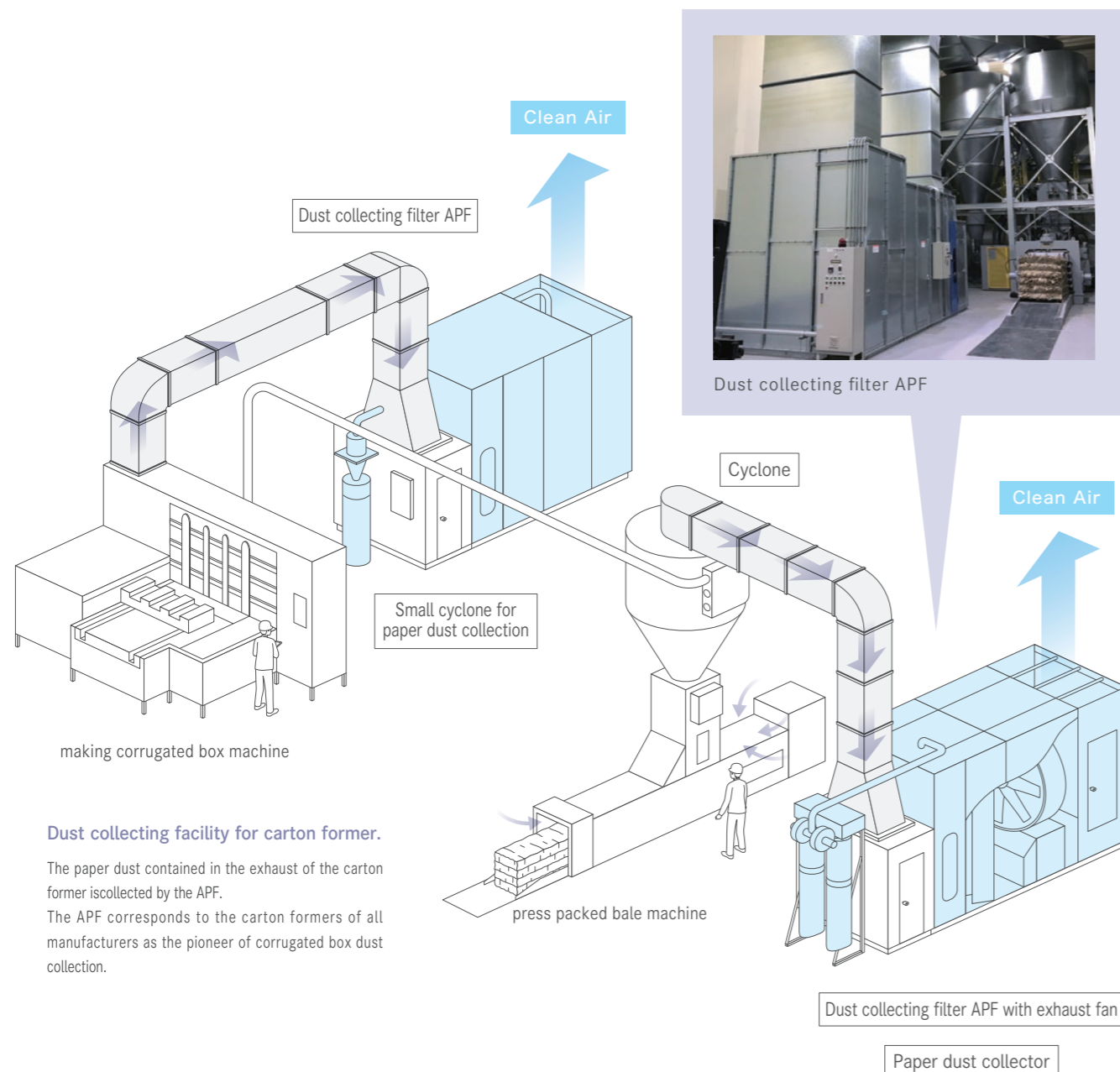


DUST CONTROL

Paper dust countermeasure corrugated box factory

In the process of manufacturing corrugated box, a large volume of corrugated paper dust is generated, especially at the periphery of the Carton Former, which cuts the grooves for folding and making boxes. Puretec proposes its automatic panel filter APF as a dust collecting facility for the carton box. We also propose the introduction of a cyclone exhaust and dust collecting system to prevent the scattering of paper dust around the wastepaper recycle system.



