

Republic offers the VRT series of dry-running rotary vane vacuum pumps and are ideally suited for oil-free applications. They are single stage, air-cooled and direct driven for continuous operation. The design is one of the most reliable and simplest vacuum pumps available. 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 5 to 176 CFM (10 to 300 m<sup>3</sup>/hr) and a maximum vacuum of 150 torr.

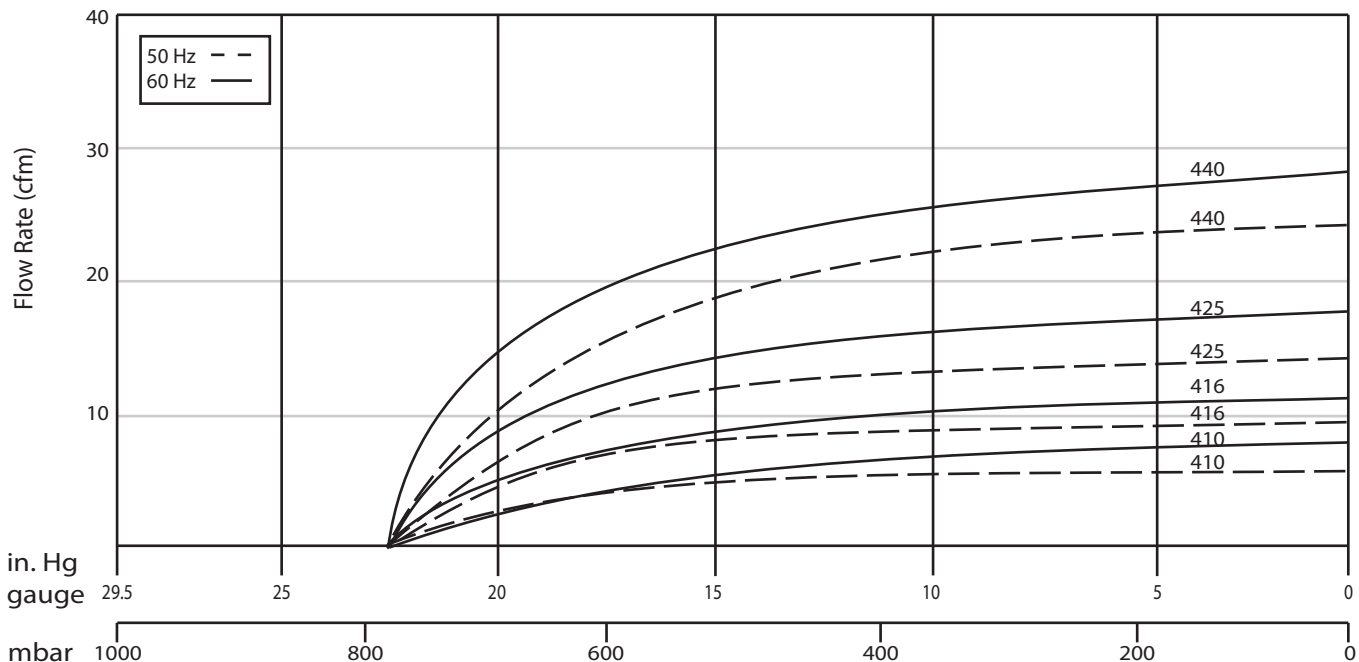


The VRT series is used in a variety of industries such as vacuum lifting, woodworking, environmental applications electronics, packaging, conveying, robotics, medical vacuum/central vacuum, and printing.

