

Extractors for explosive atmospheres ATEX

Manufactured for explosive atmospheres according to Directive 94/9CE, and supplied in accordance with ATEX certification.

The design concerns with possible hazards therefore, materials and minimum distances between components have been consider in order to avoid sparks, according to EN-14986:2005 standard.



HCDF

Axial fans with square frame and ATEX certification. CE Ex II2G EExd flame-resistant motor, Notified organism: L.O.M ID No. LOM03ATEX0157



HDF

Circular axial fans with ATEX certification and CE Ex II2G EExd flame-resistant motor, Notified organism: L.O.M ID No. LOM03ATEX0157



HCT/ATEX

Long-cased axial fans with ATEX certification with EEx"e" explosion-proof or EEx"d" flame-resistant motors. Notified organism: L.O.M ID No. LOM03ATEX0157



HPX/ATEX

Long-cased axial fans with external motor and ATEX certification with EEx"e" explosion-proof or EEx"d" flame-resistant motors and reduced sparking fan EEx"n" Notified organism: L.O.M ID No. LOM03ATEX0132



CMA/ATEX

Centrifugal cast aluminium fans with ATEX certification. EEx"e" explosion-proof motor or EEx"d" flame-resistant motor Notified organism: L.O.M ID No. LOM04ATEX0147

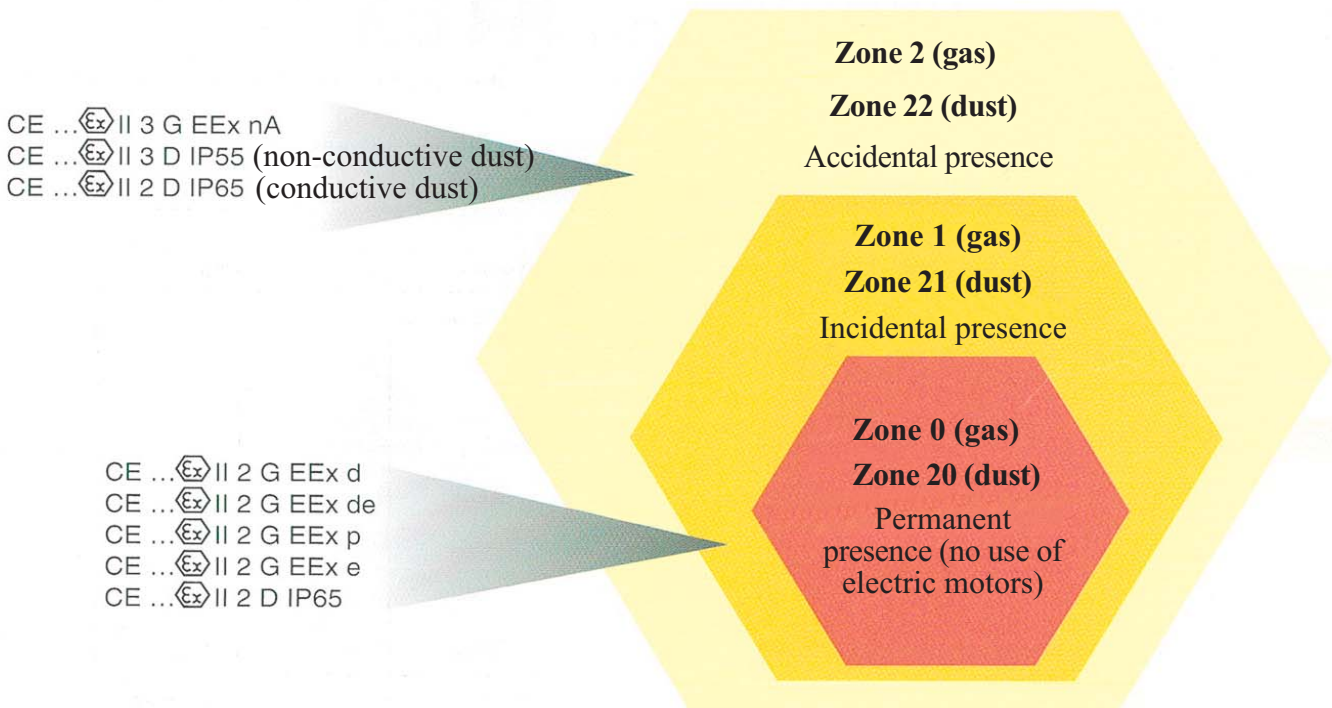


CMP/ATEX

Centrifugal fans fitted with a multi-blade impeller with ATEX certification. EEx"e" explosion-proof motor or EEx"d" flame-resistant motor Notified organism: L.O.M ID No. LOM04ATEX007

ZONES DESCRIPTION SUMMARY

Explosive atmospheres



Marking (EN) according to ATEX directives

FANS and MOTORS marking according to ATEX directives

CE 0081 II 2 G/D

↑ Identification of notified body
 ↑ European Commission mark for Ex-products
 ↑ Equipment group: electric equipment
 ↑ Equipment category
 ↑ Gas or dust
 CE Marking

