INLET	EXHAUST
500CAR75	100-115/50/60	RDC	0.41	0.31	0.29	0.26	0.23	0.16	0.13	0.13	35.0	435.0
500CDR75	230/50/60	RDC	0.41	0.31	0.29	0.26	0.23	0.16	0.13	0.13	35.0	435.0
520CJ75	100/50/60/1	CS	0.50	0.39	0.33	0.32	0.32	0.30	0.29	0.27	35.0	435.0
520CK75	115/60/1	CS	0.50	0.39	0.33	0.32	0.32	0.30	0.29	0.27	35.0	435.0
520CL75	220-240/50/1	CS	0.36	0.31	0.28	0.27	0.26	0.24	0.24	0.23	35.0	435.0
2520CK60	115/60/1	CS	1.00	0.85	0.73	0.61	0.50	0.46	0.44	0.42	35.0	435.0
2520CL60	220-240/50/60/1	CS	0.74	0.63	0.52	0.45	0.40	0.38	0.36	0.35	35.0	435.0

RDC=Rectified DC Permanent Magnet, CS=Capacitor Start

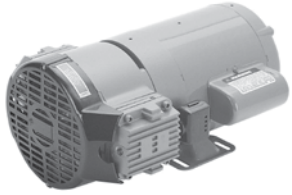
Note: Minimum release quantities or regional availability may apply. Consult factory.

Articulated Piston

TA-3101 DC
TA-4101 DC

TA-3101
TA-4101

TA-5102



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)	12	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)	12	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)	24	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)	12	PM	4.06	3.81	3.54	3.42	3.02	2.72	2.12	1.61	100.0	100.0
TA-3051 (270002)	115/230/60/1	CS	2.00	1.92	1.85	1.70	1.50	-	-	-	50.0	50.0
TA-3052 (270006)	115/230/60/1	CS	2.50	2.40	2.30	2.10	1.80	-	-	-	50.0	50.0
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-4051 (270014)	115/230/60/1	CS/CR	2.80	2.72	2.65	2.45	2.10	-	-	-	50.0	50.0
TA-4052 (270007)	115/230/60/1	CS	3.30	3.17	3.05	2.80	2.40	-	-	-	50.0	50.0
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-5052 (270008)	115/230/60/1	CS	4.30	4.17	4.00	3.90	3.41	-	-	-	50.0	50.0
TA-5052 (270039)	110/220-240/50/1	CS	3.40	3.30	3.20	3.00	2.65	-	-	-	50.0	50.0
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-5172 (270076)	190/380 208-230/460	POLY	1.80	1.79	1.79	1.78	1.75	1.72	1.69	1.65	175.0	175.0
TA-6052 (270009)	115/230/60/1	CS	5.20	5.05	4.90	4.65	4.25	-	-	-	50.0	50.0
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 (270042)	110/220-240/50/1	CS/CR	3.45	3.32	3.20	3.00	2.65	2.35	2.05	1.90	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/CR	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	1.92	1.91	1.90	1.89	1.86	1.84	1.81	1.79	175.0	175.0
TA-7102 (270045)	115/230/60/1	CS/CR	5.40	5.30	5.20	5.00	4.60	4.20	3.75	3.30	100.0	100.0

*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
by Gardner Denver

WOB-L® Refrigerant Recovery

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	in. Hg	in	lb.
500CAR75	100-115/50/60	RDC	0.41	0.30	0.23	0.18	0.11	0.03	27.0	8.07 x 5.05 x 10.11	11.0
500CDR75	230/50/60	RDC	0.41	0.30	0.23	0.18	0.11	0.03	27.0	8.07 x 5.05 x 10.11	11.4
520CJ75	100/50/60/1	CS	0.42	0.27	0.20	0.13	0.05	-	23.0	9.06 x 5.82 x 7.83	18.5
520CK75	115/60/1	CS	0.42	0.27	0.20	0.13	0.05	-	23.0	9.06 x 5.82 x 7.58	17.0
520CL75	220-240/50/1	CS	0.36	0.26	0.19	0.13	0.05	-	23.0	9.06 x 5.82 x 7.83	18.5
2520CK60	115/60/1	CS	1.00	0.73	0.52	0.33	0.14	0.06	25.3	9.15 x 5.82 x 11.07	28.0
2520CL60	220-240/50/60/1	CS	0.74	0.60	0.45	0.28	0.14	0.04	25.3	9.15 x 5.82 x 11.32	29.5

