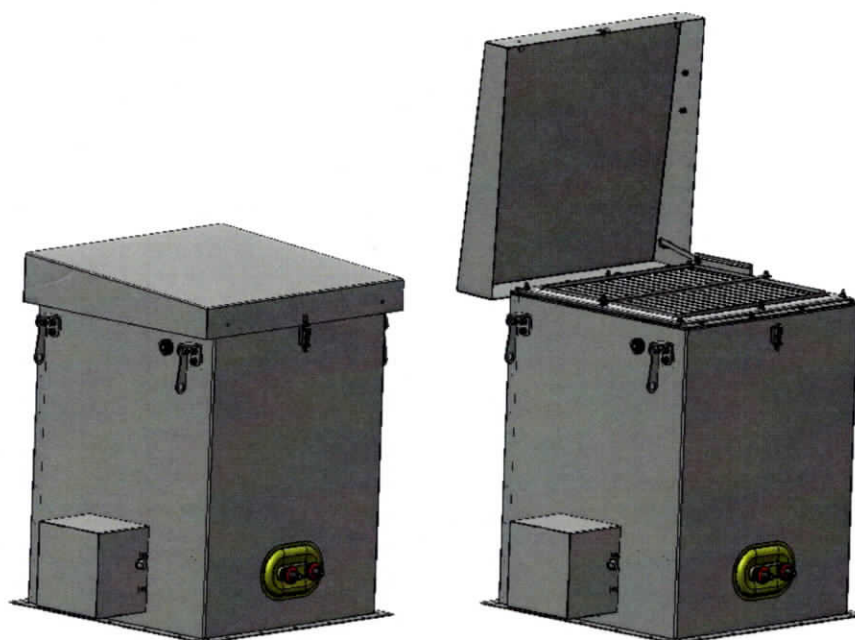




DUSTSHAKE R02

*POLYGONAL
DUST COLLECTORS
WITH SHAKER CLEANING*

TECHNICAL CATALOGUE

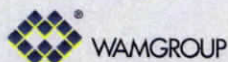


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ORIGINAL INSTRUCTIONS IN ENGLISH

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All the products described in this catalogue are manufactured according to **WAMGROUP S.p.A. Quality System procedures**. The Company's Quality System, certified in July 1994 according to International Standards **UNI EN ISO 9002** and extended to the latest release of **UNI EN ISO 9001**, ensures that the entire production process, starting from the processing of the order to the technical service after delivery, is carried out in a controlled manner that guarantees the quality standard of the product.

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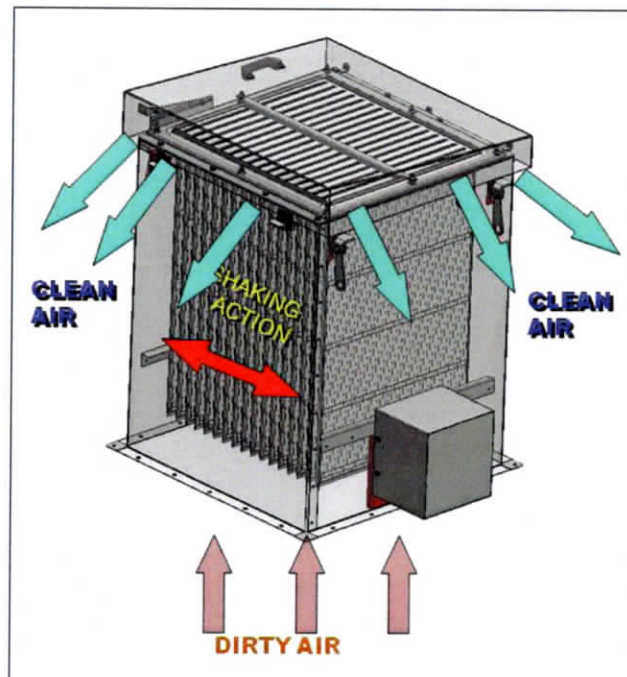
1.1 Description

DUSTSHAKE R02 is a polygonal filter shaped VENTING FILTER developed for truck loading silo venting.

1.2 Function

Dust is separated from the dirty air flow by means of multi pocket polyester filter media.

Dust drops down into the silos as a mechanical shaking system vibrates the filter elements.



2.1 Main features

The main function of the dust collector is to intercept the powder particles generated during operations to prevent environment pollution and safety worker.

The hinged top cover of DUSTSHAKE R02 is a hatch that can be opened to replace the filter elements rapidly, while the front panel can be easily removed for inspecting the filter elements.

2.2 Indications for use

The equipment is not designed for operating in hazardous conditions or with dangerous materials; therefore, when the equipment is to be used under such conditions, it is necessary to inform the Manufacturer.

