

eHydroCOM

Efficiency made simple


HOERBIGER
because performance counts



eHydroCOM helps you reduce your compressors' energy consumption and improve your process control

One user from the natural gas industry summarizes his experience with eHydroCOM:

“We are extremely pleased with eHydroCOM. We will use the system as our standard equipment for capacity control on future projects.”

You can choose between different methods to regulate your compressor's capacity, with stepless reverse flow control being the best solution.

eHydroCOM is based on experience acquired from more than 1,000 HydroCOM systems. Thanks to this know-how, the eHydroCOM system is the most reliable and safest choice for stepless capacity control for reciprocating compressors.

Installation and retrofit: Due to its simple Plug and Play installation and its long service life, eHydroCOM pays for itself in most cases in less than twelve months. The maximum standardization of eHydroCOM system components enables lean spare parts management and interchangeability with other eHydroCOM installations.

eHydroCOM reduces energy consumption and saves you real money as well as CO₂ certificates: Only the quantity of gas required by the process is compressed. In normal operation, the recycle valve remains closed. On a 900 kW compressor operating at an average load of 80%, this results in energy savings of approximately EUR 150,000 per year, based on an electricity price of 0.10 EUR/kWh.

eHydroCOM improves process stability:

As a result of the rapid and accurate stepless control, with a large control range, processes can be dynamically controlled to provide high levels of stability. Capacity changes no longer need to cause interference with the process parameters.



**Efficiency made simple:
Benefit from energy savings,
thanks to simple and reliable
capacity control provided by
eHydroCOM.**



Automatic compensation of clearance between actuator and unloader rod:
simple handling during installation and maintenance

Controlled closing of the suction valves:
promotes long valve service life

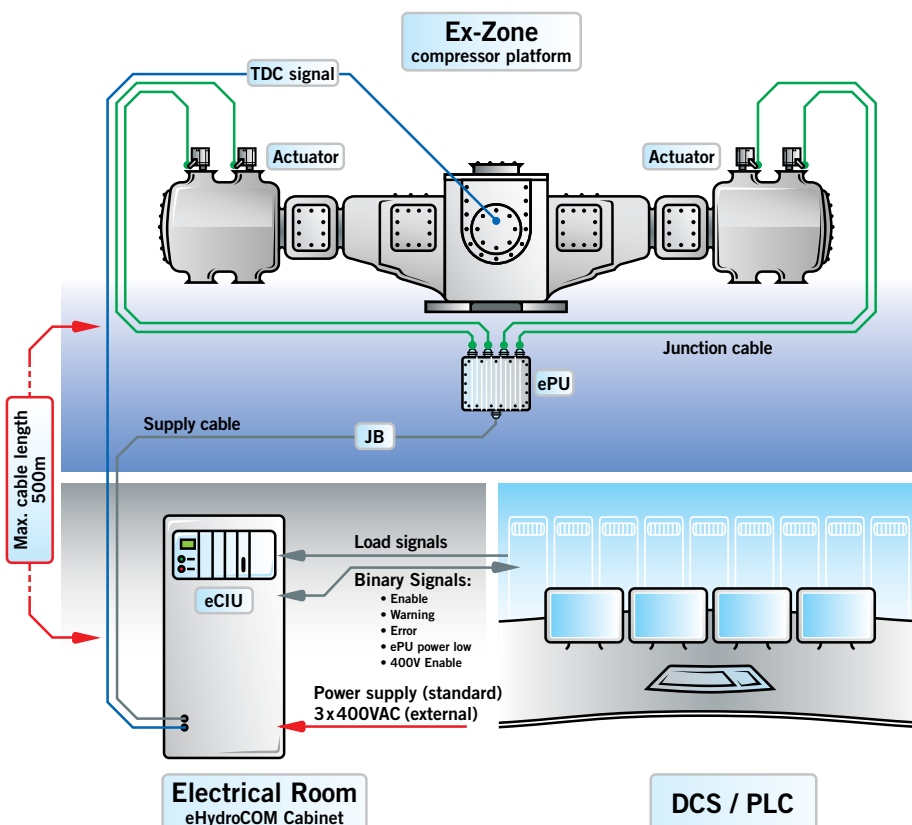
100% oil-free:
no contamination
of the process

Plug and play:
simple plug-in connections

Friction-free drive unit:
long maintenance intervals

No external cooling:
no cooling water or
forced ventilation required

A reliable, low-maintenance and easy to integrate electromechanical solution



With its clear system interfaces, eHydroCOM is easy to integrate into existing plant control systems.

The patented eHydroCOM actuator is an intelligent device which combines various electric drive technologies to increase the reliability, efficiency and service life of your compressor.

Take advantage of the many benefits of this innovative electromechanical control system and trust in our experience of optimizing the efficiency of compressors.

- ePU: eHydroCOM Power Unit
- eCIU: Compressor Interface Unit
- TDC: Top Dead Center

eHydroCOM at a glance:

Stepless electromechanical capacity control for reciprocating compressors from the inventors of HydroCOM

System benefits:

Simple installation and integration

- Purely electrical, 100% oil free
- "Plug and Play" connection
- No cooling water required
- Retrofitting eHydroCOM to an existing compressor requires only a brief shutdown

Efficient and reliable operation

- Highest savings in energy and operating costs
- Optimum controllability and process stability
- Highly dynamic stepless control

Simple and inexpensive maintenance

- Low-maintenance costs due to friction-free drive unit
- Automatic clearance and wear compensation during operating and after service
- Maximum standardization for simple spare parts management
- Interchangeability with other eHydroCOM installations
- Controlled closing of the suction valves yields longer service life

Are you looking for a strong partner to increase the efficiency and reliability of your compressors? Trust in our many years' experience in capacity control systems and our application expertise gained from more than 1,000 installed HydroCOM systems.

www.hoerbiger.com



Technical data:

Control range: (0) 10*...100%

Suitable for hydrogen: Yes

Suitable for corrosive atmospheres: Yes

Suitable for non-lubricated operation: Yes

Suction valve: plates, ring and profiled plates made of polymer

Ex certification: ATEX, IECEx

*depending on the application


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HOERBIGER is active throughout the world as a leading player in the fields of compression technology, drive technology and automation technology. In 2013, its 6,400 employees achieved sales of 1.05 billion euros. The HOERBIGER brand is synonymous with performance-defining components in compressors, industrial engines and turbines, automobile transmissions, and multifaceted mechanical engineering applications. Innovations in attractive technological market niches are the basis for components, systems and services that offer unique selling propositions and long-term benefits for the customer. We set standards.

This product brochure contains product specifications based on research and development on the one hand and on manufacturing on the other. Since the individual parameters of the described product may change depending on operating conditions, place of installation and specifications, HOERBIGER assumes no liability or warranty for the accuracy and completeness of the information covered in this brochure.