

Dry Scroll Vacuum Pump

ISP series Air-cooled



LR104996
Our product have got
CSA approval (Canadian
Standards Association)



Scroll Meister

anest-iwata.co.jp

ANEST
IWATA

OILFREE SCROLL VACUUM PUMP

ISP-90



ISP-250c



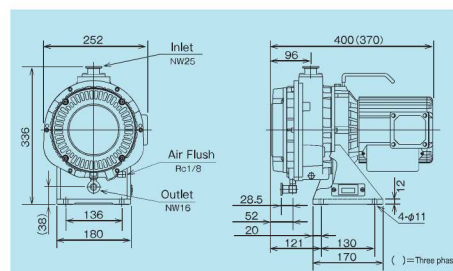
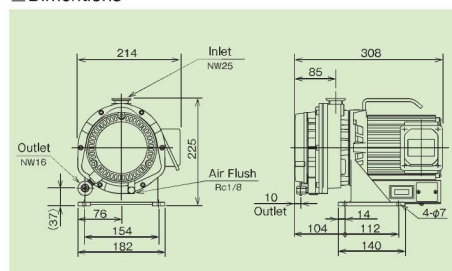
ISP-500c



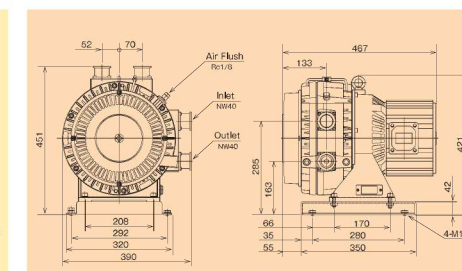
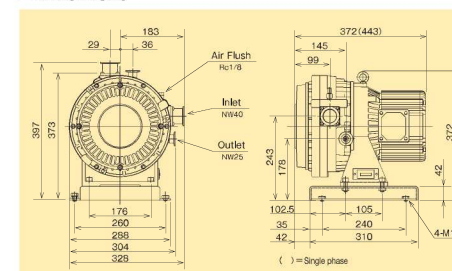
ISP-1000



■ Dimensions

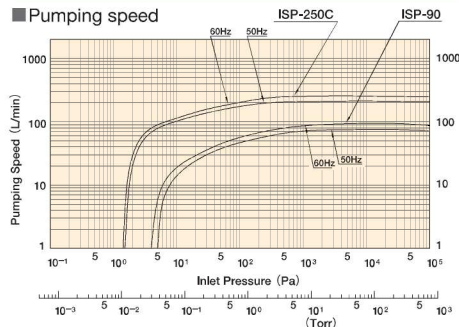


■ Dimensions



Trade name		Oil free scroll vacuum pump	
Model		ISP-90	ISP-250C
Displacement	L/min 50/60Hz	90/108	250/300
Ultimate pressure	Pa(Torr)	$\leq 5 [3.7 \times 10^{-2}]$	$\leq 1.6 [1.2 \times 10^{-2}]$
Motor power	kW	0.15	0.4
Voltage	V	100, 115, 200, 230 (with thermal protector)	200, 208, 230, 380, 415, 460
Noise level	dB (A)	52 (at air flush 57)	58 (at air flush 66)
Weight	kg	14	25
Leak tightness	Pa·L/s	$\leq 1 \times 10^{-2}$	
Water vapor	g/day	5 (at air flush)	25 (at air flush)
Air flush	L/min	9 (at air flush)	10 (at air flush)
Inlet connection	NW	25	
Outlet connection	NW	16	
Cooling system		air-cooled	
Ambient temperature	°C	5~40	

■ Pumping speed



■ Air Flush

Purpose of Air Flush
Pumping of humid gas by vacuum pump can cause condensed moisture to remain in pump. This remaining moisture can cause failure to ultimate pressure or pump. Air Flush operation is necessary to pump remaining moisture inside. Air Flush operation does not only pump moisture but also recovers ultimate pressure.

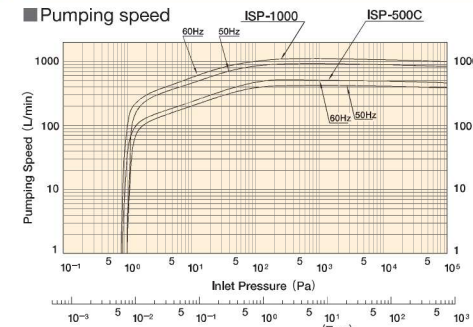
● Ultimate pressure is measured as total pressure.
Noise is measured in an anechoic room.

