MOPICO® compression systems

Benefits at a glance

- Rapid start-up and vent-free standby for environmentally neutral operation
- Hermetically sealed design ensuring zero emissions and high system integrity
- High efficiency with low operating and lifecycle costs
- Wide operating range with fast response and unlimited starts
- High reliability with minimal maintenance and low spare parts demand
- Remote operation and easy integration into existing facilities

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Motor-compressor with hermetic sealing in a compact design

The MOPICO® is a state-of-the-art integrated motor-driven pipeline compression system for unmatched reliability and efficiency in gas transport grids. It is designed for rapid start-ups and changing load demands, and stays pressurized without venting in standby mode.

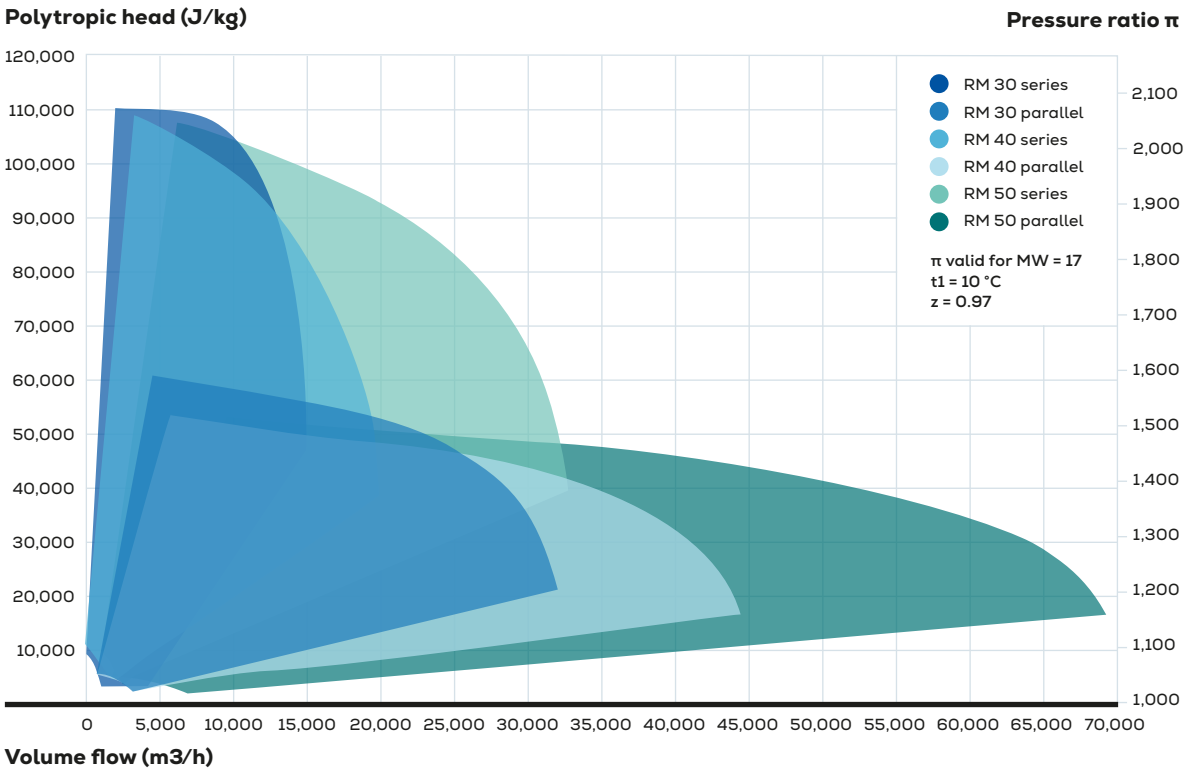
The MOPICO® system is primarily designed for gas pipeline applications, but is equally suited to a wide range of gas compression applications requiring high volume flows and pressures up to 150 bar.

The MOPICO® compression system's compact design and low weight enable fast and cost-effective installation.