- Materials considered as hazardous are: explosive, toxic, flammable, harmful and/or similar materials.

Use of this method limits their application to discontinuous operation.

There can be two different types of installation:

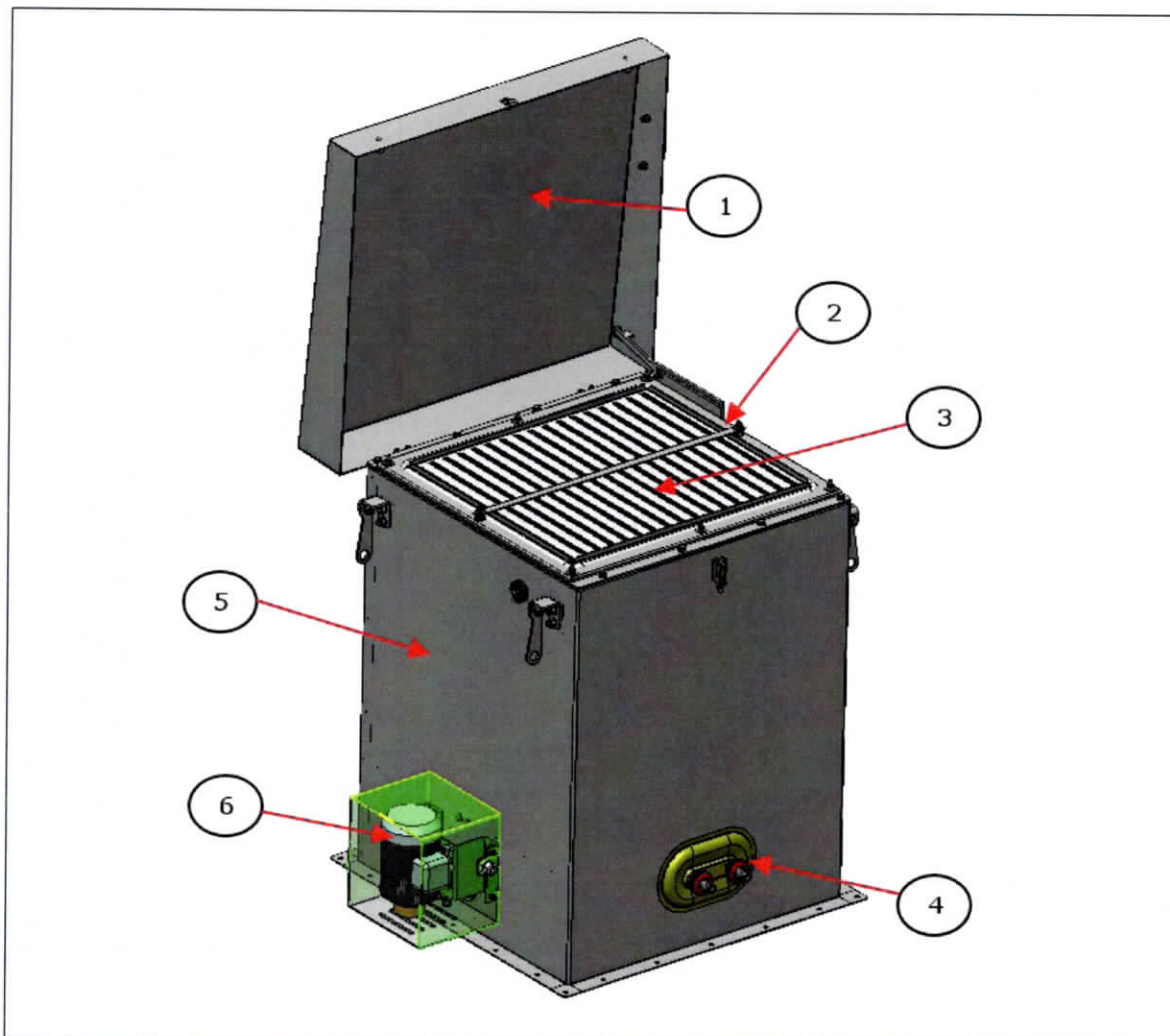
1. Filter on receiver of discontinuous pneumatic conveyor (e.g. silo filled by a tank truck); in this case the filter must only and exclusively be operated once the pneumatic conveying phase has ended. The vibration phase must only last 60 seconds at most.
2. Filter on hopper with fan (e.g. manual bag emptying)

In this installation, the vibrator must only be allowed to operate when the fan has been stopped. Remember that once the motor has been disconnected from the electric power source the fan momentum will end within 30-40 seconds.

If an automatic cleaning system is used, make sure it does not operate immediately after the fan motor has stopped. In this case, too vibration must only last 60 seconds at most.

