

Scroll Type Dry Vacuum Pumps

**DIS Series** Double wrap

**DIS-90 DIS-251 DIS-501**

**Features**

- Double wrap type scroll pump which consists of 1 orbiting and 2 fixed scrolls
- Operation from atmospheric pressure is possible.
- High ultimate pressure level is attainable
- Low vibration and low noise
- Maintenance cycle can be controlled by hour meter.

**Applications**

- Analytical equipment
- Gas recovery system
- Coating equipment
- Back pump for TMP
- Helium leak detector
- Manufacturing process for semiconductor



**Specifications**

Model		DIS-90		DIS-251		DIS-501	
	Unit	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
Nominal pumping speed	L/min	90	108	250	300	500	600
Ultimate pressure	Pa	5.0		1.6		1.0	
Motor	Single phase	Single phase, 100/115/200/230V, 150W, 4P, Capacitor start & run		Single phase, 100/115/200/230V, 400W, 4P, Capacitor start & run		Single phase, 100/115/200/230V, 600W, 4P, Capacitor start & run	
	Three phase	-		Three phase, 200/208/230/380/400/415/460V, 400W, 4P		Three phase, 200/208/230/380/400/415/460V, 600W, 4P	
Full load current	Single phase	2.6/1.3/1.6 (100/200/230V)	2.1/2.2/1.1/1.1 (100/115/200/230V)	4.8/2.6/2.4 (100/200/230V)	4.8/4.3/2.8/2.4 (100/115/200/230V)	8.5/4.3/3.9 (100/200/230V)	10.0/8.6/4.8/4.0 (100/115/200/230V)
	Three phase	-	-	1.6/0.9/0.9/1.0 (200/380/400/415V)	1.9/1.9/1.8/1.0 (200/208/230/460V)	2.7/1.57/1.57/1.63 (200/380/400/415V)	2.8/2.6/2.5/1.47 (200/208/230/460V)
Weight	Single phase	14.0		25.0		44.0	
	Three phase	-		23.0		38.0	
Inlet, outlet pipe diameter		Inlet pipe KF-25 Outlet pipe KF-16		Inlet pipe KF-25 Outlet pipe KF-16		Inlet pipe KF-40 Outlet pipe KF-25	
Ambient temperature	°C	5 - 40		5 - 40		5 - 40	
Water vapor handling	g/day	≤ 5 (AF open)		≤ 25 (AF open)		≤ 25 (AF open)	
Overall dimensions	Single phase	214(W) × 308(L) × 225(H)		252(W) × 400(L) × 336(H)		290(W) × 443(L) × 397(H)	
	Three phase	-		252(W) × 370(L) × 336(H)		292(W) × 372(L) × 397(H)	

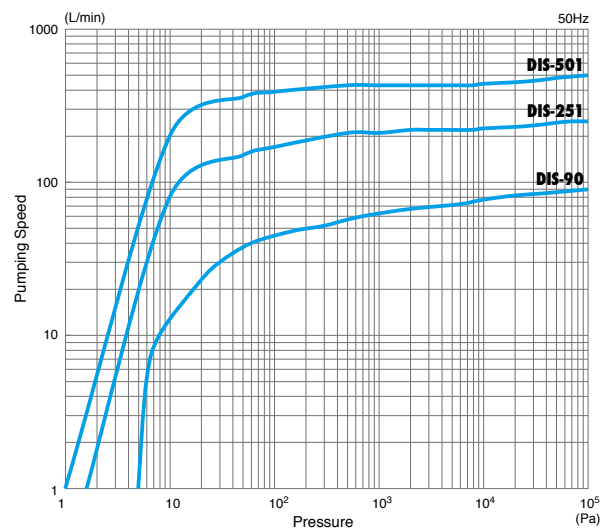
AF = Air flush

**Corresponding voltage and Certificate**

Model	Voltage	Order Code	CE Marked	cTUV Marked
DIS-90	Single phase, 100-115V	A44620000001	✓	✓
	Single phase, 200-230V		✓	✓
DIS-251	Single phase, 100-115V	A44820000001	✓	✓
	Single phase, 200-230V		✓	✓
	Three phase, 200-230V	A44830000001	✓	✓
Three phase, 380-460V	✓		✓	
DIS-501	Single phase, 100-115V	A44840000001	✓	✓
	Single phase, 200-230V		✓	✓
	Three phase, 200-230V	A44850000001	✓	✓
Three phase, 380-460V	✓		✓	

