

Your air. We care.

# Dust Separator with Screw Compactor



Fully automatic final filtering stage  
for dust and fibres with discharge and  
compacting of waste

**Luwa**

A Division of the Zellweger Luwa Group



The waste arriving from the dust separator can be collected in a waste bag. By means of the attached screw compactor, the waste is compacted and can be collected in a container or conveyed to a waste press.

**Dust Separator –  
space-saving central final filtering stage for all  
types of waste coming from air filtering plants**

The separation of the dust is made according to the cyclone principle with downstream fine filtration of the conveying air. The thoroughly filtered air can be blown into the room or led back into a pre-filter. The filter cartridges charged with dust are automatically blown off by the impact of a compressed air blast at timed intervals.

**Advantages of dust separator**

- Automatic filter cleaning
- High filtering efficiency
- Low space requirement, room height <3 m
- Free-standing
- Low consumption of compressed air, since duration and intervals of the air blasts are adjustable

**Technical data of Dust Separator**

Air flow rate (m <sup>3</sup> /h)	< 1800
Waste throughput (kg/h)	max. 15
Waste	dust and fibres
Dust concentr. in exhaust air (mg/m <sup>3</sup> )	< 0.2
Compressed air consumption (Nm <sup>3</sup> /h)	1.6–6.0
Air pressure, oil-free (bar)	4.5–6.0
Filtering surface (m <sup>2</sup> )	18.7

**Screw Compactor –  
economical compacting of dust  
and fibres**

The Screw Compactor can be applied downstream of any dust- and fibre-separating group, thus conveying the waste automatically to a disposal station, in a continuous and space-saving way. Arriving waste is seized by the worm shaft of the Screw Compactor and pushed through a tube. The compacting is controlled by a pneumatic cylinder which restricts the tube exit by clamping jaws.

**Advantages of screw compactor**

- Automatic discharge of waste
- Smaller waste volume
- No dust emission, because the dust is contained in the waste
- No necessity to replace bags
- Conveyance in ascending slope up to 30° is possible

**Technical data of Screw Compactor**

<b>Type SC 200</b>	Waste throughput (kg/h)	max. 25
	Compacting factor	2–3
	Rated output of motor (kW)	1.1
<b>Type SC 320</b>	Waste throughput (kg/h)	max. 40
	Compacting factor	2–3
	Rated output of motor (kW)	1.5

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