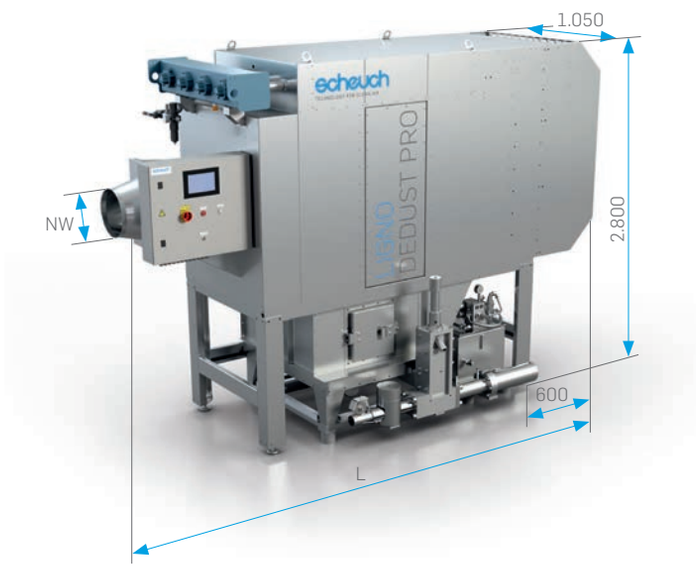
scheuch
LIGNO

LIGNO
DEDUST PRO

UNIVERSAL AND ENERGY SAVING

WORK WITHOUT DUST

THE RIGHT SOLUTION FOR EVERY APPLICATION

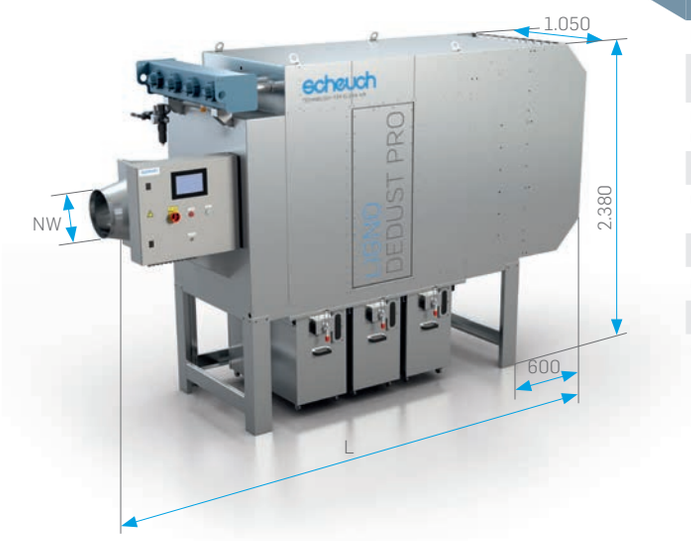


DEDUST PRO WITH PRESS

TYPE NW	250	280	315		355		
Motor power [kW]	5,5	7,5	9,2	11,0	11,0	15,0	18,5
Nominal volumetric flow at 20 m/s [m³/h]	3.600	4.580	5.740		7.230		
Negative pressure at nominal volumetric flow [Pa][2]	2.000	2.350	2.400	2.900	2.400	3.000	3.600
Maximum volumetric flow[3]	4.500	5.500	7.000	7.500	9.000	9.500	10.200
Online pulse cleaning (= long operating periods)	s	s	s		s		
Max. acoustic pressure[1]	≤ 70	≤ 70	≤ 70		≤ 70		
Press A (5.5 kW) – output range [kg/h]	25-50 kg	25-50 kg	25-50 kg		25-50 kg		
Press B (7.5 kW) – output range [kg/h]	50-80 kg	50-80 kg	50-80 kg		50-80 kg		
Dimensions L [mm]	3.085	3.085	3.085		3.665		
Weight [kg][4]	1.605	1.610	1.625	1.640	1.725	1.745	1.760