- : Not Available, ✓ : Available

**Pumping speed curves**



\* Further details can be found on our website. Outside drawing appears in Page 47.

Scroll Type Dry Vacuum Pumps

**DISL Series** Single wrap

**DISL-101 DISL-503**

**Features**

Single wrap type scroll which consists of each 1 orbiting and fixed scroll. Tough type scroll pump than DIS series against incoming particles and suitable for industrial use.

**Applications**

- Pick and transfer system
- Cleaning and drying
- Degassing / deforming
- Packaging



DISL-101



DISL-503

**Specifications**

Model	Unit	DISL-101		DISL-503	
		50Hz	60Hz	50Hz	60Hz
Nominal pumping speed	L/min	100	120	430	520
Ultimate pressure	Pa	20.0		30.0	
Motor		Single phase, 100/115/200/230V, 300W, 2P, Capacitor start & run		Three phase, 200/380/400/415V, 900W, 2P	Three phase, 200/208/230/460V, 1100W, 2P
Full load current	A	3.2/1.6/2.0 (100/200/230V)	3.7/3.4/1.8/1.7 (100/115/200/230V)	3.6/1.9/1.9/1.8 (200/380/400/415V)	4.2/4.1/3.9/1.95 (200/208/230/460V)
Weight	kg	15.0		36.0	
Inlet, outlet pipe diameter		Inlet pipe KF-25 Outlet pipe KF-16		KF-25	
Ambient temperature	°C	5 – 40		5 – 40	
Water vapor handling	g/day	≤ 100 (AF open)		≤ 250 (AF open)	
Overall dimensions	mm	210(W) × 360(L) × 215(H)		317(W) × 521(L) × 280(H)	

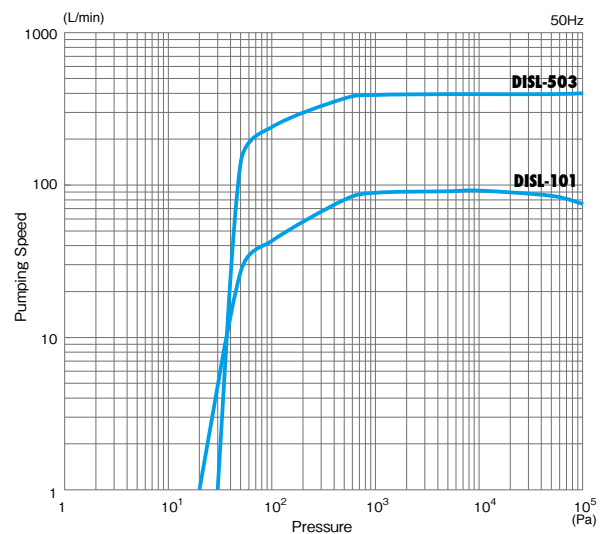
AF = Air flush

**Corresponding voltage and Certificate**

Model	Voltage	Order Code	CE Marked	cTUV Marked
DISL-101	Single phase, 100–115V	A4465000001	✓	✓
	Single phase, 200–230V		✓	✓
DISL-503	Three phase, 200–230V	A44970100001	✓	✓
	Three phase, 380–460V		✓	✓

— : Not Available, ✓ : Available

**Pumping speed curves**



\* Further details can be found on our website. Outside drawing appears in Page 48.