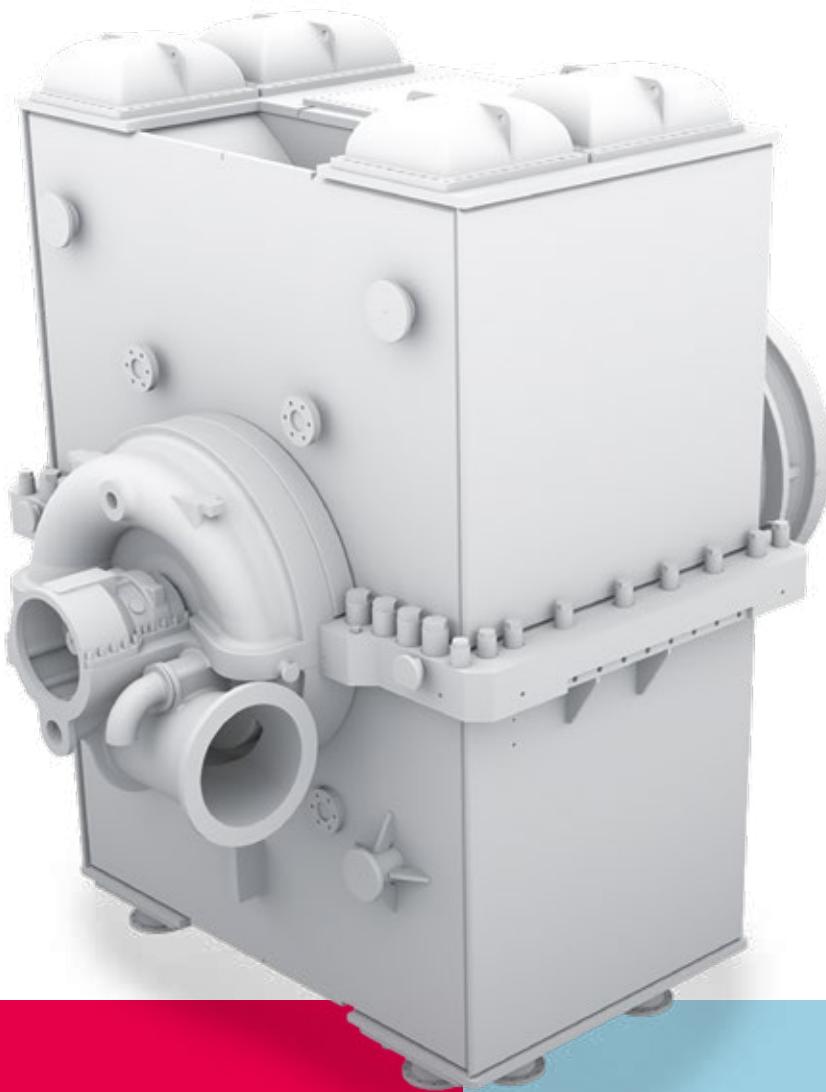


# RIKT



**For air separation and industrial applications**

**Benefits at a glance**

- Simple, highly reliable train design
- Large installed base, proven in operation
- High efficiency across wide operating range
- Constant-speed, stable performance
- Compact, maintenance-free, fast to install

