

# Explosion protection ATEX 2014/34/EU



Explosion-proof  
plastic fans  
to protect persons  
and property



## ATEX 2014/34/EU



Protection grid

Shaft seal  
Viton/Hastelloy

Standard  
shaft seal

### HLU fans according to ATEX 2014/34/EU

The ATEX Directive 2014/34/EU regulates the requirements with regard to placing products on the market that are used in potentially explosive atmospheres. The term ATEX is derived from the French abbreviation "Atmosphère explosible" and is used as a synonym for the two directives of the

European Community in the area of explosion protection, ATEX Directive 2014/34/EU and ATEX Directive 1999/92/EG. The design of fans in the ATEX area is described in detail in the norms DIN EN 14986 and DIN EN ISO 80079.

Explosion protection is differentiated according to the conveyed atmosphere (inside) and the surroundings of the installation site (outside).

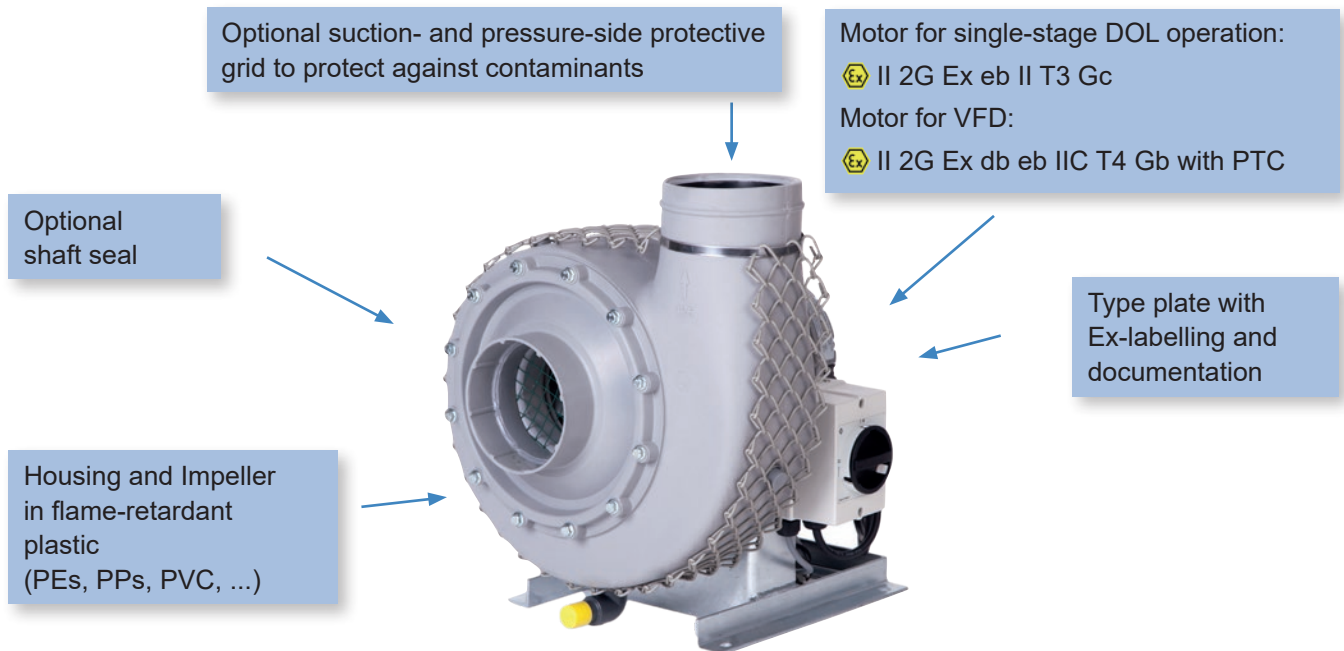
HLU supplies fans for the ATEX Zones 2 and 1 for different zone combinations.

