



Filter and Silo Systems



Filter systems



Modular constructed filter systems type AKF-WDHK and AMX are intended for large volumes of air and chips. The filters are very reliable and flexible by rebuilding and extension, at the same time they are cleaned automatically during operation and can run in 24 hours operation all the year round under all operating conditions. The photo to the left shows the system on Moulding & Millwork's factory in Calgary, Canada with an air volume of 150,000 m³/h.

Filter system for furniture factory in Poland with patented explosion panels.

Placed in the hopper on the dust side of the filter.

The photo to the right is from Swedwood's factory in Wielbark, Poland.

Total air volume of the whole system is 800,000 m³/h.



Machining



Rough wood



Sawing



Moulding



Laminated wood

Handling



Stacking



Assembly



Fitting



Packing

Application



Windows



Doors



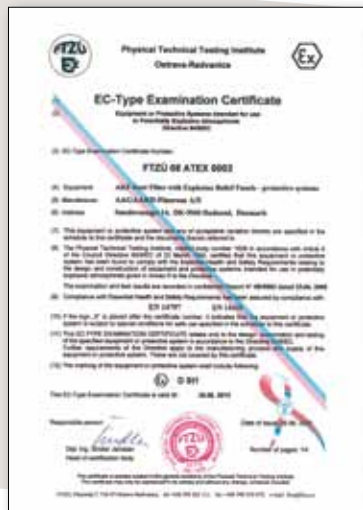
Furniture

FILTER SYSTEMS

Chain filter
type AKF-WDHK
for factory
manufacturing
kitchen doors,
the air volume
is of 60,000 m³/h
and is returned
100% to the factory.



Photo showing the bottom section
in the chain filter with double
chain conveyor for safe outfeeding
of chips into the filter.



Filter type AKF WDXK installed
on VELFAC's window factory in Poland –
air volume 180,000 m³/h.



Sawing



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Windows



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Furniture

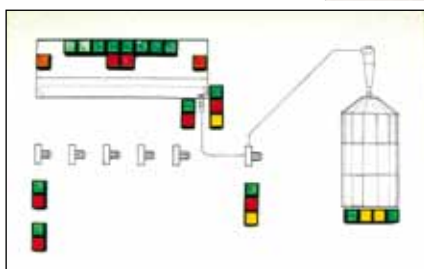
Filter systems



Filter system type AKF-WDXK for furniture factory in Kleipeda in Lithuania and laminated wood factory at Swedwood in Tikhvin Russia respectively.



Filter system supplied for wood factory and furniture factory in Poland and the Ukraine.



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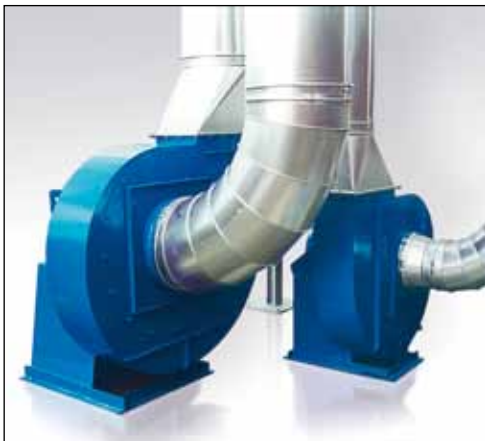


Furniture

FANS



Danish furniture producer of pinewood furniture with filter type AKF-WDHK for 120,000 m³/h.



Aagaard A/S produces high-efficient reliable fans in both belt driven and direct driven design with high efficiency and low energy consumption for air transportation of all types of dust and chips.



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Furniture

Filter systems

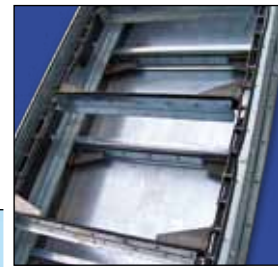


Filter AKF-WDAK with ATEX explosion panels for 250,000 m³/h installed in Belarus.



Filter system type AKF-DHLK with cross heat exchanger for the return air to the factory and with chip conveyor for transportation of chips to container. Supplied to Danish furniture joinery.

Chip conveyor type AKR 900 with double chain.



Pneumatic transportation from the whole factory assembled in one place. Because of large chip volumes the chips are separated first in cyclones and transported further to silos by conveyors. Air from cyclones is cleaned in a filter system. The system is supplied to Swedwood Wielbark.



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FILTER SYSTEMS

System for Danish window factory with an air volume of 40,000 m³/h. Automatic cleaning of filter bags with reverse air cleaning by regeneration fans positioned outside on the filter.



Filter type ARF with chain conveyor to container.
Fully automatic operation.
100% heat recovery.
Minimum maintenance.
Not harmful to the environment.



Norwegian planing factory has chosen chain filter type AKF-DHLK placed on the roof with noise-dampened fan.



