

✓ Dust Extraction Systems since 1921

✓ Up to 70% Energy Savings

✓ Modular design for easy expansion

✓ Reliable operation 24/7

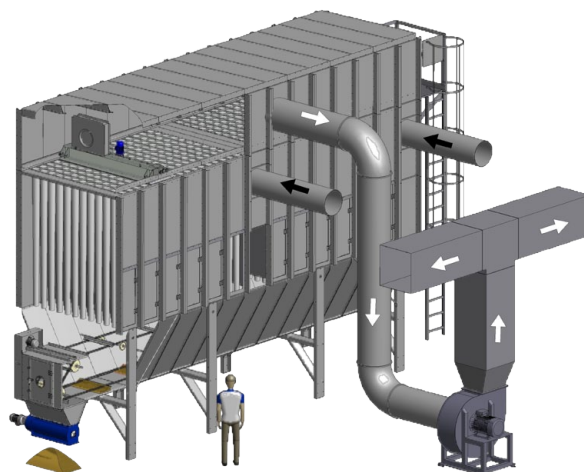
## DUST EXTRACTION SYSTEMS

### Reliable modular dust collectors for efficient filtration

Having manufactured dust extraction systems since 1921, we have built up a large know-how regarding dust collector technology. Since then, we have supplied and supported a large number of modular dust collection filters worldwide. Among others, we offer:

- ▶ Modular Filters for specific customer needs
- ▶ Full-scale explosion-tested dust collectors
- ▶ ATEX filters, fans and airlocks
- ▶ Most energy efficient system
- ▶ Engineering services to ensure the right solution
- ▶ Energy efficient Fans
- ▶ Material separators and transport solutions
- ▶ Energy Manager Control System
- ▶ Future-Proof design for easy extension

Our filter systems are sold through agents and distributors all over the world but manufactured and shipped from our production facilities in Denmark. This ensures the same high quality at all times.





# THE RIGHT DUST EXTRACTION SYSTEM

## Most Energy Efficient System

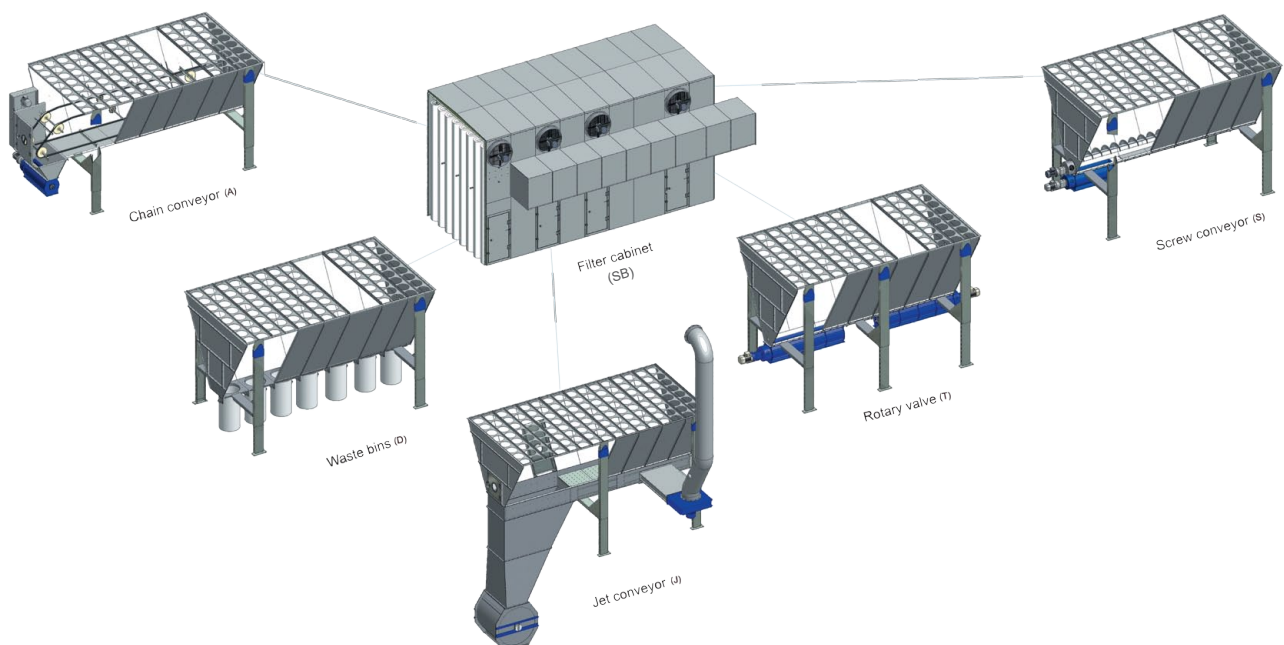
A Moldow Dust Collector in combination with our Energy Manager Control System and highly efficient fans guarantees an energy optimized, reliable and durable dust collection system that can ensure energy savings of up to 70% compared to other extraction and filtration systems.

## Easy Expansion If Air Demand Increase

All Moldow filters are modular in design which makes it possible to easily and economically customize each filter to the specific company's requirements and facilities. It also future proofs the filter, as it can readily be extended if demands in air volume increase by adding more filter modules to the existing filter.

## Modular and Customized Construction

Thanks to the modular system it is possible to customise the filter to each company's requirements and facilities, assemble and install it anywhere in the world. The SB, MHL and MX filters consist of a filter cabinet, which is the basic unit, that can be combined with a number of hoppers. Each hopper has its advantages and purpose giving each customer the very best solution. Available hoppers are: chain conveyor, waste bins, jet conveyor, rotary valves and screw conveyor.





