

Extractors for explosive atmospheres ATEX

These extractors are manufactured to be installed in explosive atmospheres in accordance with the Directive 2014/34EU, and supplied with ATEX certification.

The design concerns materials and minimum distances between the mobile parts to prevent sparks while operating according to the norm EN 14896-2007 (design of fans for operation in potentially explosive atmospheres).



HCDF

Axial fans with square frame with ATEX certification and CE Ex II2G EExd flameproof motor

Notified body: L.O.M.
ID No. LOM03ATEX0157



HDF

Axial fans with circular frame, ATEX certification and CE Ex II2G EExd flameproof motor.

Notified body: L.O.M.
ID No. LOM03ATEX0157



HCT/ATEX

Long cased axial fans with ATEX certification, equipped with EEx "e" explosion proof or EEx "d" flameproof motors.

Notified body: L.O.M.
ID No.: LOM03ATEX0157



HPX/ATEX

Long cased axial fans with external motor and ATEX certification equipped with EEx "e" explosion-proof or EEx "d" flameproof motors and IP-55 motor and non-sparking fan EEx "n".

Notified organism: L.O.M.
ID No. LOM03ATEX0132



CMA/ATEX

Centrifugal cast aluminium fans with ATEX certification. Equipped with EEx "e" explosion proof motor or EEx "d" flameproof motor
Notified body: L.O.M.
ID No. LOM04ATEX0147

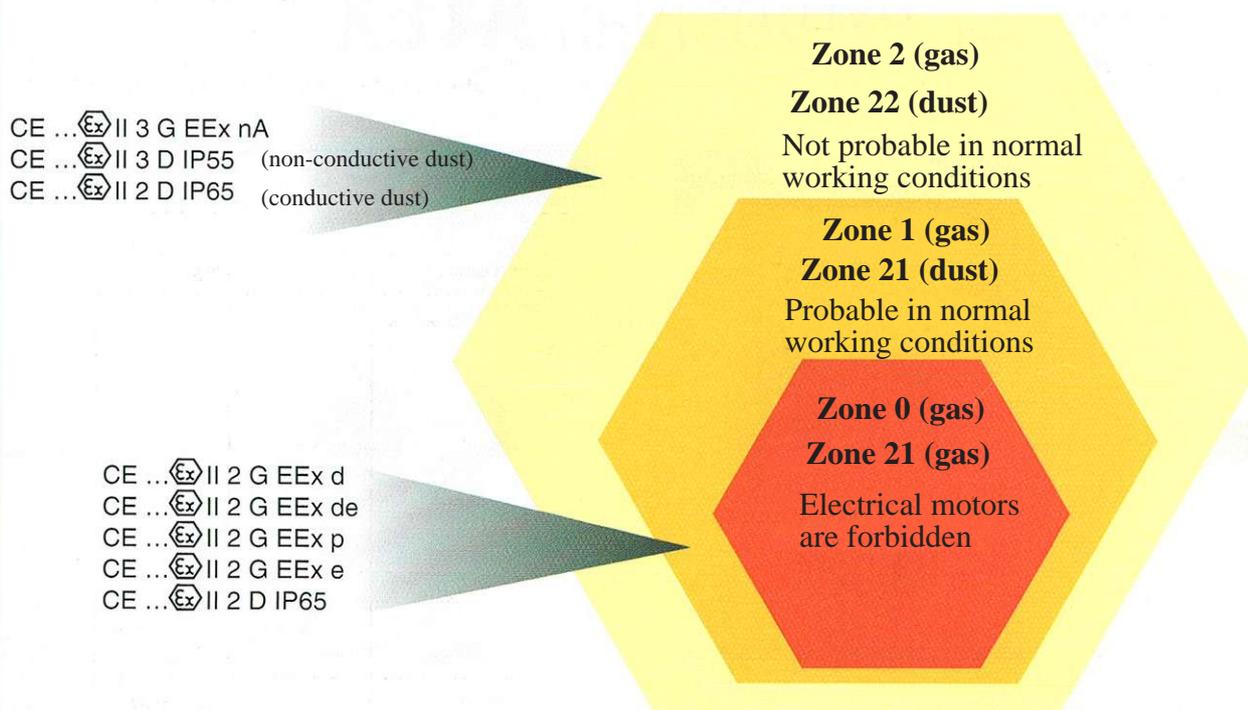


CMP/ATEX

Centrifugal fans with a multi-blade turbine with ATEX certification. Equipped with EEx "e" explosion proof motor or EEx "d" flameproof motor.
Notified body: 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

↑ CE marking
 ↑ Notified body identification (ex. LCIE)
 ↑ European Commission mark for Ex products
 ↑ Electrical equipment grouping
 ↑ Equipment category (2 or 3)
 ↑ Gas or dust

Additional marking for motors

EEx d II C T4

↑ Equipment protected against explosions
 ↑ Group according to type of gas (only required for flam proof)
 ↑ 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 a 450	200 a 450	135 a 200	100 a 135	85 a 100

Explosion group and temperatures class

Explosion 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 dychloroethane 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 axial fans (HCDF) or circular (HDF) with ATEX certification and CEE ExII2G Eexd flameproof motor to work in explosive atmospheres.

HCDF



HDF



Fan:

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



Motor with cable gland, "EX" Protection included



Marked: Ex II 2 G. EExd
Notified Body: L.O.M.
ID No. LOM3ATEX0157

Motor:

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

Finish:

Anticorrosive, 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.

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" flameproof.
- Three-phase 230/400V.-50Hz. (up to 5.5HP) and 400/690V.- 50Hz. (power over 5.5HP.)
- Working temperature: -20°C. + 40°C.



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

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

Motor:

- Class F motors with ball bearings, IP55 protection, ATEX certification, EEx "e" explosion-proof or EEx "d" flameproof
- 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 Body: L.O.M.
ID No.: LOM3ATEX0132

HPX/ATEX



CMA/ATEX



Centrifugal single-inlet, medium-pressure fans with casing and propeller made of 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" flameproof.
- Three-phase 230/400V.-50Hz. (up to 5.5HP.) and 400/690V.- 50Hz. (power over 5.5HP.)
- Work temperature: -20°C. + 80°C.



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

Centrifugal single-inlet, medium-pressure fans with casing and impeller made of 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 Bodies: L.O.M.
ID No.: LOM3ATEX007

CMP/ATEX



Finish:

Anticorrosive, 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
- EEx "n" versions installed with ATEX EExn motors.

Ask for table of flows, measurements and power.