DEDUST PRO WITH CONTAINER

TYPE NW	250	280	315		355		
Motor power [kW]	5,5	7,5	9,2	11,0	11,0	15,0	18,5
Nominal volumetric flow at 20 m/s [m³/h]	3.600	4.580	5.740		7.230		
Negative pressure at nominal volumetric flow [Pa][2]	2.000	2.350	2.400	2.900	2.400	3.000	3.600
Maximum volumetric flow[3]	4.500	5.500	7.000	7.500	9.000	9.500	10.200
Online pulse cleaning (= suitable for long operating periods)	s	s	s		s		
Max. acoustic pressure [dB(A)][1]	≤ 70	≤ 70	≤ 70		≤ 70		
Container volumes [l]	800	800	800		800		
Dimensions [l/mm]	3.085	3.085	3.085		3.665		
Weight [kg][4]	1.380	1.385	1.400	1.415	1.475	1.490	1.510



DEDUST PRO WITH STORAGE BINS

TYPE NW	160	224	250	280	315		355		
Motor power [kW]	2,2	4,0	5,5	7,5	9,2	11,0	11,0	15,0	18,5
Nominal volumetric flow at 20 m/s [m³/h]	1.460	2.880	3.600	4.580	5.740		7.230		
Negative pressure at nominal volumetric flow [Pa][2]	2.300	2.200	2.000	2.350	2.400	2.900	2.400	3.000	3.600
Maximum volumetric flow[3]	2.000	3.500	4.500	5.500	7.000	7.500	9.000	9.500	10.200
Online pulse cleaning (= long operating periods)	s	s	s	s	s		s		
Max. acoustic pressure[1]	≤ 70	≤ 70	≤ 70	≤ 70	≤ 70		≤ 70		
Container volumes [l]	1x165	1x165	2x165	2x165	2x165		3x165		
Dimensions [l/mm]	1.705	1.705	3.085	3.085	3.085		3.665		
Weight [kg][4]	705	710	1.130	1.150	1.150	1.165	1.285	1.300	1.315

DEDUST PRO WITH TROUGH

TYPE NW	250	280	315		355		
Motor power [kW]	5,5	7,5	9,2	11,0	11,0	15,0	18,5
Nominal volumetric flow at 20 m/s [m³/h]	3.600	4.580	5.740		7.230		
Negative pressure at nominal volumetric flow [Pa][2]	2.000	2.350	2.400	2.900	2.400	3.000	3.600
Maximum volumetric flow[3]	4.500	5.500	7.000	7.500	9.000	9.500	10.200
Online pulse cleaning (= suitable for long operating periods)	s	s	s		s		
Max. acoustic pressure [dB(A)][1]	≤ 70	≤ 70	≤ 70		≤ 70		
Screw Ø250 with rotary valve – drive 1.5 kW	s	s	s		s		
Standard discharge rate (optional) [m³/h]	4,8 (6,0)	4,8 (6,0)	4,8 (6,0)		4,8 (6,0)		
Dimensions [l/mm]	3.085	3.085	3.085		3.665		
Weight [kg][4]	1.190	1.195	1.210	1.220	1.310	1.325	1.345

[1] Noise value according to machine guidelines in the free field with a distance of 1.0 m at a height of 1.6 m. Measurement in accordance with ISO 11201, measured at nominal volumetric flow without material transport. Measurement uncertainty K = +/- 4 dB.
[2] In a non-dusty state
[3] Dependent on the necessary negative pressure or material quantity/composition
[4] Total (upper and lower section)
s Fitted as standard

EXTINGUISHING FIRES THROUGH DEOXYGENATION

LESS EXPENSE
INCREASED SAFETY

ADVANTAGES AT A GLANCE:

- No recurring maintenance and testing costs for extinguishing agents
- No danger of erroneous operation: switching off in the case of fire is sufficient
- Safer at a standstill, since all the device's openings are sealed
- In the event of a fire, the device can be supplied with extinguishing agent from outside
- Device can be opened without any danger of fire or explosion

The future of fire extinguishing rests on the principle of oxygen removal. The trend-setting technology from Scheuch LIGNO dispenses with the use of customary fire extinguishing equipment and opens the door to an extremely high savings potential.

