



SERVICE OF VACUUM PUMP SYSTEMS
2442 Etnick Blvd. Bethlehem, PA 18020
For Service Call (610) 625-1505
www.polvac.com



Dry Scroll Vacuum Pump

ISP Series



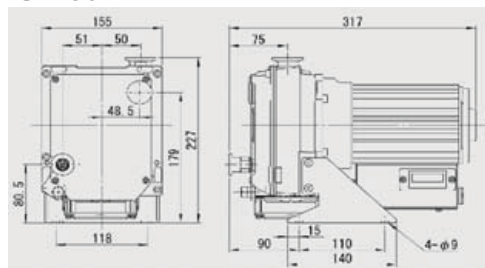
UL E114900
Dry Scroll Vacuum Pump
1/2 HP to 10 HP
115V to 480V



ISP-50



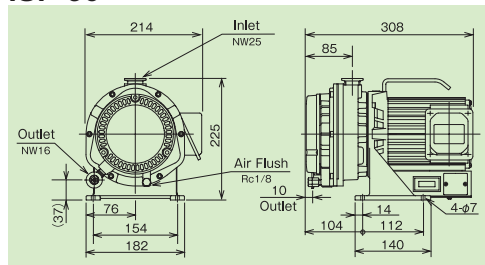
ISP-50



ISP-90



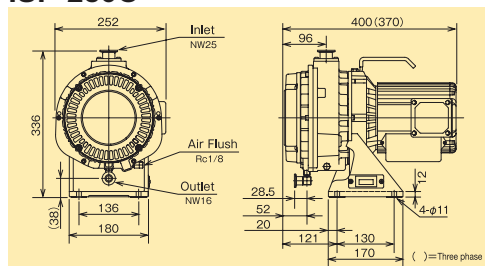
ISP-90



ISP-250C

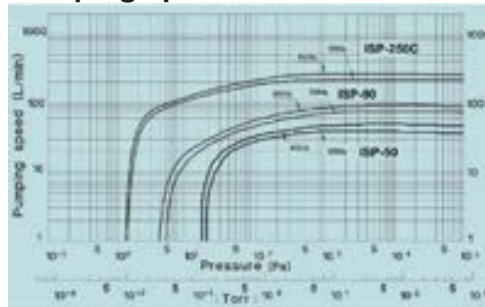


ISP-250C



Trade name		Oil free scroll vacuum pump			
Model		ISP-50-SV1	ISP-50-SV2	ISP-90	ISP-250C
Pumping speed	L/min (CFM) 50/60Hz	50/60 (1.8/2.1)	90/108 (3.2/3.8)	250/300 (8.8/10.6)	
Ultimate pressure	Pa(Torr)	≤ 15 (1.1x10 ⁻¹)	≤ 5 (3.7x10 ⁻²)	≤ 1.6 (1.2x10 ⁻²)	
Motor power	W	100	150	400	
Voltage	V	1Ph 100,115	200,230	100,115,200,230	
	3Ph	-	-	200,208,230,380,415,460	
Noise level	dB (A)	48	52	58	
Noise level (at air-flush)		57	57	66	
Weight	kg	1Ph 12	14	25	
	3Ph	-	-	23	
Leak tightness	Pa · m ³ /s	≤ 1.0x10 ⁻⁷	≤ 1.0x10 ⁻⁸	≤ 1.0x10 ⁻⁵	
Water vapor capacity	g/day	3	5	25	
Air flush	L/min	4	9	10	
Inlet connection	NW	25			
Outlet connection	NW	16			
Cooling system		Air-cooled			
Ambient temperature	°C / °F	5 ~ 40 / 41 ~ 104			

Pumping speed



How to Select

ISP - 500C - T - V

Inlet V=Vertical H=Horizontal
T=Three phase S=Single phase
500=Displacement of Pump
Vacuum Pump Model



