

# Scroll Type Dry Vacuum Pumps DIS Series

## 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.



DIS-90



DIS-251



DIS-501

## 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
		m <sup>3</sup> /h	5.40	6.48	15.00	18.00	30.00	36.00
		CFM	3.18	3.81	8.83	10.59	17.66	21.19
Ultimate pressure		Pa	5.0		1.6		1.0	
		Torr	37.5 × 10 <sup>-3</sup>		12.0 × 10 <sup>-3</sup>		7.5 × 10 <sup>-3</sup>	
		mbar	50.0 × 10 <sup>-3</sup>		16.0 × 10 <sup>-3</sup>		10.0 × 10 <sup>-3</sup>	
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	2.1/2.2/1.1/1.1	4.8/2.6/2.4	4.8/4.3/2.8/2.4	8.5/4.3/3.9	10.0/8.6/4.8/4.0
		Three phase	(100/200/230V)	(100/115/200/230V)	(100/200/230V)	(100/115/200/230V)	(100/200/230V)	(100/115/200/230V)
Weight		Single phase	14.0		25.0		44.0	
		Three phase	-		23.0		38.0	
Ambient temperature		°C	5 - 40		5 - 40		5 - 40	
		°F	41 - 104		41 - 104		41 - 104	
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	CE Marked	CSA Marked
DIS-90	Single phase, 100 - 115V	✓	✓
	Single phase, 200 - 230V	✓	✓
DIS-251	Single phase, 100 - 115V	✓	✓
	Single phase, 200 - 230V	✓	✓
	Three phase, 200 - 230V	✓	✓
DIS-501	Single phase, 100 - 115V	✓	✓
	Single phase, 200 - 230V	✓	✓
	Three phase, 200 - 230V	✓	✓
	Three phase, 380 - 460V	✓	✓

- : Not Available, ✓ : Available

## Pumping speed curves