RDC=Rectified DC Permanent Magnet, CS=Capacitor Start

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

500

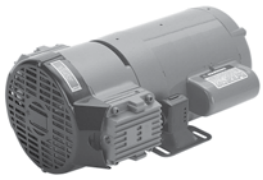
Articulated Piston

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	in. Hg	in	lb.
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-3051 (270002)	115/230/60/1	CS	-	-	-	-	-	-	-	8.10 x 5.75 x 12.11	21.0
TA-3052 (270006)	115/230/60/1	CS	-	-	-	-	-	-	-	6.95 x 10.59 x 14.30	33.0
TA-3101 (270005)	115/230/60/1	CS	-	-	-	-	-	-	-	8.10 x 5.75 x 12.11	21.0
TA-4051 (270014)	115/230/60/1	CS/CR	-	-	-	-	-	-	-	8.53 x 5.75 x 12.05	25.0
TA-4052 (270007)	115/230/60/1	CS	-	-	-	-	-	-	-	6.95 x 10.20 x 14.30	36.0
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-5052 (270008)	115/230/60/1	CS	-	-	-	-	-	-	-	6.91 x 10.59 x 14.30	37.0
TA-5052 (270039)	110/220-240/50/1	CS	-	-	-	-	-	-	-	6.91 x 10.59 x 14.30	37.0
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-5172 (270076)	190/380 208-230/460	POLY	-	-	-	-	-	-	-	6.95 x 11.20 x 14.13	51.0
TA-6052 (270009)	115/230/60/1	CS	-	-	-	-	-	-	-	9.05 x 11.26 17.18	45.0
TA-6102 (270012)	115/230/60/1	CS	-	-	-	-	-	-	-	6.91 x 10.20 x 15.30	45.0
TA-6102 (270042)	110/220-240/50/1	CS/CR	-	-	-	-	-	-	-	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/CR	-	-	-	-	-	-	-	6.95 x 11.20 x 14.30	56.0
TA-6172 (270082)	190/380 208-230/460	POLY	-	-	-	-	-	-	-	6.95 x 11.20 x 14.30	56.0
TA-7102 (270045)	115/230/60/1	CS/CR	-	-	-	-	-	-	-	7.44 x 11.77 x 16.11	61.0

2520

TA-3052



*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

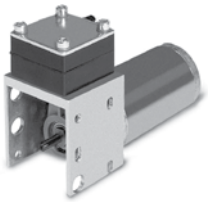
1010 DC

1410 DC

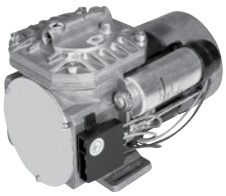
1610

7006 DC

7010 DC



8010



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
1010	2.5 - 4	PM	0.8	0.1	-	-	-	-	-	-	0.2	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
3013	4.5 - 12	PM	1.3	0.1	-	-	-	-	-	-	0.2	0.6
4002D	6	PM	2.0	0.8	-	-	-	-	-	-	0.2	0.7
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
7006ZP	230/50/1	PSC	13.8	9.4	7.1	5.5	4.1	-	-	-	0.8	2.5
7006ZVR	12,24	PM	-	-	-	-	-	-	-	-	-	-
7006ZVR	230/50/1	SP	-	-	-	-	-	-	-	-	-	-
7010	12,24	PM	6.5	4.5	2.9	1.9	-	-	-	-	1.0	2.2
7010	115/60/1,230/50/1	SP	5.8	4.3	3.0	2.0	-	-	-	-	1.2	2.3
7010ZDP	12,24	PM	12.0	8.1	5.1	2.5	-	-	-	-	0.8	2.0
7010ZDP	115/60/1,230/50/1	SP	10.4	7.3	4.8	2.5	-	-	-	-	0.8	2.3
7010ZVR	12,24	PM	-	-	-	-	-	-	-	-	-	-
7010ZVR	230/50/1	SP	-	-	-	-	-	-	-	-	-	-
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	2.3
7011ZR	12,24	PM	-	-	-	-	-	-	-	-	-	-
7015ZR	12,24	PM	-	-	-	-	-	-	-	-	-	-
7015ZR	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
7015	12,24	PM	14.0	9.7	7.1	4.9	3.1	-	-	-	1.0	2.5
7015ZP	12,24	PM	27.0	20.0	15.0	12.0	9.0	-	-	-	1.0	3.0
7015ZP	230/50/1	PSC	22.0	16.2	11.5	9.3	5.3	-	-	-	1.0	2.5
8010	230/50/1	PSC	23.0	16.0	11.0	8.0	4.5	1.8	-	-	1.0	2.8
8010ZP	230/50/1	PSC	38.0	31.0	24.0	17.0	11.0	3.5	-	-	0.8	2.8
8010ZR	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8011	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8011ZP	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8011ZR	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-
8015	230/50/1	PSC	28.0	22.0	17.5	13.0	10.0	3.5	-	-	0.8	3.0
8015ZP	230/50/1	PSC	-	-	-	-	-		-	-	-	-
8015ZR	230/50/1	PSC	-	-	-	-	-	-	-	-	-	-

