

Dry Scroll Vacuum Pump

Brand : AGILENT (VARIAN)



Description : ปั๊มสุญญากาศแบบสกรอลล์ ไม่ใช้น้ำมันหล่อลื่น ผลิตจากประเทศอิตาลี สามารถทำสุญญากาศได้ 1-0.009 mbar Abs. มีระบบ Gas ballast และระบบป้องกันน้ำมันและอากาศไหลย้อนกลับทางด้านดูด (Non-return valve) เหมาะกับใช้งานที่เป็นระบบปิดที่ต้องการความสะอาด

เหมาะสำหรับการทำสุญญากาศแก่ระบบปิดในงานประเภท ;

- Vacuum coating
- Freeze dryer
- Mass spectrometry
- Leak detection
- Laboratory / research
- Refrigeration
- Drying
- Vacuum oven
- Sterilizing
- Impregnation
- Lamps
- CRT
- Semiconductor
- Etc.

Pump Specifications

	IDP-2	IDP-3	SH-110
Pumping speed 60 Hz l/min, m ³ /h, cfm 50 Hz l/min, m ³ /h, cfm	35, 2.1, 1.2 30, 1.8, 1.1	60, 3.6, 2.1 50, 3.0, 1.8	110, 6.6, 4.0 90, 5.4, 3.3
Ultimate pressure, mbar (Torr)	1.0 (7.5 x 10 ⁻¹)	3.3 x 10 ⁻¹ (2.5 x 10 ⁻¹)	6.6 x 10 ⁻² (5 x 10 ⁻²)
Maximum inlet pressure, atm (psig)	1.0 (0)	1.0 (0)	1.0 (0)
Maximum outlet pressure, atm (psig)	1.4 (6.5)	1.4 (6.5)	1.5 (7.5)
Inlet connection	NW16	NW16	NW25
Exhaust connection	¼ " Female NPT (10 mm hose barb provided)	¼ " Female NPT (10 mm hose barb provided)	¼ " Female NPT (NW16 adapter provided)
Gas ballast	¼ " Female NPT (20 micron sintered plug provided)	¼ " Female NPT (20 micron sintered plug provided)	¼ " Female NPT (20 micron sintered plug provided)
Motor rating (1 phase), HP (kW)	0.16 (0.12)	0.16 (0.12)	0.25 (0.19)
10 60 Hz 30 50 Hz 60 Hz 50 Hz	100, 115, 220-230 V 100, 220-230 V — —	100, 115, 220-230 V 100, 220-230 V — —	100-115, 200-230 V 100-115, 200-230 V — —
Operating voltages (610%)	24 VDC	24 VDC	—
Motor thermal protection	Type U automatic	Type U automatic	Type U automatic
Operating speed 60 Hz (rpm) 50 Hz (rpm)	3200 2600	3200 2600	1725 1425
Cooling system	Air-cooled	Air-cooled	Air-cooled
Ambient operating temperature, °C (°F)	5 to 40 (41 to 108)	5 to 40 (41 to 108)	5 to 40 (41 to 104)
Storage temperature, °C (°F)	-20 to 60 (-4 to 140)	-20 to 60 (-4 to 140)	-20 to 60 (-4 to 140)
Weight pump only, kg (lbs)	9.5 (21)	9.5 (21)	19 (43)
Shipping weight, kg (lbs)	10.5 (23)	10.5 (23)	20 (44)
Noise level (per ISO 11201), dB(A)	55	55	56
Vibration level (per ISO 10816-1) mm/sec	1.5	1.5	1.5



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TriScroll 300	TriScroll 600	TriScroll 300 Inverter	TriScroll 600 Inverter
250, 15, 8.8 210, 12.6, 7.4	500, 30, 17.7 420, 25.2, 14.8	250, 15, 8.8	500, 30, 17.7
1.3×10^{-2} (1×10^{-2})	9.3×10^{-3} (7×10^{-3})	1.3×10^{-2} (1×10^{-2})	9.3×10^{-3} (7×10^{-3})
1.0 (0)	1.0 (0)	1.0 (0)	1.0 (0)
1.1 (1.5)	1.1 (1.5)	1.1 (1.5)	1.1 (1.5)
NW25	NW40	NW25	NW40
¼ " Female NPT with swivel (NW16 adapter provided)	¼ " Female NPT with swivel (NW25 adapter provided)	¼ " Female NPT with swivel (NW16 adapter provided)	¼ " Female NPT with swivel (NW25 adapter provided)
¼ " Female NPT (40 micron sintered filter provided)	¼ " Female NPT (40 micron sintered filter provided)	¼ " Female NPT (40 micron sintered filter provided)	¼ " Female NPT (40 micron sintered filter provided)
0.75 (0.56)	1.0 (0.76)	0.67 (0.5)	0.67 (0.5)
100-115, 200-230 V 100-115, 200-230 V 200-230, 460 V 200-230, 380-415 V	100-115, 200-230 V 100-115, 200-230 V 200-230, 460 V 200-230, 380-415 V	100-115, 200-240 V 100-115, 200-240 V — —	200-240 V 200-240 V — —
Type U automatic	Type U automatic	Automatic	Automatic
1725 1425	1725 1425	1800 @ 62 Hz	1800 @ 62 Hz
Air-cooled	Air-cooled	Air-cooled	Air-cooled
5 to 40 (41 to 104)	5 to 40 (41 to 104)	5 to 40 (41 to 104)	5 to 40 (41 to 104)
-20 to 60 (-4 to 140)	-20 to 60 (-4 to 140)	-20 to 60 (-4 to 140)	-20 to 60 (-4 to 140)
26.4 (57)	32 (70)	26 (57)	31 (68)
34.2 (75)	40 (87)	34 (74)	39 (85)
68	68	Variable with frequency 55-68	Variable with frequency 55-68
6.3	6.3	Variable with frequency	Variable with frequency

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