

Centralized Vacuum **Systems**

Pneumatic Conveyors

/pirovac® High Power Vacuums



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Information Guide

What is the ATEX directive?

In general terms the ATEX directive certifies the requirements needed to enable vacuum cleaners and other machinery work in presence of gas and inflammable powders.

This regulation takes in consideration the complete machine and not just the electrical components. According to the European rules (directive 99/92 for the zones and 94/9 for the product), CFM has achieved the ATEX certificate for various models of its range.

2 By whom and how the zones are classified?

The purchaser has to declare to the manufacturer in which zone the vacuum cleaner will be used. This statement is based on the environmental characteristics represented by the different quantities of explosive powders and gas present in the area. The manufacturer will then provide the customer with the most appropriate machine. The following chart shows the zones classification.

Category	G	D	Probability
	Gas zone	Dust zone	of danger
1	0	20	Always
2	1	21	Probable
3	2	22	Possible

Zone 0 Area with a steady explosive atmosphere (gas, mist)

Area with a probable explosive atmosphere (gas, mist) Zone 1

Zone 2 Area with a possible but improbable explosive atmosphere (gas and mist)

Zone 20 Area with a steady explosive atmosphere (combustible dust)

Zone 21 Area with a probable explosive atmosphere (combustible dust)

Zone 22 Area with a possible but improbable explosive atmosphere (combustible dust)



3 CFM solution for the zone at risk

As the supplier, CFM has to provide the customer with a vacuum cleaner in accordance with the declaration the client issued. With this statement the buyer has defined in which area the machine will be used. The following chart (for instance) shows the zones and the vacuums CFM suggests for each area.

Vacuums	Gas zone			Dust zone		
	0	1	2	20	21	22
A17/100 DXX A17/60 DXX		X	X		X	X
3307MAG1 3557MAG2 3557MAG3					X	X
3306Z22						X

Operative solutions

Vacuums characteristics

The machines described in this brochure achieved the ATEX certification E/x. These vacuum cleaners have all the safety features the directive requires as well as the typical power and reliability of the CFM industrial vacuums.



**= conductive dusts





A 17

Air compressed vacuum cleaner available in two versions, with 60 litre and 100 lt capacities. This is the sole model of the CFM range (ATEX certified) running in presence of gas and explosive powders. The filtering chamber and the bin are in stainless steel. Each components is earth connected.

Other models are in phase of certification for II D and II G categories.

		DUST D		GAS G		
	Zone	21 22**	22*	1	2	
	Protection	IP65 [▲]	IP55*	IP65 [▲]	IP65 [▲]	
	Category Vacuum	II 2 D	II 3 D	ll 2 G	3 G	
kW						
1,6			А			
2,2			А			
2,2			A			
4			A			
4	4		А			
2,2	2,2		А			
4			A			
5,5	5,5		A			
4			A			
7,5			A			
11			A			
11			A			
13			A			
22			A			
22			A			
		A				