

# CENTRIFUGAL FANS CORROSION RESISTANT



# INJECTION MOULDING

## Features

- Forwardly blades
- Backwardly curved blades
- Backwardly flat blades
- Flow rate from 150 m<sup>3</sup>/h to 10000 m<sup>3</sup>/h
- Pressure from 10 mmH<sub>2</sub>O to 250 mmH<sub>2</sub>O
- Casing and impeller materials: PP, PPs, PE, PEs
- Adjustable in 8 positions

The completely **anti-corrosive** fans made of injection-molded polypropylene are an ideal solution for **aggressive environments** where corrosion resistance is essential. Polypropylene, thanks to its chemical properties, offers excellent resistance to corrosive agents, making these fans durable and reliable over time. In addition, injection molding technology allows for precise and uniform shapes, improving aerodynamic performance and **energy efficiency**. These fans also stand out for their **silence**.

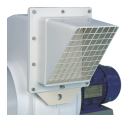


## Accessories



### PRESSURE CONNECTOR

To adapt the rectangular section pressure outlet to the circular pipe



### FLANGED CONNECTOR

With partialization damper to adjust the fan performance



### FLEXIBLE JOINT

To connect the suction/pressure outlet to the pipe and not transmit vibrations



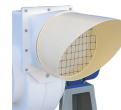
### MOTOR COVER

To protect the motor from atmospheric agents

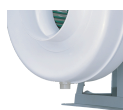


### GRAVITY DAMPER

To prevent air from re-entering when the fan is off

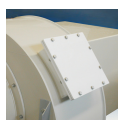


### CIRCULAR PORT WITH NET



### DRAINAGE

Sleeve for draining condensation and rainwater



### INSPECTION DOOR

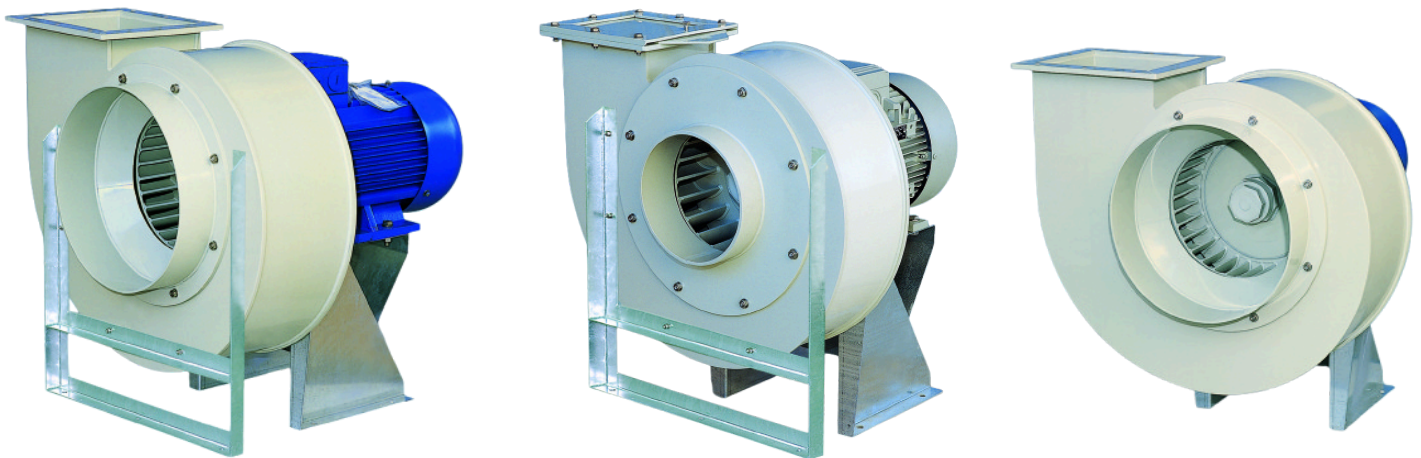
To facilitate maintenance and cleaning, complete with gasket

# PP FANS WELDED

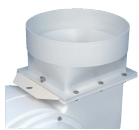
## Features

- Forwardly blades
- Backwardly curved blades
- Backwardly flat blades
- Flow rate from 1200 m<sup>3</sup>/h to 32000 m<sup>3</sup>/h
- Pressure from 30 mmH<sub>2</sub>O to 320 mmH<sub>2</sub>O
- Directly coupling or transmission
- Casing and impeller materials PVC, PP, PPels, PPs, PE, PEels, PEs

**Anti-corrosive** fans made of welded polypropylene or PVC are an ideal solution for **aggressive environments** where corrosion resistance, **durability and reliability** are essential. Welded fans differ from injection-molded fans in that they can handle higher flow rates and pressures and can be modified according to the needs of the system.