Dust collecting facility for carton former.

The paper dust contained in the exhaust of the carton former is collected by the APF. The APF corresponds to the carton formers of all manufacturers as the pioneer of corrugated box dust collection.

dust collecting system for Cyclone exhaust(wastepaper chamber)

Uses an exhaust fan for the conventional dust filter (APF) to control the internal pressure of the cyclone (negative pressure state). This prevents the paper dust from scattering from the cyclone or press packed bale machine.

FEATURES

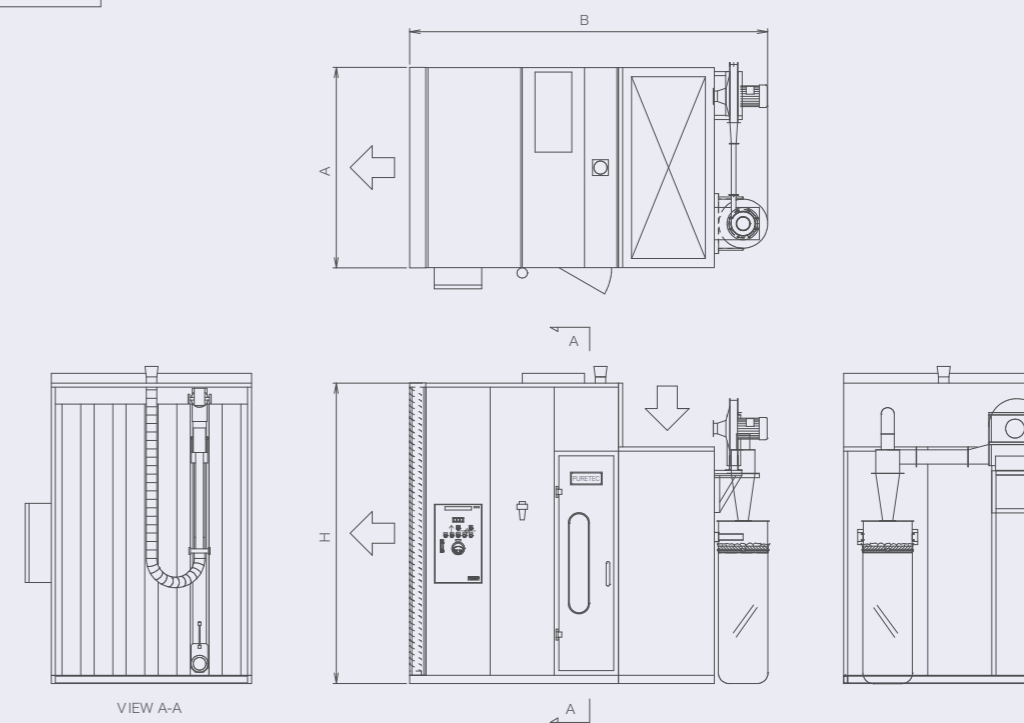
The APF (Automatic Panel Filter) is a space-saving dust collector consisting of multiple filter cells arranged in parallel. You can select and install filter media on the surface according to your needs. The dust accumulated on the filter surface is sucked and transported to the dust collector by the dust-removing robot that operates intermittently.

- It is space saving and can process large amounts of air.
- A lineup of units are available for any Carton Former.
- We will provide engineering works that include ancillary work, such as ductwork.



