

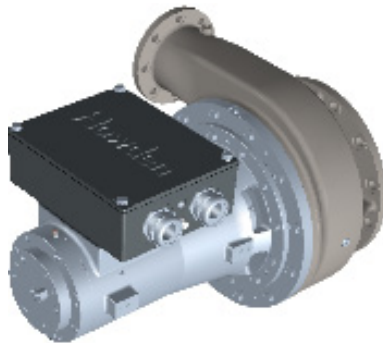
eMVR

'Easy' MVR Vapor Compressors



For MVR (Mechanical Vapor Recompression) and Energy Recovery for Low Mass Flows

- ✓ Compact
- ✓ Modular
- ✓ High Efficiency
- ✓ Plug & Play
- ✓ Fast Delivery
- ✓ Oil Free
- ✓ Non-Pulsating



An innovative addition to the widest portfolio of vapor compressor products.

Our eMVR turbo fans extend our industry leading ExVel™ Turbo Fans and Centrifugal Compressors for low mass flow applications. Building on our extensive depth of experience in MVR applications in numerous industries, Howden understands the unique process, aerodynamic, mechanical, and operations requirements of MVR and vapor applications.

Modular and Expandable

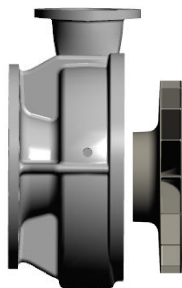
Impeller & casing sets are interchangeable with a common motor core unit which allows for easy fleet management and future production upgrades.



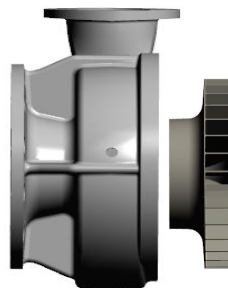
eMVR-1



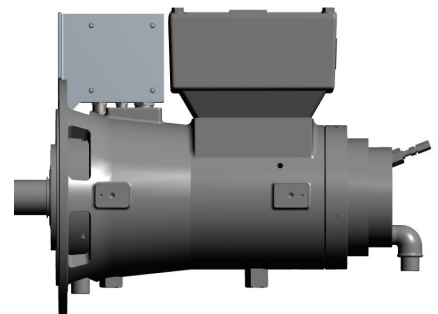
eMVR-3



eMVR-5



eMVR-7



Common Motor Core Unit



Advantages

Bolt-On, Space Saving, Simple Design

- Light Weight
- Bolt direct on vapor body option
- Floor mount base option
- Interchangeable models

High Efficiency and Good Turndown

- >80% Efficiencies.
- Variable speed, high efficiency turndown.

Robust, Reliable Design

- High Alloy MOC
- Heavy Duty sleeve bearings
- Gas-Tight Construction

Standard Parts & Low Maintenance

- No alignments required.
- Standard replacement parts & core units

eMVR : 'Easy" MVR Vapor Compressors for small mass flows

Performance

Our vapor compressor products can provide the highest delta-T capabilities in the industry.

eMVR can be configured in multiple stages to increase the delta-T available in a single installation.

Maintenance

eMVR has few parts and therefore few parts to maintain. The Core unit can be replaced as an assembly leaving the casing connected the vapor body/ducting resulting in quick-change when maintenance is required.

Standard Features & Options

Impellers: Cast Titanium, Inconel 625, 2507 Super Duplex

Casings: Cast 316 SS, 2507 Super Duplex Titanium

Discharge Angle Options: 0°, 90°, 180°, 270°

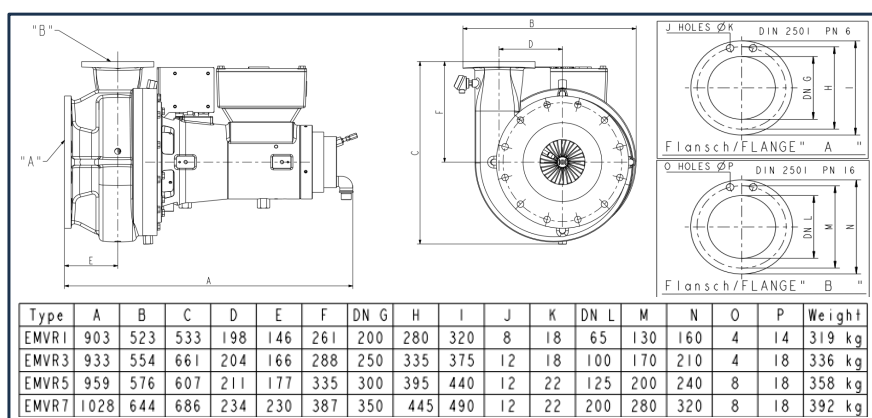
Motor: Howden integral motor, cast AL, IP54 rating

Bearings: highly resilient sleeve type, oil lubrication

Max. Op. Pressure: 5.0 bara

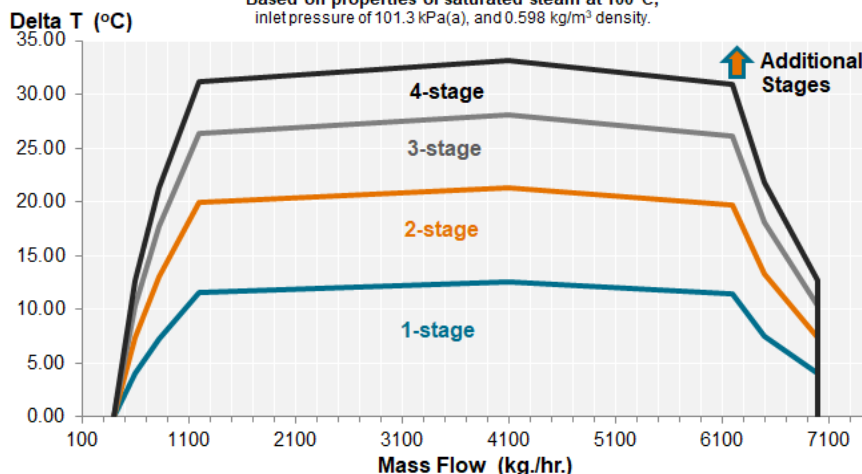
Options:

- Floor mounting base
- Machine Temperature & Vibration Sensors / Transmitters
- Instrument Junction Box
- Impeller Cleaning or Desuperheating Spray Nozzle
- Seal Purge Gas Conditioning System
- Acoustic / Thermal Insulation Blankets
- Expansion Joints at Inlet & Outlet
- Rainhood



eMVR Performance Range

Based on properties of saturated steam at 100°C,
inlet pressure of 101.3 kPa(a), and 0.598 kg/m³ density.



Howden

Europe

Hessheimer Strasse 2
Frankenthal 67227
Germany

T: +49 6233 85 0
E: howdenturbo-de@
howden.com

Americas

2475 George Urban
Blvd., Suite 120
Depew, NY 14043

T: +1 765 827 9200
E: inquiries.usa@
howden.com

China

Suite 12B01 Jinyu
Mansion
No. 129 Xuanwumen
Xidajie
Beijing 100031
China

T: +86 10 66419988
E: sales@howden.
com.cn



Howden
A Chart Industries Company