*PM = Permanent Magnet, SP = Shaded Pole,

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

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

Model Selection

THOMAS
by Gardner Denver

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
1010	2.5 - 4	PM	0.8	0.6	0.4	0.1	-	-	-500	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
3013	4.5 - 12	PM	1.3	0.7	0.4	0.1	-	-	-450	34 x 23 x 44	0.03
4002V	6	PM	2.0	1.5	1.2	0.5	-	-	-600	30 x 17 x 53	0.05
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
7006ZP	230/50/1	PSC	13.8	10.6	8.6	5.3	2.8	0.9	-850	110 x 79 x 185	1.8
7006ZVR	12,24	PM	6.6	5.7	4.8	3.2	1.9	0.7	-950	78 x 47 x 123	0.90
7006ZVR	230/50/1	SP	7.1	6.0	5.0	3.3	1.9	0.6	-950	78 x 61 x 123	1.8
7010	12,24	PM	6.5	4.6	3.7	2.2	1.0	-	-730	86 x 48 x 120	0.60
7010	115/230/1	SP	5.8	4.5	3.5	2.1	0.9	-	-780	83 x 61 x 109	0.95
7010ZDP	12,24	PM	12.0	10.0	8.0	4.5	1.7	-	-750	82 x 48 x 161	0.75
7010ZDP	230/50/1	SP	10.4	8.6	7.0	4.2	1.8	-	-750	82 x 61 x 158	1.45
7010ZVR	12,24	PM	6.0	5.1	4.4	2.9	1.6	0.4	-900	82 x 48 x 161	0.75
7010ZVR	230/50/1	SP	5.3	4.5	3.7	2.4	1.3	0.3	-900	82 x 61 x 158	1.45
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
7015ZR	12,24	PM	12.0	10.5	9.5	7.0	4.5	2.0	-920	125 x 76 x 164	2.3
7015ZR	230/50/1	PSC	12.0	10.5	9.5	6.5	4.0	1.5	-900	137 x 79 x 182	2.4
7015	12,24	PM	14.0	11.0	8.5	4.9	1.8	-	-800	125 x 80 x 130	1.1
7015ZP	12,24	PM	27.0	21.0	17.0	11.0	5.0	-	-800	125 x 76 x 164	2.3
7015ZP	230/50/1	PSC	22.0	16.8	13.2	7.8	2.9	-	-800	137 x 79 x 182	2.4
8010	230/50/1	PSC	23.0	14.0	11.5	7.0	3.0	-	-780	122 x 129 x200	2.5
8010ZP	230/50/1	PSC	38.0	29.0	23.0	14.0	6.0	-	-780	122 x 124 x 255	3.4
8010ZR	230/50/1	PSC	26.0	22.0	19.0	13.0	7.7	2.7	-920	122 x 124 x 255	3.4
8011	230/50/1	PSC	34.0	29.0	22.0	14.0	8.0	3.0	-950	143 x 129 x 193	3.5
8011ZP	230/50/1	PSC	65.0	58.0	48.0	32.0	17.0	5.8	-930	143 x 129 x 261	5.0
8011ZR	230/50/1	PSC	34.0	26.0	22.8	16.0	10.0	4.5	-990	143 x 129 x 261	5.0
8015	230/50/1	PSC	28.0	20.5	16.0	10.0	5.3	1.0	-830	122 x 129 x 200	2.5
8015ZP	230/50/1	PSC	50.0	42.0	34.0	22.0	11.5	1.8	-830	122 x 124 x 255	3.9
8015ZR	230/50/1	PSC	29.0	24.5	21.0	14.5	8.6	3.2	-960	122 x 124 x 255	3.9

2002

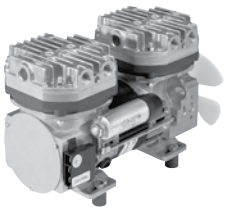
3013

1420 BLDC

1620 VD

7011 DC

8011 Z



*PM = Permanent Magnet, SP = Shaded Pole,

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

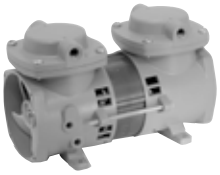
Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

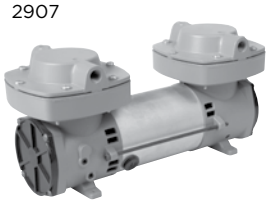
107 AC

107 DC

2107



2907



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	PM	-	-	-	-	-	-	-	-	-	-
007CDC19	12	PM	0.65	0.61	0.50	0.41	-	-	-	-	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
107ZC18/24	24	BLDC	0.96	0.77	0.63	0.40	-	-	-	-	35.0	35.0
1071220IFTLBXX	12	PM	1.44	1.30	1.15	0.85	-	-	-	-	35.0	35.0
118ZC20/24	24	BLDC	0.92	0.83	0.74	0.54	-	-	-	-	20.0	30.0
118ZC20/24UV	24	BLDC	0.91	0.79	0.71	0.54	-	-	-	-	20.0	30.0
907BDC22	12	PM	-	-	-	-	-	-	-	-	-	-
907CDC18	12	PM	2.05	1.67	1.30	0.72	-	-	-	-	30.0	30.0
907ZC18/24	24	BLDC	2.22	1.69	1.34	0.63	-	-	-	-	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	-	-	-	-	-	-	-	-	-	-
2119VCDU18	220/50/1,230/50/60/1	SP	-	-	-	-	-	-	-	-	-	-
2119VE20	115/60/1	PSC	-	-	-	-	-	-	-	-	-	-
2907CDC22/12	12	PM	3.20	2.89	2.53	-	-	-	-	-	15.0	15.0

