EVEREST

An Ingersoll Rand Business

MECHANICAL VACUUM BOOSTER

VACUUM

EVB

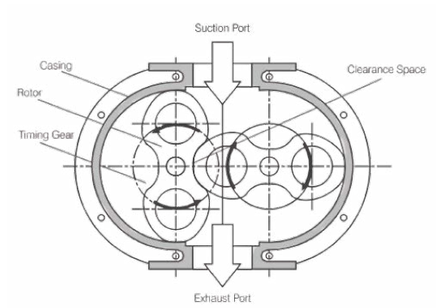
OIL FREE VACUUM BOOSTER

VACUUM

ADVANTAGES

- 100% OIL-FREE, DRY PUMPING
- HIGH VOLUMETRIC EFFICIENCY RESULTING IN HIGH PUMP SPEED AT LOW PRESSURE. CAPACITY BOOSTING OF 8 TO 10 TIMES
- VERY LOW POWERCONSUMPTION RATIO (M3/KW) AS OPPOSED TO OTHER VACUUM PUMPS
- CONSIDERABLE REDUCTION IN PUMP DOWN-TIME BY THE USE OF SUCH MACHINES
- DRY PUMPING MOST APPRECIATED FOR GAS/VAPOUR LOAD
- PROVEN RELIABLE DESIGN WITH MORE THAN 10,000 PUMP INSTALLATIONS
- DYNAMICALLY BALANCED ROTORS RESULTING IN VERY LOW VIBRATION LEVELS

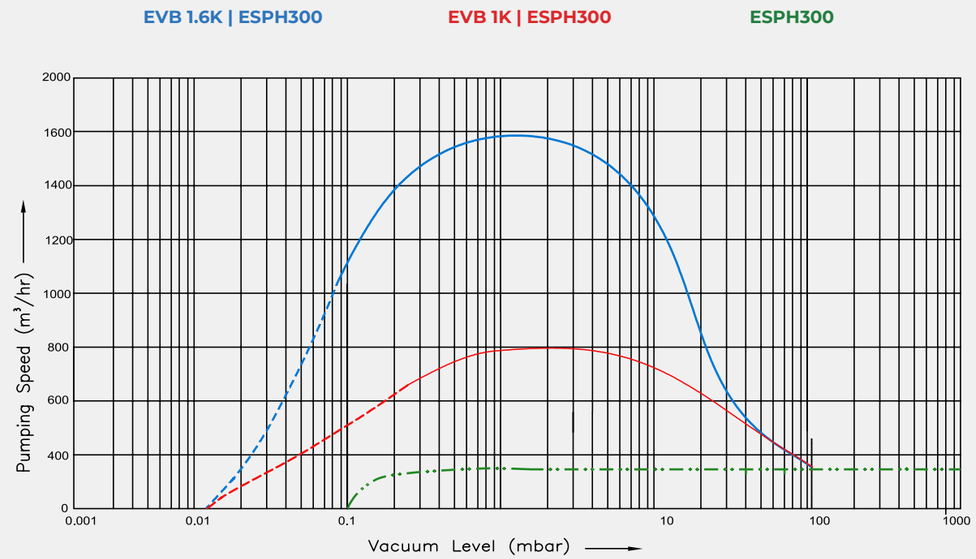
Everest Mechanical Vacuum Booster EVB are used in growing number of applications where fast pump clown times are required and environment or energy usage concern rule out any alternative pump selection. Everest Mechanical Vacuum Boosters EVB are used in growing number of applications where fast pump down times are required and environment or energy usage concerns rule out any alternative pump selection. Mechanical Vacuum Booster enhances the Performance, Ultimate Vacuum and Pumping Speed of Oil-Sealed, Water Ring, Dry Screw and any other vacuum pumps by increasing the throughput pumping and improving the staging ratios.
As these pumps are completely dry, the process vapour can pass through the pump without any contamination and be collected at the discharge of the system by a vent condenser. This offers the customer a very efficient vapour recovery management system and an environmentfriendly vacuum ecosystem.



OPERATING PRINCIPLE

Everest Vacuum Boosters are positive displacement pumps with two figure-eight shaped impellers that rotate in the opposite direction inside the casing. As each lobe of an impeller passes the booster inlet, it traps a defined quantity of air equal to one-fourth of the displacement of the booster.

This entrapment occurs four times per revolution. The entrained air is forced around the casing to the booster outlet. Timing gears accurately position the impeller relative to each other to maintain the vital pre-defined clearance resulting in high volumetric efficiency of the pump.



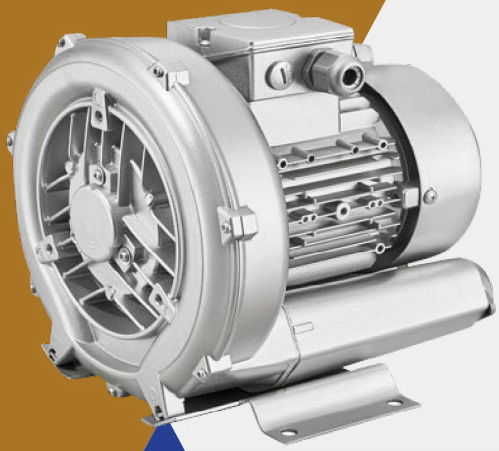
TECHNICAL SPECIFICATIONS

		EVB 0.5K	EVB 1K	EVB 1.6K	EVB 3K	EVB 6K	EVB 8K	EVB 10K
Nominal Capacity	m³/h	400	800	1600	3340	5800	7800	10400
Max. Differential Pressure*	mbar	80	65	65	65	50	40	65
Motor Rating*	kW	2.2	3.7	5.5	7.5	11	15	22
Speed	RPM	1450	2900	2900	2900	2900	2900	2900
Average Noise Level	dB(A)	<85	<85	<85	<85	<85	<85	<85
Maximum Weight (Bare Shaft)	kg	212	212	190	345	450	500	600
Oil Capacity	L	1.5	1.5	3	5	16	16	16

*may vary from Air Cooled to Water Cooled variants.

MOC	Rotor	SG IRON 450/10 (INTEGRATED SHAFT)
	Gear	20MnCr5
	Body	CI FG260

Seal Type: Viton | PTFE | Piston Ring / Labyrinth options available.



EVEREST PRODUCT LINEUP

VACUUM

- MECHANICAL VACUUM BOOSTERS
- DRY SCREW VACUUM PUMPS & SYSTEMS
- DRY CLAW VACUUM PUMPS
- ROTARY VANE VACUUM PUMPS
- LIQUID RING VACUUM SYSTEMS
- MECHANICAL VAPOUR RECOMPRESSOR(MVR)

BLOWERS

- TWIN/TRI LOBE ROOTS BLOWERS
- HELI HYBRID BLOWERS
- GAS BLOWERS
- SIDE CHANNEL / CENTRIFUGAL
- TURBO BLOWERS

CONTACT US

FACTORY:
Plot No. 6, Sector 16, HSIIDC,
Bahadurgarh - 124507, Haryana
E: enquiry.everest@irco.com
T: +91 9818742743

www.everestblowers.com

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