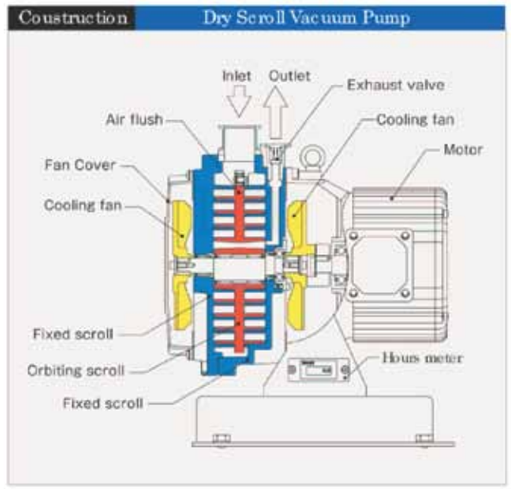
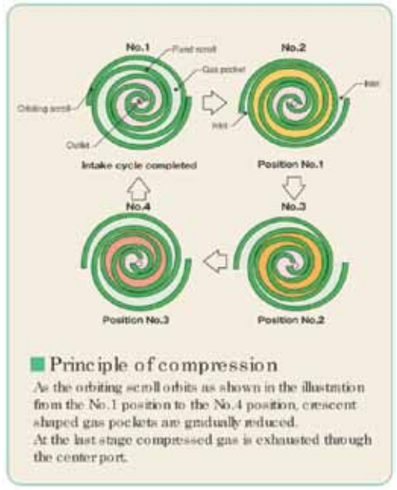
www.anestiwata.com

Dry Scroll Vacuum Pump

ISP Series







LR104996

CE

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:

ANEST IWATA Air Engineering, Inc.

5325 Muhlhauser Road
Hamilton OH 45011-9349
tel: 513-755-3100 fax: 513-755-0888
toll free: 800-440-0282
www.anestiwata.com
email: inquiry@anestiwata.com

Dry Scroll Vacuum Pump

S Single Phase Motor | T Three Phase Motor | Vertical Inlet | Horizontal Inlet | RoHS Conformity | CSA Conformity | CE Conformity

ISP-50



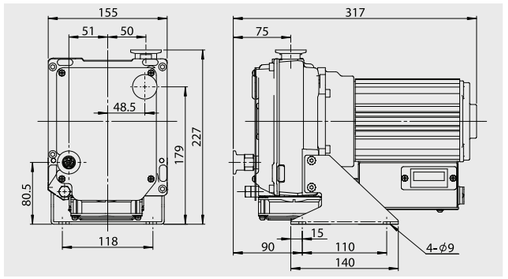
ISP-90



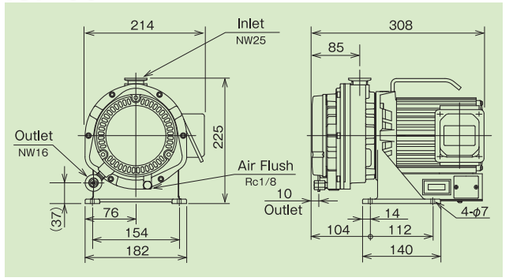
ISP-250C



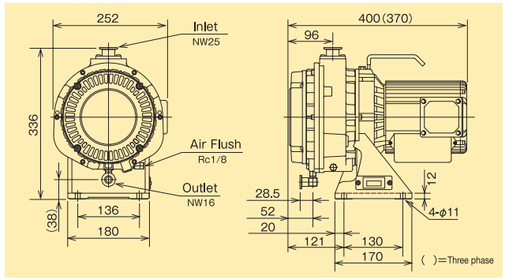
ISP-50



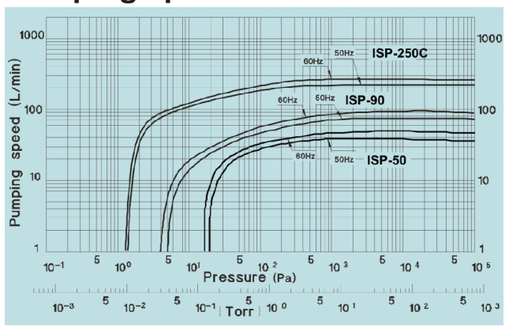
ISP-90



ISP-250C



Pumping speed



Model			ISP-50	ISP-90	ISP-250C
Pumping Speed	L/min (CFM) 60Hz		60 (2.1)	108 (3.8)	300 (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 (lb)	1Ph	12 (26)	14 (31)	25 (51)
		3Ph	-	-	23 (55)
Leak Tightness	Pa.L/s		≤$1.0x10^{-4}$	≤$1.0x10^{-2}$	≤$1.0x10^{-2}$
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		

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

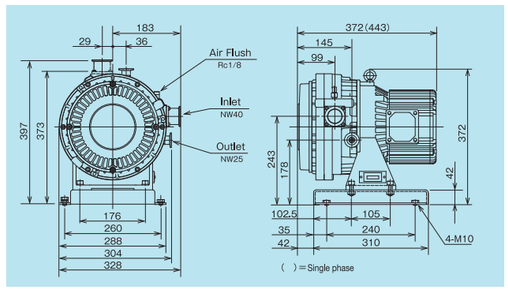
ISP-500C



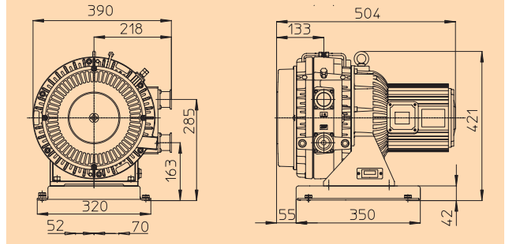
ISP-1000



ISP-500C

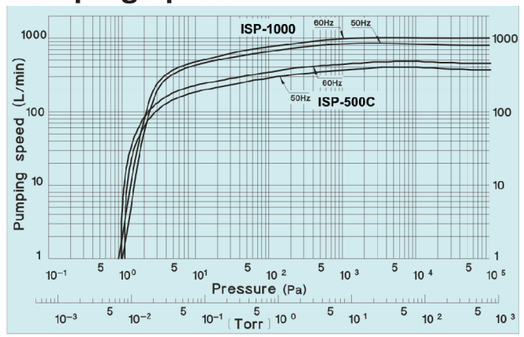


ISP-1000



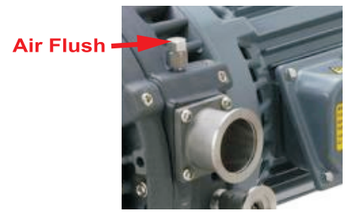
Model			ISP-500C	ISP-1000
Pumping Speed	L/min (CFM) 60Hz		600 (21.2)	1200 (42.4)
Ultimate Pressure	Pa (Torr)		≤1 ($7.5x10^{-3}$)	≤1 ($7.5x10^{-3}$)
Motor Power	W		600	1400
Voltage	V	1Ph	100, 115, 200, 230	-
		3Ph	200, 208 ,230 ,380 ,415, 460	
Noise Level	dB (A)		60	67
Noise Level (at air-flush)			68	74
Weight	kg (lb)	1Ph	44 (97)	-
		3Ph	38 (84)	60 (132)
Leak Tightness	Pa.L/s		≤$1.0x10^{-2}$	
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 ~ 50 / 50 ~ 122

Pumping speed



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.



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