*PM = Permanent Magnet, SP = Shaded Pole, BLDC=Brushless DC, PSC = Permanent Split Capacitor

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

Model Selection

THOMAS
by Gardner Denver

Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg						MAX. VACUUM % local barometer	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	5	10	15	20	25	in. Hg	in	lb.
007BDC19	12	PM	1.15	0.75	0.55	0.34	0.15	-	23.0	5.03 x 2.36 x 6.10	2.9
007CDC19	12	PM	0.65	0.48	0.34	0.21	-	-	23.0	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
107ZC18/24	24	BLDC	0.96	0.69	0.46	0.29	0.12	-	23.0	4.68 x 4.25 x 6.08	4.5
1071220IFTLBXX	12	PM	1.45	1.10	0.80	0.50	0.20	-	75%	4.68 x 4.25 x 7.17	4.5
118ZC20/24	24	BLDC	0.97	0.67	0.48	0.28	0.14	-	24.2	4.87 x 4.26 x 6.09	4.4
118ZC20/24UV	24	BLDC	0.94	0.76	0.54	0.35	0.16	-	23.8	4.87 x 4.26 x 6.09	4.4
907BDC22	12	PM	2.13	1.34	0.88	0.56	-	-	24.1	5.89 x 4.75 x 7.88	6.5
907CDC18	12	PM	2.05	1.25	0.82	0.48	-	-	22.2	5.89 x 4.75 x 7.88	6.5
907ZC18/24	24	BLDC	2.22	1.59	1.00	0.54	.10	-	21.2	5.89 x 4.75 x 6.59	5.5
910CDC22/12	12	PM	1.97	1.53	1.05	0.65	0.28	-	24.3	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
2119VCDU18	220/50/1,230/50/60/1	SP	0.73	0.62	0.48	0.35	0.22	0.08	26.9	4.85 x 4.20 x 8.67	6.3
2119VE20	115/60/1	PSC	0.82	0.64	0.48	0.33	0.20	0.06	27.1	5.98 x 5.31 x 8.41	7.3
2907CDC22/12	12	PM	3.20	2.00	1.43	0.90	0.41	-	24.0	6.16 x 4.75 x 11.50	11.0

007BDC

907

910

*PM = Permanent Magnet, SP = Shaded Pole, BLDC=Brushless DC, PSC = Permanent Split Capacitor

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

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 07-N	12,24	PM	20.0	19.0	18.0	16.0	-	-	-	-	250.0	900.0
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
BL-G 02-4	12	BLDC	2.1	1.5	1.0	-	-	-	-	-	150.0	200.0
BL-G 085 M	12	BLDC	8.5	7.5	6.5	4.7	1.0	-	-	-	150.0	450.0

*PM = Permanent Magnet, BLDC = Brushless DC

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

QR-0030
QR-0050

SR-0015-VP

Rotary Vane

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi								MAXIMUM PRESSURE psi	
	VOLTAGE	TYPE*	0	5	10	20	40	60	80	100	CONTINUOUS	INTERMITTENT
QR-0030 (291305)	100-115/200 240/60/50/1	SPh	3.20 2.70	2.70 2.30	2.20 1.80	1.70 1.40	-	-	-	-	10.0	15.0
QR-0050 (291306)	100-115/200 240/60/50/1	SPh	4.60 4.00	4.10 3.50	3.60 3.00	3.00 2.40	-	-	-	-	10.0	15.0
QR-0080 (291303)	100-115/200 240/60/50/1	CS	8.00 6.70	7.35 6.20	6.80 5.65	6.20 5.20	-	-	-	-	10.0	15.0
QR-0080 (291309)	200-240/460/60 200-220/380-415/50	POLY	8.00	7.35	6.80	6.20	-	-	-	-	10.0	15.0
QR-0100 (291310)	200-240/460/60 200-220/380-415/50	POLY	10.00	9.40	8.80	-	-	-	-	-	10.0	15.0
QR-0100 (291304)	100-115/200 240/60/50/1	CS	10.00 8.30	9.40 7.80	8.00 7.30	-	-	-	-	-	10.0	15.0
SR-0015-VP (291275)	115/60/50/1	PSC	1.50	1.20	1.00	-	-	-	-	-	10.0	10.0
SR-0015-VP (291293)	220/240/50/60/1	PSC	1.20	1.00	0.80	-	-	-	-	-	10.0	10.0
SR-0015-VP (291277)	115/60/50/1	SPh	1.50	1.20	1.00	-	-	-	-	-	10.0	10.0

*CS = Capacitor Start, SPh = Split Phase, PSC = Permanent Split Capacitor, POLY = 3 Phase

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

Model Selection

THOMAS
by Gardner Denver

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 07-N	12,24	PM	20.0	16.2	14.2	8.5	3.0	-	- 300 / -720	51 x 51 x 113	0.40
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
BL-G 02-4	12	BLDC	2.1	1.0	-	-	-	-	-150 / -190	32 x 32 x 69	0.13
BL-G 085 M	12	BLDC	8.5	6.7	5.0	1.7	-	-	-150 / -500	50 x 50 x 44	0.15

G-01-K-LC(L)

G 02 EB

G 07 N

*PM = Permanent Magnet, BLDC = Brushless DC

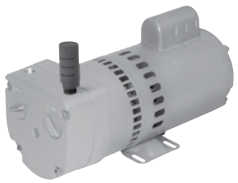
Note: Minimum release quantities or regional availability may apply. Consult factory.