## PERFORMANCE

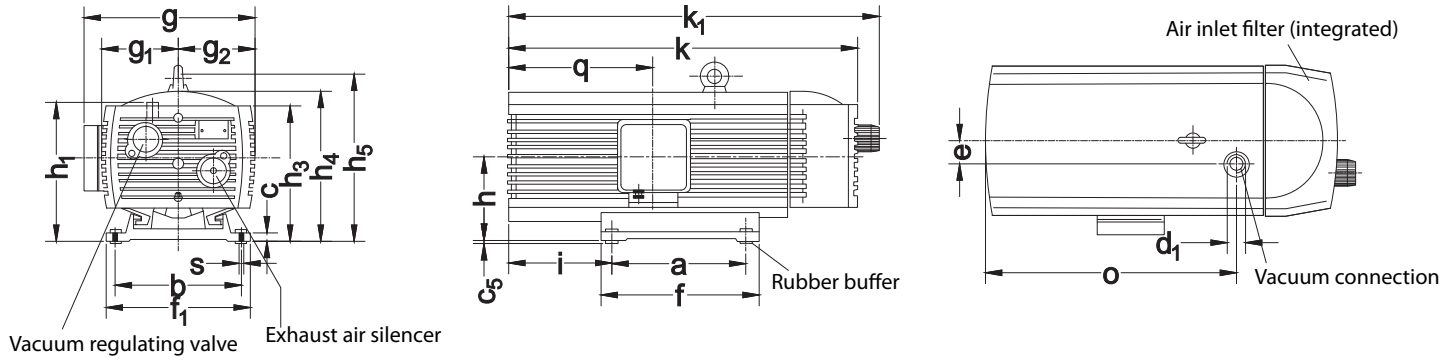
Model	Displacement (CFM/m <sup>3</sup> /hr)		Ultimate Vacuum Max (In. Hg./Torr/mbar)	Noise Level (dB)		Weight (lb/kg)
	50 Hz	60 Hz		50 Hz	60 Hz	
410	5/10	7/12	25.5/112.5/150	60	62	33.1/15
416	9/16	11/19	25.5/112.5/150	61	64	48.5/22
425	14/25	17/30	25.5/112.5/150	62	67	61.7/28
440	23/40	28/48	25.5/112.5/150	67	72	86.0/39

Model	Motor Output		Voltage 3 Phase (V)		Voltage 1 Phase (V)	Speed (rpm)	
	50 Hz	60 Hz	50 Hz	60 Hz	50/60 Hz	50 Hz	60 Hz
410	0.37 kw	0.59 hp	175-260/300-450	202-300/350-520	230	1420	1700
416	0.55 kw	0.88 hp	175-260/300-450	202-300/350-520	230	1420	1700
425	0.75 kw	1.21 hp	190-255/330-500	190-290/330-500	230	1420	1700
440	1.25 kw	2.01 hp	190-25/330-440	190-290/330-500	230	1420	1700



All measurements are ±10%

## APPROXIMATE DIMENSIONS



Model	Unit	a	b	c	c5	d1	e	f	f1	g	g1	g2	h	h1	h3	h4	h5	i	k	k1	o	q	s
410	in	8.1	5.0	0.6	0.1	0.5"	1.4	9.6	6.1	8.0	3.5	3.5	4.4	6.8	6.8	7.2	7.6	2.4	15.2	16.8	10.1	4.7	0.3
	mm	205	128	15	3	0.5"	35	244	156	202	89	89	113	172	173	183	192	60	387	426	257	119	7
416	in	8.1	5.0	0.6	0.1	0.5"	1.4	9.6	6.1	8.9	4.0	4.0	4.1	7.2	7.2	7.9	8.2	2.8	16.3	17.9	11.4	6.0	0.3
	mm	205	128	15	3	0.5"	35	244	156	225	102	102	105	183	183	201	208	70	415	454	289	152	7
425	in	8.7	7.8	0.6	0.1	0.75"	1.6	10.2	9.4	9.9	4.9	4.9	5.1	8.9	8.9	9.6	11.5	4.0	18.3	19.8	11.8	6.7	0.3
	mm	220	198	15	3	0.75"	40	260	240	252	125	125	131	226	227	245	292	101	465	502	300	170	7
440	in	8.7	7.8	0.6	0.1	0.75"	1.6	10.2	9.4	10.6	4.9	4.9	5.5	8.9	8.9	9.7	11.5	5.4	20.9	22.4	14.3	7.7	0.3
	mm	220	198	15	3	0.75"	40	260	240	270	125	125	140	226	227	247	292	136	531	570	362	196	7

### Optional Accessories

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