

COMPACT FILTERS



*Product & Design of
Industrial Filters*

LA Compact Filters

LA Compact Filters are designed to separate the dust during ventilation of silos, local ventilation and machining.

Description

The LA Compact Filter is divided into the chamber of cleaned air and the operating chamber. The filter is manufactured to be an airtight steel weldment. An inspection door for the replacement of filter bags is included on top of the filter.

A cubic sheet metal creates a parting plane between the two chambers. The filter bags with the supporting cages are fixed to the cubic sheet with stainless steel couplings.

The cleaning process of the filter bags is achieved with short pulses of pressure air. The cleaning proceeds either in fixed time intervals or according to the pressure loss.

Operating conditions

The LA Compact Filters are designed for separating solid parts from the polluted air that could be dangerous and reposition the cleaned air back to the environment. With a suitable choice of filter bags and sealing materials, filters for operating temperatures of up to 150°C can be delivered.

The standard filter casing has been designed for overpressures of 3 kPa or -5 kPa. The filters are designed for installation in both the outside and inside environment. The electrical installation has the safety protection of IP 54.

Any filters for the operation in higher temperatures or higher pressures must be consulted with the manufacturer.

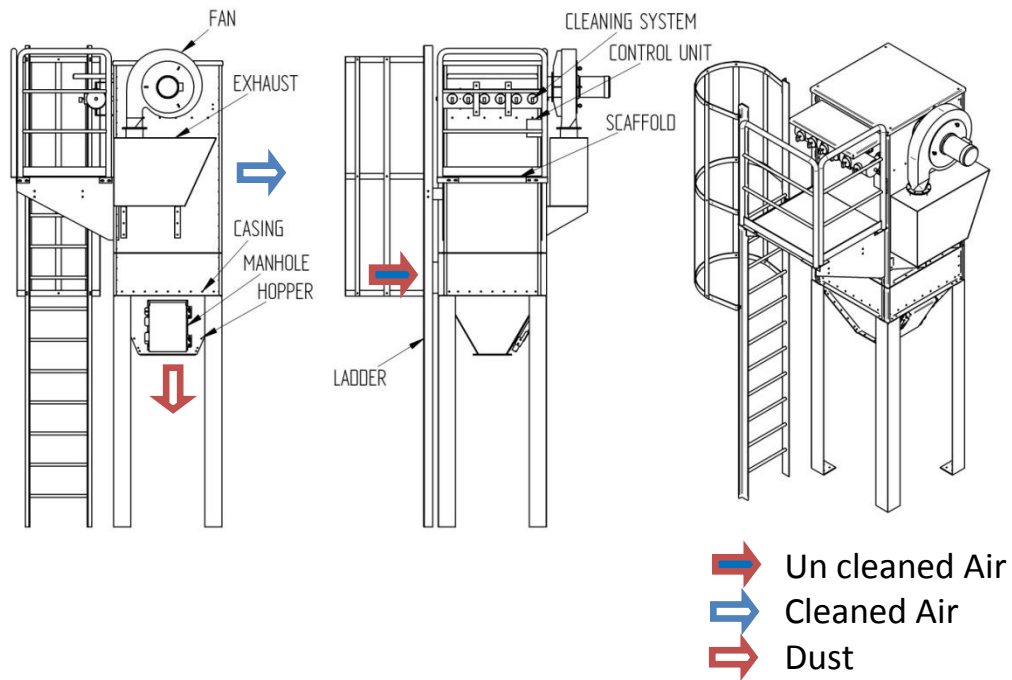
Design

The LA Compact Filters are delivered in several basic designs:

- Filters with a hopper, mounted to the supporting structure.
- Filter without a hopper, mounted directly to silo flange.
- Filters equipped with an integrated ventilator, simplifying the exhausting facility.
- Filters equipped with exhaust.
- Filters with outlet flange for the connection with the suction piping.