Rotary Vane

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	in. Hg	in	lb
QR-0030 (291305)	100-115/200 240/60/50/1	SPh	3.20 2.70	2.50 2.20	1.90 1.60	1.30 1.10	.60 .50	- -	25.0	5.80 x 5.60 x 13.56	33.0
QR-0050 (291306)	100-115/200 240/60/50/1	SPh	4.60 4.00	3.80 3.30	2.90 2.50	2.00 1.70	1.20 0.90	.30 .10	26.0	5.80 x 5.60 x 13.56	33.0
QR-0080 (291303)	100-115/200 240/60/50/1	CS	8.00 6.70	6.40 5.30	4.80 4.00	3.40 2.80	2.00 1.40	.40 .10	26.0	6.75 x 6.50 x 16.41	54.0
QR-0080 (291309)	200-240/460/60 200-220/380-415/50	POLY	8.00	6.40	4.80	3.40	2.00	0.4	25.0	6.75 x 6.50 x 16.41	56.0
QR-0100 (291310)	200-240/460/60 200-220/380-415/50	POLY	10.00	8.10	6.20	4.40	2.50	.8	25.0	6.75 x 6.50 x 16.41	56.0
QR-0100 (291304)	100-115/200 240/60/50/1	CS	10.00 8.30	8.10 6.60	6.20 5.00	4.40 3.40	2.50 1.90	.8 .35	26.0	6.75 x 6.50 x 16.41	54.0
SR-0015-VP (291275)	115/60/50/1	PSC	1.50	1.10	0.80	0.50	0.20	-	24.0	4.12 x 4.17 x 8.17	8.0
SR-0015-VP (291293)	220/240/50/60/1	PSC	1.20	0.90	0.60	0.40	0.20	-	24.0	4.12 x 4.17 x 8.17	8.0
SR-0015-VP (291277)	115/60/50/1	SPh	1.50	1.10	0.80	0.50	0.20	-	24.0	4.12 x 4.17 x 8.17	8.5

QR-0080
QR-0100



*CS = Capacitor Start, SPh = Split Phase, PSC = Permnent Split Capacitor, POLY = 3 Phase

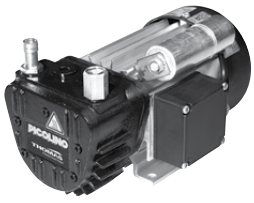
Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

DTE 3

DTE 6

VTE 10



Rotary Vane

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar								MAXIMUM PRESSURE bar	
	VOLTAGE	TYPE*	0	100	200	400	600	800	1000		CONTINUOUS	INTERMITTENT
TF 2	24	PM	42	39	37	33	29	25	21	-	-	1.0
TF 4	12,24	PM	66	62	59	52	46	39	33	-	-	1.0
TF 4HP	24	PM	84	83	82	77	71	64	58	-	-	1.0
TF 8	24	PSC	131	131	126	117	108	99	90	-	-	1.0
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 = Permanent Magnet, PSC = Permanent Split Capacitor, POLY = 3 Phase

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

Model Selection

THOMAS
by Gardner Denver

Rotary Vane

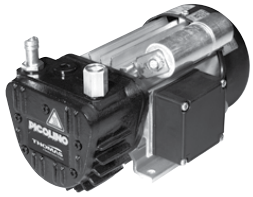
Vacuum

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
TF 2	24	PM	42	37	32	21	11	-	-	93 x 88 x 215	3.5
TF 4	12,24	PM	66	53	40	33	17	-	-	93 x 88 x 215	3.5
TF4HP	24	PM	84	73	63	42	21	-	-	93 x 88 x 215	3.5
TF 8	24	PSC	136	119	102	68	34	-	-	143 x 138 x 260	7.5
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