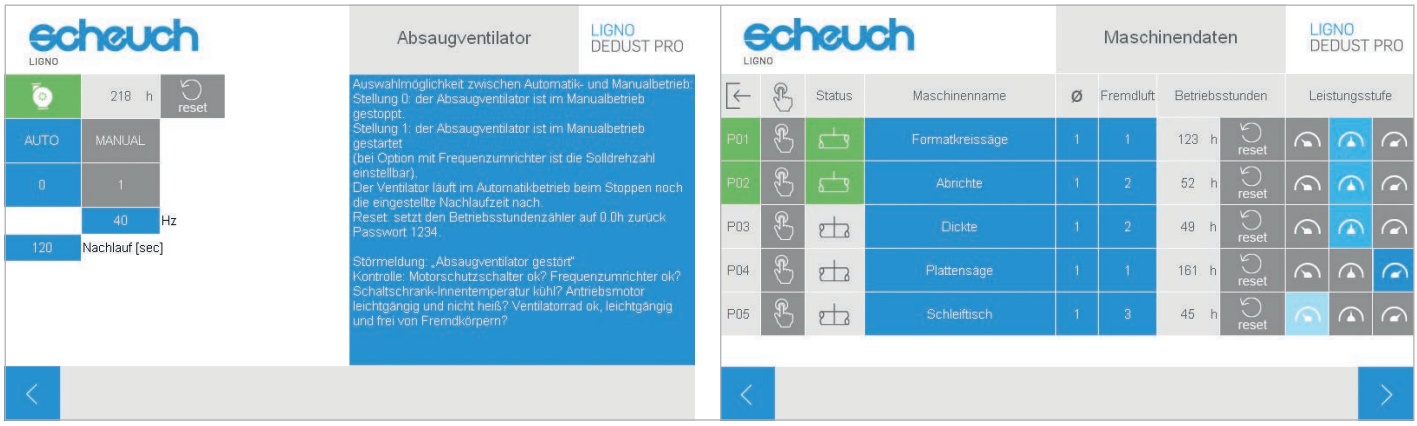
The innovative fire protection system for the ligno DeDust[pro] deduster marks the beginning of a new chapter in fire protection for Scheuch LIGNO. In use for the first time, this state-of-the-art technology is producing results that are effective, safe and long-lasting. The technology's key feature, however, is its value for money, as users save the ongoing maintenance and testing costs associated with extinguishing equipment by extinguishing fires through deoxygenation.

HOW IT WORKS

The extinguishing principle is based on the removal of oxygen which is necessary for the combustion reaction. Closures classified according to EW120 in terms of fire protection are installed for this purpose in the suction device at all inlets and outlets. These close automatically when the device is at a standstill or when the emergency-stop function is activated by means of gravitational force or a spring-return actuator, and extinguish the fire through deoxygenation. Combustion is brought to an end within an extremely short space of time at a oxygen concentration of 14 per cent due to the small volume of the device.

In the event of a fire, the device can be supplied with extinguishing agent from outside due to the additional installation of a dry sprinkler line. This binds the dust in the device, covers it in water in the collection container and soaks it through. The device can be opened without any danger of fire or explosion and the dust collection container can be removed and emptied. H3 and GS certification marks are both proof of this application's operational safety – this applies to all devices from type NW 250.

STATE-OF-THE-ART CONTROL FOR THE DEDUST PRO



Simple and straightforward operation using a 7" colour touch panel. A reliable, state-of-the-art PLC control is supplied as standard with all ligno DeDust[pro] dedusters from type NW 250.

LIGNO DEDUST PRO

HIGH PERFORMANCE, EFFICIENT & RELIABLE

1 Crude gas inlet
The structural design of the crude gas inlet is the result of flow simulation. The supplied air distribution system and the tried-and-tested Scheuch non-return flap promotes efficient separation.

