

Innovative Engineered Solutions

EMVO ROTARY VANE VACUUM PUMPS AND SUPERVANE VACUUM PACKAGE

EverestVacum a brand of Everest Blower Systems Private Limited brings to its customers, **EMVO** Single Stage Oil Sealed Rotary Vane Vacuum Pumps and **SuperVane** (EMVO + MVB).

EMVO and **SuperVane** are used in a growing number of applications where

a low-cost vacuum is required for the process industry. These pumps offer a compact plug and play vacuum. These pumps are amongst the most rugged in terms of operation and offer good reliability and ease of service which makes them a preferred choice of pump.

Rotary vane technology has been continuously developed and optimized over the decades, with an emphasis on operational reliability and efficiency. Rotary vane vacuum pumps are known throughout the industry for their modern and energy-efficient vacuum generation, in a wide range of applications. Whether for intermittent or continuous use, you can rely on the pumps for long term consistent use.

Robust Pump for Indian Environment

EverestVacuum

EMVO Rotary Vane Vacuum Pumps

SALIENT FEATURES

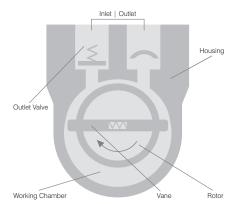
- Robustness and reliability of operation
- . Cost-Effective.
- Easy to service.

SECTORS SERVED

- Food Packaging and Processing
- Meat Packing
- Wood Working
- Rubber and Plastics
- Central Vacuum system for R&D Control
- Material Handling
- Medical Vacuum
- Chemical and Pharma:
 Drying and Conveying

OPERATING PRINCIPLE

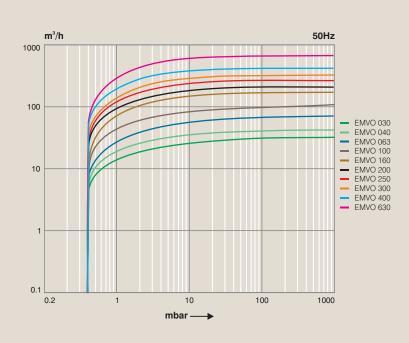
EMVO Rotary Vane Vacuum Pump is an oil-sealed rotary displacement pump. The pumping mechanism consists of a housing, an eccentrically installed rotor, vanes that move radially under centrifugal and resilient forces and the inlet and outlet. The inlet valve is designed as a vacuum safety valve that is always open during operation. The working chamber is located inside the housing and is restricted by the stator, rotor and the vanes. The eccentrically installed rotor and vanes divide the working chamber into two separate compartments with variable volumes. As the rotor turns, gas flows into the enlarging suction chamber until it is sealed off by the second vane. The enclosed gas is then compressed until the outlet valve opens against atmospheric pressure. The outlet valve is oil-sealed. When the valve is open, a small amount of oil enters the suction chamber and not only lubricates it but also seals the vanes against the housing (stator).



In the case of gas ballast operation, a hole to the outside is opened, which empties into the sealed suction chamber on the front side. As a result, the pressure needed to open the outlet valve is attained at relatively low compression during the compression pumping phase. This allows a displaced gas/vapor mixture to be expelled before the vapor starts to condense. The final pressure reached during operation with gas ballast is higher than in operation without gas ballast.



PERFORMANCE CURVES | 50 Hz



EVEREST SUPERVANE ROTARY PUMPS | EMVO SERIES

SPECIFICATIONS

Model										Capacity		Approx Weight	
	50 Hz	60 Hz	mBar	Torr	KW	RPM	dB(A)	°C	mBar	L/h	Ltr.	Kgs.	
EMVO-6	6	7.2	2	1.5	0.35	-	50	40	-	-	0.3	12	
EMVO-8	8	9.6	0.5	0.37	0.37	1430	59	40	-	-	0.3	18	
EMVO-10	10	12	0.5	0.37	0.55	1420	58	40	-	-	0.4	20	
EMVO-16	16	19	2	1.5	0.55	3000	60	40	-	-	0.3	18	
EMVO-20	20	24	2	1.5	0.95	2850	61	40	-	-	0.4	20	
EMVO-30	30	36	0.5	0.37	2	1420	64	40	40	0.9	1	34	
EMVO-40	40	48	0.5	0.37	2	1420	67	40	40	0.9	1	38	
EMVO-63	63	76	0.5	0.37	2.55	1420	68	40	40	1.8	2	64	
EMVO-100	100	120	0.5	0.37	3.45	1420	70	40	40	2.8	2	75	

- Double Gas Ballast optional (OPT).
- Pumps can be supplied with FLP motors EMVO63 onwards.

