

CVS

Central Vacuum Systems

Total dust control throughout your facility



Centralized Dust Control & Material Removal?

For a safe, pure and effective environment

Nilfisk central vacuum systems have helped customers with localized zone cleaning, process-integrated cleaning, spot suction and full-scale applications where tube systems must cover an entire plant. They are a more economical and less intrusive option to large dust/high CFM systems.

Our critical cleaning systems help manufacturing facilities meet cleaning standards and regulations, while providing flexible, cost-saving dust collection solutions.

Expert Support


We support you with a highly-trained direct sales team. Dedicated to solving your facility's cleaning challenges, our team analyzes your processes and recommends the best vacuums and features for your particular application.


Locate your sales rep at:
<https://www.nilfisk.com/en-us/pages/find-a-sales-rep/>

Visit the Nilfisk Industrial Vacuums site:
www.nilfisk.us

Watch how-to videos and customer case stories:
www.youtube.com/NilfiskVacuums

Call customer and technical support:
1-800-NILFISK

Dedicated engineering department

Dedicated sales team


Worldwide technical assistance

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Collect Materials Facility Wide

Multiple inlets, users and materials collected with one system

Centralized vacuum systems are easy to use and extremely efficient. Constructed of facility-wide tubing and piping, CVS systems provide effective cleaning anytime, anywhere.

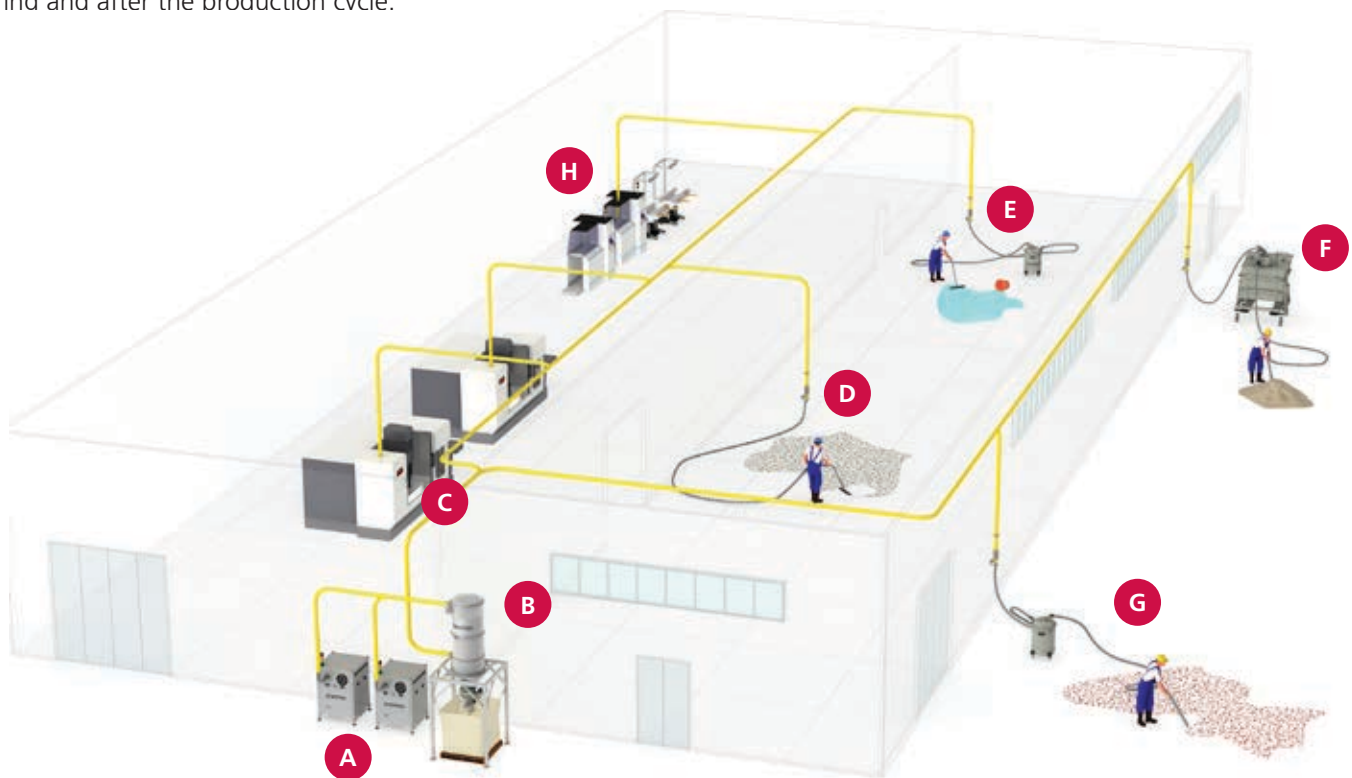
After assembly, a Nilfisk sales representative along with the Nilfisk engineering team will recommend the appropriate cleaning equipment and customize each area of the facility for the individual application and environment size.