inside	outside
Zone 1	Zone 1
Zone 1	Zone 2
Zone 2	Zone 2
Zone 2	no Zone

### HF -centrifugal fan in ATEX version – for Zone 2 inside / no Zone outside:



## HF -centrifugal fan in ATEX version – for Zone 2 inside / Zone 2 outside:



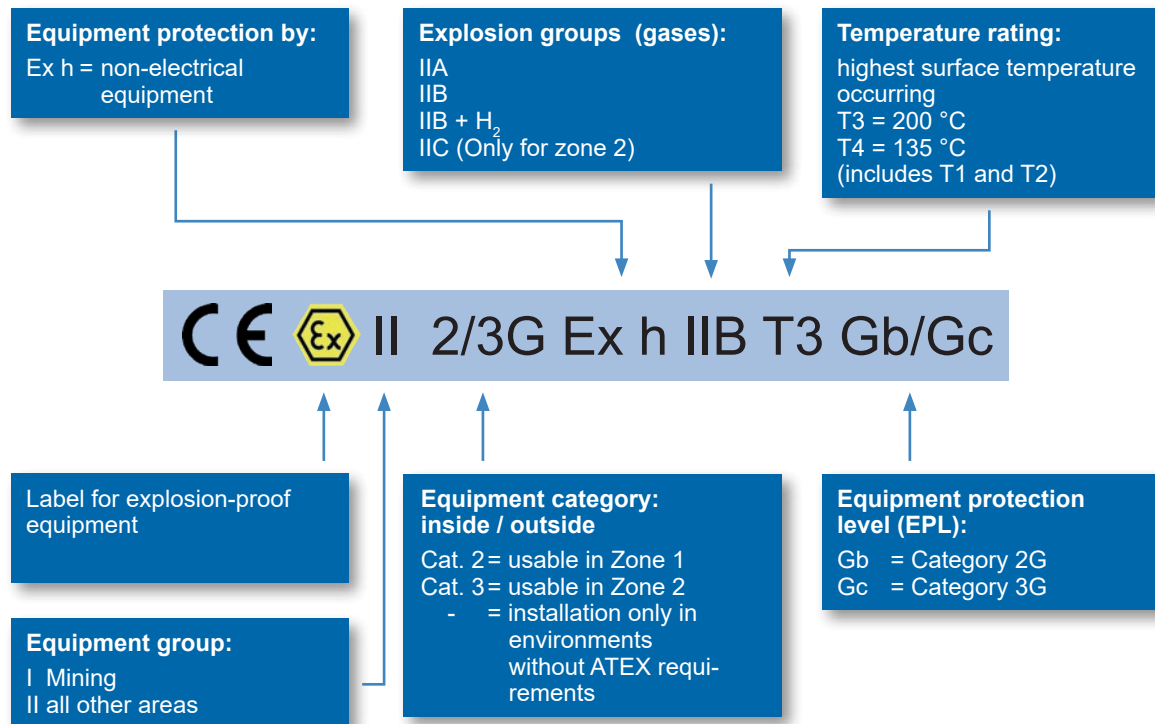
## HF -centrifugal fan in ATEX version – for Zone 1 inside / Zone 2 outside:

### – for Zone 1 inside / Zone 1 outside:

HLU fans for ATEX Zone 1 are made of electrical conductive plastics (el).



You will see on the fan's type plate a permanent identification of the explosion protection. The following illustration explains the labelling of equipment for potentially explosive atmospheres:



The operator of a facility is obligated to conduct a risk assessment. For questions regarding the Zone classification, you can contact various test centres such as for example safety engineers and special consultants. The following tables serve as reference:

An explosive gas atmosphere exists ...	ATEX Ex Zone	ATEX Device category	IEC EPL (International) (Equipment Protection Level)
for more than 30 min. per year, however, less than 50% of the operational period daily	Zone 1	Category 2G	Gb
for a max. of 30 min. in a year	Zone 2	Category 3G	Gc

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