## Material Transport

- Energy efficient chain conveyor
- Traditional pneumatic system

## Regeneration System

- Energy efficient cleaning
- Long service life
- High reliability

## Filter Cabinet

- Modular construction
- Easy expansion
- Thoroughly tested design

## Dampers

- Pneumatic
- Summer/winter
- Fire

## Energy Control System

- Airflow "on demand"
- Minimal use of power

## Rotary Valves

- Material discharge & Safety component
- ATEX & non-ATEX

## Filter Hopper

- Flexible design
- Chain, Screw or Jet conveyor, Rotary Valve(s), or Waste bags

## Energy Efficient Fans

- Highest efficiency
- Custom-made impellers

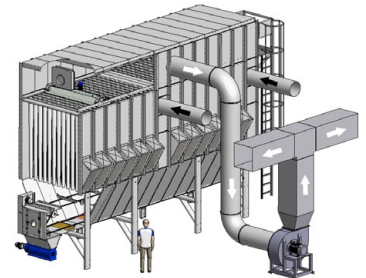
## Frequency Control

- Energy Savings

# MHL FILTER

The MHL filter, "Moldow High Load", is a modular baghouse filter designed for air volumes between approx. 20,000 and 250,000 m<sup>3</sup>/h (11,000 and 150,000 CFM) and continuous operation, 24 hours a day, 7 days a week. It is the most popular Moldow filter system due to the high capacity and easy expansion and adaptation.

It can be used in both positive and negative pressure systems, delivered with either chain conveyor, screw conveyor or jet conveyor depending on the material type and loading, and withstand a differential pressure of -5,000 Pa (20 in wg). Further, the bags are cleaned continuously by use of a regeneration carriage with a high-pressure fan that sends air from the clean-air chamber back through the filter bags. This is a very efficient way of cleaning the bags, and therefore a filter load of up to 180 m<sup>3</sup> air per m<sup>2</sup> filter area per hour (9.8 CFM per sq ft of filter area) can be reached.



# MXN FILTER

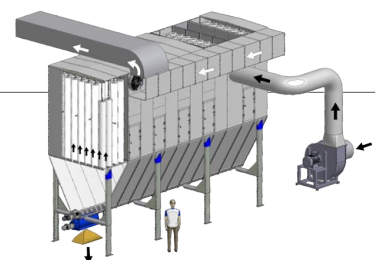
The MXN filter is a reliable, modular bag filter for continuous operation, intended for both positive and negative pressure systems and designed with either chain or jet conveyor. It is used within the fiber industry for production facilities handling e.g. mineral wool, spun glass, cellulose fibers and non-woven fabrics, and within the wood-working, paper, printing and cardboard industries where large amounts of waste material are produced.

It has been designed especially for extraction of large air volumes from 35,000 to 265,000 m<sup>3</sup>/h (20,000 to 155,000 CFM) and heavy dust loadings.

# SB FILTER

The SB filter is an efficient filter suited for positive operation and air volumes from 5,000 to 175,000 m<sup>3</sup>/h (3,000 to 100,000 CFM) depending on the filter construction and waste type material. It is a modular bag filter for outdoor installation either on roofs, above waste containers or at ground level outside the building.

The continuous cleaning of the filter bags combined with the efficient waste management ensures high reliability at all times. The SB is designed with either chain conveyor, rotary valve(s), screw conveyor, or waste bins placed under the filter to collect the waste material. For use within the paper and cardboard industry, the filter can also be designed with jet conveyor.



# ATEX DUST COLLECTORS

At Moldow we work hard to ensure that our filters and all other products live up to the most recent and current legislation and regulations, and by manufacturing our own certified products we are able to always be at the forefront of current legislation. So not only are Moldow's filters as **energy efficient as possible**, they also meet the **highest requirements in safety**.



Moldow's MHL and SB filters are designed to handle explosive atmospheres (ATEX). This means that the systems provide increased protection against explosions by eliminating spark creation. In the unlikely event that dust should be ignited, the filter's explosion venting components ensure that pressure will be relieved in a safe way leaving the dust collector structurally intact and without causing the creation of projectiles which can harm personnel and property.

Further, systems including rotary valve can be equipped with integrated pressure sensor to perform interlock based shutdown of the complete extraction system in the case of pressure increase due to a deflagration within the filter.

To ensure the high efficiency of the whole system, Moldow also offers a full range of fans that are likewise designed for ATEX.



## PROJECT STAGES

Moldow assists you in every stage of the project:

**Initial request** • Moldow assesses your needs and facilities to determine which dust extraction solution will be the best based on your requirements and priorities.

**Quotation** • You receive a detailed quotation from Moldow specifying the filter type, air quantities, price, delivery time etc. to give you a complete overview of the cost and time schedule of your project.

**Production** • After having received the order confirmation from you, we begin manufacturing the filter and equipment at our production facilities in Denmark which ensure the same high quality at all times.

**Delivery & Installation** • The system is shipped to your location, where it is assembled and installed under supervision of an experienced supervisor to ensure correct and trouble-free installation.

**Commissioning & Training** • The experienced supervisor takes care of the commissioning of the system and training of the staff that will be operating the system daily. The system is also supplied with detailed instruction manuals for future reference and guidance.

**Maintenance & Service** • Periodic maintenance and inspection of your system is a necessity to ensure reliable and efficient operation. We can assist you in this, and our service department is available 24/7/365.