2 Cleaning
Internal diaphragm valves increase cleaning efficiency as well as achieving a simultaneous reduction in noise levels.

3 Filter cartridges
Exceptional performance is achieved via the specially developed filter cartridge. A dust residue of < 0.1 mg/Nm³ is standard across all devices.

4 Storage
The standard storage bins are safe and easy to use. In addition, a whole host of other options are available, such as briquetters, containers and other solutions such as compressed-air-conveying containers and silos.

5 Fan
An industry leading radial clean air fan has been designed to maximum efficiency in terms of maximum extraction output.

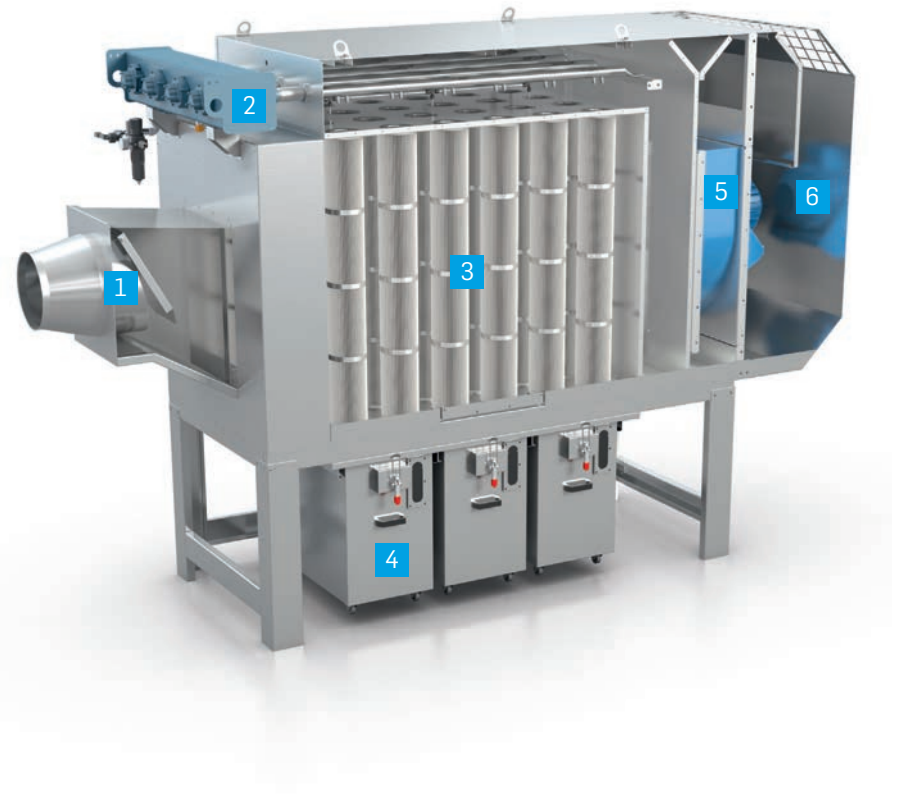
6 Silencer
A waste air silencer has been integrated as standard which positions the ligno DeDust^pro amongst the ranks of the quietest dedusters on the market.

LOW OPERATING COSTS – LONG SERVICE LIVES

In addition to efficient cleaning, the pressure loss of the filter system itself and the filter cartridge is crucial to the running costs. With the development of the series, the filter casing has been flow-optimised using CFD simulations.

The Scheuch LIGNO 01 filter cartridge guarantees a very low filter resistance for a long lifetime as a result of the surface-oriented filtration behaviour of the dust penetration. This therefore maintains the air permeability.

The baffle plates in the crude gas inlet ensure preseparation of the volume primarily made up of chippings and dust residue and generate a cross-flow through the dust collection container. The swirling up of previously separated chippings and dust is thereby prevented. The TOP-DOWN effect supports the downward movement of the cleaned dust particles.



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