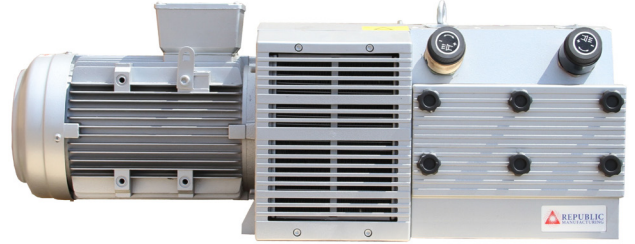


Republic offers the DVT series of dry-running rotary vane combination pumps and are ideally suited for oil free applications. They are single stage, air-cooled and direct driven for continuous operation. These rugged pumps are simple to install and easy to service and maintain. The smaller pumps come with a motor integrated, while the larger pumps are available with or without motor. These pumps have a displacement ranging from 9 to 95 CFM (16 to 164 m³/hr), a maximum vacuum of 17.7 in. Hg and maximum pressure of 8.7 psig.



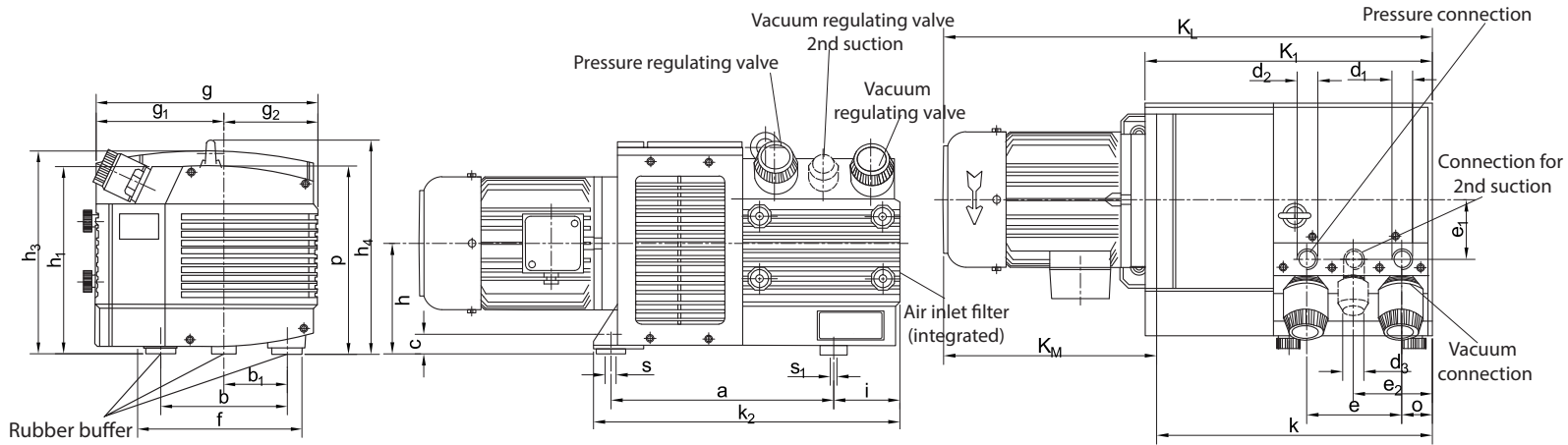
PERFORMANCE

Model	Displacement (cfm/m ³ /hr)		Ultimate Vacuum Max (in. hg./torr/bar)	Max Pressure (psig/bar)	Noise Level (dB)		Weight (lb/kg)	Motor Output		Voltage 3 Phase (V)		Speed (rpm)	
	50 Hz	60 Hz			50 Hz	60 Hz		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
3060	35/60	42/72	17.7/450/-0.6	8.7/0.6	75	78	164/74	3.0 kw	4.8 hp	230/400	208-230/460	1420	1710
3080	47/80	56/96	17.7/450/-0.6	8.7/0.6	75	78	175/79	4.0 kw	6.4 hp	230/400	208-230/460	1420	1710
3100	58/100	70/120	17.7/450/-0.6	8.7/0.6	77	80	285/129	5.5 kw	8.8 hp	230/400	208-230/460	1430	1720
3140	82/140	98/168	17.7/450/-0.6	8.7/0.6	78	81	309/140	7.5 kw	12.0 hp	230/400	208-230/460	1430	1720