Single Phase Motor



Three Phase Motor



Vertical Inlet



Horizontal Inlet



RoHS Conformity



CSA Conformity

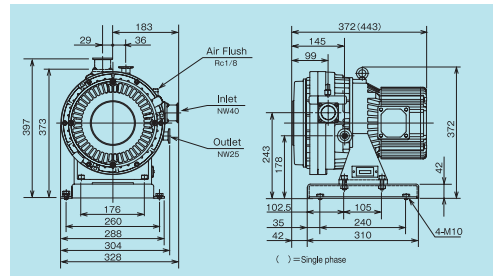


CE Conformity

ISP-500C



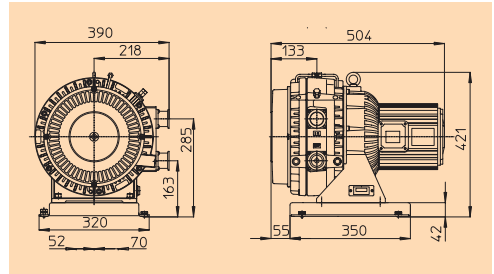
ISP-500C



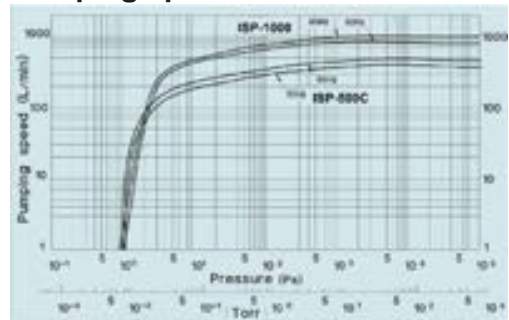
ISP-1000



ISP-1000



Pumping speed

**Air Flush**

Air Flush

Purpose for Air Flush - Pumping humid gas with a vacuum pump can cause condensed moisture to remain in the pump. This remaining moisture can cause a failure to the pump or ultimate pressure. The Air Flush operation is necessary to remove remaining moisture. The Air Flush operation not only removes the remaining moisture but recovers ultimate pressure.

Synchrotron Facility

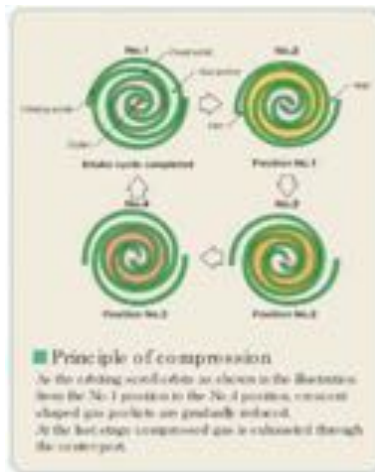
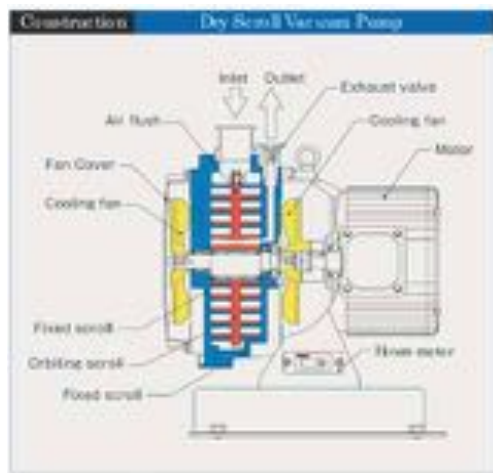


Trade name		Oil free scroll vacuum pump	
Model		ISP-500C	ISP-1000
Pumping speed	L/min (CFM) 50/60Hz	500/600 (17.7/21.2)	1000/1200 (35.3/42.4)
Ultimate pressure	Pa(Torr)	$\leq 1 (7.5 \times 10^{-3})$	$\leq 1 (7.5 \times 10^{-3})$
Motor power	W	600	1400
Voltage	V	1Ph 100,115,200,230	-
	3Ph	200,208,230,380,415,460	-
Noise level	dB (A)	60	67
Noise level (at air-flush)		68	74
Weight	kg	1Ph 44	-
	3Ph	38	60
Leak tightness	Pa · m ³ /s	$\leq 1.0 \times 10^{-5}$	
Water vapor capacity	g/day	25	
Air flush	L/min	10	
Inlet connection	NW	40	
Outlet connection	NW	25	40
Cooling system		Air-cooled	
Ambient temperature	°C / °F	5 ~ 40 / 41 ~ 104	10 ~ 40 / 50 ~ 104

Applications

- Sputtering equipment, Vacuum deposition equipment, Ion plating equipment
- Gas recovery devices
- Leak detectors
- Device Handling system

- Surface modification, Electron beam process
- Vacuum furnace, Heat treatment furnace
- Laboratory use
- Vacuum packaging machine
- Others



Precaution on Usage

- This vacuum pump is suitable for use on **Clean processes only**.
- Do not use explosive, flammable, toxic or corrosive substances or substances which contain chemicals, solvents or particles.
- ANEST IWATA will not perform maintenance work on pumps which have used hazardous substances.
- Do not disassemble, reassemble or alter pump and parts on user's side.
- Be sure to read instruction manual and understand it fully before use.
- When maintenance interval has been reached, be sure to contact our distributor who sold it to you.
- The guarantee period is based on instruction manual. Maintenance interval and the guarantee period are different.



Precaution on installation

Danger of explosion and fire

- Install in an area which is not exposed to explosives, flammable gas, or other related things.
- Pumps which are shown in this catalog do not have breaker for avoiding motor burnout by installing. Avoid motor burnout using breaker.
- Electric source cord is not included in the pump. Use electric source cord which is instructed by instruction manual.
- This vacuum pump is required maintenance by interval which is shown on the instruction manual.
- Install the pump where it has enough ventilation and available maintenance.

distributed by:

Try to Dry

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