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Furniture

Filter systems



Small rotary valve filter on container stand, with a medium pressure fan and a high pressure fan in silencer box.

Standard bag filter with plastic bags.



Rotary valve filter on standard container stand.

Rotary valve filter with extended legs for position over container.



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FILTER SYSTEMS



Newly developed filter type APF-XL Volume supplied to a Swedish kitchen manufacturer, capacity 45,000 m³/h.



Rotary valve filter on standard container stand for existing containers.



Customized bag filter.



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Furniture

Silo systems



Silo systems for storage of chips and dust for either briquetting, refuse burning installations or for pick-up, we have the solutions and an approved silo programme for all demands. Modular silos in sizes from 10-500 m³ in diameter 2-7 metres with pitched roof for cyclone or flat roof for filter system.



Silo system is with emptying to truck via conveyor or with worm screw conveyor to furnace system. To the left a complete system for feeding of chips from silo to briquetting presses.

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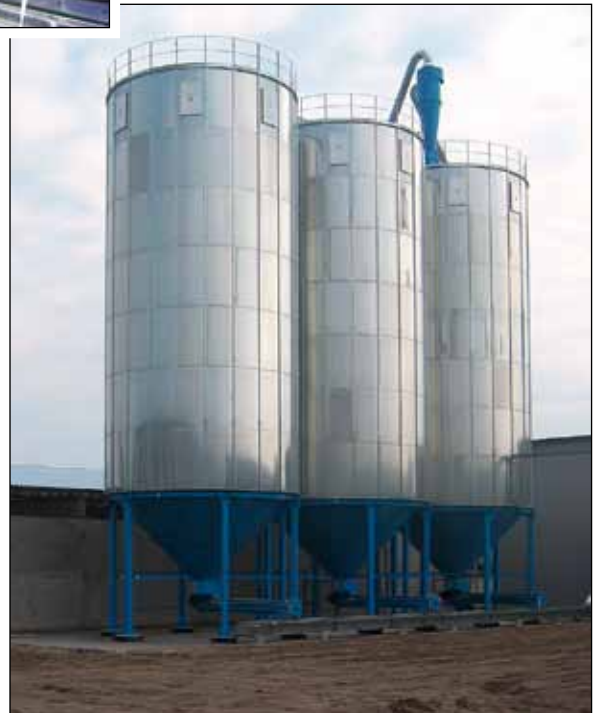


Furniture

SILO SYSTEMS



Modular silos
supplied to different
factories with outfeeding
to truck, briquetting
presses or combustion
systems.



The complete programme from Aagaard of modular
constructed chip conveyors with low energy consumption.
Transportation of chips without dust and noise
is a reliable solution to transport of all types of chips.



Sawing



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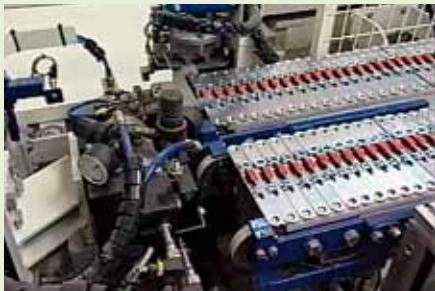
Furniture

OBEL-P GROUP

OBEL-P Automation A/S

Obel-P Automation A/S
Cypresvej 16
DK-7400 Herning - Denmark

tel.: + 45 97 21 78 00
fax: + 45 97 21 78 01
salg@obelp-automation.dk
www.obelp-automation.dk



OBEL-P GROUP

Brødbæk & Co. A/S

Brødbæk & Co. A/S
Mølgaardvej 1
DK-7173 Vonge - Denmark

tel.: + 45 75 80 35 99
fax: + 45 75 80 35 81
sales@brodbaek.dk
www.brodbaek.dk



OBEL-P GROUP

Aagaard A/S

Aagaard A/S
Smedevænget 14
DK-9560 Hadsund - Denmark

tel.: + 45 96 53 12 00
fax: + 45 98 57 42 15
mail@aagaard-systems.dk
www.aagaard-systems.dk



OBEL-P GROUP

PL Control ApS

PL Control ApS
Sverigesvej 4
DK-9560 Hadsund - Denmark

tel.: + 45 98 57 20 28
fax: + 45 98 57 50 28
mail@plcontrol.dk
www.plcontrol.dk



AAGAARD A/S
Smedevænget 14
DK-9560 Hadsund DENMARK

phone +45 96 531 200
fax +45 98 574 215
e-mail: mail@aagaard-systems.dk
www: aagaard-systems.dk

Obel-P Group is a Danish group with companies in Denmark and head office in Brøndby near Copenhagen developing, producing and marketing high technology solutions to the global wood working industry.

The close cooperation between the four companies in Obel-P Group: Obel-P Automation, Brødbæk & Co., Aagaard A/S and PL Control each with expertise within services and products for wood working industry means a positive synergy when developing new solutions.