Additional marking for motors

EEx d II C T4

↑ Equipment protected against explosions
 ↑ Group according to type of gas (only for flameproof)
 ↑ Group (all but mines)
 ↑ Type of protection
 ↑ Temperature class

Temperature class and ignition temperature

Temperature class	T1	T2	T3	T4	T5	T6
Ignition temperature	< 450	300 to 450	200 to 450	135 to 200	100 to 135	85 to 100

Group and temperatures class

Group	Temperature class					
	T1	T2	T3	T4	T5	T6
IIA	Acetone Ethane Ethyl acetate Ethyl chloride Ammonia Benzene Acetic acid Toluene	Carbon monoxide Methane Methanol Chloromethylene Propane Town gas	Amyl-i acetate Butane N-butyl alcohol Cyclohexane 1'2 dichloroethane Acetic anhydride	Gasoline Otto Petrol Petrol for Aviation Combustible oil Hexane	Acetaldehyde	
II B		Ethyl alcohol Ethylene Ethylene oxide	Hydrogen Sulphide	Ethyl Ether		
II C	Hydrogen	Acetylene				Carbon Disulfide

Wall-mounted axial fans (HCDF) or circular (HDF) with ATEX certification and CEE ExII2G Eexd flame-resistant motor to work in explosive atmospheres.

HCDF



HDF



Fan:

- Cast aluminium impeller
- Airflow direction from motor to impeller
- Spark-proof stuffing-box included
- Aluminium sheet bracket
- Protection guard in accordance with standard UNE 100-250
- Rolled sheet steel casing with aluminium strip in the impeller area in accordance with standard EN- 14986:2006



Motor with cable gland, "EX" Protection included.



Marked: Ex II2 G. EEx e
Notified Organism: L.O.M.
ID No.: LOM3ATEX0157

Finish

- Anti-corrosive, polyester resin, polymerized at 190°C, previously alkaline cleaned and pre-treatment free of phosphates.

On demand:

- Special windings for different voltages and frequencies.
- ATEX built for different categories.
- Fans with two speed motors.

Motor:

- Class F motors with ball bearings, IP55 protection, ATEX certification, EEx"d" IIBT4 flame-resistant.
- Three-phase 230/400, -50Hz. (power over 5.5 HP).
- Working temperature: -20°C + 40°C.

HCT/ATEX



Long-cased axial fans with ATEX certification to work in explosive atmospheres.

Motor:

- Class F motors with ball bearings, IP55 protection, ATEX certification, EEx "e" explosion-proof or EEx "d" flame-resistant
- Three-phase 230/400V.-50Hz. (up to 5.5HP.) and 400/690V.-50Hz. (power over 5.5CV.)
- Working temperature: -20°C.+ 40°C.



EEx "e" marked: II2 G. EEx e
EEx "d" marked: II2 G. EEx d
Notified Organism: L.O.M.
ID No: LOM3ATEX0157

Long-cased belt-driven axial fans with casing opening up to 180°C to work in explosive atmospheres.

HPX/ATEX

Motor:

- Class F motors with ball bearings, IP55 protection, ATEX certification, EEx "e" explosion-proof or EEx "d" flame-resistant
- Three-phase 230/400V.-50Hz. (up to 5.5HP.) and 400/690V.-50Hz. (power over 5.5HP.)
- Working temperature: -20°C.+ 120°C.



EEx "e" marked: II2 G. EEx e
EEx "d" marked: II2 G. EEx d
EEx "n" marked: II3G.
Notified Organism: L.O.M.
ID No.: LOM3ATEX0132

CMA/ATEX



Centrifugal single-inlet, medium-pressure fans with casing and impeller made from cast aluminium to work in explosive atmospheres.

Motor:

- Class F motors with ball bearings, IP55 protection, ATEX certification, EEx "e" explosion-proof or EEx "d" flame-resistant
- Three-phase 230/400V.-50Hz. (up to 5.5HP.) and 400/690V.-50Hz. (power over 5.5HP.)
- Working temperature: -20°C.+ 80°C.



EEx "e" marked: II2 G. EEx e
EEx "d" marked: II2 G. EEx d
Notified Organism: L.O.M.
ID No.: LOM3ATEX0147

Centrifugal single-inlet, medium-pressure fans with casing and impeller made from cast aluminium to work in explosive atmospheres

CMP/ATEX

Motor:

- Class F motors with ball bearings, IP55 protection, ATEX certification, EEx "e" explosion-proof or EEx "d" flame-resistant
- Three-phase 230/400V.-50Hz. (up to 5.5HP.) and 400/690V.-50Hz. (power over 5.5HP.)
- Working temperature: -20°C.+ 80°C.



EEx "e" marked: II2 G. EEx e
EEx "d" marked: II2 G. EEx d
Notified Organism: L.O.M.
ID No.: LOM3ATEX007

Finish:

- Anti-corrosive, polyester resin, polymerized at 190°C, previously alkaline cleaned and pre-treatment free of phosphates.

Ask for table of flows, measures and powers.

On Demand:

- Special windings for different voltages and frequencies
- ATEX built for different categories
- Fans with two speed motors
- EEx "n" versions installed with ATEX EExn motors.