

Air motors are inherently safe for most hazardous duty use since they are non-sparking and run cool. They are well suited for non-hazardous environments as well.

In order to comply with ATEX directives, air motors are listed with letters/numbers that specify the exact criteria the product meets in relation to the directives and so determines the type of environments that they are safe to operate in.

The air motors used in Fawcett equipment are suited for use in ATEX zones 1 and 2 where explosive atmospheres are likely to occur and are marked according to Directive 2014/34/EU.

Here we explain the markings specific to the motors used on Fawcett equipment:





We do not guarantee the safety of any application, but to ensure the safe operation of an air motor in your application, always follow the product operation manual, follow appropriate regulatory body regulations and requirements when operating in a hazardous atmosphere and consult with qualified personnel.

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DESCRIPTION	VALUE	DEFINITION
Equipment Group	1	Mining applications
	11	Surface/Non-mining applications
Equipment Group (only those within equip. group II listed)	1	Very High Level of Ignition Protection
		(environment presents continuous risk)
		• Zone 1 (gas) • Zone 21 (dust)
		• Zone 2 (gas) • Zone 22 (dust)
	2	High Level of Ignition Protection
		(environment presents frequent risk)
		• Zone 2 (gas) • Zone 22 (dust)
	3	Normal Level of Ignition Protection
		(environment presents infrequent risk)
	Note: estagen, 1 is the highest possible	• Zone 2 (gas) • Zone 22 (gas)
	Note. Category i is the highest possible	
Environment	G	Atmosphere containing Gas, Vapors or Mist
	D	Atmosphere containing Dust
Principle of Explosion Protection	Ex h	Constructional safety – non-electrical device
0 0	11.4	
Gas Group (only those within equip. group II listed)	IIA	Propane/Acetone/Ammonia (least dangerous/highest ignition temp.)
		Euryrene Hydrogen/Acetylene (most dangerous/lowest ignition temp.)
	Note: IIC is the highest possible so also	o covers all others above (and so on for each)
Temperature Class in Gas (equipment max. surface temp.)	T1	450°C
	T2	300°C
	T3	200°C
	14	135°C
	T6	85°C
	Note: T6 is the highest possible so cov	ers all others above (and so on for each)
Equipment Protection Lovel in Coo	Ca	Varillink
		very High
	60	Hign
	UC Note: Co je the bishead 111	
	Note: Ga is the highest possible so cov	rers all others above (and so on for each)
Dust Group (only those within equip. group II listed)	IIIA	Combustible Flyings
	IIIB	Non-conductive Dust
	IIIC Note: IIIC is the highest possible of the	Conductive Dust
	note. The is the highest possible so als	יס כסיבוס מוו טנוופוס משטיע (לווע 50 טוו וטו פלטוו)
Temperature Class in Dust (equipment max. surface temp.)	T450°C	
	T300°C	
	T200°C	
	T135°C	
	T100°C	
	T85°C	
	Note: T85°C is the highest possible so covers all other above (and so on for each)	
Fauinment Protection Level in Duct	Πα	Very Hinh
Equipment Flotection Level in Dust	Db	Hiah
	Dc	Normal
	Note: Da is the highest possible so cov	rers all others above (and so on for each)
	note. Da is the highest possible so cov	יפרא מוו טנוופרא מטטעפ (מווע אט טוו וטו פמטוו)

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