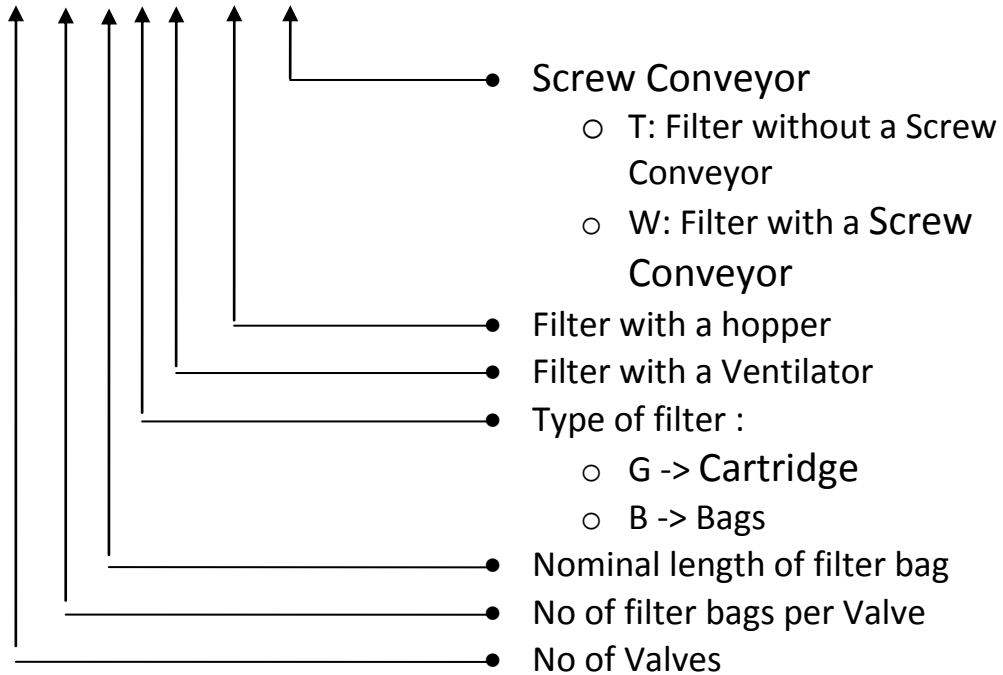
Technical data

Fig.1 Main parts of the LA Compact Filter



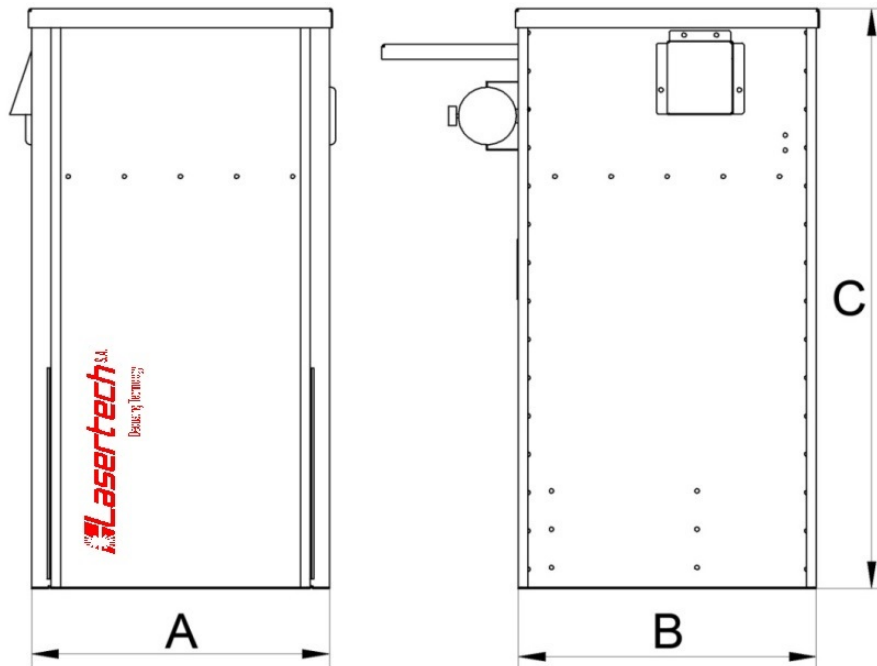
Designation

LA 03-03-1-G-V-K60-T



Basic Dimensions

Fig.2 Filter LA in design B (without a Hopper)



Filter With Bags

Filter Type	A (mm)	B (mm)	C (mm)	Cloth Area (m ²)	Weight (KG)
04-04-1-B-T	564	564	1673	75	180
06-06-1-B-T	845	845	1673	170	250
08-08-1-B-T	1225	1225	1673	300	370
08-12-1-B-T	1225	1735	2173	600	800
08-016-1-B-T	1225	2297	2173	800	950

