

DATA SHEET

DVT 3.100

ROTARY VANE PRESSURE/VACUUM PUMPS

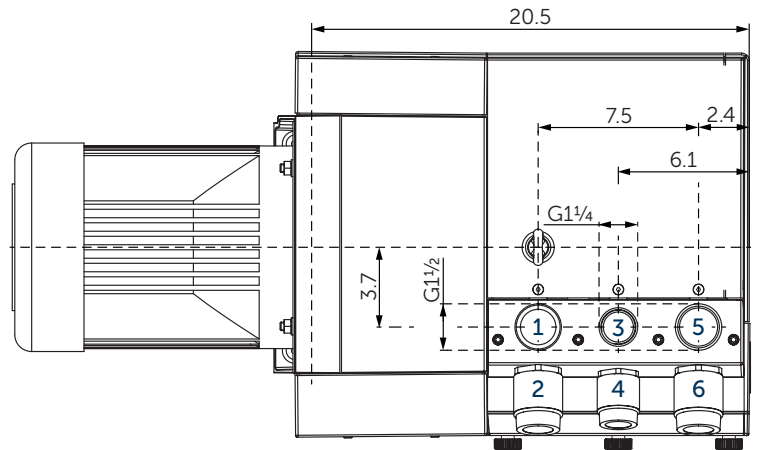
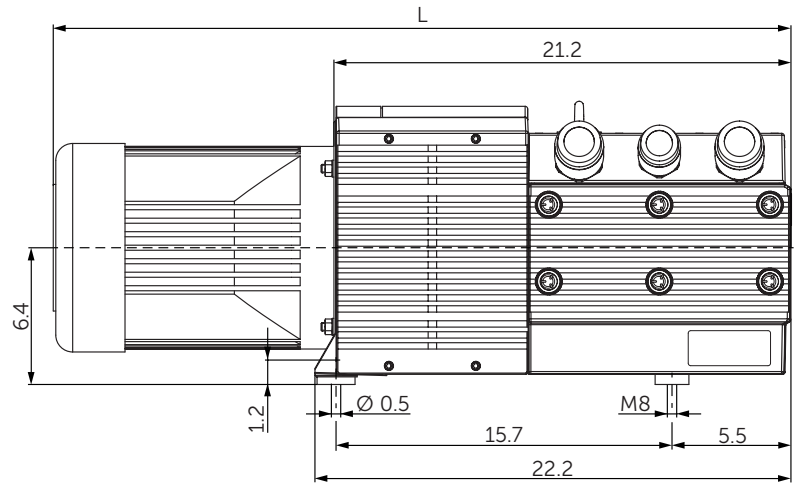
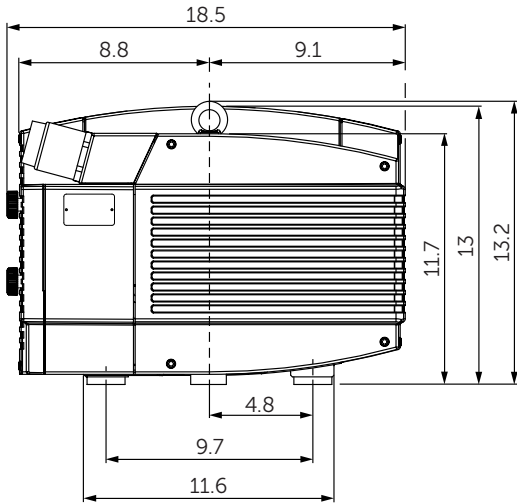
oil-free

air-cooled

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figure DVT 3.80



- 1 Pressure connection (G1½)
- 2 Pressure regulating valve
- 3 Option: second suction (G1¼)
- 4 Option: vacuum regulating valve for second suction
- 5 Vacuum connection (G1½)
- 6 Vacuum regulating valve
- The motor illustration may vary.
- Dimensions in inch

Capacity		Pressure		Vacuum		Motor		Emission sound pressure level ¹⁾		Weight without motor
CFM		PSIG		in. HgV		hp		dB(A)		lbs
50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	
60	70	7.25	7.25	15	15	7.5	7.5/9.0	76-77	77-78	156
60	70	8.7	8.7	18	18	7.5	7.5/9.0	76-77	77-78	156

¹⁾ DIN EN ISO 3744 (KpA = 3 dB(A)), interval of 39.4inch, at medium load, both connection sides piped

3~ Motors ¹⁾											L	
#	50 Hz				60 Hz				Version	Weight lbs	inch	
	hp	V	rpm	A	hp	V	rpm	A				
01	7.5	Δ400	IE3	1470	12.3	Δ460	IE3	1765	12.0	IP55 • ISO F • bimetal	116.9	36.0
						Δ400		1750	12.4			
02						YY230/Y460	IE3	1768	23.9/11.95	UL(E365362) • CSA IP55 • ISO F • bimetal	140.0	37.5
						YY208		1760	24.2			
03	7.5	Δ200/Y350	IE3	1465	21.5/12.4	Δ220/Y380-400	IE3	1755	22.5/13.0-12.7	UL(E365362) • CSA CC334B IP55 • ISO F • bimetal	140.0	37.5
						Δ200/Y350		1740	24.1/13.9			
04						Δ400/Y690	IE3	1760	12.5/7.2	UL(E365362) • CSA CC334B IP55 • ISO F • bimetal	140.0	37.5
05						YY230/Y460	IE3	1800	18.9/9.45	UL • CSA • NEMA • ISO F	180.0	37.0
						YY208		1750	20.9			

• Current consumption and rotation speed may vary. Tolerance in each case -1.5/+2%

Air rates • power consumptions • temperatures										
pressure			vacuum							
			50 Hz				60 Hz			
PSIG			0 in. HgV	12 in. HgV	15 in. HgV	18 in. HgV	0 in. HgV	12 in. HgV	15 in. HgV	18 in. HgV
+0.4	Suction air rate	CFM	56.3	30.0	23.8	17.5	66.3	36.6	29.4	22.2
	Blast air rate	CFM	57.8	43.9	39.5	34.6	69.2	51.6	45.9	39.8
	Power consumption	hp	4.30	5.28	5.43	5.58	6.04	6.80	6.85	6.95
	Temperature compressed air	°F	100.4	107.6	107.6	109.4	105.8	113	113	113
+0.5	Suction air rate	CFM	56.3	30.0	23.7	17.5	66.9	36.8	29.4	22.1
	Blast air rate	CFM	57.7	44.0	39.4	34.6	70.0	52.0	46.0	39.9
	Power consumption	hp	4.46	5.45	5.59	5.74	6.13	6.99	7.07	7.18
	Temperature compressed air	°F	102.2	109.4	111.2	111.2	109.4	114.8	114.8	114.8
+0.6	Suction air rate	CFM	56.6	29.5	23.5	17.6	66.3	36.4	29.0	22.1
	Blast air rate	CFM	58.0	43.4	39.2	34.6	69.3	51.6	45.7	40.0
	Power consumption	hp	4.66	5.67	5.81	5.94	6.34	7.19	7.250	7.40
	Temperature compressed air	°F	104	111.2	113	113	109.4	114.8	114.8	114.8

Reference data (atmosphere): 0 PSIG (in. HgV), 68°F

Tolerance: ±5%

Air temperature: 41°F ... 135°F

+ VARIANTS AND ACCESSORIES

- With first and second suction
- With external suction filter¹⁾
- Sound proof box SH 13¹⁾



Example for an external suction filter



Sound proof box SH 13

¹⁾ See separate data sheet
▪ Possible combinations on request



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