Nilfisk central vacuum systems are customizable and can be adapted to clean any facility environment before, during and after the production cycle.

In addition, regional and smaller scale options are available for economic investment optimization alternatives to large dust, high powered systems.

Centralized vacuum systems allow multiple inlets and users to collect multiple materials simultaneously with the ability to cover an entire facility.

The vacuumed material is collected and discharged either inside or outside the facility, making it easy for the operators to dispose and recycle.



A Suction unit	D Inlet for quick connections	G Hot material pre-separator
B Silo/filter chamber	E Liquid pre-separator	H Process-machine interconnection
C Pipeline	F Heavy-duty pre-separator	

Why Select a Central Vacuum System?

Choose equipment that meets your facility requirements

What

- Recover dry powder or waste material of different grain size
- Recover small amounts of hazardous material in the safest way
- Quickly collect high amounts of materials in order to avoid downtime in the production process

How

- Safely collect materials, reducing risk for operators
- Recycle waste material in the production process
- Centralize collection of the materials in one single place
- Complete integration in the production process

Where

- Medium/large areas that must be cleaned quickly and effectively
- Facilities with several production areas and floors
- Manufacturing sites with limited space

When

- You need easily accessible cleaning equipment
- You need to quickly and efficiently perform cleaning operations
- The cleaning process is part of the production process



Typical Applications

Effectively collect and contain debris in any industry

Centralized vacuum systems are used to support production processes. Due to their high potential, fixed cleaning systems range among the most flexible tools that can be integrated into production processes.

They work side-by-side with manufacturing machines while generating vacuum for continuous product recovery to keep production lines clean and safe.

These systems are beneficial in numerous ways to clean and maintain a safe working environment for your product, facility and employees.

Fixed cleaning installations are present in all industrial sectors such as pharmaceutical, chemical, metal, food, wood, ceramic, tobacco and more.

THE APPLICATIONS

A DUST CONTAINMENT:

- Provide power to systems composed by several containment units
- Waste is discharged in one single place (even outside)
- Noiseless

C GENERAL CLEANING:

- Clean quickly and effectively the manufacturing areas
- Waste is discharged in one single place (even outside)
- Noiseless

B INTEGRATION TO PROCESS MACHINES:

- Continuously recover the waste produced during the production process
- An unique system able to serve several process machines
- Waste is discharged in one single place (even outside)
- Noiseless

D CLEANING OF THE EQUIPMENT:

- Recover large quantities of waste very fast
 - Waste is discharged in one single place (even outside)
 - Noiseless
-

Cabinets

Modular design for minimal footprint

Nilfisk cabinets for central vacuum systems are offered in 3 different sizes: small, medium and large. These sizes accommodate all Nilfisk blowers, which range from 5.5 to 23 kW power and are available in a variety of versions based on need. The cabinets are available painted or in stainless steel.

KEY FEATURES:

Modular:

- Cabinets are equipped with stackable, telescopic legs
- Control panel and removable panels can be moved according to needs
- Can be placed both indoor and outdoor

Silent:

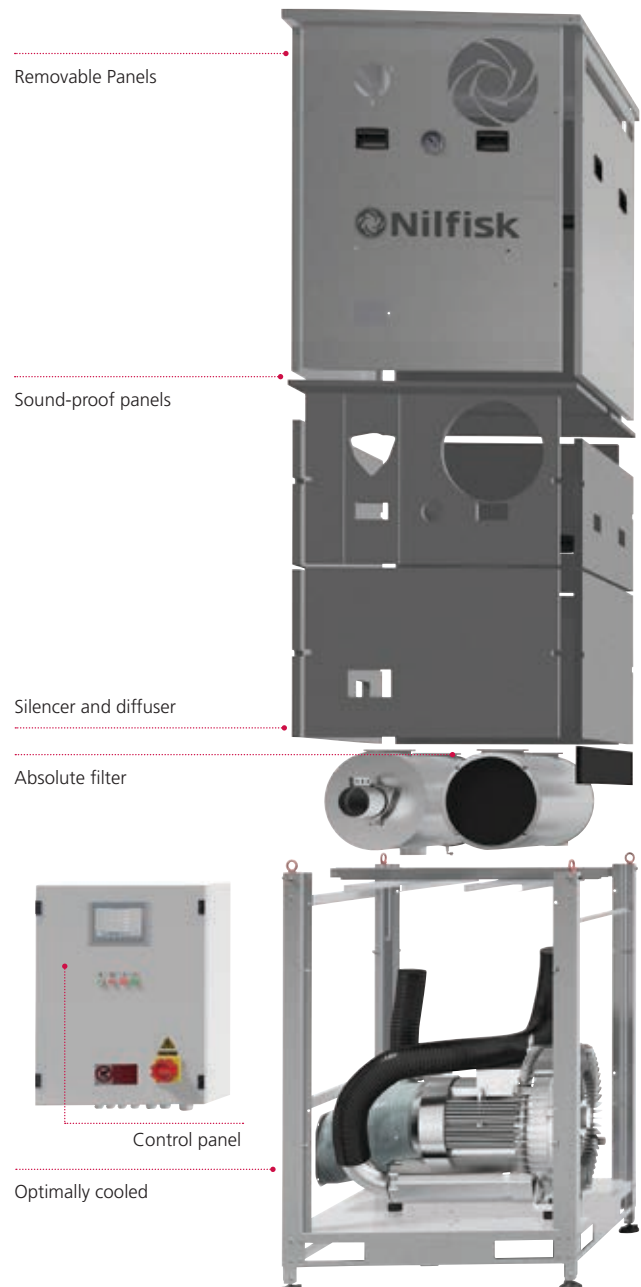
- The silencer and sound-proof panels ensure a very low noise level

