

▶ II 2G Ex h IIC T6 Gb ▶▶




Classification system	Zone 0	Zone 20	Zone 1	Zone 21	Zone 2	Zone 22	Mining
Hazardous explosive atmosphere	Continuously, frequently or for long periods		Occasionally		Infrequently and for short periods only		
Equipment category	1G	1D	2G	2D	3G	3D	M1 and M2
Type of protection	Symbol Standard	Zone	Main areas of application				Standard
Constructional safety: c	h	0, 1, 2, 20, 21, 22	Clutches, pumps, gears, conveyor belts				ISO 80079-37 EN ISO 80079-37

Areas with potentially explosive gases – temperature classes	Mining areas with potentially explosive atmospheres	
450 °C	T1	
300 °C	T2	
200 °C	T3	
135 °C	T4	
100 °C	T4	
85 °C	T6	
Areas with potentially explosive gases – surface temperature	Areas with potentially explosive gases	
T ...°C (e.g.: T 80 °C)	Group I	Methane
	Group II	IIA IIB IIC Propane Ethylene Hydrogen
	Areas with potentially explosive dusts	
	Group III	IIA IIB IIC Combustible flyings Non-conductive dust Conductive dust


Classification system	Zone 0	Zone 20	Zone 1	Zone 21	Zone 2	Zone 22	Mining
EPL (IEC/EN 60079-0)	Ga	Da	Gb	Db	Gc	Dc	Ma and Mb

▶ ATEX marking ▶ Type of protection ▶ Group ▶ Max. surface temperature ▶ EPL

1. Select unit variant

Extract air unit (explosion-proof extract air unit)		
	<p>Heat recovery: Zone 2: Only RCS Zone 1: Only RCS</p>	<input type="checkbox"/>
Combined supply air and extract air unit (only extract air unit is explosion-proof)		
	<p>Recirculation damper not allowed. Heat recovery: Zone 2: Only RCS Zone 1: Only RCS</p>	<input type="checkbox"/>
Combined supply air and extract air unit (both supply air unit and extract air unit are explosion-proof)		
	<p>Heat recovery: Zone 2: Only RCS / PHE Zone 1: Only RCS / PHE</p>	<input type="checkbox"/>

2) Equipment classification

 <p>All details for the atmospheres both inside and outside of the unit are mandatory!</p>	▶ Inside (extract air):	Zone 2: Equipment classification: II 3G IIB	<input type="checkbox"/>	No zone			
		Zone 1: Equipment classification: II 2G IIB	<input type="checkbox"/>				
		Temperature class	T1 <input type="checkbox"/>		T2 <input type="checkbox"/>	T3 <input type="checkbox"/>	T4 <input type="checkbox"/>
		Ignition temperature	> 450 °C		> 300 °C	> 200 °C	> 135 °C
		▶ Inside (supply air):	Zone 2: Equipment classification: II 3G IIB		<input type="checkbox"/>	No zone	
			Zone 1: Equipment classification: II 2G IIB		<input type="checkbox"/>		
	▶ Outside:	Zone 2: Equipment classification: II 3G IIB	<input type="checkbox"/>	No zone			
		Zone 1: Equipment classification: II 2G IIB	<input type="checkbox"/>				
	Temperature class	T1 <input type="checkbox"/>	T2 <input type="checkbox"/>	T3 <input type="checkbox"/>	T4 <input type="checkbox"/>		
	Ignition temperature	> 450 °C	> 300 °C	> 200 °C	> 135 °C		

3) Where does the potentially explosive atmosphere occur?

Only for potentially explosive atmospheres 'Outside':

Define the 'outside' zone (max. distance from the unit):

m

4) Installation location

Indoor installation → continue with 5.

Outdoor installation → continue with 6.

5) Only for indoor installation

Air change rate, installation room < 6/1h > 6/1h

Daily operating hours of the entire system 24 h/d < 24 h/d

6) Only for outdoor installation

Unobstructed airflow in two directions along an axis Yes No

▶ 7) Project data

Project	
Company (stamp)	
Signature	
Name	
Date	

Please enclose the completed document with your request.