

# FIMA Zone 0 Blowers

Maximum safety for  
potentially explosive areas

# Innovative technology for the highest safety requirements

FIMA is one of the leading suppliers of explosion-proof Zone 0 blowers and offers tailor-made solutions for the safe conveyance of explosive gases. Our fans are specially designed to minimise the constant risk of explosion and to meet the most stringent requirements of the ATEX directives.

## Explosion-proof design

Our blowers are designed that they do not pose any potential ignition sources. This is ensured by a gas-tight, stable construction and the use of tested deflagration arrestors.

## Shaft sealing & leak testing

The shaft is sealed with carbon ring seal to prevent gas leaks. Each unit undergoes rigorous leak testing.

## Vibration and temperature monitoring

Integrated sensor technology for continuous monitoring of vibrations and bearing temperatures minimises the risk of failure and optimises operational safety.

## High-performance motors with explosion protection

Our explosion-proof motors from renowned suppliers meet the highest standards and are suitable for continuous operation of our Zone 0 blowers.

## Selected materials

Only tested, certified materials are used to eliminate the risk of ignition during friction between stationary and rotating components. Highly corrosion-resistant coatings are used where necessary.

## Specific requirements for operators and responsibilities

As the operator of a plant with explosion-proof Zone 0 machines, you must comply with the most stringent requirements for safety reasons. These are specified in European Directive 1999/92/EG, the German Industrial Safety Regulation (BetrSichV) and the technical rules for industrial safety (e.g. TRBS 1112, 1123, 1201). As soon as the plant is placed on the market, responsibility is transferred from the manufacturer to the operator.

## Advantages of working with the original manufacturer

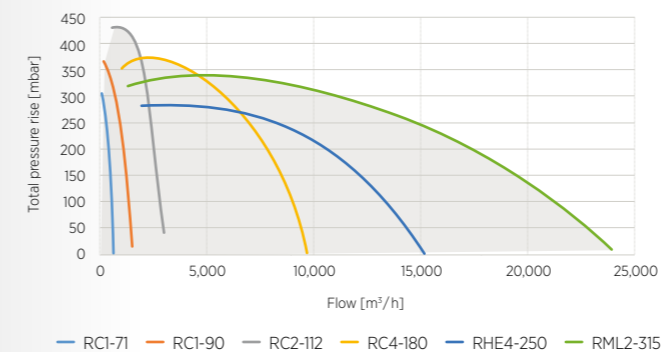
As the original manufacturer, we know all the details of the machine and have access to all the necessary documentation. If, for example, repairs are required on the fan that affect explosion protection, we are authorised to carry them out without the operator having to call in an officially recognised, qualified person. The cost savings for the operator and the reduced time required are clear advantages over third-party service providers.

# Technical data of the F4 series

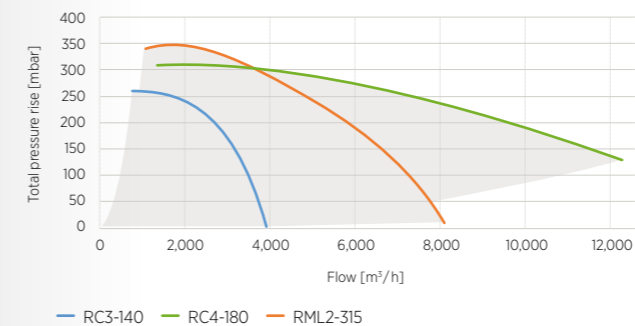
<b>Volume flow</b>	up to 12,000 m <sup>3</sup> /h
<b>Inlet temperature</b>	up to 110 °C
<b>Inlet pressure</b>	800 – 1,200 mbar
<b>Pressure increase</b>	80 – 450 mbar
<b>Motor power</b>	up to 250 kW

## Standard types and performance ranges

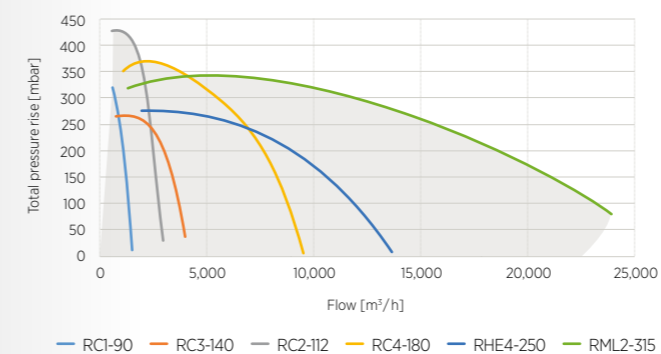
### Ex-Group IIA



### Ex-Group IIB

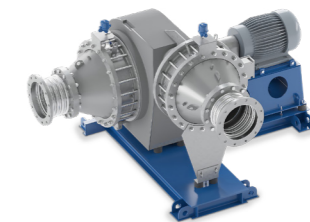


### Ex-Group IIB3



## Drive types

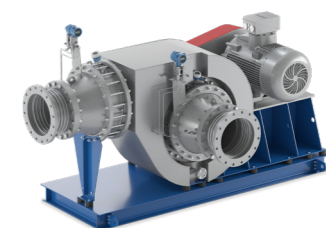
### Coupling drive



### Direct drive



### Belt drive



## Explosion protection in accordance with the latest standards

Our Zone 0 blowers are certified in accordance with the latest safety standards and meet the manufacturer requirements of European Product Directive 2014/34/EU (ATEX 114).

### IIA, IIB, IIB3

Explosion protection classes

### T3 bis T4

Temperature class

### ≤ 12 bar

Gas-tight housing design

### Prevention

of electrostatic charging through earthing system

### Certification

by recognised testing bodies

# A strong and experienced partner at your side – **Why FIMA?**

## Decades of experience

in explosion protection

## Customised solutions

for specific requirements

## Highest safety standards

and international certifications

## Customised advice and after-sales service

Contact us for your  
individual solution

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