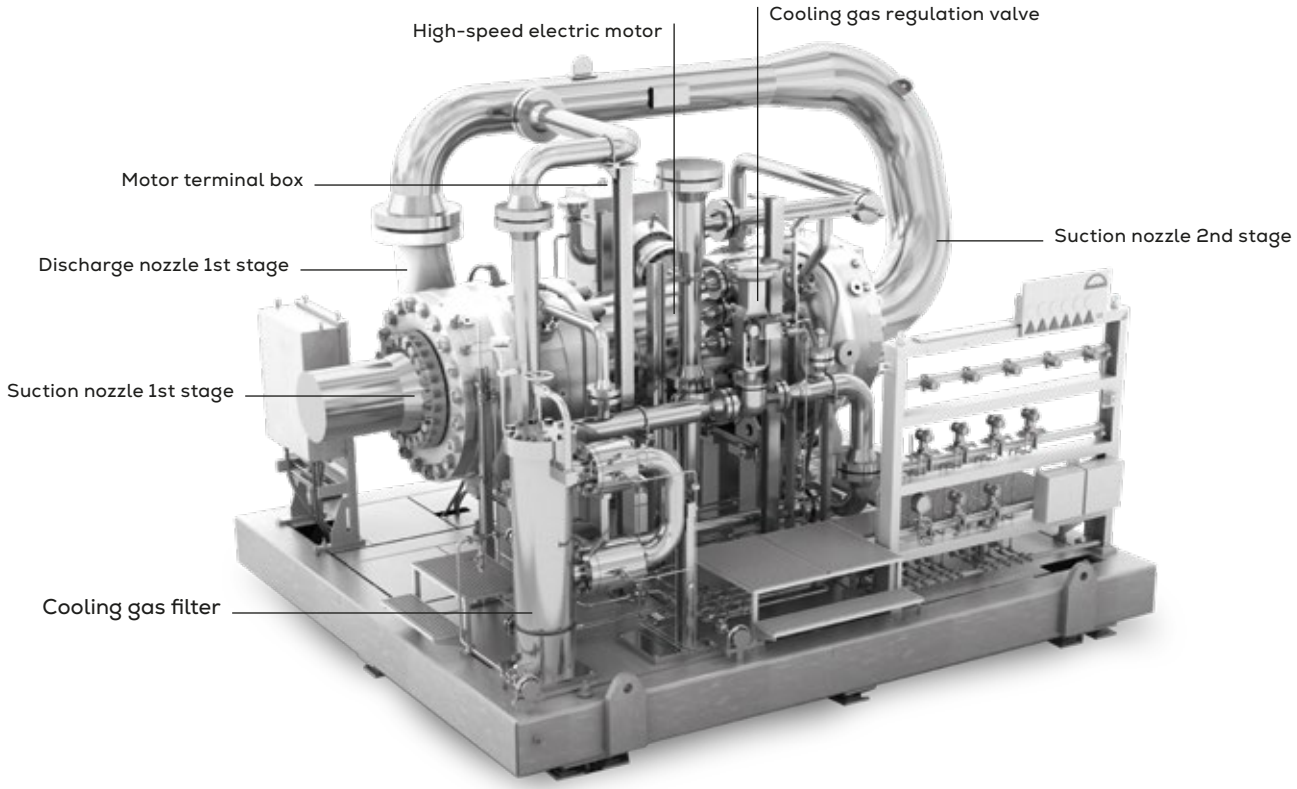
The hermetically sealed design and the elimination of various auxiliary systems result in an environmentally neutral system without pollutive emissions.

Many unique features provide significant advantages for plant design, operation and maintenance strategies. The proven concept represents an economically optimized investment in terms of total cost of ownership.

Compressor selection map
(series/parallel)



Typical arrangement



System concept

The MOPICO® is an integrated, hermetically sealed system comprising the motor-compressor unit, a variable-frequency drive, and the unit control system. By means of a dedicated pipe/valve system, the two compression stages can be connected either in series or in parallel with online changeover from one mode to the other.

The vertically split outer compressor casing is designed for operation at pressures of up to 150 bar.

Features

- Hermetically sealed design eliminates oil and dry gas seal systems
- Series or parallel mode operation with state-of-the-art axial inlet compressor stages.
- Overhung impeller with axial inlet
- All-electric design
- Elimination of wear & tear elements, reduced number of components

Applications

Gas transport, gas storage, any oil & gas process matching the performance characteristics of the compressor.

Design characteristics

Compressor/motor: Highly efficient due to axial inlet arrangement. Simple arrangement with one impeller mounted on each side of the high-speed motor with only one axial and two radial bearings – no gearbox required.

Bearings: The rotor system is levitated on active magnetic bearings, eliminating lube oil systems.

Drive system: The motor is driven by a variable-frequency drive system (VFD), typically located remotely in a controlled environment.

Cooling: The self-cooling layout uses process gas to cool the motor and magnetic bearings without auxiliary systems.

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