



Company

For 60 years PVR has been a leader providing high quality and reliable vacuum pumps. PVR means primarily trusted and advanced technologies, but also sustainable development for the stakeholders, environmental protection and focus on energy saving. The experience acquired during these years of activities, allows PVR to offer products and services that are always reliable and innovative.



Provide trusted & advanced technologies

sevencom.it



Machining Division

With a view to verticalization of its processes and increased capacity to provide more services to customers, PVR has had a specialized Machining Division for brass, steel, cast iron, stainless steel, and aluminum components since 2023.

Professionalism, experience, and quality characterise PVR Machining Division in the machining of numerous parts for vacuum pumps and components in the industrial, automotive, petrochemical, hydraulic, and electrical sectors.



Dry screw vacuum pumps **SCREWVAC SD Series**



Service

PVR guarantees a qualified advice for every inquiry thanks to its skilled technical/sales office that supports every project. The Service Department assists and advises our customers with scheduled maintenance, qualified overhauls and spare parts ready for delivery.



PVR Srl

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MACHINING DIVISION:

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042401-EN

SCREWVAC SD Series

Dry screw vacuum pumps

The SCREWVAC series dry screw vacuum pumps, thanks to the exclusive "hybrid" design of the high efficiency rotors, allow significant energy savings and a low exhaust gas temperature. Hybrid Variable Pitch developed by combining and maximizing advantages of both Single pitch and Variable pitch.



Applications

Pharmaceuticals: Evaporation, Crystallization, Distillation, Filtration, Solvent Recovery
 Polymers: Extrusion
 Glass and solar: Impregnation and Coating
 Metallurgy: Steel Degassing
 Food: Vacuum Process
 LNG (Liquefied natural gas): Vacuum Insulation



Also available in
VFD version
Variable
Frequency Drive

		SD 120	SD 250	SD 350	SD 650	SD 1500	SD 2500
Nominal pumping speed	m ³ /h	110	250	330	660	1250	2250
		130	300	400	800	1500	2700
Ultimate pressure (abs)	mbar	≤ 0,07	≤ 0,01	≤ 0,01	≤ 0,01	≤ 0,07	≤ 0,07
Motor power	kW	4	7,5	7,5	15	30	45
		4	7,5	11	18,5	45	55
Motor speed	min ⁻¹	2900	2900	2900	2900	1450	1450
		3500	3500	3500	3500	1750	1750
Noise level	dB(A)	75	77	79	80	81	82
		77	79	81	82	83	84
Cooling water (@ 15°C)	l/min	5 - 10	10 - 15	10 - 15	15 - 20	30 - 40	40 - 50
Dimensions	mm L x B x H	1142x315x617	1309x415x778	1415x465x805	1722x546x895	2400x711x1110	2718x1020x1241
Total weight	kg Bareshaft	165	350	460	630	1540	2250



SCREWVAC SD 350 VFD

SCREWVAC SD 350 BARESHAFT

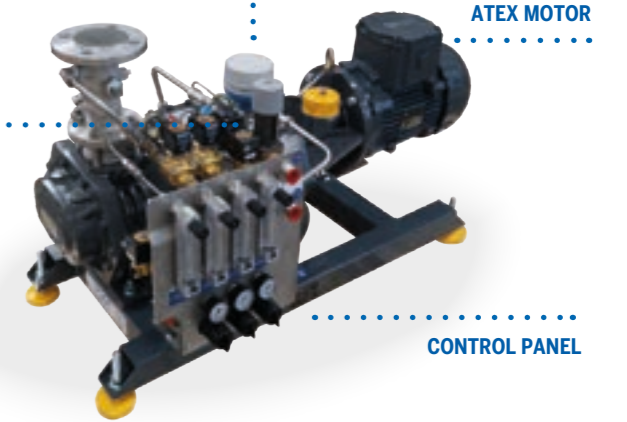


Accessories

A series of accessories are available to qualify the pump according to the specific application and the sucked gases:

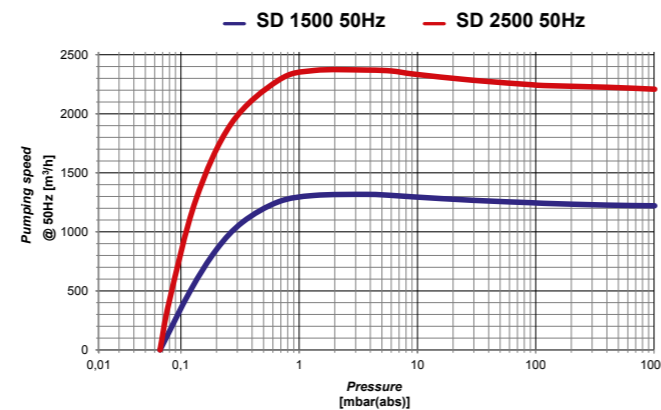
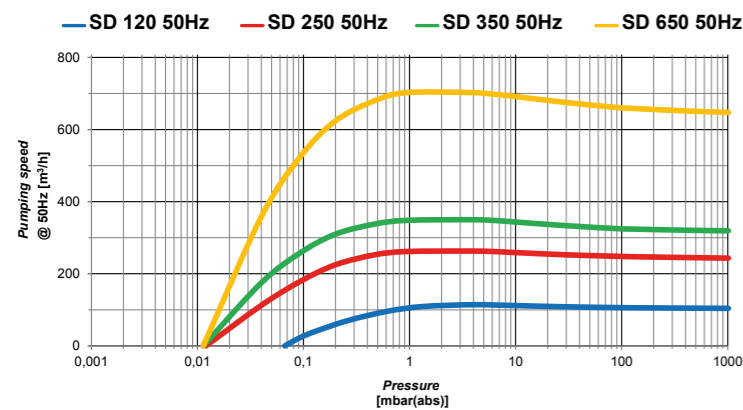
- Inlet Filter
- Inlet Purge kit
- Seal Purge kit
- Solvent Flush kit
- Gas Ballast kit
- Exhaust Silencer(304SS)
- Non Return Valve (304SS)

TEMPERATURE ELEMENT (TE)



SCREWVAC SD 120

Screwvac SD BARESHAFT series screw pumps can be ATEX certified up to category II 2G Ex h T4 IIC Gb



Advantages

- Efficient water cooling system allows to better manage the operating temperature of the pump, adapting it to the application purpose.
- Immediate Solvent Recovery at Pump Exhaust
- No Contamination of Process Stream
- Low Discharge Temperature
- Long service intervals
- Low cost of maintenance

Furthermore, a special surface treatment of the screws and the stator increases resistance to corrosion, extending the life of the pump. Atex version available.

