



Leybold Dryvac 25P, 50P, 100P

Technical Specifications

DRYVAC 25P	50P	100P
Pumping Speed		
50 Hz operation 25 m ³ · h ⁻¹ (14.7 cfm)	45 m ³ · h ⁻¹ (26.5 cfm)	100 m ³ · h ⁻¹ (59 cfm)
60 Hz operation 30 m ³ · h ⁻¹ (17.7 cfm)	55 m ³ · h ⁻¹ (32.4 cfm)	100 m ³ · h ⁻¹ (59 cfm)
Ultimate pressure* with purge-control plate set to "ETCH"		
50 Hz operation 4 · 10 ⁻² mbar (3x10 ⁻² Torr)	4 · 10 ⁻² mbar (3x10 ⁻² Torr)	1.5 · 10 ⁻² mbar (1.1x10 ⁻² Torr)
60 Hz operation 2.5 · 10 ⁻² mbar (1.9x10 ⁻² Torr)	2.5 · 10 ⁻² mbar (1.9x10 ⁻² Torr)	1.5 · 10 ⁻² mbar (1.1x10 ⁻² Torr)
Maximum intake pressure		
in continuous operation 1000 mbar (750 Torr)	300 mbar (225 Torr)	150 mbar (112 Torr)
Motorpower 2.8 kW (3.8 hp)	2.8 kW (3.8 hp)	4.0 kW (5.4 hp)
Rotational speed of pump		
50 Hz operation 3000 rpm	3000 rpm	3000 rpm
60 Hz operation 3600 rpm	3600 rpm	3000 rpm
Noise level with the exhaust		
line connected 62 dB(A)	62 dB(A)	68 dB(A)
Cooling water requirements (approx.) at		
a water temp. of 15°C (59°F) 70 l · hr ⁻¹ (18.5 gal/hr)	70 l · hr ⁻¹ (18.5 gal/hr)	100 l · hr ⁻¹ (26.4 gal/hr)
Maximum cooling water temp. 25°C (77°F)	25°C (77°F)	25°C (77°F)
Cooling water pressure* 2 – 10 bar (14 – 130 psig)	2 – 10 bar (14 – 130 psig)	2 – 10 bar (14 – 130 psig)
Cooling water connection, female threads NPT 1/2"	NPT 1/2"	NPT 1/2"
Inert gas pressure* 4 – 10 bar (43 – 130 psig)	4 – 10 bar (43 – 130 psig)	4 – 10 bar (43 – 130 psig)
Inert gas connection, female threads NPT 3/8"	NPT 3/8"	NPT 3/8"
Inert gas flow Refer to Table 1	Refer to Table 1	Refer to Table 1
Barrier gas pressure* 1.5 bar (7 psig)	1.5 bar (7 psig)	1.5 bar (7 psig)
Purge gas pressure* 3.0 bar (29 psig)	3.0 bar (29 psig)	3.0 bar (29 psig)
Lubricant quantity in gear box 0.75 l (0.8 qt)	0.75 l (0.8 qt)	0.8 l (0.85 qt)
Maximum ambient temperature 40°C (104°F)	40°C (104°F)	40°C (104°F)
Weight 170 kg (375 lbs)	180 kg (397 lbs)	210 kg (463 lbs)
Intake port DN 63 ISO-K	DN 63 ISO-K	DN 63 ISO-K
Exhaust port DN 25 KF	DN 25 KF	DN 40 KF

*All pressures given in bar or mbar are absolute values.

Applications

- semiconductor • etching CVD





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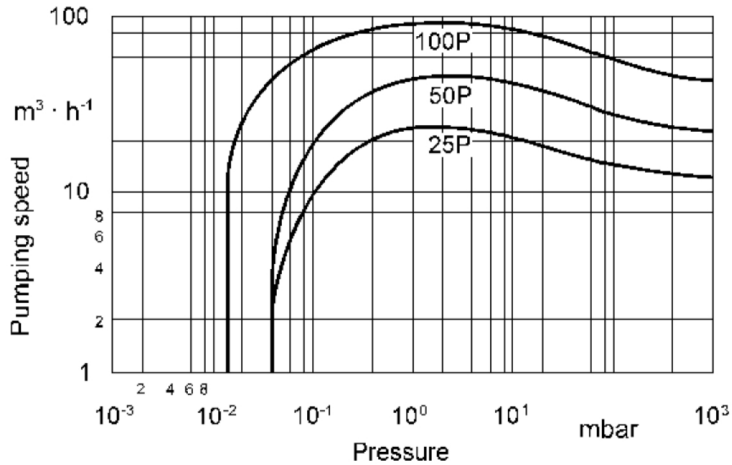
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Leybold Dryvac 25P, 50P, 100P Pumping Curves

50Hz



60Hz

