

RH



The core of component in key industries

Benefits at a glance

- High reliability and availability
- Easy maintenance
- Highly flexible and configurable design
- High efficiency and low lifecycle costs
- Compact design and small footprint

Everllence

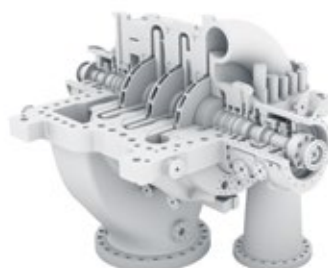
Typical data¹

Driver	electric motor, steam turbine or gas turbines
Suction pressure	1 bara to 20 bara
Discharge pressure	up to 60 bara
Flow rate	up to 900,000 m ³ /h
Power range	up to 100 MW
Overall efficiency	up to 90 %
Min. suction temperature	-105 °C
Max. discharge temperature	300 °C
Variable side stream and/or extraction	up to 570 %
Typical impeller diameter	280 mm to 1,800 mm
No of impeller stages	1 to 9
Number of stage groups	up to 4 (8 nozzles)

¹ depending on compressor configuration and project requirements



Typical RH with welded casing, type RH125
Example dimensions
H = 5,465 mm
W = 5,464 mm
L = 5,262 mm



Typical RH with cast casing, type RH071
Example dimensions
H = 2,475 mm
W = 2,520 mm
L = 3,035 mm

General

Everllence RH horizontal split centrifugal compressors are core components in key industries such as downstream, petrochemicals, refineries, and industrial gases. The modular system offers standardized variants and flexible designs to meet specific requirements – combining high reliability, efficiency and ease of maintenance.

With over 2,700 units delivered since 1912 – more than half of which are still in operation – these compressors have been proven to deliver long-term performance and durability. Continuous R&D, modern manufacturing and testing facilities, and strong aftermarket support ensure a future-proof solution tailored to customer needs.

Modular package and compressor design

The Everllence RH compressor system offers modular packages ranging from pre-designed solutions for downstream and industrial gas applications to fully customized configurations for demanding processes such as those involving ammonia, nitric acid or petrochemicals. Proven components and design standards ensure shorter lead times and cost efficiency, while special materials and tailored designs support individual process needs.

Features

Our compressors feature a horizontally split, modular casing – welded or cast – in single or multi-casing configurations. The design fully complies with API requirements. Flexible setups allow for side streams, extractions, and various arrangements (in-line, back-to-back,

double-flooded) to ensure optimum adaption to process requirements. Flow can be controlled by variable speed, suction throttling or variable inlet guide vanes at first or several compressor stages. Efficiency is boosted by modular bearings and seals, optional washing fluid injection and 2D/3D impellers tailored to flow requirements. They can be driven by electric motors, steam turbines, or gas turbines, and are built with special materials for high durability and reliability.

Markets, applications and compressor variants

Oil & gas

Refinery

- Wet gas compressor
- Alkylation gas compressor
- Refrigerant compressor

Propane dehydrogenation (PDH)

- Product gas compressor
- Propylene refrigerant compressor
- Ethylene refrigerant compressor
- Reactor effluent compressor
- Heat pump compressor

Ethylene

- Cracked gas compressor
- Propylene refrigerant compressor
- Ethylene refrigerant compressor

Basic industries

Ammonia (also synthetic green ammonia)

- Process air compressor
- Ammonia compressor

Nitric Acid

- NO_x gas compressor

Chlorine

- Chlorine compressor
- HCl compressor

Core strengths

• Integrity

Reflects our commitment to sustainability, responsibility and long-term value.

• Safety

Proven service expertise ensures maximum safety during operation and maintenance.

• Operability

Washing fluid injection allows for longer maintenance intervals and sustained efficiency (if needed).

• Availability

Robust design and short, predictable downtimes ensure exceptional availability. Digital tools help further to optimize OPEX.

• Maintainability

Smart design and global 24/7 Everllence PrimeServ support enable easy maintenance across the entire lifecycle.

• Efficiency

Advanced impeller technology and modular flexibility result in an highly efficient design.

• Reliability

Over 100 years of proven performance.

Contact

Everllence

46145 Oberhausen, Germany
P + 49 208 692-01
turbomachinery@everllence.com
www.everllence.com