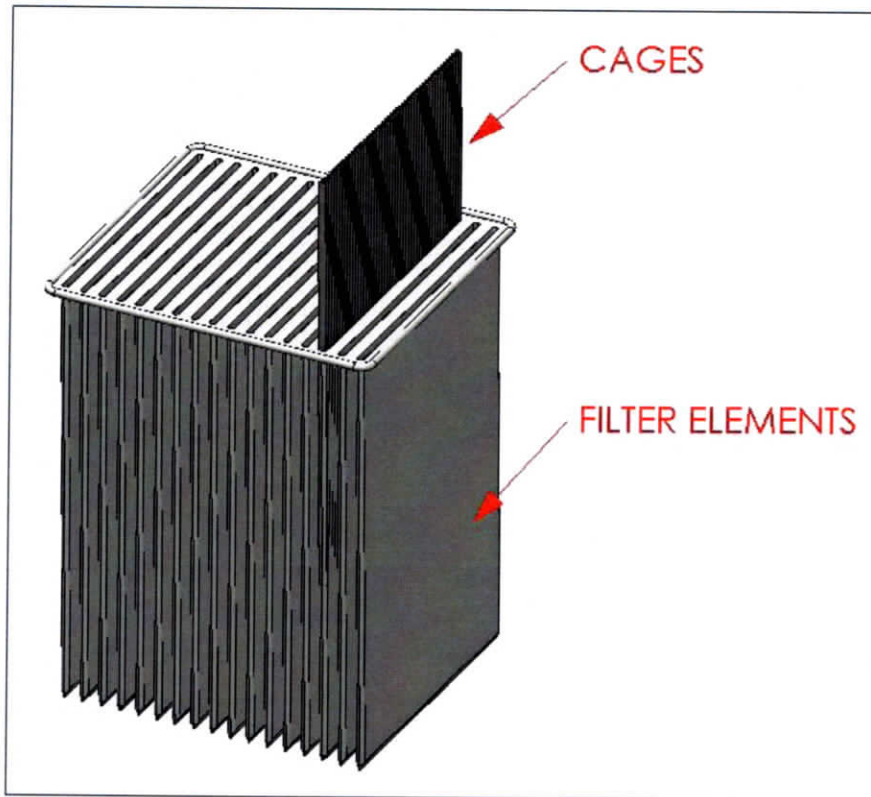
3.1 Standard machine description

The standard **DUSTSHAKE R02** has the following components:



ITEM	DESCRIPTION	MATERIAL	THICKNESS	FINISCHING
1	Cover	Carbon steel	1 mm	2B (uni en 10088-2/4-1197)
2	Seal frame	Carbon steel	6 mm	Powder coated RAL 7001
3	Filter elements	Felt	-	Anodized light
4	Inspection hatch	-	-	Black electrophoresis
5	Filter body	Carbon steel	1.5 mm	Mesc buffing 120-180 (4/4 IV*)
6	Shacker motor	Aluminium	-	-

3.2 Filter elements

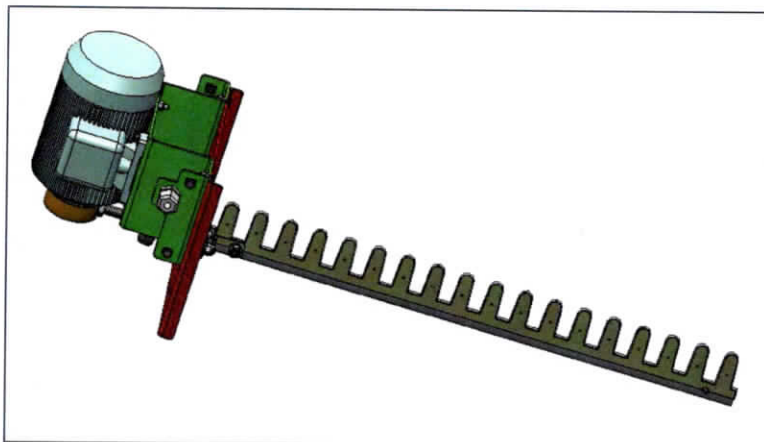


The filter elements consists of a series of 17 pockets made of 350 g/m2 polyester felt (FM).

The WAM filtering media are certified by the professional institute of safety at the workplace "BIA" (Germany).

WAM CODE	MATERIAL	G/M ²	FIELDS OF APPLICATION	BIA CLASS
FM	Felt smooth polyester	350	Very simple filtration	L

3.3 Cleaning system



The system for cleaning the multiple pockets consists of an aluminium motor directly connected to a comb that transmits movement to each of the pockets.