TF 2

TF 4

VTE 3



*PM = Permanent Magnet, PSC = Permanent Split Capacitor, POLY = 3 Phase

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

Model Selection

LMG 4

YP-20DU

Linear Diaphragm

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar				MAXIMUM PRESSURE mbar	
	VOLTAGE	TYPE*	0 [1]	100	200	400	CONTINUOUS	INTERMITTENT
LMG 4	230/50/1	LM	-	1.1	0.95	0.5	450.0	450.0
LMG 4	115/60/1	LM	-	1.2	1.0	0.35	450.0	450.0
LMG 4	12,24	LM	-	1.1	0.95	0.5	450.0	450.0
LM 15	230/50/1	LM	16.0	12.5	8.4	-	300.0	400.0
LM 15	115/60/1	LM	16.0	12.5	8.7	0.8	300.0	420.0
LM 15	12,24	LM	15.0	12.0	6.6	-	200.0	320.0
LM 22	230/50/1	LM	22.0	16.0	8.0	-	250.0	300.0
LM 22	12,24	LM	20.0	15.0	5.6	-	200.0	260.0
YP-6DU	230/50/1	LM	-	6.0	-	-	150.0	150.0
YP-15DU	230/50/1	LM	-	15.0	5.0	-	200.0	200.0
YP-20DU	230/50/1	LM	-	20.0	9.0	-	200.0	200.0
YP-40DU	230/50/1	LM	-	49.0	20.0	-	200.0	200.0
YP-50DU	230/50/1	LM	-	56.0	29.0	-	200.0	200.0

*LM = Linear Magnetic. If 230V 60Hz is required for YP Models, consult factory.

[1] - Free flow operation not recommended

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

6015
6025

Linear Diaphragm

Pressure

MODEL	MOTOR CAPACITY		FLOW cfm @ psi								MAXIMUM PRESSURE psi	
	VOLTAGE	TYPE*	0	1	2	3	4	5	6	7	CONTINUOUS	INTERMITTENT
6015SE (150098)	115/60/1	LM	1.10	0.62	0.09	-	-	-	-	-	2.0	2.0
6025SE (150057)	115/60/1	LM	2.05	1.75	1.35	0.90	0.45	-	-	-	4.0	4.0
6025SE (150058)	230/50/60/1	LM	2.13	1.86	1.43	1.04	0.60	-	-	-	4.0	4.0
6025SE (150108)	12	LM	1.50	1.08	0.73	0.41	0.16	-	-	-	4.0	4.0
6025SE (150109)	24	LM	1.50	1.08	0.73	0.41	0.16	-	-	-	4.0	4.0

*LM = Linear Magnetic.

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

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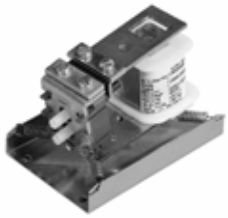


Linear Diaphragm (Vibrating Armature Type)

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar				MAXIMUM PRESSURE mbar	
	VOLTAGE	TYPE*	0	100	200	400	CONTINUOUS	INTERMITTENT
106	230/50	VA	0.9	0.6	0.2	-	200.0	270.0
112.0	230/50	VA	2.8	2.0	1.2	-	280.0	280.0
112.1	230/50	VA	5.0	2.6	2.0	-	340.0	340.0
202.0	230/50	VA	4.6	3.3	1.7	-	340.0	340.0
202.1	230/50	VA	4.8	3.8	2.1	0.3	450.0	450.0
302.0	230/50	VA	5.5	4.3	3.0	1.0	500.0	500.0
302.1	230/50	VA	8.5	6.5	5.2	3.0	700.0	700.0
312	230/50	VA	6.2	3.8	1.7	-	270.0	270.0
362	230/50	VA	8.5	4.6	-	-	200.0	200.0

*VA = Vibrating armature

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

Model Selection

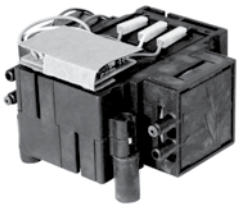
Linear Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar			MAX. VACUUM mbar	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0 [1)]	-100	-200	CONT./INTERM.	mm	kg
LMG 4	230/50/1	LM	-	0.9	0.4	-200 / -200	46 x 53 x 72	0.2
LMG 4	115/60/1	LM	-	0.9	0.4	-200 / -200	46 x 53 x 72	0.2
LMG 4	230/50/1	LM	-	0.9	0.4	-200 / -200	46 x 53 x 72	0.2
LM 15	230/50/1	LM	16.0	12.5	7.5	-300 / -350	65 x 111 x 107	1.0
LM 15	115/60/1	LM	16.0	12.5	8.4	-300 / -400	65 x 111 x 107	1.0
LM 15	12,24	LM	15.0	16.0	5.3	-200 / -280	76 x 111 x 107	1.0
LM 22	230/50/1	LM	22.0	16.0	6.0	-250 / -260	65 x 111 x 107	1.0
LM 22	12,24	LM	20.0	15.0	5.6	-200 / -260	76 x 111 x 107	1.0
YP-6DU	230/50/1	LM	-	-	-	-	77 x 116 x 110	1.1
YP-15DU	230/50/1	LM	-	-	-	-	77 x 116 x 110	1.2
YP-20DU	230/50/1	LM	-	-	-	-	77 x 116 x 110	1.2
YP-40DU	230/50/1	LM	-	-	-	-	104 x 160 x 136	2.5
YP-50DU	230/50/1	LM	-	-	-	-	104 x 160 x 136	2.8

