

ATEX FANS

Range

ALMECO NV manufactures industrial fans in accordance with the ATEX Directive 2014/34/EU for explosive environments :

- **Group II, Categories 2 and 3**
- **Gas Zones 1, 2 and Dust Zones 21 and 22**

Directive 2014/34/EU applies to all manufacturers of equipment (and protective systems) intended for use in potentially explosive atmospheres.

Group II	CAT 1	CAT 2	Zone 0*	A place in which	an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapour or mist	is present continuously or for long periods or frequently
			Zone 1			is likely to occur in normal operation occasionally
			Zone 2			is not likely to occur in normal operation but, if it does occur, will persist for a short period only
	CAT 1	CAT 2	Zone 20*		an explosive atmosphere in the form of a cloud of combustible dust in air	is present continuously or for long periods or frequently
			Zone 21			is likely to occur in normal operation occasionally
			Zone 22			is not likely to occur in normal operation but, if it does occur, will persist for a short period only

* Fans for Zone 0 / Zone 20 are not available

Conditions of Use

- Gases of explosion group IIA, IIB and hydrogen (IIC). The other gases of group IIC are excluded
- The atmospheric pressure must be between 0,8 and 1,1 bar
- The temperature (ambient air and conveyed air/gas) must be between - 20 °C and + 60 °C
- The maximum volume fraction of oxygen is 21 %

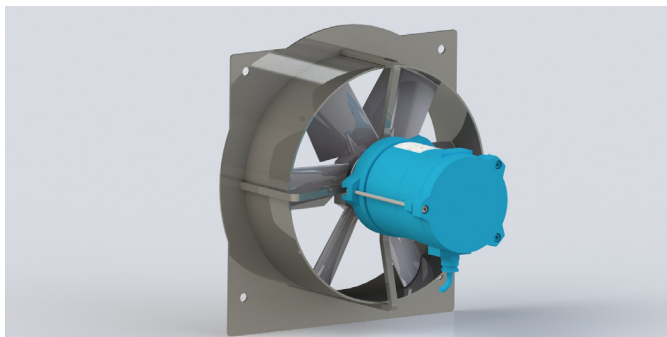
Material

- Fan houses are made of steel, hot dip galvanized after fabrication, steel, coated after fabrication, stainless steel grade 304 or 316L, pickled and passivated
- Blades used on axial fans are made of cast aluminium or glassreinforced conductant polyamide
- Fan impellers on centrifugal fans are of steel, coated after fabrication, stainless steel grade 304 or 316L, pickled and passivated
- Available motors : Flameproof (EEx d) | Increased Safety (EEx e) | Non-sparking (EEx nA)

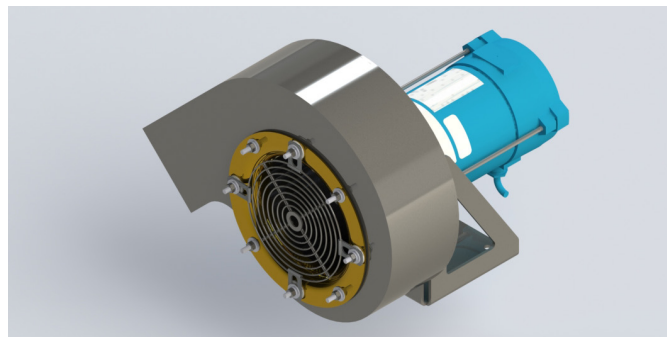
Own Design

- Technical knowledge in-house
- Fast answer on special requirements
- Accurate answer to customer demands

Some Examples



Type : AVKEX 250/2P/6-6/S1H/PACAS/L/50°/B
Motor : 0,37kW 1x230V 50Hz Eexd IIB T4
Atex : II 2G c II B T4
 Q= 2.300 m³/h, Hstat= 200 Pa at 20°C



Type : CF160-62/2P/Arr.5/RD135°
Motor : 0,37kW 1x230V 50Hz Eexd IIB T4
Atex : II 3G c II A T2 / API : 661
 Q= 650 m³/h, Hstat= 650 Pa at 20°C



Type : AVREX 2000/4/4-(7)/FRP/R/8,4°
Motor : 11kW 3x400V 50Hz Eexde IIB T4
Atex : II 3G c II A T2 / API : 661
 Q= 87500 m³/h, Hstat= 170 Pa at 40°C



Type : ExCV900-104/2/4P/RD0
Motor : 11kW 3x400V 50Hz EexnA II T3
Atex : II 3G c II B T3
 Q= 10.000 m³/h, Htot= 2.450 Pa at 90°C

Some Examples



Type : AVKEX 1000/4/8C/10°
Motor : 15kW 3x400V 50Hz EexnA II T3
Atex : II 3G c II BT3
 Q= 40.000 m³/h, Htot= 650 Pa at 50°C



Type : EX CV-355/4-104
Motor : 1.1kW 3x400V 50Hz Eexde IIC T4
Atex : II 2G c II BT3
 Q= 1.500 m³/h, Hstat= 1.300 Pa at 20°C



Type : AVKEX 710/6P/6-6/P5Z/PACAS/L/50°/A10°
Motor : 1,5kW 3x400V 50Hz EexnA II T3
Atex : II 3G c II BT3
 Q= 17.000 m³/h, Hstat= 79 Pa at 29°C



Type : ExCV500-104/3/2P/LG90
Motor : 7,5kW 3x400V 50Hz Eexd IIB T4
Atex : II 2G c II BT4
 Q= 3.250 m³/h, Hstat= 3.500 Pa at 20°C