■ Pumping speed

Trade name		Oil free scroll vacuum pump	
Model		ISP-500C	ISP-1000
Displacement	L/min 50/60Hz	500/600	1000/1200
Ultimate pressure	Pa(Torr)	$\leq 1 [7.5 \times 10^{-3}]$	
Motor power	kW	0.6	1.4
Voltage	V	100, 115, 200, 230 (with thermal protector)	—
Noise level	dB (A)	60 (at air flush 68)	67 (at air flush 74)
Weight	kg	44	—
Leak tightness	Pa·L/s	$\leq 1 \times 10^{-2}$	
Water vapor	g/day	25 (at air flush)	
Air flush	L/min	10 (at air flush)	
Inlet connection	NW	40	
Outlet connection	NW	25	40
Cooling system		空冷 air-cooled	
Ambient temperature	°C	5~40	10~40

● Ultimate pressure is measured as total pressure.
Noise is measured in an anechoic room.

■ Pumping speed



How to select

ISP-500C-T-V
 500 = Displacement of vacuum pump
 T = Three phase S = Single phase
 V = Vertical Inlet H = Horizontal Inlet

Applications

Synchrotron Facility
Evacuation units for beamlines in Synchrotron and Accelerator Facilities



High Vacuum Pumping System
Roughing pump for Turbo Molecular Pump and Mechanical Booster Pump

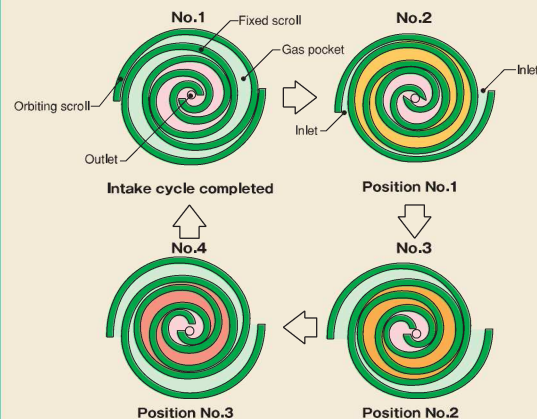
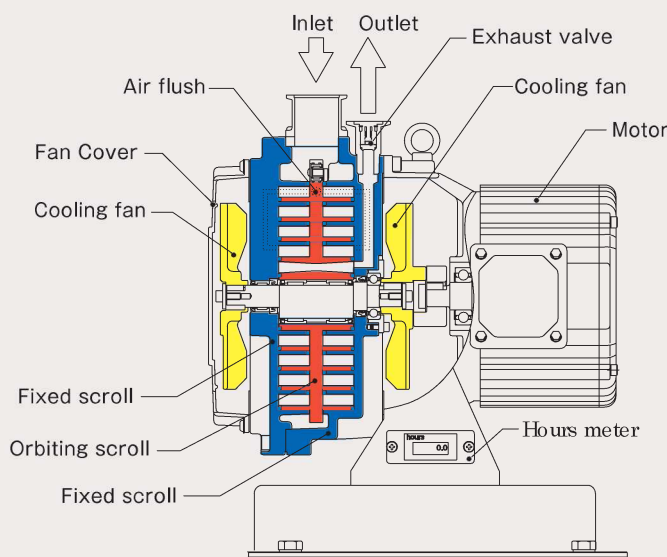


- Sputtering equipment, Vacuum deposition equipment, Ion plating equipment
- Gas recovery devices
- Vacuum equipment
- Leak detectors
- Device handling system

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

Construction

Dry Scroll Vacuum Pump



■ Principle of compression

As the orbiting scroll orbits as shown in the illustration from the No.1 position to the No.4 position, crescent shaped gas pockets are gradually reduced. At the last stage compressed gas is exhausted through the center port.



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.
- Please contact at Vacuum Pump Dept. of ANEST IWATA Corporation before exporting pumps which are shown on this catalog to outside of Japan.



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.



Try to Dry

● Models, specifications and photos are subject to change without notice.

■ More Information

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