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

LM 15



YP-40DU

Linear Diaphragm

Vacuum

MODEL	MOTOR CAPACITY		FLOW cfm @ in. Hg					MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	2	4	6	8	in. Hg	in	lb
6015SE (150098)	115/60/1	LM	1.10	0.63	0.10	-	-	4.0	3.33 x 4.60 x 5.00	2.7
6025SE (150057)	115/60/1	LM	2.05	1.57	1.13	0.77	0.39	8.0	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	8.0	3.33 x 4.60 x 5.00	3.3
6025SE (150108)	12	LM	1.50	1.09	0.74	0.43	0.17	8.0	3.33 x 4.60 x 5.00	3.3
6025SE (150109)	24	LM	1.50	1.09	0.74	0.43	0.17	8.0	3.33 x 4.60 x 5.00	3.3

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

312

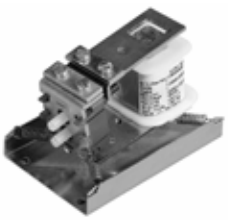
Linear Diaphragm (Vibrating Armature Type)

Vacuum

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar				MAX. VACUUM	DIMENSIONS (H x W x L)	WEIGHT
	VOLTAGE	TYPE*	0	-100	-200	-400	mbar	mm	kg
107	230/50	VA	1.2	0.6	-	-	-190	60 x 60 x 90	0.3
113.0	230/50	VA	4.2	2.0	1.2	-	-280	81 x 78 x 113	0.8
113.1	230/50	VA	3.2	2.5	1.6	0.4	-450	81 x 78 x 113	0.8
203.0	230/50	VA	4.6	2.5	1.2	-	-300	91 x 70 x 140	1.6
203.1	230/50	VA	5.5	4.0	2.3	0.6	-450	91 x 70 x 140	1.6
303.0	230/50	VA	5.5	3.5	2.2	0.5	-420	97 x 78 x 165	2.2
303.1	230/50	VA	6.8	5.0	3.6	2.0	-550	97 x 78 x 165	2.2
313	230/50	VA	6.2	3.3	0.7	-	-250	84 x 65 x 162	0.9
363	230/50	VA	8.5	4.4	-	-	-230	84 x 65 x 162	0.9

*VA = Vibrating armature
Note: Minimum release quantities or regional availability may apply. Consult factory.

107



Model Selection

Linear Diaphragm

YP-15A

AP-120

Pressure

MODEL	MOTOR CAPACITY		FLOW l/min @ mbar				OPERATING PRESSURE RANGE mbar	
	VOLTAGE	TYPE*	0	100	200	300	MINIMUM	MAXIMUM
YP-15A	230/50/1	LM	-	15.0	5.0	-	20.0	200.0
YP-20A	230/50/1	LM	-	20.0	9.0	-	20.0	200.0
YP-20V	230/50/1	LM	-	20.0	7.0	-	50.0	200.0
YP-40VC	230/50/1	LM	-	48.0	30.0	-	50.0	200.0
YP-50VC	230/50/1	LM	-	61.0	38.0	-	50.0	200.0
YP-60VC	230/50/1	LM	-	70.0	52.0	-	50.0	200.0
YP-70VC	230/50/1	LM	-	93.0	73.0	-	50.0	200.0
AP-40	230/50/1	LM	-	52.0	21.0	-	50.0	200.0
AP-60N	230/50/1	LM	-	82.0	47.0	4.0	100.0	300.0
AP-60/80	230/50/1	LM	-	91.0	60.0	18.0	100.0	300.0
AP-80H	230/50/1	LM	-	124.0	82.0	21.0	100.0	300.0
AP-100	230/50/1	LM	-	-	108.0	48.0	140.0	300.0
AP-120	230/50/1	LM	-	-	125.0	70.0	160.0	300.0
LP-150HN	230/50/1	LM	-	200.0	150.0	90.0	100.0	300.0
LP-200HN	230/50/1	LM	-	250.0	200.0	148.0	100.0	300.0
LW-240	230/50/1	LM	-	315.0	240.0	-	100.0	250.0
LW-300	230/50/1	LM	-	480.0	350.0	-	100.0	250.0
LW-400	230/50/1	LM	-	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	4	5	6	7	MINIMUM	MAXIMUM
AP-40 (150131)	115/60/1	LM	2.10	1.90	1.40	0.88	0.46	-	-	-	1.45	3.35
AP-60 (150132)	115/60/1	LM	2.80	2.50	2.28	1.71	1.12	0.62		-	1.45	4.35
AP-80 (150133)	115/60/1	LM	4.20	3.50	3.10	2.53	1.90	1.00	0.71	-	1.74	4.35
AP-100 (150142)	115/60/1	LM	5.00	4.70	4.20	3.80	2.50	1.40	0.20	-	1.45	3.62
AP-120 (150139)	115/60/1	LM	5.40	5.00	4.80	4.30	3.00	2.10	1.00	-	1.45	3.62

*LM = Linear Magnetic.

