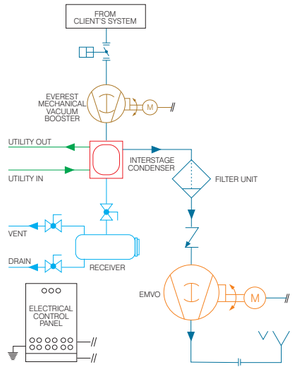
P&I DIAGRAM



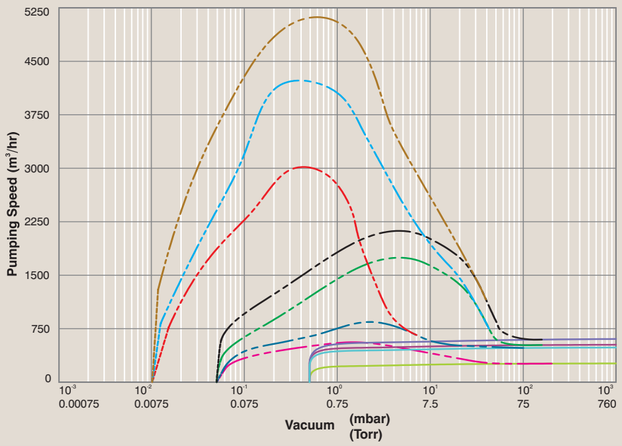
EVEREST SUPERVANE VACUUM PACKAGE

SPECIFICATIONS

Model		Supervane 400	Supervane 800	Supervane 1600	Supervane 2000	Supervane 3000	Supervane 4000	Supervane 5000
NOMINAL	m3/hr	400	800	1600	2000	3000	4000	5000
DISPLACEMENT	CFM	235	470	950	1175	1770	2350	2950
ULTIMATE VACUUM	Torr	0.05	0.05	0.05	0.05	0.010	0.010	0.010
POWER CONNECTED	KW	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	MS	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.

SUPERVANE 5000
SUPERVANE 4000
SUPERVANE 3000
SUPERVANE 2000
SUPERVANE 1600
SUPERVANE 800
SUPERVANE 400
EMVO 400
EMVO 300
EMVO 250
EMVO 100



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

RELIABLE | LOW MAINTENANCE | DURABLE | INDIGENOUS | COST EFFICIENT

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)
LOW TEMPERATURE THERMAL EVAPORATOR (LTTE)

PRESSURE

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

INDUSTRIES SERVED

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

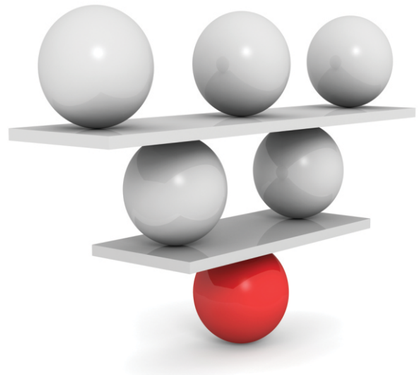
Our technology is so flexible, we can custom manufacture **Special Blowers, Vacuum Pumps & Systems** by alloying and cross linking diverse designs to suit individual requirements and import substitutes.

EVEREST VACUUM
Innovative Engineering Solutions

Corporate Office: DSM 255-227, DLF Tower, 15 Shivaji Marg, New Delhi 110015, India
T: +91 11 47322553, 41882062 | E: sales@everestvacuum.com | www.everestvacuum.com
24x7 Support: +91 9818742743

We don't just offer **Blowers**,**Boosters and Systems** we offer **SOLUTIONS !!**

EVEREST VACUUM



Innovative Engineering Solutions

EMVO ROTARY VANE VACUUM PUMPS AND SUPERVANE VACUUM PACKAGE

EverestVacuum 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.

ENGINEERING | EVALUATION | DESIGNING
MANUFACTURING | TESTING | EXECUTION | POST SALES AND SERVICE

Robust Pump for Indian Environment

EVEREST VACUUM

EMVO Rotary Vane Vacuum Pumps

Salient Features

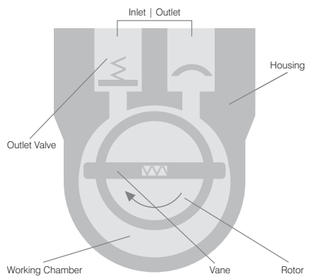
- Robustness and reliability of operation
- Cost-Effective.
- Easy to service.

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.

Plug & Play

EMVO pumps are used where a low-cost vacuum is required

CONCEPT

Everest Supervane Rotary Pumps | EMVO Series

SPECIFICATIONS

Model	Nominal Displacement (m^3/hr)		Ultimate Pressure		Motor Rating	Operating Speed	Sound Level	Operating Temp	Water Vapour Tolerance (max)	Water Vapour Capacity	Oil Filling	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.

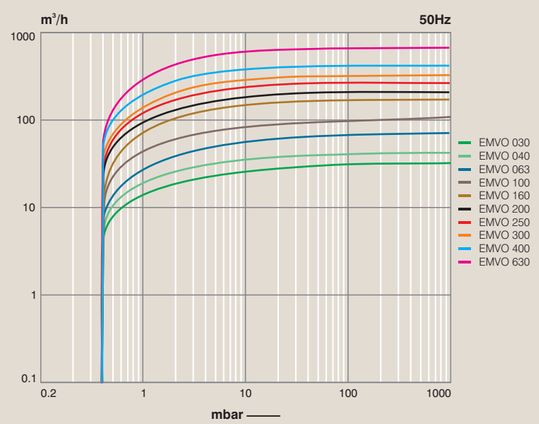
Everest Supervane Rotary Pumps | EMVO Series

SPECIFICATIONS

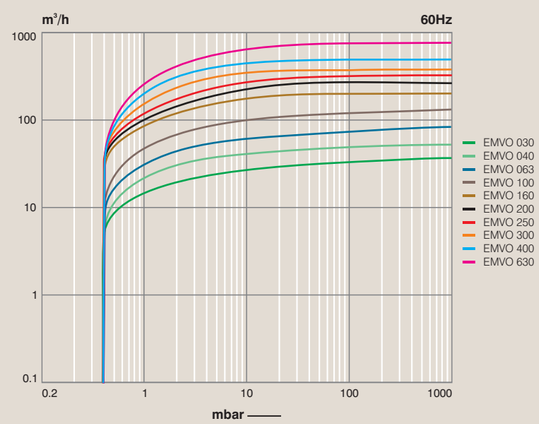
Model	Nominal Displacement (m^3/hr)		Ultimate Pressure		Motor Rating (KW)		Operating Speed	Sound Level	Operating Temp	Water Vapour Tolerance (max)	Water Vapour Capacity	Oil Filling	Approx Weight
	50 Hz	60 Hz	mBar	Torr	50 Hz	60 Hz	RPM	dB(A)	°C	mBar	L/h	Ltr.	Kgs.
EMVO-160	160	190	0.5	0.37	5.5	-	1455	70	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 | 50 Hz



PERFORMANCE CURVES | 60 Hz



EVEREST ADVANTAGE HIGH VOLUMETRIC EFFICIENCY | LOW ENERGY CONSUMPTION | PACKAGE SUPPLY | PLUG AND PLAY CONCEPT