

Dust collection solutions

Rated vs unrated locations



ACD vs. Class II Division 2: Which dust collection solution fits your needs?

When it comes to managing combustible dust, selecting the right vacuum system depends on whether your environment is classified as hazardous or non-hazardous. Let's break down the key differences between CIID2 and ACD vacuums to help you make an informed decision.

	NFPA Standards: Class II Div 2 (CIID2)	ACD: Appliance for Combustible Dust
Definition	Meets current NFPA Safe Housekeeping For up to Class II, Division 2 Hazardous Locations Design and certification follows applicable UL and CSA standards	Meets current NFPA Safe Housekeeping Requirements for Combustible Dust Collection in Non-Hazardous Locations Design and certification follows the IEC (EN) 60335-2-69_2021
User environment	Class II Div 2 rated vacuums are designed for environments where the presence of combustible dust poses a real hazard. This includes areas where dust can ignite under certain conditions, such as in industries like grain processing, woodwork, or metalwork. In these locations, the introduction of non-compliant electrical equipment can create hazards. Therefore, a risk analysis is mandatory to confirm safety compliance based on NFPA standards.	For unrated environments where combustible dust may still accumulate, a risk analysis is recommended. These areas may have limited amounts of combustible dust, but safe collection practices remain crucial.
Material to vacuum	Combustible non-metal	Combustible non-metal
Considerations	The NFPA does not endorse or approve specific products. The NFPA has laid out product design recommendations in the latest combustible dust standard, which Nilfisk interprets in order to design compliant vacuums.	Need to be grounded and bounded to avoid sparks by electrostatic energy inside the container and the accessories.
Product design	Antistatic main filter, low sparking materials, bonding and grounding, antistatic wheels, filtered motor cooling air. Complete machine NRTL listed and marked for Class II, Division 2, Groups F&G.	Antistatic main filter, low sparking materials, bonding and grounding, antistatic wheels and industry standard electrical components. NRTL listed and marked ACD.
Choosing the right vacuum	If your environment is a hazardous location with a potential risk for dust explosions, the CIID2 vacuum is your best choice.	If you operate in an unrated environment where dust accumulation is a concern but not hazardous, the ACD vacuum provides excellent performance and safety features.

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VHS010 – 011 LC CIID2

Brushless motor with filtered
motor cooling air

Filter chamber electrically
grounded and bounded

Stainless Steel construction to
minimize percussive spark risk

NRTL-certified for use in rated
Class II Div. 2, Group F&G locations



VHS010 – 011 LC ACB

Industrial Standard motor head

Filter chamber electrically
grounded and bounded

Stainless Steel construction to
minimize percussive spark risk

Mandatory use of **antistatic** or
conductive hoses & accessories



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