3.4 Electric motor

Frame	Poles	P _n (KW)	n _n min ⁻¹	T _n Nm	I _n 400V A	Cosφ 100%	η 100%	η 75%	I _s /I _M	T _s /T _M	T _{max} / T _M	J kg/m ²	Weight (kg)
63b	6	0.12	870	1.32	0.63	0.60	46	42	3.0	2.0	2.1	0.0035	5.5



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03.13

4.0 OPERATING LIMITS

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OPERATING CONDITIONS

The DUSTSHAKE filters operate under the following conditions:

1) Maximum acceptable airflow temperature:

POSITIVE:

80°C continuous

100°C peak

NEGATIVE:

-20°C

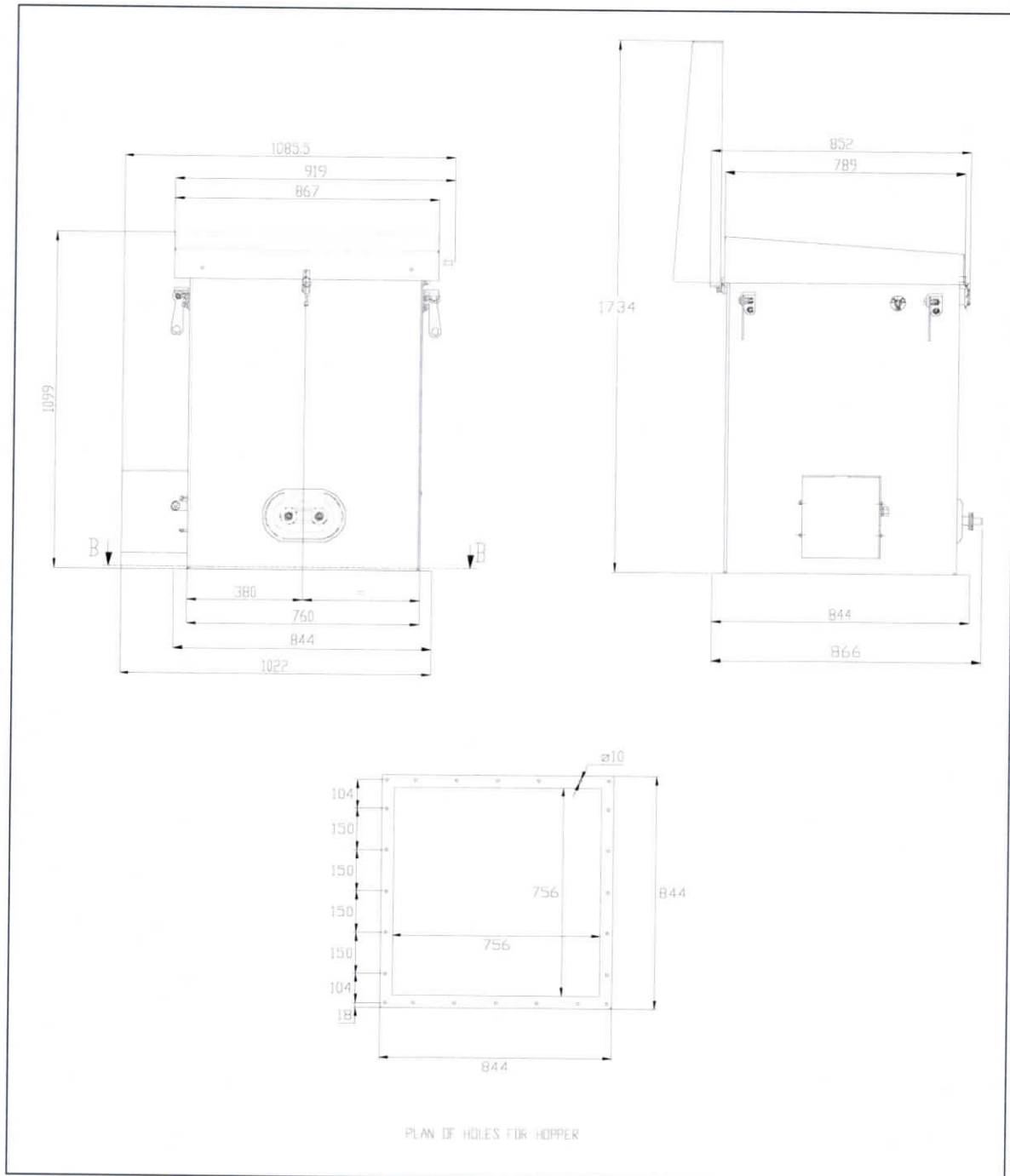
2) Maximum acceptable static pressure of filter body:

POSITIVE:

500mmH₂O (0.075 bar - 7.5 kPa)

5.0 DIMENSIONS AND WEIGHT

CODE	FILTERING SURFACE	SHAKER MOTOR	WEIGHT
DUSTSHAKE R02	17 m ²	0.13 kw	120 kg



Connection flange for DUSTSHAKER02 on DUSTSHAKER02

