



PROVAC

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Varian CP-451

Technical Specifications

Characteristics	Unit	CP-201		CP-301		CP-451	
Frequency	Hz	50	60	50	60	50	60
Number of stages		2		2		2	
Rotation speed	rpm	1500	1800	1500	1800	1500	1800
Nominal flow rate	m ³ /h	9.7	11.6	15	18	20.7	24.8
	cfm		6.8		10.6		14.6
Flow rate Pneuop method	m ³ /h	8.5	10.2	12.5	15	16.5	20
	cfm		6		8.8		11.8
Partial ultimate pressure* with fluid***	Torr/mbar	3.75.10 ⁻⁴ / 5.10 ⁻⁴					
	Pa	5.10 ⁻²					
Ultimate pressure	Torr/mbar	1.5.10 ⁻³ / 2.10 ⁻³					
	Pa	2.10 ⁻¹					
Oil capacity	l	0.950		0.950		0.98	
Weight (pump + motor)**	kg (lbs)	26 (57)		27 (59.5)		28 (62)	
Inlet and exhaust end fittings	ISO-KF	DN 25					

* Partial ultimate pressure measured according to Pneuop 6602 specifications. It may vary if other oils are used

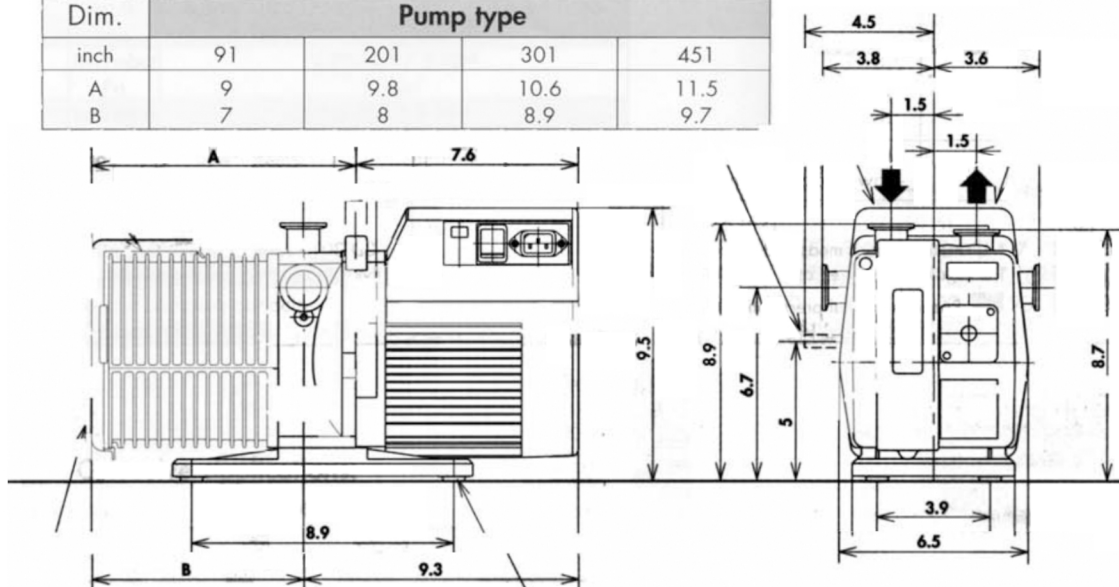
** These values are for pumps equipped with universal single-phase motors.

*** Prepared and tested with inert FomblinTM (Montedison) fluid.

Note: The pressure measurements were made with a capacitive diaphragm pressure gauge measuring a total pressure in the absence of a cold trap. Measurements using a Pirani type gauge can give different pressure values.

Dimensions

Dim.	Pump type			
inch	91	201	301	451
A	9	9.8	10.6	11.5
B	7	8	8.9	9.7





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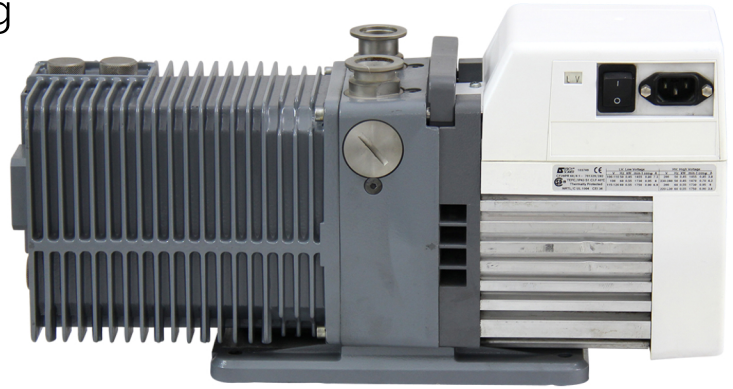
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Varian CP-451 Features & Benefits

- CP Series have increased resistance to meet requirements of more aggressive processes of the semiconductor industry
- fold-away handle for carrying
- direct drive motor
- anti-suckback system
- gas ballast valve
- vertical sight glass
- neutral gas purge



Applications

- research & development • physics & chemistry labs • freeze drying
- pharmaceuticals • electronic tube manufacturing • metallurgy
- drying systems • refrigeration systems • chemical industry
- instrumentation • mass spectrometry • centrifuges • electron microscopes • leak detection systems • semiconductor