Paper dust collector

Specifications



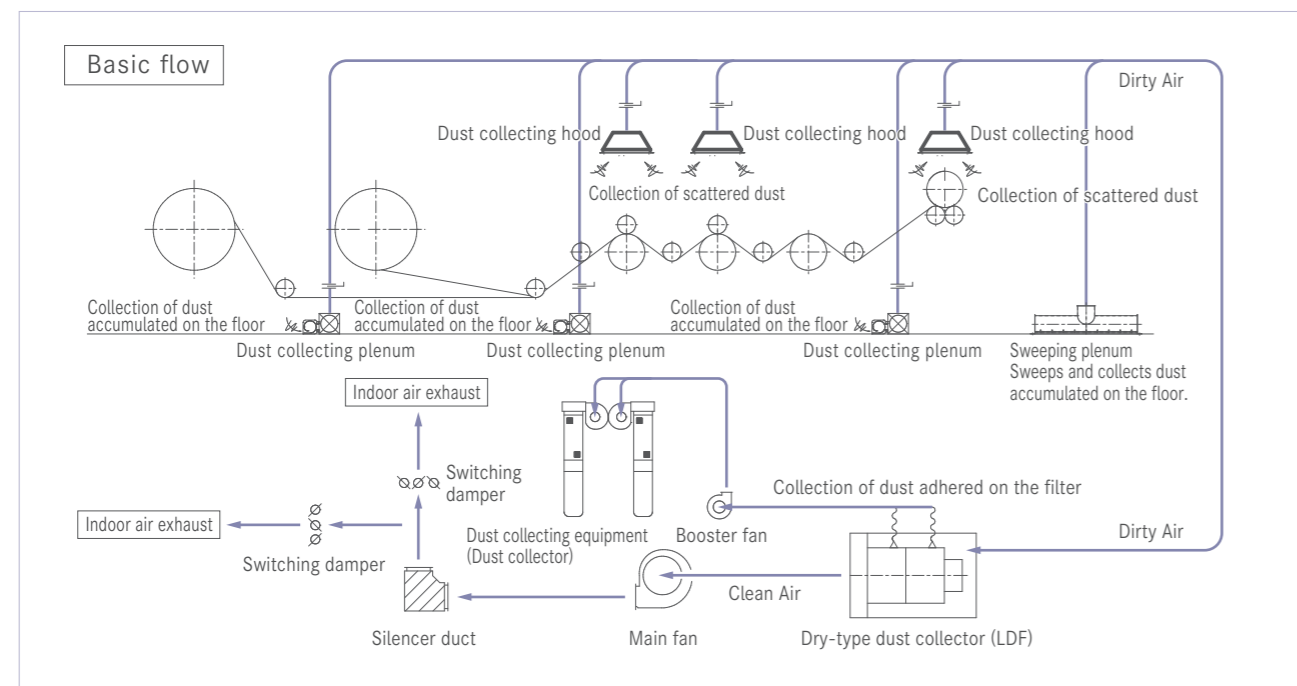
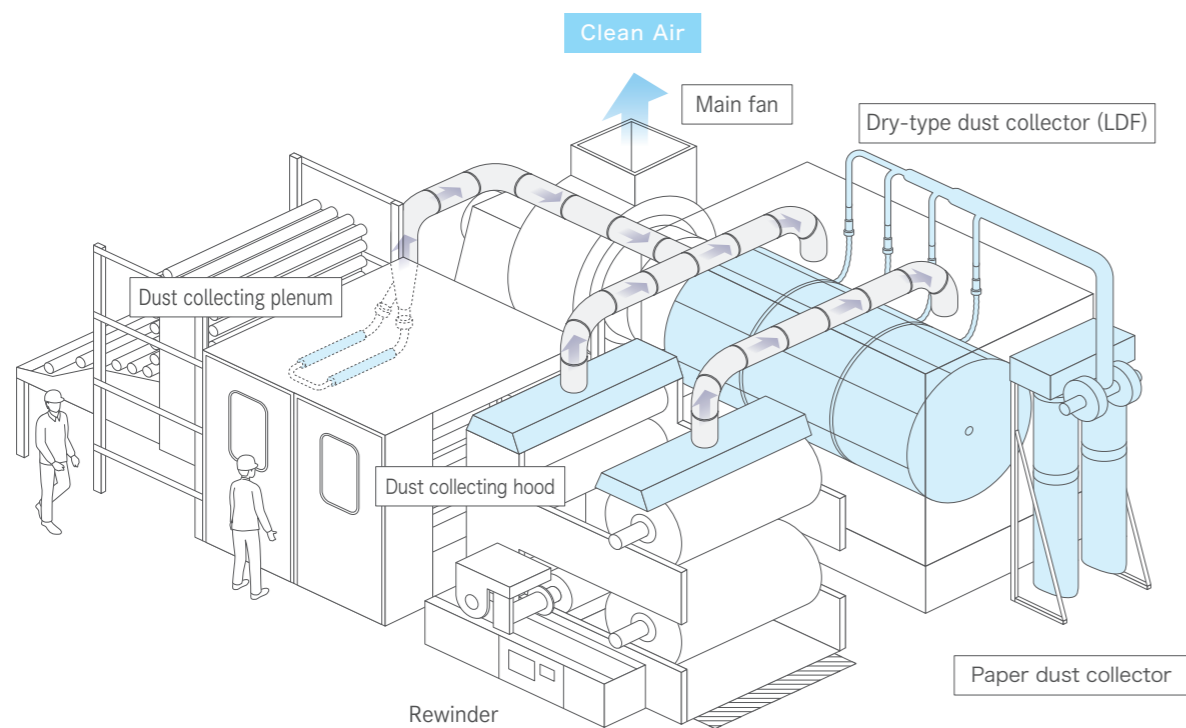
Dust collector (APF) model for carton former		1216S	1520S	1824S	2128S	2432S	2736S
Filter area	m ³	13.6	17.0	20.4	23.8	27.2	30.6
Number of filters used	pieces	16	20	24	28	32	36
Maximum processing air volume	m ³ /min	600	760	900	1100	1220	1380
Motor output	kW	4.1					
Dimension A	mm	1296	1600	1904	2208	2512	2816
Dimension B	mm	3397					
Dimension H	mm	2851					