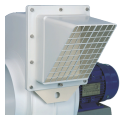


## Accessories



### PRESSURE CONNECTOR

To adapt the rectangular section pressure outlet to the circular pipe



### FLANGED CONNECTOR

With partialization damper to adjust the fan performance



### FLEXIBLE JOINT

To connect the suction/pressure outlet to the pipe and not transmit vibrations



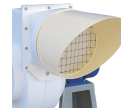
### MOTOR COVER

To protect the motor from atmospheric agents

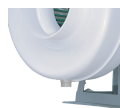


### GRAVITY DAMPER

To prevent air from re-entering when the fan is off

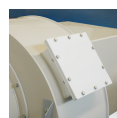


### CIRCULAR PORT WITH NET



### DRAINAGE

Sleeve for draining condensation and rainwater



### INSPECTION DOOR

To facilitate maintenance and cleaning, complete with gasket

# PP FANS HEAVY-DUTY

## Features

- Forwardly blades
- Backwardly curved blades
- Backwardly flat blades
- Flow rate from 150 m<sup>3</sup>/h to 150000 m<sup>3</sup>/h
- Pressure from 30 mmH<sub>2</sub>O to 800 mmH<sub>2</sub>O
- Casing materials: PP, PVC, PPels, PPs, PE, PEels, PEs
- Impeller materials: Stainless steel, Duplex, Carbon steel
- Impeller coatings: Ebonite, Halar, Säkaphen

**Heavy-duty anticorrosive fans** made with polypropylene or PVC casing and steel impeller designed to work in aggressive environments and deliver **high flow rates and pressures**.

**Tailor-made solutions** for every project need. Available in multiple materials and **completely customizable**.



## OUR LAST PROJECTS

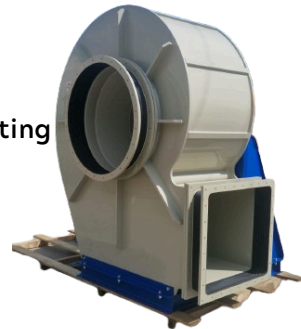
### CENTRIFUGAL FAN B 103/12

Arrangement: 1  
Casing: PP  
Impeller: carbon steel + Halar coating  
Flow rate: 27000 m<sup>3</sup>/h  
Total pressure: 5500 Pa  
Power: 75 kW  
Installation Country: Germany



### CENTRIFUGAL FAN B 103/9

Arrangement: 12 - transmission  
Casing: PP  
Impeller: carbon steel + Ebonite coating  
Flow rate: 50000 m<sup>3</sup>/h  
Total pressure: 4000 Pa  
Power: 75 kW  
Installation Country: Oman



### CENTRIFUGAL FAN HP 500

Arrangement: 4 - direct coupling  
Casing: PP  
Impeller: SS316  
Flow rate: 150 m<sup>3</sup>/h  
Total pressure: 2000 Pa  
Power: 1.5 kW  
Installation Country: Italy



### CENTRIFUGAL FAN B 115/9

Arrangement: 12 - transmission  
Casing: PP  
Impeller: SS316  
Flow rate: 60000 m<sup>3</sup>/h  
Total pressure: 3400 Pa  
Power: 75 kW  
Installation Country: Saudi Arabia



# PP FANS ATEX

## Features

- Forwardly blades
- Backwardly curved blades
- Backwardly flat blades
- Flow rate from 150 m<sup>3</sup>/h to 150000 m<sup>3</sup>/h
- Pressure from 30 mmH<sub>2</sub>O to 800 mmH<sub>2</sub>O
- Antistatic material

Anti-corrosive **explosion-proof** fans compliant with the ATEX Directive made of antistatic material and designed to work in aggressive environments.

In addition to the standard models, tailor-made solutions are also available for every project need.



- COMPLIANT WITH ATEX DIRECTIVE 2014/34/EU
- ZONE 1, 21 CATEGORY 2/2G/2D
- ZONE 2, 22 CATEGORY 3/3G/3D AND HYDROGEN (H<sub>2</sub>)
- FILED WITH TUV NORD DEPOSIT N. 0206327REV01



# OUR CONTACTS

## OUR FAMILY AFFAIR SINCE 1964

The C.G.S. Company was founded in 1964 and in 1985, following a corporate change, took the name C.G.N., under the leadership of Giusto Ghidoli and Vittorio Magistrelli.

Following the death of Giusto Ghidoli, the Company was taken over by Vittorio Magistrelli and his son Daniele Magistrelli, who, to this day, carry on a history of great success, characterized by major investments in technology, machinery and personnel, which have allowed CGN products to be appreciated worldwide

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We have built more than 30.000 centrifugal and axial fans  
Our fans have been sold in more than 50 States