Green:

- Dynamic power set by number of users (inverter version)

Safe:

- The motor is cooled and filtered, ensuring a cleaner working environment
- HEPA filtration available



The Range: Silos

Silos

Highly customizable offering for specific applications

Nilfisk silos are composed of a filter chamber, a collecting cone and discharge system. The range of silos is offered in three different diameters: 560, 780 and 1200 mm, featuring different filtering area and capacity.

A Nilfisk sales representative, along with the Nilfisk engineering team will help recommend the right combination of filter and discharge systems below to meet various cleaning and debris collection needs.

Silos can be mounted on a range of different frames according to the size and discharge point.

Additional separators are available to increase the capacity and provide different disposal solutions.



Optional silo components:



Rotary valve



Double butterfly valve:
continuous discharge



Long durability valve



Interconnection for venting disk



Heavy industry separator



Stainless steel container



Special chamber with flange
for Venting Disk



Telescopic frame

Control Panels

Newly optimized design for ease of use

Nilfisk offers three control panel options that are designed to meet varying industry requirements, while maintaining a user-friendly design and interactive features.

VISUAL panels are easy to use and have been designed for standard applications.

DISPLAY panels combine an excellent level of functionalities with an optimal price level.

TOUCH panels are the top of the category and ensure maximum level of interaction and control of the system.

Control panels are available in a wide range of languages and feature a HMI Touch Screen, which allows the operator to monitor in real-time and control several parameters of the system.

The DISPLAY and TOUCH variants can control the all Nilfisk blowers, both the standard and the inverter.



HMI Touch Screen main features:

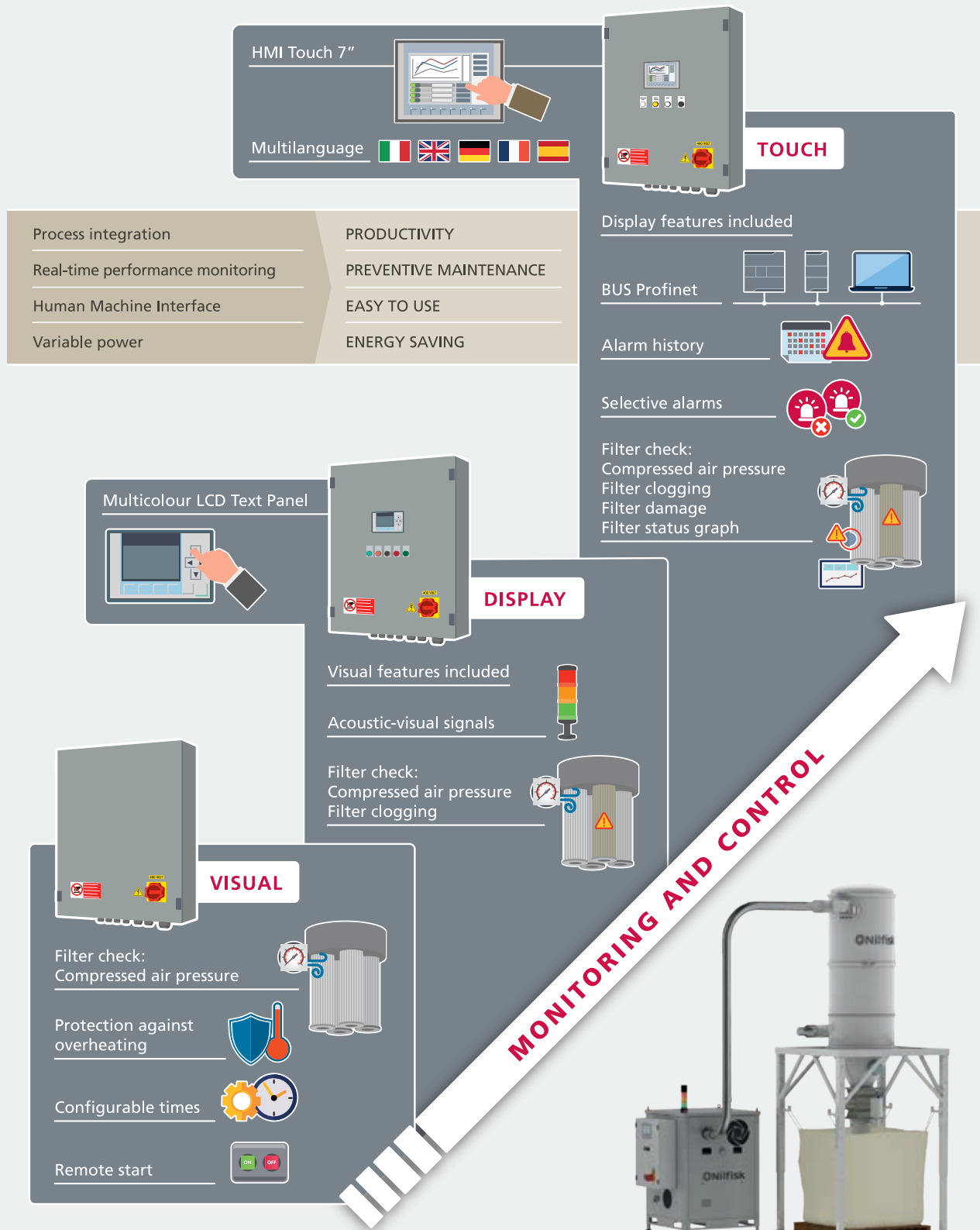
- Runtime analytics
- Multi-language
- Adjustable timer
- Data logger
- Remote access via web (Web server)