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

Model Selection

THOMAS by Gardner Denver

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-15A	230/50/1	LM	-	-	-	-	111 X 128 X 148	2.4
YP-20A	230/50/1	LM	-	-	-	-	111 X 128 X 148	2.4
YP-20V	230/50/1	LM	-	19.0	7.0	-50 / -200	111 X 128 X 148	2.4
YP-40VC	230/50/1	LM	-	43.0	25.0	-50 / -200	163 X 175 X 207	5.1
YP-50VC	230/50/1	LM	-	58.0	30.0	-50 / -200	163 X 175 X 207	5.5
YP-60VC	230/50/1	LM	-	67.0	42.0	-50 / -200	163 X 175 X 207	5.9
YP-70VC	230/50/1	LM	-	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-60N	230/50/1	LM	-	-	-	-	199 X 172 X 215	5.8
AP-60/80	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-20V

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
AP-100 (150142)	115/60/1	LM	-	-	-	-	-	-	7.84 x 7.01 x 8.58	12.6
AP-120 (150139)	115/60/1	LM	-	-	-	-	-	-	7.84 x 7.01 x 8.58	12.6

*LM = Linear Magnetic.

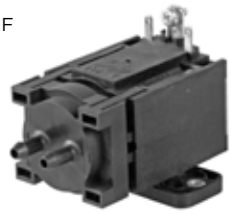
Note: Minimum release quantities or regional availability may apply. Consult factory.

Model Selection

1210 DC

5002F

LMF

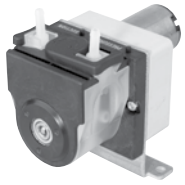


SR10/30 DC

SR10/50 DC

SR18

SR25 DC



Liquid Diaphragm

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

MODEL	VOLTAGE	MOTOR TYPE	FREE FLOW ml/min	PRESSURE HEIGHT	SUCTION HEIGHT	OPERATION	DIMENSIONS (mm) H x W x L
1210	DC	PM	180	60 m H_2O	6.0 m H_2O	Continuous	37 x 23 x 52
1510	DC	PM	750	20 m H_2O	7.0 m H_2O	Continuous	58 x 30 68.2
5002F	DC	PM	400	15 m H_2O	6.0 m H_2O	Continuous	80 x 30 x 52
5002FZ	DC	PM	1100	25 m H_2O	5.0 m H_2O	Continuous	82 x 30 x 86
F120 stepper	DC/AC*	ST	1-260	60 m H_2O	4.0 m H_2O	Continuous	102 x 59 x 87
F120	DC	PM	900	20 m H_2O	4.0 m H_2O	Continuous	126 x 61 x 101

DC/AC* = With separate electronics, PM = Permanent Magnet, ST = Stepper motor
Note: Minimum release quantities or regional availability may apply. Consult factory.

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	AC or DC*	LM	250	7.5 m H_2O	2.0 m H_2O	Continuous	46 x 53 x 72
LMF 4	AC or DC*	LM	300	9.0 m H_2O	3.0 m H_2O	Continuous	46 x 53 x 72
LMF Dosing	DC	LM	63	5.6 m H_2O	1.0 m H_2O	Continuous	46 x 53 x 88

DC* = With separate electronics, LM = Linear drive
Note: Minimum release quantities or regional availability may apply. Consult factory.

Liquid Peristaltic, Direct Drive

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	DIMENSIONS (mm) H x W x L
SR10/30	DC	PM	16-55	8 m H_2O	8 m H_2O	Continuous	68 x 54 x 40
SR10/30	DC	PM	20-80	8 m H_2O	8 m H_2O	Continuous	81 x 56 x 40
SR10/30	DC/AC*	ST	0.48-20	8 m H_2O	8 m H_2O	Continuous	38 x 53 x 40
SR10/50	DC	PM	52-220	8 m H_2O	8 m H_2O	Continuous	85 x 60 x 57
SR10/100	AC or DC	PSC/PM	1300-3000	8 m H_2O	8 m H_2O	Continuous	143 x 109 x 119

DC/AC* = With separate electronics, PM = Permanent Magnet, ST = Stepper motor, PSC = Permanent split capacitor
Note: Minimum release quantities or regional availability may apply. Consult factory.

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	DIMENSIONS (mm) H x W x L
SR18	AC	SY	3-50	10 m H_2O	8 m H_2O	Continuous	61.5 x 68 x 90
SR25	AC	SY	0.2-14	10 m H_2O	8 m H_2O	Continuous	92 x 86 x 80
SR25	AC or DC	SP/PM	2.0-746	10 m H_2O	8 m H_2O	Continuous	156 x 80 x 108
SR25-300S	DC/AC*	ST	0.1-430	10 m H_2O	8 m H_2O	Continuous	96 x 80 x 101

DC/AC* = With separate electronics, PM = Permanent Magnet, ST = Stepper motor, SP = Shaded Pole, SY = Syncro
Note: Minimum release quantities or regional availability may apply. Consult factory.

Notes

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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