Model	Measurement	Pressure (psig)	50 Hz Vacuum (in. Hg)				60 Hz Vacuum (in. Hg)			
			0	12	15	18	0	12	15	18
3060	Vacuum flow (cfm/m ³ /hr)	8.70	32.1/54.5	16.7/28.4	12.9/21.9	9.2/15.6	37.6/63.9	20.0/34.0	16.0/27.2	12.1/20.6
	Pressure flow (cfm/m ³ /hr)		33.1/56.2	24.4/41.5	21.8/37.0	19.1/32.4	39.5/67.1	28.4/48.3	25.5/43.3	22.4/38.1
	Power (hp/kw)		2.61/1.95	3.10/2.31	3.18/2.37	3.26/2.43	3.54/2.64	3.97/2.96	4.09/3.05	4.13/3.08
3080	Vacuum flow (cfm/m ³ /hr)	8.70	37.1/63.0	18.8/31.9	14.5/24.6	10.3/17.5	44.7/75.9	23.9/40.6	18.6/31.6	13.8/23.5
	Pressure flow (cfm/m ³ /hr)		38.1/64.7	30.1/51.1	27.5/46.7	24.9/42.3	47.4/80.5	36.8/62.5	33.0/56.1	29.5/50.1
	Power (hp/kw)		3.07/2.29	3.74/2.79	3.84/2.86	3.96/2.95	4.09/3.05	4.73/3.53	4.79/3.57	4.86/3.62
3100	Vacuum flow (cfm/m ³ /hr)	8.70	56.6/96.2	29.5/50.1	23.5/39.9	17.6/29.9	66.3/112.6	36.4/61.8	29.0/49.3	22.1/37.5
	Pressure flow (cfm/m ³ /hr)		58.0/98.5	43.4/73.7	39.2/66.6	34.6/58.8	69.3/117.7	51.6/87.7	45.7/77.6	40.0/68.0
	Power (hp/kw)		4.66/3.48	5.67/4.23	5.81/4.33	5.94/4.43	6.34/4.73	7.19/5.36	7.25/5.41	7.40/5.52
3140	Vacuum flow (cfm/m ³ /hr)	8.70	74.2/126.1	38.3/65.1	30.0/51.0	22.4/38.1	87.1/148.0	48.9/83.1	38.8/65.9	29.4/50.0
	Pressure flow (cfm/m ³ /hr)		81.2/138.0	58.3/99.1	52.4/89.0	45.9/78.0	95.4/162.1	68.3/116.0	60.6/103.0	53.0/90.0
	Power (hp/kw)		7.14/5.33	7.55/5.63	7.55/5.63	7.62/5.68	9.32/6.95	9.18/6.85	9.25/6.90	9.32/6.95

All measurements are ±10%

APPROXIMATE DIMENSIONS



Model	Unit	a	b	b1	d1	d2	d3	e	e1	e2	f	g	g1	g2	h	h1	h3	h4	i	k	k1	k2	kl	km	o	p
3060	in	12.7	7.5	3.7	1.0"	1.0"	0.75"	5.4	2.6	4.5	9.3	14.0	7.4	5.9	6.3	10.8	12.4	13.0	3.7	15.8	16.3	17.8	≤29	≤13	2.0	11.4
	mm	322	190	95	1.0"	1.0"	0.75"	138	65	115	235	355	189	150	161	275	314	331	94	401	414	451	≤729	≤330	50	289
3080	in	12.7	7.5	3.7	1.0"	1.0"	0.75"	5.4	2.6	4.5	9.3	14.0	7.4	5.9	6.3	10.8	12.4	13.0	3.7	15.8	16.3	17.8	≤29	≤13	2.0	11.4
	mm	322	190	95	1.0"	1.0"	0.75"	138	65	115	235	355	189	150	161	275	314	331	94	401	414	451	≤731	≤330	50	289
3100	in	15.7	9.7	5.3	1.5"	1.5"	1.25"	9.2	3.7	10.1	11.6	18.5	9.2	8.7	6.4	13.2	14.8	15.0	5.8	20.8	21.4	21.4	≤35	≤15	0.9	13.2
	mm	400	246	134	1.5"	1.5"	1.25"	234	95	257	295	470	233	222	162	335	376	382	147	528	543	543	≤895	≤374	24	336
3140	in	15.7	9.7	5.3	1.5"	1.5"	1.25"	9.2	3.7	10.1	11.6	18.5	9.2	8.7	6.4	13.2	14.8	15.0	5.8	20.8	21.4	21.4	≤36	≤16	0.9	13.2
	mm	400	246	134	1.5"	1.5"	1.25"	234	95	257	295	470	233	222	162	335	376	382	147	528	543	543	≤926	≤398	24	336

Optional Accessories

- Inlet filter
- Inlet check valve
- Vacuum gauge
- Motor starter
- Control panel
- PLC