DUST CONTROL

Paper dust countermeasure

Toilet paper factory

Household paper products such as toilet paper and tissues are manufactured using various processes. In particular, the winders that wind paper into rolls and the rewinders produce very large amounts of paper dust. Countermeasures against paper dust are essential not only for maintaining product quality but also for protecting the workers from paper dust. Puretec proposes the LDF dry-type dust collector developed in-house by our company. We also recommend the Circle Air ceiling-rotating blow cleaner that blows air toward the place where dust accumulates easily.



FEATURES

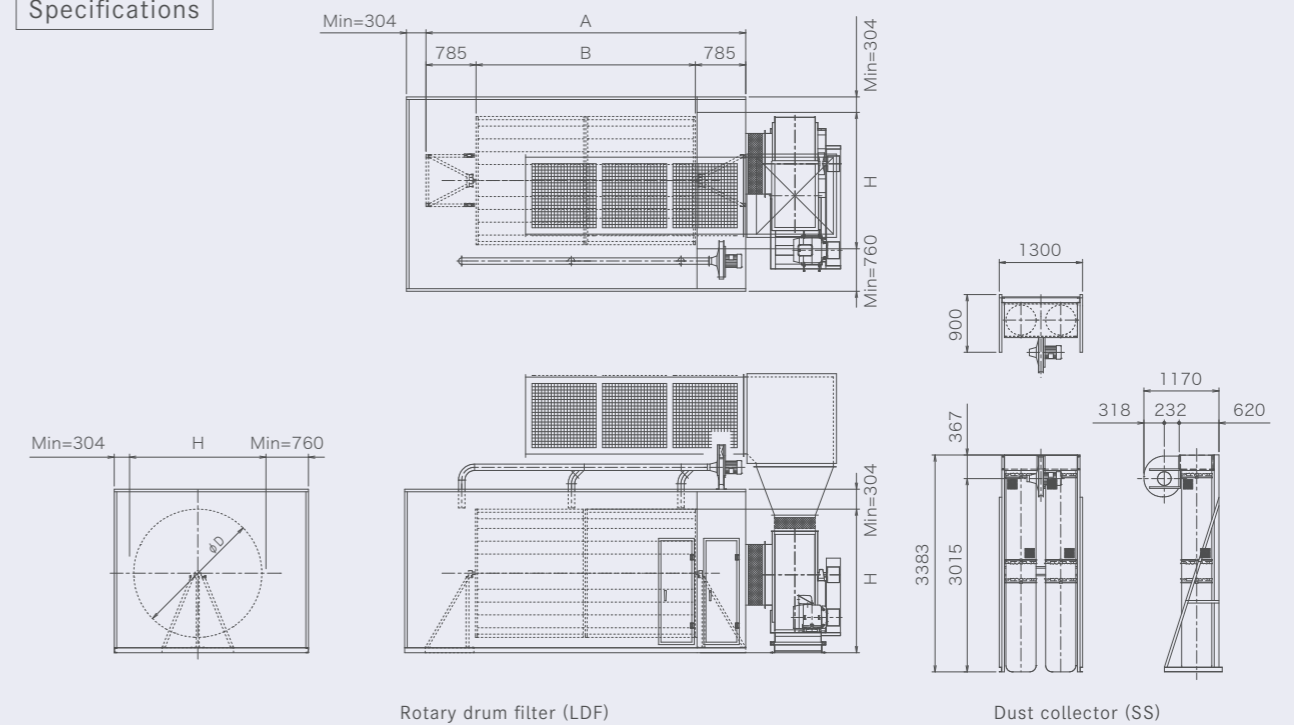
The LDF (rotary air filter) is a dry-type dust collector. It collects dust with the outer surface of the rotating cylindrical filter and uses the cleaner nozzles that are constantly traveling in the traverse direction to suck dust. The sucked dust is collected in the dust collector. Since the collected dust is placed in a polyethylene bag, it can be easily disposed of.

