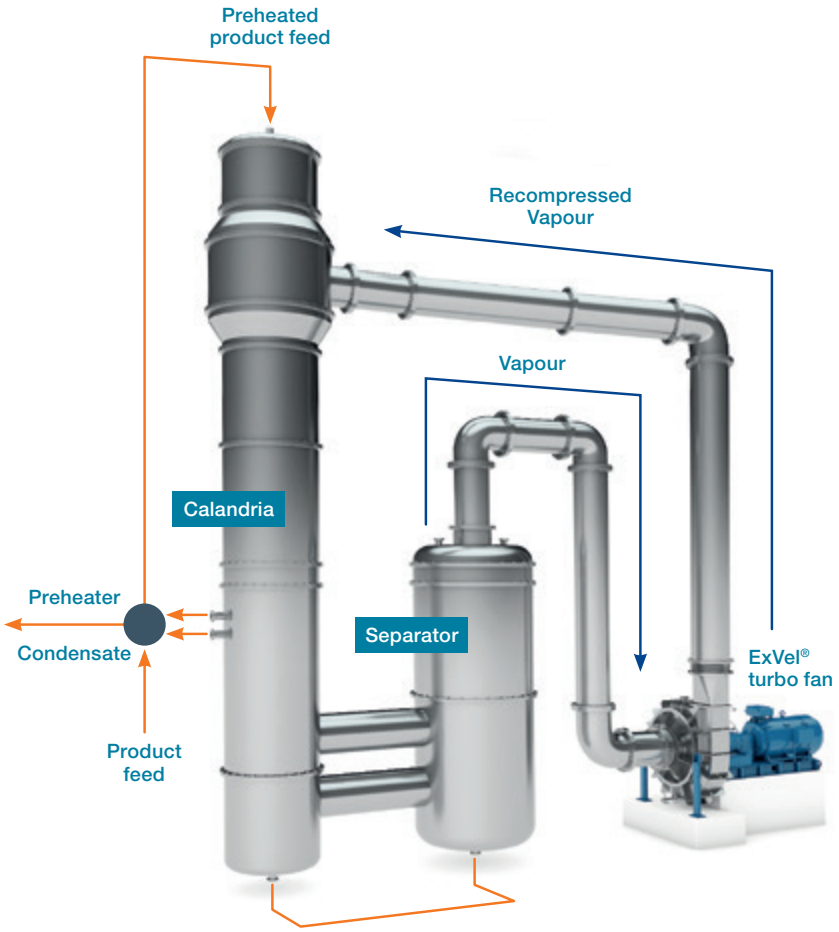
Compressors for Mechanical Vapour Technology

Howden is the only company in the world to design and manufacture such a broad range of compressor or blower technology used for Mechanical Vapour Recompression (MVR). This makes us the natural choice for reliable advice. We have no interest in persuading you to use inappropriate technology. Instead, we can focus on your needs and offer you the best system for your individual circumstances.

Building on more than a century of experience in a wide range of compressor technologies, Howden is today an acknowledged centre of excellence in compression equipment for MVR applications. Our highly trained specialists are available throughout your operations for advice and support. From the earliest possible stage of plant design or refurbishment, through to aftercare services and supply of parts.

To select a compressor for a specific range of duties, it is essential to understand the whole production process that it will be a part of. By working with the industries involved in MVR, we have gained enormous insight into their requirements. Every process, and every sector, has its own demands and constraints, and in addition to the complex physics and chemistry of compression, factors like capital and operating costs, continuity of supply, hazard management and constraints of space all have to be taken into account. A full, expert overview is the only route to system optimization.

Our experience is your peace of mind Howden's expertise, gathered over several decades of researching, designing, building, installing and supporting all types of rotating equipment for MVR applications, provides a solid platform for successful, robust long-term operation. To date, we have installed more than 2500 MVR compressors, in more than 70 countries.



Please scan for more information on our MVR technology or visit:

www.howden.cloud/mvr

Choosing the right partner is the first step to choosing the right technology.

Performance

Each product will operate at maximum efficiency at a specific combination of flow and Delta-T.

Maintenance

Designs differ in the degree and ease of routine inspection, as well as the recommended period between planned maintenance operations.

Cost

To determine the lowest possible lifetime cost, the interplay between capital expenditure and operating costs (CapEx and OpEx) must be taken into account. Experience is invaluable in avoiding false economies.

Operational cycles and turndown

Changes in operating conditions, ranging from amended process chemistry to seasonal changes in throughput, can significantly affect efficiency and power consumption. Flow control mechanisms can prevent cost escalation.

Power source

There are several ways of driving compression equipment, including grid electricity, fossil fuels engines and excess steam from the plant. Good early advice about power source options is essential.

Fouling potential

Many MVR processes are subject to foaming and carryover. In some situations, this can seriously affect efficiency and even lead to stoppages. The right technology and appropriate protection can hugely diminish this threat.

Component technology

Every detail should be designed to suit the gases and temperatures involved. Low cost options at the outset may be far more expensive over the long term.

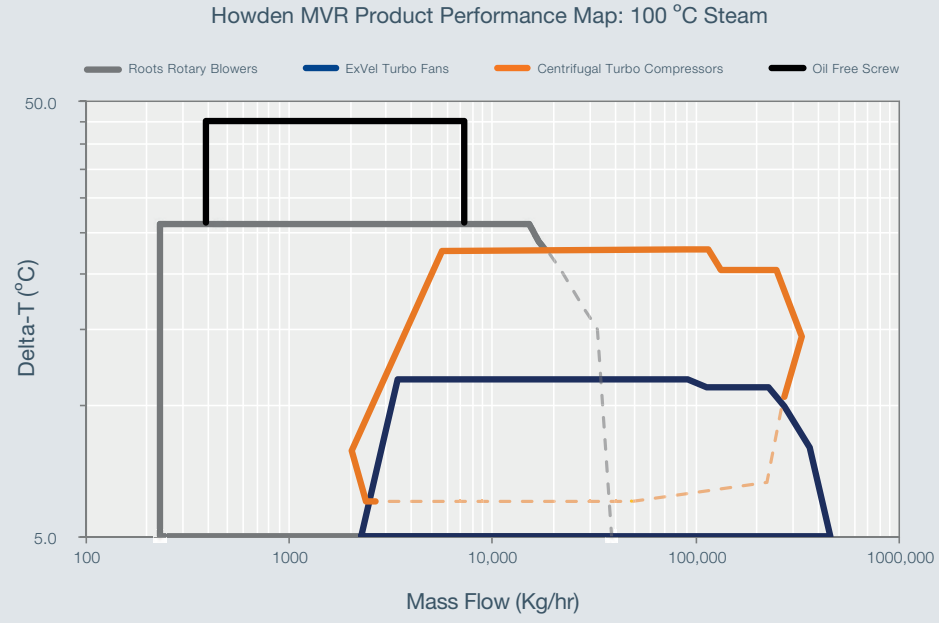


Chart depicts the potential performance from single stage equipment based on the properties of 100 ºC (212 ºF) saturated steam with 0.598 kg/m³ density (0.0373 lb/ft³).

How Howden can help

We can take an objective overview of your needs. After carrying out a full assessment, our engineers and advisors will recommend a system that matches your production needs, optimized for lowest possible lifetime cost of ownership.

We can advise on areas where standardization across all or part of your plant could bring savings in installation, spares and maintenance costs.

We have an unequivocal commitment to aftermarket support designed to keep your plant running at optimum efficiency and extend its working life. We have the largest global aftermarket team in the fan and compressor industry, and local bases in several countries so we can be on-site, fast, when you need us.