



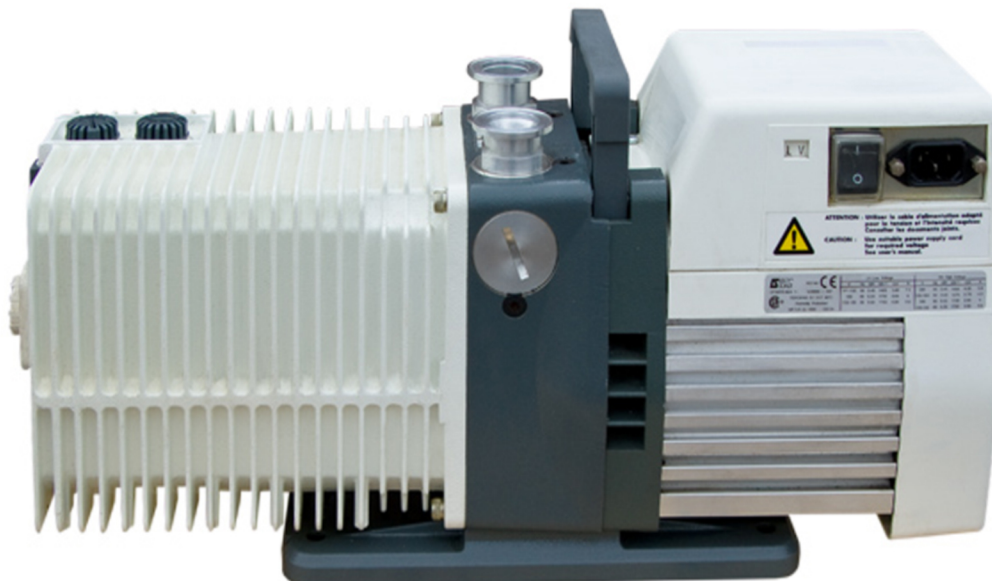
Varian CD-451

Technical Specifications

Characteristics	Unit	SD-91		SD-201		SD-301		SD-451	
Frequency	Hz	50	60	50	60	50	60	50	60
Number of stages		2		2		2		2	
Rotation speed	rpm	1500	1800	1500	1800	1500	1800	1500	1800
Nominal flow rate	m ³ /h	5.4	6.5	9.7	11.6	15	18	20.7	24.8
	cfm		3.8		6.8		10.6		14.6
Flow rate Pneuop method	m ³ /h	4.8	5.7	8.5	10.2	12.5	15	16.5	20
	cfm		3.4		6		8.8		11.8
Partial ultimate pressure* with Varian GP type oil	Torr/mbar /Pa	7.5.10 ⁻⁵ / 1.10 ⁻⁴ 1.10 ⁻²							
Ultimate pressure with gas ballast closed	Torr/mbar /Pa	1.5.10 ⁻³ / 2.10 ⁻³ 2.10 ⁻¹							
Ultimate pressure with gas ballast open	Torr/mbar /Pa	1.5.10 ⁻² / 2.10 ⁻² 2							
Oil capacity	l	0.83		0.950		0.950		0.98	
Weight (pump + motor)**	kg (lbs)	25 (55)		26 (57)		27 (59.5)		28 (62)	
Maximum water vapour pumping capacity (Ballast flowrate 1.1 m ³ /h)	mbar	35	25	20	15	12	10	7	7
	Pa	35.10 ²	25.10 ²	2.10 ³	15.10 ²	12.10 ²	1.10 ³	7.10 ²	7.10 ²
Water vapour pumping capacity	g/h	120	110	125	100	110	100	90	90
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.





PROVAC

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Varian CD-451 Features & Benefits

- direct drive motor
- compact design
- electrically insulated fold-away handle for carrying
- anti-suckback system
- gas ballast enables pumping of condensable vapors
- motor can be disassembled from pump without draining the oil
- vertical sight glass on oil case
- neutral gas purge

Applications

- research & development • physics & chemistry labs • pharmaceuticals
- free-drying foods • electron tube manufacture • metallurgy • drying systems • refrigeration systems • chemical industry • instrumentation
- mass spectrometry • centrifuges • electron microscopes • leak detection systems