**Everllence**

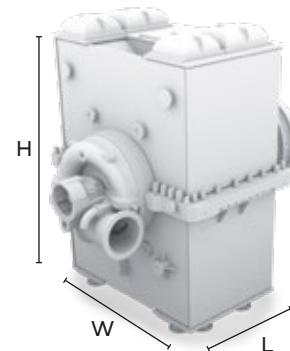
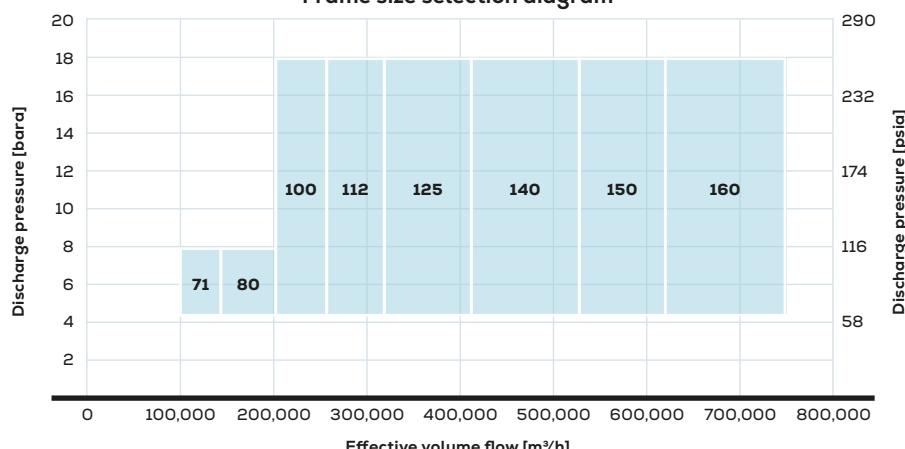
## Dimensions

Type*	RIKT 71	RIKT 80	RIKT 100	RIKT 112	RIKT 125	RIKT 140	RIKT 150	RIKT 160
L [mm]	3,800	4,500	5,000	5,500	6,200	7,100	7,700	8,100
H [mm]	3,800	4,100	5,300	5,800	6,200	6,900	6,900	7,300
W [mm]	3,500	3,900	4,300	4,600	5,000	5,400	5,600	5,800
Weight [t]	35	55	80	105	130	195	225	255
Max. installation / maintenance height [mm]	4,800	6,000	7,700	8,600	9,400	10,400	10,600	11,100
Max. installation / maintenance weight [t]	65**	86**	32	47	55	84	85	99

\*Dimensions and weights related to core unit. Last updated in December 2025

\*\*Skid-mounted RIKT

Frame size selection diagram



### General

Everllence's isothermal compressors have been built since 1915 and more than 1,600 units have been sold. This unique design has proven its reliability in various industries where large amounts of air need to be compressed.

The RIKT is available in eight frame sizes, from 71 to 160, seamlessly covering an inlet volume flow range between 100,000 and 750,000 m³/h. Depending on the discharge pressure and the energy evaluation, the RIKT will be designed with 2 or 3 intercoolers and 3 to 5 impellers, thus adapting the compressor to deliver gas at a pressure ratio ranging from 4.5 to 18 in a single, compact casing. The integrated coolers not only reduce the overall dimensions to the smallest possible footprint, but also avoid interconnecting process piping. Noise emanating from high velocity gas in the impellers is also significantly reduced by the plate-fin coolers and casing.

### Applications

- Air separation industry (blue ammonia and methanol process)
- Iron and steel industry
- Fertilizer industry / nitric acid
- Enhanced oil recovery (EOR)
- Compressed air energy storage (CAES)
- Any industry where a large amount of compressed air is required

### Standardized configuration

The RIKT frame sizes are based on geometrical scaling of most components, leading to a high degree of standardization and reliable performance. If necessary, major components such as impellers and diffusers may be tailored to fit process requirements.

### Technical data

- Driver: EM, steam / gas turbine
- Suction pressure: ambient pressure
- Discharge pressure: up to 18 bara
- Flow rate: max. 750,000 m³/h
- Power range: approx. 60 MW
- Number of impeller stages: 3 – 5
- Number of intercoolers: 2 or 3

### Characteristics

- In accordance with API 617
- Selection of rotors for a given frame size
- Integrated intercoolers with water separators
- Axial inlet with 1st stage open impeller
- Subsequent impellers closed type
- Casing welded in carbon steel plate

### Service, reliability & availability

The RIKT series has a proven track record with more than three million operating hours. It is designed for maximum reliability. Comprehensive after-sales services are available worldwide through Everllence PrimeServ and cover the entire product life cycle, including spare parts, overhauls, repairs, revamps/modernization, and training.

### Contact

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