Control panels functionalities:

Functionalities	VISUAL	DISPLAY	TOUCH
LCD Text Panel Multicolor		✓	
HMI Touch 7"			✓
Multi-language			✓
BUS Profinet			✓
Data Logger – Alarm history			✓
Selective alarms			✓
Industry 4.0		✓	✓
Acoustic-visual signals		✓	✓
Advanced signals		✓	✓
Web server		✓	✓
Filter check: filter status graph			✓
Filter check: filter damage			✓
Filter check: filter clogging		✓	✓
Filter check: compressed air pressure	✓	✓	✓
Inverter variant		✓	✓
Automatic Timed Stop	✓	✓	✓
Configurable times	✓	✓	✓
Remote start	✓	✓	✓
Protection against overheating	✓	✓	✓

Control Panels

Three options to fit your facility and application needs



Centralized Dust Control

For a safe, pure and effective environment



Portable Vacuum Solutions

Benefits of portable Nilfisk vacuum solutions include:

- Portable in areas with large footprint
- Economical solution
- Ability to accommodate multiple users at the same time (with recommended accessories)
- Continuous suction, reducing machinery downtime (dependant on machine)
- Knowledgeable direct sales force
- MRO expense



Stationary Central Vacuum Systems

Benefits of stationary Nilfisk central systems include:

- Automatic start and stop of the system on the inlet
- Ability to accommodate multiple users at the same time
- Continuous suction, reducing machinery downtime
- Convenient location throughout entire facility
- Multiple discharge options for fast disposal of waste
- Permanent, facility-wide solution
- Relatively small footprint
- Knowledgeable direct sales force
- Capital expense
- Flexible design

Selecting the Right Solution

Determine if a central system fits your application

When a top-quality central system is needed, we begin working together to investigate the application. Our engineers and product management team analyze the particle size and weight of material to be collected and review installation specifications, including floor plans, anticipated tube runs, drop locations and machine locations. Armed with this information, we design the right system for the job.

Consider the following when in the process of determining the right solution for your facility.

Question	[Y]	[N]
Is the collected material combustible?		
Is the machine in a classified environment?		
Is there available space for machinery?		
Is a stand-alone pre-separator needed?		
Are special control features needed?		

Area to be addressed	Answer
Average bulk density (lb/ft ³)	
Power capability (V)	
Frequency required (Hz)	
Amperage capacity (A)	
Number of drops needed (inlets)	
Number of equipment users	
Portable or stationary solution	

Notes:

Contact your local Nilfisk district sales manager to inquire about a central vacuum system for your facility.

Visit our website www.nilfisk.us or call 1 (800) NILFISK.

Safe Choice Commitment

At Nilfisk Industrial Vacuums we understand that you face many risks each day, just by operating your business. That is why Nilfisk is dedicated to helping you make smart choices to keep your facility and your workers safe. Our team of experts is ready to tackle any cleaning challenge – because in a world full of risk, you have to make safe choices.

We are committed to being that safe choice.

To learn more visit www.nilfisk.us

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