- The rotary air filter constantly cleans the filter surface using the high-pressure cleaning nozzles. Since this prevents the processing air volume from decreasing, the dust collecting efficiency stays stable. Dust and other particles sucked by the cleaner nozzles are transported by air to the dust collector.
- We develop dust collecting systems suitable for production machines such as paper machines, winders, slitters and other processing equipment. We design facilities and install equipment in consideration of total system balance. Puretec can perform in-house all designing and manufacturing activities for hoods and plenums for local dust collection.



Paper dust suction hood collector

Specifications



Rotary drum filter (LDF) model		15/17	15/34	15/51	20/17	20/34	20/51	25/17	25/34	25/51	
Filter area	m ³	6.9	13.8	20.7	9.2	18.4	27.6	11.5	23	34.5	
Number of filters used	pieces	3	6	9	4	8	12	5	10	15	
Maximum processing air volume	m ³ /min	300	600	900	450	850	1,200	550	1,050	1,500	
Weight	Kg	500	650	800	610	770	930	740	920	1,100	
Motor output	kW	0.4									
Number of required dust collector units	units	1	1	2	1	1	2	2	2	3	
Dust collector motor capacity	kW	1.5	1.5	3.0	1.5	1.5	3.0	3.0	3.0	4.5	
Dimension D	mm	1,500	1,500	1,500	2,000	2,000	2,000	2,500	2,500	2,500	
Dimension A	mm	3,280	4,990	6,700	3,280	4,990	6,700	3,280	4,990	6,700	
Dimension B	mm	1,710	3,420	5,130	1,710	3,420	5,130	1,710	3,420	5,130	
Dimension H	mm	1,899	1,899	1,899	2,280	2,280	2,280	2,888	2,888	2,888	

*Other sizes are also available. We can design a system according to the size specified by the customer.

