



## Applications

Refineries

Petro-chemical plants

Dangerous plants and installations

Hazardous areas with presence  
of explosive gas or dust



## ATEX MAV VENTILATORS

GROUP II, CATEGORY 2, "EX H"  
SUITABLE FOR GASES AND DUST



### Product Features

#### • Range

Diameters from 300 mm to 1250 mm

#### • Temperature class

T4, maximum surface temperature ≤ 135° C

#### • Gas group

IIB - Atmospheres containing ethylene, or gases and vapors of equivalent hazard

#### • Dust group

IIIC - Atmospheres containing conductive dust

#### • Certifications

Our ATEX Ventilators are designed, built and tested by HW Ventilation according to ATEX 2014/34/UE directive.

All the procedures followed to construct the ventilators are listed in the HW Ventilation Technical File and filed with TÜV Rheinland Industrie Service GmbH notified body.

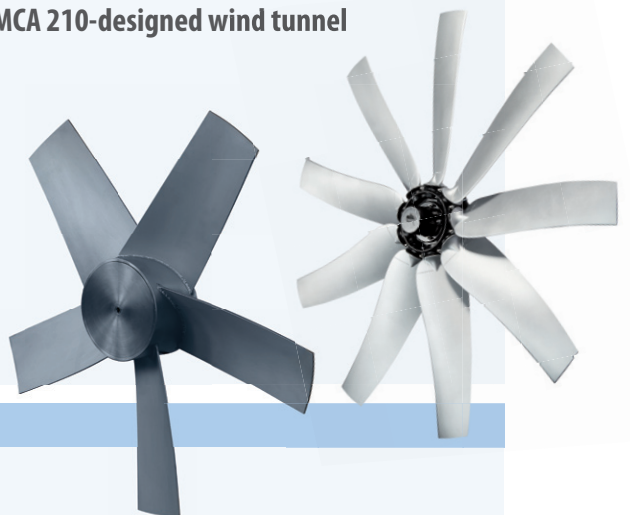


### FAN

• **Highly-efficient axial impeller, tested in HW Ventilation AMCA 210-designed wind tunnel**

#### • Blades:

- AISI 316 or AISI 304 stainless steel - welded
- Aluminum - fixed or variable pitch angles
- Anti-static polyamides (PA6) – fixed or variable pitch angles
  - antistatic PA (PAA)
  - antistatic, self-extinguishing PA (PAX)
  - antistatic, self-extinguishing, magnetically shielded PA (PAM)



### HUBS

- AISI 316 or 304 stainless steel
- Die cast aluminum alloy

### BALANCING ACCORDING TO ISO 1940 STANDARD

### CASING

- Painted S235JR carbon steel
- AISI 316 stainless steel
- AISI 304 stainless steel

## FINISHING

- Epoxy painting
- Pickling and passivation
- Hot-dipped galvanization

## MOTOR

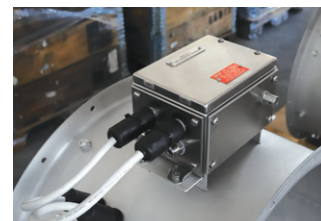
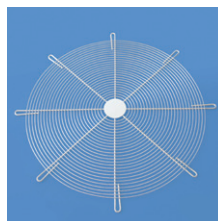
Asynchronous three phase induction motors for potentially explosive atmospheres (manufactured according to 2014/34/EU, 2014/30/EU directives):

- II 2G Ex d de IIB T5, T4, T3 Gb
- II 2G Ex d de IIC T5, T4, T3 Gb
- II 2D Ex tb IIIC T100°C, T125°C, T150°C Db IP6X

Applicable standards: EN 60079-0; EN 60079-1; EN 60079-7; EN 679-31; IEC60034-1,5,6,7,8,9,12,14; IEC 60072

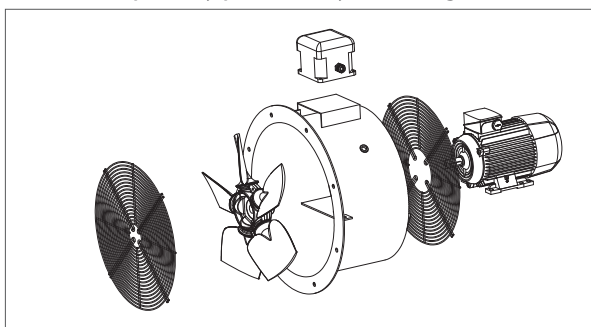
## Accessories

- protection guards
- inspection doors
- brackets
- silencers
- flanges
- ATEX junction boxes

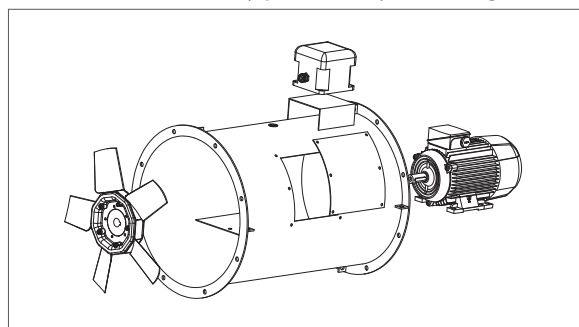


## Versions

- **Short casing:**  
the motor is partially protected by the casing



- **Long casing:**  
fan and motor are totally protected by the casing



## Advantages

- Large airflow with relatively low pressure drops
- Tailored-made solutions to suit any project specifications
- Wide range of ATEX accessories and customized components
- Motors and electrical components from top-in-class suppliers
- ATEX certificates and performance test reports are provided with each ventilator
- Performance testing is carried out internally (AMCA 210 test chamber)
- Short delivery times regardless of order quantities





**HW VENTILATION s.r.l.**

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