Service Platforms

Fig.3 Platforms of the LA Compact Filter

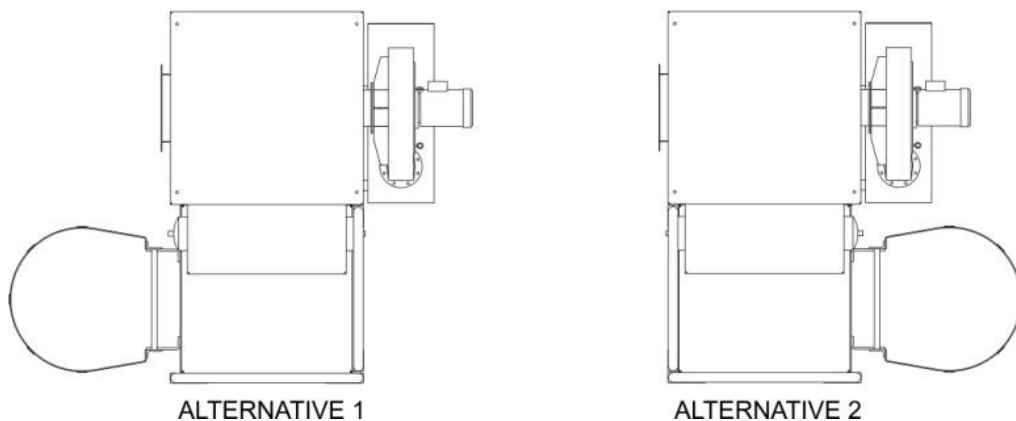
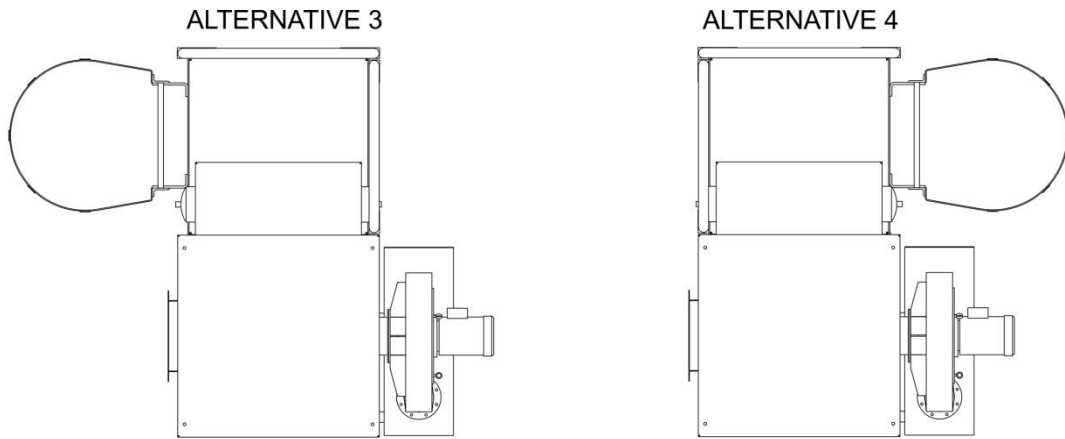


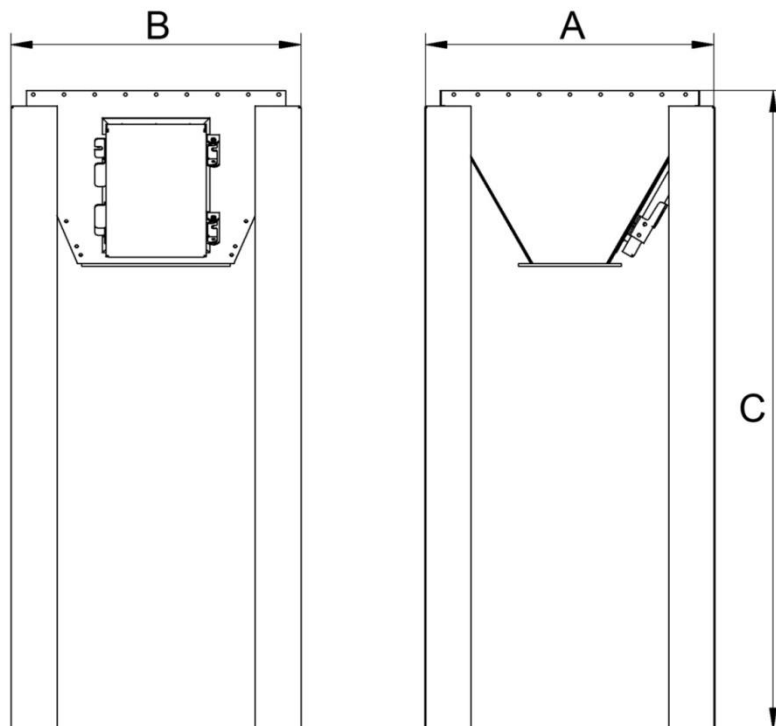
Fig.4 Platforms of the LA Compact Filter



- The platforms enable the access to the filter door for bags replacement and cleaning system.
- Filters without a hopper do not need platform.
- The platform is equipped with galvanized floor grates.

Hopper

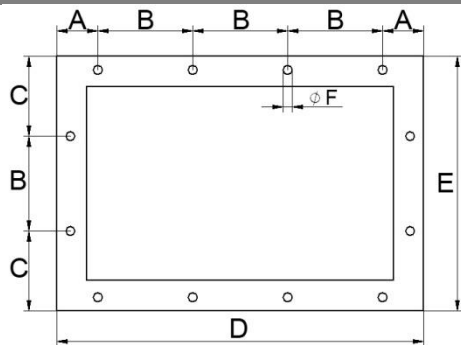
Fig. 5 Hopper with flange for the dust outlet



Dimensions and weights of the Hopper

Filter Type	A (mm)	B (mm)	C (mm)	Weight KG
04-04-1-B-T	664	664	1400	180
06-06-1-B-T	945	945	1600	180
08-08-1-B-T	1325	1325	2200	280
08-12-1-B-T	1325	1835	2600	350
08-016-1-B-T	1325	2397	2600	450

Bottom flange of the Hopper



A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
54,5	125	105,5	484	336	12

Fig.6 Flange for the dust outlet

Data for an order

The size and design of the LA Compact Filter should be consulted with the manufacturer data sheet. Lasertech SA prepares an offer with a description and a drawing of the filter assembly.

In the order specify especially:

- Number of the offer.
- Filter type according the paragraph Designation.
- Number of the ordered pieces of filters.
- Required delivery time.