EXHAUST FILTERING

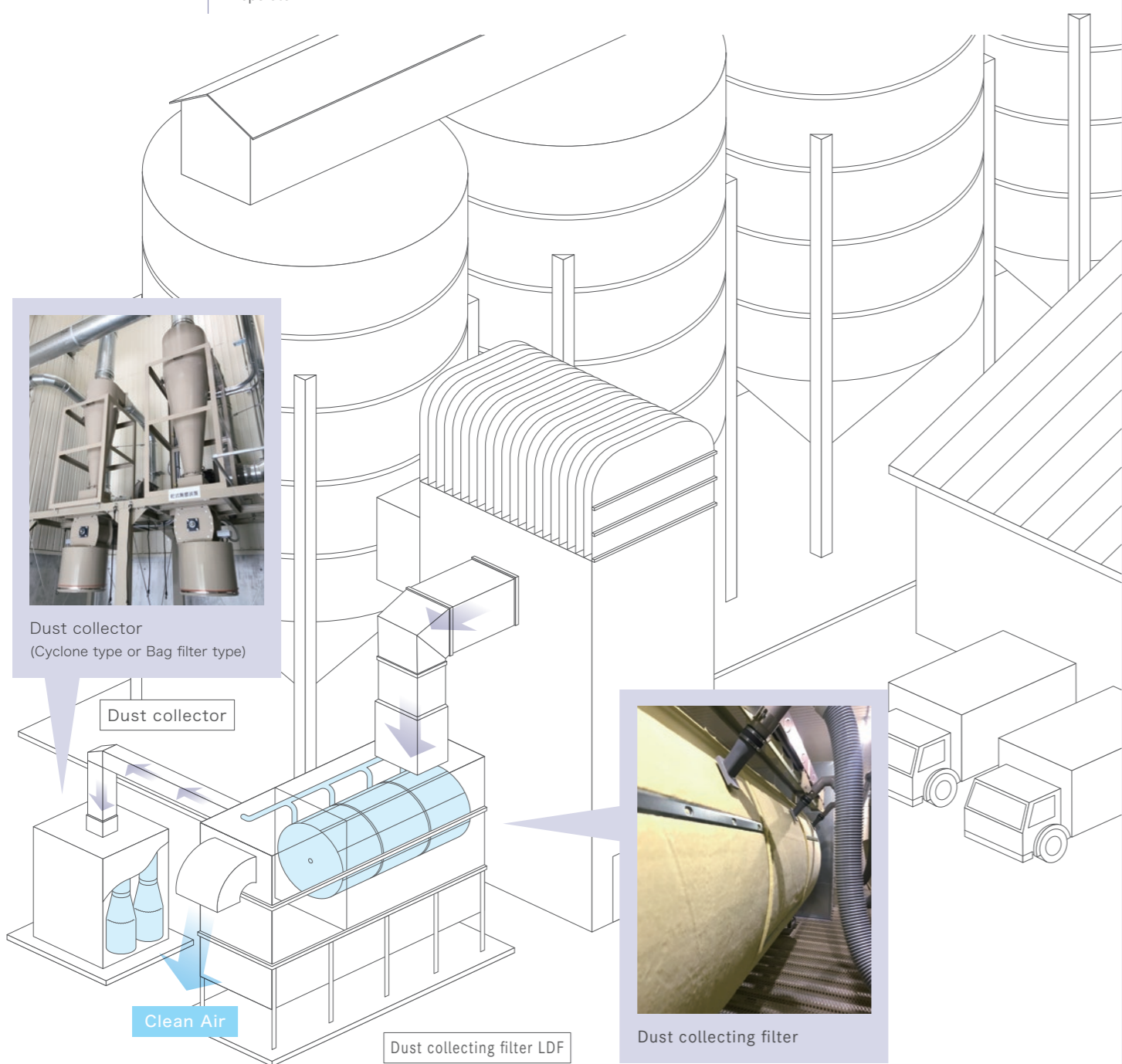
Foreign substances (powdered crust, straw trash, etc.)

countermeasure
Rice husks and cereals

It is necessary to take care of the surrounding area when treating dust and other foreign substances significantly generated in a large facility, such as a country elevator, a rice center, or seed center.

Puretec proposes a dry dust collector LDF as a countermeasure.

This does not require treatment of wastewater because no water is used, and there is no worry about bad odor. The device is energy saving and has a long service life, which also contributes to reducing the workload of the operator.



FEATURES

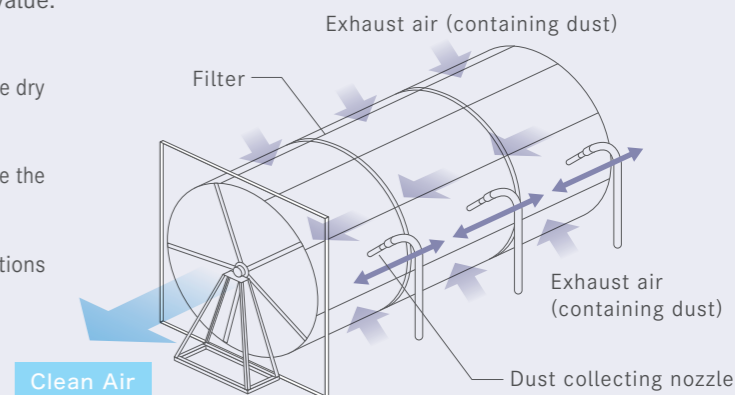
The LDF processes the dust-contained exhaust in the rotary filter mode.

