Comparison in case of Dust

	ATEX	ACD
	ATmosphere **EX**plosive Manufacture need to follow Directive 2014/34/UE Normative IEC/EN 60079-0_2017	**A**ppliance for **C**ombustible **D**ust Manufacture need to follow Directive 2006/42/CE Design and certification follows the IEC (EN) 60335-2-69_2021
User environment	**Dirty/dusty environment with risk of dust cloud** Risk analyses from customer mandatory EN 99/92	**Clean environment without dust cloud.** No Risk analyses from customer required.
Material to vacuum	Combustible dust (IFA-list) **Conductive dust if machine IP6x protected**	Combustible dust (IFA-list)
Considerations	Need to **exclude any introduction of risk to the environment** and avoid ignition source.	Need to be grounded and bounded to avoid sparks by electrostatic energy **inside the container and the accessories.**
Product design	Filter tested and **antistatic,** use of spark reducing material on impact, material **construction parts grounded.** Antistatic wheels, **electric components IP and ATEX certified.** Machine is completely certified only when marked "tb/tc" including enclosure of electrical protection concept.	Filter always **M-class category** and **antistatic,** use of spark reducing material on impact, material construction parts grounded, electric **components industrial standard.**
	VHS010 – 011 LC Z22 EXA	VHS010 – 011 LC ACD
	Filtered motor head with **brushless motor** Filter chamber electrically **grounded and bounded** Stainless Steel construction for impact reduction Certification and **risk assessment from Accessories to Plug.** Unique Nilfisk EXA certification for Accessories available.	**Industrial Standard motor** head Filter chamber electrically **grounded and bounded** Stainless Steel construction for impact reduction Mandatory **accessories in antistatic/ conductive**
Main applications	Risk qualified, protected working environment where introduction of machine may increase the risk. Possible presence of combustible dust cloud in the atmosphere of environment.	Any non-qualified and clean environment. I.e. Food, Pharma, Manufacturing. Accumulation of limited combustible dust settled on surfaces.

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