

# Anest Iwata

## Dry Scroll Vacuum Pumps

Models: ISP-50, ISP-90, ISP-250, ISP-500,  
ISP-1000, DVSL-100, DVSL-500, DVSL-501,  
GVSU-500

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**Description:** Dry Scroll Vacuum Pump

**Models:** ISP-50, ISP-90, ISP-250, ISP-500,  
ISP-1000, DVSL-100, DVSL-500,  
ISP-501, GVSU-500

**Power Range:** 0.13-2 HP

**Capacity Range:** 2.1-42.4 CFM

**Max Vacuum:** 0.0075 TORR

### OVERVIEW

NES Company is proud to distribute Anest Iwata® dry scroll vacuum pumps.

Designed by the pioneers of dry scroll technology, this compact, quiet, and stable vacuum series delivers exceptional reliability. Built to meet CE, CSA, cTUV, and RoHS standards, it ensures superior performance for precision applications.

### DESCRIPTION

Ranging from 0.13 to 2 HP, these dry scroll vacuum pumps are engineered for clean, dry vacuum applications. Their oil-free design ensures contamination-free operation, while advanced scroll technology delivers efficient pump-down speeds, stable flow rates, and optimal ultimate pressures. Ideal for analytical, medical, and laboratory applications, these pumps provide reliable performance across a wide range of industries.

### FEATURES

- The dry scroll series support pressures from 1-50 Pa and pumping speeds of 50-1000 L/min.
- **Energy-efficient** to cater to both economy and ecology.
- **Quiet** and low-vibration operation ensures operator comfort.
- Thorough design and engineering have yielded a **longer maintenance cycle**, minimizing downtime and increasing system efficiency.
- **12-month warranty** against manufacturer's defects.



### NOTES

The Anest Iwata dry scroll vacuum pumps find widespread application across analytical, medical, and laboratory applications.





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### GENERAL TECHNICAL DATA

Model			ISP-50	ISP-90	ISP-250	ISP-500	ISP-1000
Pumping Speed	50 Hz	L/min	50 (1.8)	90 (3.2)	250 (8.8)	500 (17.7)	1000 (35.3)
	60 Hz	(CFM)	60 (2.1)	108 (3.8)	300 (10.6)	600 (21.2)	1200 (42.4)
Ultimate Pressure		Pa (Torr)	15 ( $1.1 \times 10^{-1}$ )	5 ( $3.7 \times 10^{-2}$ )	1.6 ( $1.2 \times 10^{-2}$ )	1.0 ( $7.5 \times 10^{-3}$ )	1.0 ( $7.5 \times 10^{-3}$ )
Voltage	Single Phase	V	100, 115, 200, 230				-
	Three Phase		-				200, 208, 230, 380, 400, 415, 460
Noise level		dB(A)	48	52	58	62	68
Leak tightness		Pa*m3/s	$1.0 \times 10^{-7}$	$1.0 \times 10^{-5}$			
Ambient temperature		°C (°F)	5 to 40 (41 to 104)				10 to 40 (50 to 104)
Weight	Single Phase	kg	12 (27)	14 (31)	25 (55)	44 (97)	-
	Three Phase	(lbs)	-		23 (51)	38 (84)	68 (150)
Water vapor capacity		g/day	3	5	25	25	25
Inlet connection		-	NW25			NW40	
Outlet connection		-	NW16			NW25	NW40
Inlet position	Vertical		✓	✓	✓	✓	✓
	Horizontal		-	-	-	✓	✓
Standards			   				

All pumps come standard with air flush attachment and hour meter

All single phase pumps come standard with thermal protection

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GVSU-500



Model			DVSL-100C	DVSL-500E	DVSL-501E	DVSL-501E-HE	GVSU-500B
Pumping speed	50 Hz	L/min (CFM)	100 (3.5) 120 (4.3)	433 (15.4) 516 (18.3)			- 522 (18.5)
	60 Hz						
Ultimate pressure		Pa (Torr)	50 (3.8 × 10 <sup>-1</sup> )	30 (2.6 × 10 <sup>-1</sup> )	100 (7.5 × 10 <sup>-1</sup> )		500 (3.8)
Motor output		kW	0.3	0.9 / 1.1			1.5
Voltage	Single phase	V	100, 115 200, 230	-			
	Three phase		-				
Noise level		dB(A)	62	64			
Ambient temperature		°C (°F)	5 – 40 (41 – 104)				
Weight		kg (lbs)	15 (33)	34 (75)			37 (82)
Water vapor capacity		g/day	100	250			
Inlet connection			NW25 With RC 1/8	NW25 With RC 1/2			RC 1
Outlet connection			NW16	NW25			RC 1/2
Standards			   				UL Certified Motor 

All pumps come standard with air flush attachment  
 DVSL-100C comes standard with thermal protection  
 GVSU-500B is only available in North America  
 GVSU-500B comes standard with water separator silencer

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### Variation Table

Variations	Particulars
Metallurgy	Standard Cast Iron
Direction (from motor end)	Clockwise Rotation
Purpose	Vacuum Pump
Sealing	Standard Tip Seal
Other System Configuration	Simplex
	Duplex
	Triplex
	Quadruplex

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### Application table

Applications
Accelerator Synchrotron
Leak Detectors
Electron Microscope
Mass Spectrometry
Sputtering
Evaporation Deposition
Vacuum Sterilizer
Vacuum Freeze Drying
Vacuum Heat Treatment
Cryogenic Pump Backing
Pick and Place
Degassing
Vacuum Forming
Vacuum Filling
Vacuum Packaging
Vacuum Drying

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