The simple structure is driven by a single motor and can process a large volume of air.

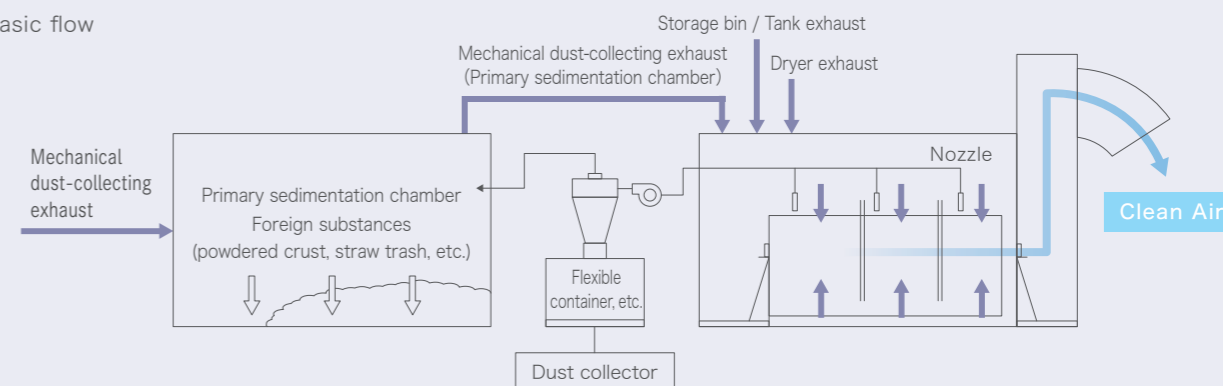
It is sufficient to install a small quantity of LDF and maintenance is easy.

The unit is an automatic cleaning type that monitors the differential pressure before and after the filter and collects powder dust automatically when it reaches a certain value.

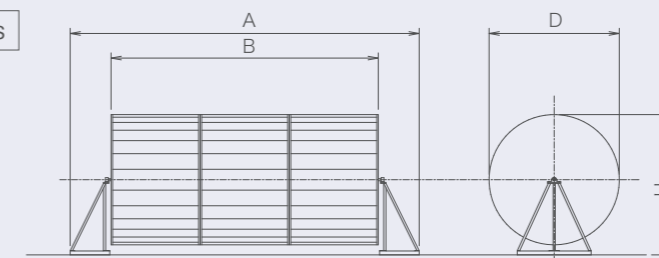
- Since foreign substances and power dust are collected in the dry state, the area appears clean with no bad odors.
- Moisture does not flow back into the dryer, which will reduce the risk of problems.
- It is possible to cope with tasks through various combinations depending on the processing air volume.



Basic flow



Specifications



Rotary drum filter (LDF) model		15/17	15/34	15/51	20/17	20/34	20/51	25/17	25/34	25/51
Filter ventilation area	m ³	6.9	13.8	20.7	9.2	18.4	27.6	11.5	23	34.5
Number of filters used	pieces	3	6	9	4	8	12	5	10	15
Maximum processing air volume	m ³ /min	250	500	750	330	670	1,000	420	830	1,250
Weight	Kg	500	650	800	610	770	930	740	920	1,100
Motor output	kW	0.4								
Cleaning fan motor capacity	kW	1.5	1.5	2.2	1.5	2.2	2.2	1.5	3.7	5.5
Dimension D	mm	1,500			2,000			2,500		
Dimension A	mm	3,280	4,990	6,700	3,280	4,990	6,700	3,280	4,990	6,700
Dimension B	mm	1,710	3,420	5,130	1,710	3,420	5,130	1,710	3,420	5,130
Dimension H ^{*1}	mm	1,737			2,139			2,693		

*1 The height of the panel casing is not taken into consideration.

*2 Specifications of the machine may differ depending on design requirements.