

FIMA Maschinenbau

Maximum safety, short return on investment (ROI) times, low running and life cycle costs, extreme load ranges, sophisticated production processes: the technological and economic requirements made of FIMA system solutions call for a high level of design expertise and engineering skills. As a manufacturer of radial blowers and compressors FIMA is an expert when it comes to providing customised solutions for moving gases.

Radial compressors: F1 and F3 series

FIMA radial compressors include single and multi stage process gas compressors, process air compressors and mechanical vapour compressors. In the integral version the impeller is directly mounted on the high speed shaft. Alternative versions are fitted with intermediate bearings.

FIMA is a world market leader in low volume radial compressors. This type of compressor is frequently implemented in chemical processing plants or refineries to return some of the flue gas to the process.

Radial blowers: F1 and F3 series

Radial blowers of FIMA are characterised by their rugged design (heavy duty industrial version) and endurance. The company offers customised solutions in pressure resistant,

- Maximum flow rate 500 000 m³/hr.
- Maximum system pressure 100 bar.
- Pressure ratio per stage up to 2.5.
- Rotation speed up to 40 000 rpm.
- Drive power up to 5 MW.

Zone 0 blowers: F4 series

The Zone 0 blowers of the F4 series are used to transport permanently explosive gases, for instance when emptying tanks in tank warehouses or in flue gas plants in

gas and corrosion proof designs for the majority of applications in the chemical and petrochemical industries. Thanks to their high safety and quality standards system solutions can be implemented along with environmentally hazardous substances or potentially explosive compounds.

Technical data of F1 & F3 series:



F1 series turbo compressor for process gas.

pharmaceutical operations that use explosive media e.g. acetone. FIMA, as a world market leader for Zone 0 blowers, is a holder of construction certificates to the EG directive for explosion groups IIA, IIB1, IIB2, IIB3 and IIB.

Technical data of F4 series:

- Flow rate from 20 - 10 000 Am³/hr.
- Suction pressure minimum 800 mbar.
- Discharge pressure maximum 1400 mbar.
- Motor power up to 90 kW.
- Pressure rise up to 300 mbar.