

AG / AR



Powerful, robust and efficient

Benefits at a glance

- Compact design
- High power density
- High efficiency
- Superior surge resistance
- Able to handle very high volume flows

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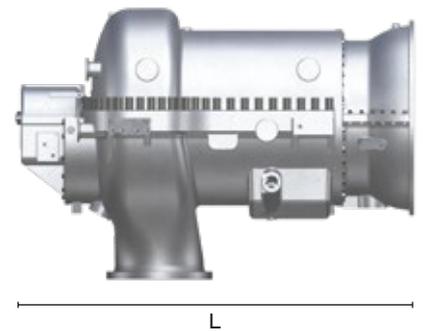
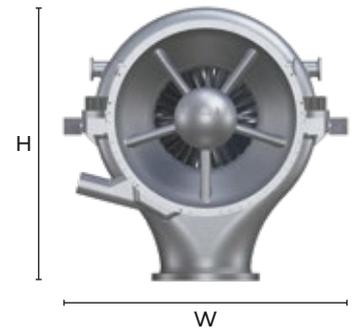
High performance axial-flow compressors

Technical data

Type	045	050	070	080	090	100
L (mm)	2,400	2,700	3,600	4,000	4,300	4,900
H (mm)	1,900	2,100	2,900	3,100	3,500	3,800
W (mm)	1,800	2,000	2,800	3,200	3,600	4,000
Weight (kg)	14,000	18,000	33,000	38,000	54,000	76,000
Max. air volume flow* (m ³ /h)	110,000	140,000	280,000	325,000	440,000	560,000

Type	110	115	120	140	160
L (mm)	5,300	5,800	6,000	6,600	7,400
H (mm)	4,200	4,700	4,900	5,400	6,000
W (mm)	4,500	4,900	5,100	5,600	6,300
Weight (kg)	100,000	130,000	150,000	210,000	300,000
Max. air volume flow* (m ³ /h)	710,000	840,000	910,000	1,100,000	1,400,000

Dimensions and weights are for orientation only, and may vary depending on compressor configuration.
*Max. air volume flow @ 43 °C Last updated June 2025



General

Axial-flow compressors are used wherever large volumes of gas need to be compressed or high efficiency is required in a single compression stage. These compressors are the prime option in many applications such as blast furnaces, nitric acid production, FCC (fluid catalytic cracking) and PDH (propane dehydrogenation), very large air separation trains and large carbon capture flows. With the latest blading development, MAX1, these axial-flow compressors feature superior surge robustness with a very compact design and a very high level of efficiency.

Modular configuration

Everllence offers a wide range of modular configurations from pre-designed axial compressor packages based on standardized modules for applications with repeating parameters to completely customized axial compressor packages for individual process specifications.

Following API617, chapter 2 and using pre-designed components and established design rules has the advantage of employing solid proven designs, lowering lead times and resulting in significant cost advantages. We also offer special materials and adapted designs for customized solutions.

Typical applications

- Air separation
- Blast furnace
- Carbon capture, utilization, and storage (CCUS)
- Energy storage
- Fluid catalytic cracking
- Maleic acid
- Methyl tert-butyl ether
- Nitric acid
- Propane dehydrogenation
- Styrene monomer
- Wind tunnels and test facilities

General data

- Flow rate: min. 100,000 m³/h max. 1,500,000 m³/h
- Pressure ratio: 1.5 – 25
- Power: up to 120 MW
- Discharge temperature: up to 350 °C
- Compressed medium: air, process gases, CO₂
- Drive: Electric motor, expander, steam turbine
- Flow control: VGV (variable guide vanes), speed control, or combined VGV and speed control
- Bearing arrangement: inline
- Casing split: horizontal
- Combination with radial impellers is possible
- Intermediate cooling is possible

Contact

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