

Rocking Piston Type Dry Vacuum Pumps DOP Series

Features

Rocking type piston vacuum pump creates vacuum by reciprocal motion of cup packing inside the cylinder. Pressurized type is available for DOP-80S which can be used as a small compressor. (DOP-80SP)

Applications

(Vacuum)

- Vacuum chuck, vacuum tweezers.
- Absorption and transfer of automatic machines.
- Vacuum packing printing machines.
- Tip mounter.
- Medical equipments.
- Oxygen generator.

(Pressure)

- Pressure source for automatic machines.
- Air pressure unit.
- Printing machine.
- Otorhinolaryngology, dental unit.
- Air pressure meter.



DOP-40D



DOP-80S



DOP-80SP

Specifications

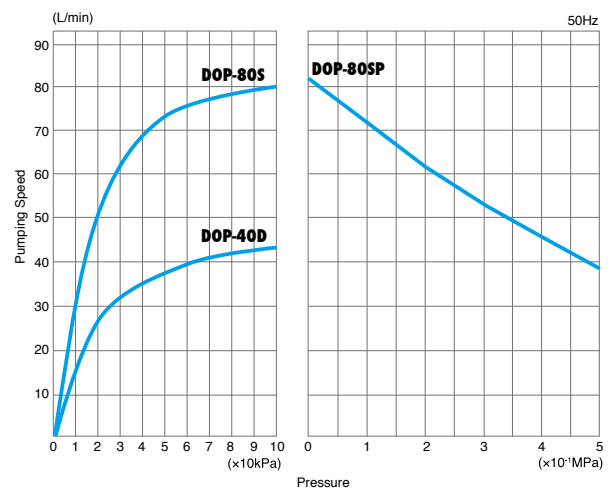
Model	Unit	DOP-40D		DOP-80S		DOP-80SP	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	40	44	80	88	80	84
	m ³ /h	2.40	2.64	4.80	5.28	4.80	5.04
	CFM	1.41	1.55	2.82	3.11	2.82	2.97
Ultimate pressure	Pa (kPa)	1.2 × 10 ³ (-100.1)		5.33 × 10 ³ (-96.0)		Only for pressure	
	Torr	9.00		40.0			
	mbar	12.0		53.3			
Maximam pressure	MPa	-		-		0.5	
Motor		Single phase, 220V, 210W, 4P, Capacitor run		Single phase, 220V, 210W, 4P, Capacitor run		Single phase, 220V, 300W, 4P, Capacitor run	
Full load current	A	1.7	1.9	1.7	1.9	2.4	2.5
Weight	kg	7.0		7.0		9.0	
Inlet, outlet pipe diameter	mm	O.D. dia.9 × I.D. dia.5 (Rc 1/4)		O.D. dia.9 × I.D. dia.5 (Rc 1/4)		O.D. dia.9 × I.D. dia.5 (Rc 1/4)	
Ambient temperature	°C	7 - 40		7 - 40		7 - 40	
	°F	44.6 - 104		44.6 - 104		44.6 - 104	
Overall dimensions	mm	160(W) × 270(L) × 179(H)		160(W) × 270(L) × 179(H)		167.5(W) × 288(L) × 181(H)	

Corresponding voltage and Certificate

Model	Voltage	CE Marked	TUV Marked	cTUVus Marked
DOP-40D	Single phase, 100V	—	—	—
	Single phase, 115V	—	—	—
	Single phase, 200V	—	—	—
	Single phase, 220V	—	—	—
DOP-80S	Single phase, 100V	—	—	—
	Single phase, 115V	—	—	—
	Single phase, 200V	—	—	—
	Single phase, 220V	—	—	—
DOP-80SP	Single phase, 100V	—	—	—
	Single phase, 220V	—	—	—

— : Not Available, ✓ : Available

Pumping speed curves



Rocking Piston Type Dry Vacuum Pumps DOP Series

Features

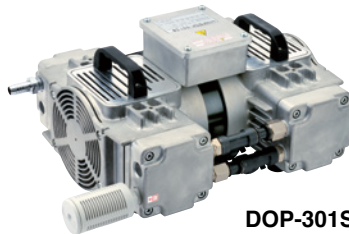
Rocking type piston vacuum pump creates vacuum by reciprocal motion of cup packing inside the cylinder. Bigger volume of pumping speed with increased number of pump heads.

Applications

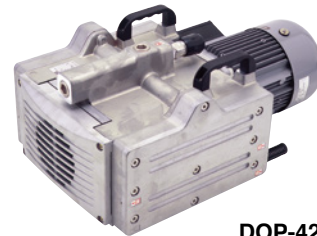
- Vacuum chuck, vacuum tweezers.
- Semiconductor industry. (Handler, Mounter)
- FPD industry. (Bonder)
- Printing machine.
- Injection molding.
- Adsorption and transfer.



DOP-181SD



DOP-301SB



DOP-420SA

Specifications

Model	Unit	DOP-181SD		DOP-301SB		DOP-420SA	
		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Actual pumping speed	L/min	180.0	200.0	300.0	330.0	420	460
	m ³ /h	10.8	12.0	18.0	19.8	25.20	27.60
	CFM	6.3	7.0	10.5	11.6	14.83	16.24
Ultimate pressure	Pa (kPa)	10.0 × 10 ³ (-91.3)		8.0 × 10 ³ (-93.3)		17.3 × 10 ³ (-84.0)	
	Torr	75.0		60.0		130	
	mbar	100.0		80.0		173	
Motor		Single phase, 220V, 400W, 4P		Three phase, 200 – 230V, 400W, 4P		Three phase, 200V, 550W, 4P	
Full load current	A	2.9	2.6	2.1	2.5	3.5	3.1
Weight	kg	12.0		20.0		33.0	
Inlet, outlet pipe diameter	mm	(Rc 3/8)		O.D. dia.16 × I.D. dia.12 (Rc 1/2)		O.D. dia.26 × I.D. dia.20 (Rc 3/4)	
Ambient temperature	°C	7 – 40		0 – 40		0 – 40	
	°F	44.6 – 104		32 – 104		32 – 104	
Overall dimensions	mm	162(W) × 266(L) × 235(H)		315(W) × 443(L) × 231(H)		310(W) × 523(L) × 253(H)	

Corresponding voltage and Certificate

Model	Voltage	CE Marked	TUV Marked	cTUVus Marked
DOP-181SA	Single phase, 100V	✓	✓	✓
DOP-181SB	Single phase, 115V	✓	✓	✓
DOP-181SC	Single phase, 200V	✓	✓	✓
DOP-181SD	Single phase, 220V	✓	✓	✓
DOP-181SE	Three phase, 200 – 230V	✓	✓	✓
DOP-301SB	Three phase, 200 – 230V	✓	✓	✓
DOP-420SA	Three phase, 200V	✓	✓	—

— : Not Available, ✓ : Available

Pumping speed curves