EVEREST SUPERVANE ROTARY PUMPS | EMVO SERIES

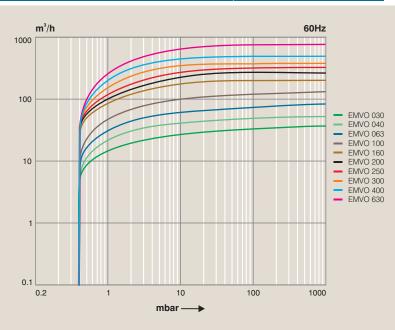
SPECIFICATIONS

Model					Mo Rati (K\				Operating Temp		Water Vapour Capacity	Filling	Approx Weight	
	50 Hz	60 Hz	mBar	Torr	50 Hz	60 Hz	RPM	dB(A)	°C	mBar	L/h	Ltr.	Kgs.	
EMVO-160	160	190	0.5	0.37	5.5	-	1455	70	80	40	7.6	7	174	
EMVO-200	200	240	0.5	0.37	5.5	-	1455	72	80	40	9.6	7	185	
EMVO-250	250	300	0.5	0.37	7.5	-	1455	72	85	40	12	7	202	
EMVO-300	300	360	0.5	0.37	7.5	-	1455	74	85	40	14	7	218	
EMVO-400	400	480	0.5	0.37	11	15	1000	70	40	40	19	13	550	
EMVO-630	630	760	0.5	0.37	15	18.5	1000	72	40	40	30	15	670	

Standard scope of supply

Oil seperator filter | NRV at Suction | Gas Ballast | First Oil Fill | Electric Motor (Std.)

PERFORMANCE CURVES | 60 HZ



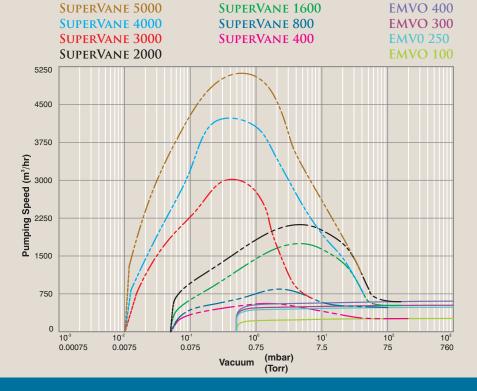


EVEREST SUPERVANE VACUUM PACKAGE

SPECIFICATIONS

	Model	Sı	upervane Si 400	upervane Si 800	upervane S 1600	upervane Si 2000	upervane Si 3000	upervane Si 4000	upervane 5000				
	NOMINAL	m3/hr	400	800	1600	2000	3000	4000	5000				
	DISPLACEMENT		235	470	950	1175	1770	2350	2950				
	ULTIMATE VACUUM		0.05	0.05	0.05	0.05	0.010	0.010	0.010				
	POWER CONNECTED		5.70	11.00	13.00	16.50	18.50	22.00	27.50				
	ISOLATION VALVE	L/Min.	Electronic Solenoid+NRV (SS+PT FE)										
	SKID STRUCTURE		ISMC, IS:809 1989										
	STANDARD ACC	Std	Inlet Filter; NRV; Interconnecting Puping; BVG with Siphon										

- Custom built systems can be designed to match customer requirements.
- Complete Vacuum Systems can be supplied with Filters, Condensers, Receivers and Automation.
- Complete system can be supplied in FLP configuration.



EVEREST ADVANTAGE

EVEREST HAS THE SKILL, EXPERTISE, KNOWLEDGE AND CAPABILITY THAT IT HAS ACQUIRED OVER THE YEARS TO CUSTOM DESIGN VACUUM SYSTEMS FOR SPECIFIC CUSTOMER REQUIREMENTS AND DELIVER GUARANTEED RESULTS

EVEREST PRODUCT RANGE

VACUUM

MECHANICAL VACUUM BOOSTERS DRY SCREW VACUUM PUMPS SUPERVAC ROTARY VANE VACUUM PUMP SUPERVANE

Vacuum Systems (Wet) Engineered Vacuum Systems Mechanical Vapour Recompressor (MVR|MVC)

PRESSURE

TWIN LOBE ROOTS BLOWERS TRI LOBE ROOTS BLOWERS CENTRIFUGAL BLOWERS TURBO BLOWERS BLOWER PACKAGES

INDUSTRIES SERVED

CHEMICAL & PHARMACEUTICAL

Degassers
Vacuum Distillatior
Evaporators
Crystallizers
Vacuum Filters
Vacuum Dryers

VACUUM FURNACE INDUSTRY

Heat Treatment
Hardening
Optical Coating
Metallizing
Degreasers in Furnace

ELECTRICAL INDUSTRY

Transformer Vacuum Impregnation

Transformer Oil Purifier

Vapour Phase Drying

INDUSTRIAL PROCESSING

Impregnating Windings
Drying Textiles Mills
Sterilizing re-circulation through
Ethylene Dioxide
Incandescent CFL and
Tube Light Manufacturing

TV Tubes Manufacture

FOOD PROCESSING INDUSTRY

acuum Packaging-Fresh & Cooked Meats
Freeze Drying
Deodorization of Vegetable Oil
(FFA Distillation)
Sugar Refining
Vacuum Evaporative Cooling
Vacuum Tray Drying
Flash Drying

Our technology is so flexible, we can custom manufacture **Special Blowers, Vacuum Pumps & Systems** by alloying and cross linking diverse designs to suit individual requirements and import substitutes.



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