

Liquid ring vacuum pump type Ensival Moret VRN

The VRN liquid ring vacuum pump range, mainly present in the fertilizer industry, has been designed as the best solution for vacuum applications where wet or extremely humid and slightly contaminated gases are ingested.

Design

- Single-stage pump with inlet via guide plates at both ends of the rotor
- Shaft sealing by packing with inserted lantern rings
- Shaft fully protected
- Self-adjusted compression rate
- Not affected by liquid or dust
- Water saving reservoir at pump discharge
- Eccentric blade impeller between bearings
- Fabricated or cast cylinder
- Extensive material range
- Various sealing options available
- Compressor operation design available
- Liquid ring water supply optimization
- Partial / total water recirculation system
- Epoxy fiber separator

Applications

- Filtration under vacuum
- Vacuum condensers
- Crystallization
- Concentration
- Evaporation



Pulp, paper
and board



General
industry



Chemical
process industry

Materials

Standard construction	Impeller material (ASTM)	Casing material (ASTM)
Austenitic stainless steel	A743 Grade CF3M	A240 Type 316L
Super austenitic stainless steel	A743 Grade CN7M	A240 Type 904L
Duplex stainless steel	A890 Grade 1B	A240 UNS S31803
Super duplex stainless steel	A890 Grade 5A	A240 / A276 UNS S32750

Other materials upon request.

Operating data

	50 Hz	60 Hz
Capacities	up to 23'000 m ³ /h	up to 101'265 USgpm
Absolute suction pressure	up to 50 mmHg	up to 50 mmHg
Temperatures	up to 50°C	up to 122°F
Maximum speed of rotation	up to 1'000 rpm	up to 1'000 rpm

Performance range

