

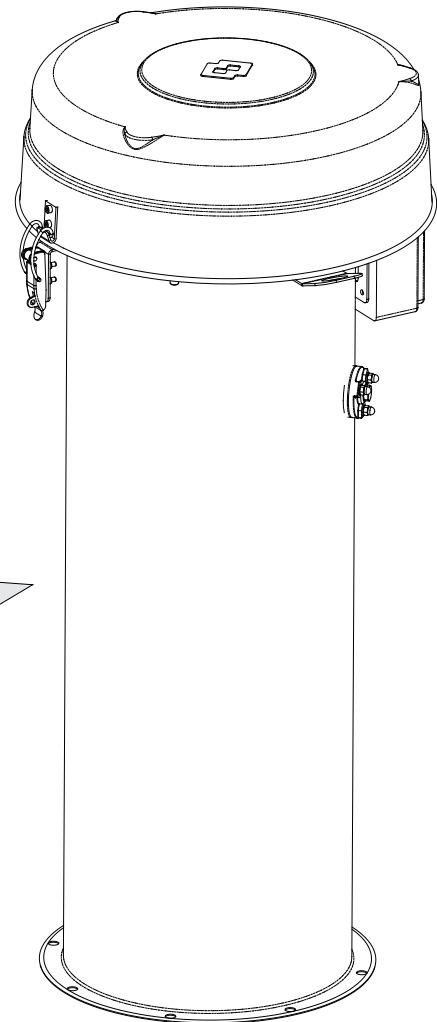


HOPPERTOP

Weigh HOPPER venting filter

1

TECHNICAL CATALOGUE HOPPERTOP



**SMALL
FOOTPRINT**

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ORIGINAL INSTRUCTIONS IN ENGLISH		

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All the products described in this catalogue are manufactured according to **WAM® S.p.A. Quality System procedures**. The Company's Quality System, certified in July 1994 according to International Standards **UNI EN ISO 9002-94** and extended to **UNI EN ISO 9001-2000** in October, 2002, 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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TECHNICAL CATALOGUE

1.0	INDEX.....	T.00
1.1	DESCRIPTION AND USE.....	.01
1.2	OPERATING CONDITIONS.....	.01
1.3	BASE SUPPLY: MATERIALS AND FINISHING.....	.02
1.4	ACCESSORIES: MATERIALS AND FINISHING.....	.03
1.5	BASIC FILTER DIMENSIONS AND WEIGHTS.....	.04 → .05
1.6	FILTER ELEMENTS.....	.06
1.7	FILTERING MEDIA.....	.06
1.8	CLEANING SYSTEM.....	.07
1.9	TIMER CONTROLS.....	.07
2.0	OPTIONS: DIFFERENTIAL PRESSURE GAUGE.....	.08
2.1	PACKAGING.....	.09
2.2	ACCESSORIES: BOTTOM RING.....	.10
2.3	CONSUMPTION.....	.11

1.1

DESCRIPTION

- **HOPPERTOP** is a filter for venting weigh hopper in batching plants.
- They are made entirely in AISI excluding the carbon steel seal frame.
- The filter elements cleaning system consist of a blowing system with “full immersion” solenoid valves and blow pipes directly connected to the air reservoir.
- This system is completely built into the cover (venting version only) so as to reduce to the maximum the overall dimensions and the time necessary for maintenance.

USE

- The technical features and compressed air cleaning system make the machine ideal for continuous use.

NOTE

- **Unless otherwise specified, all the dimensions are given in millimetres.**

1.2

OPERATING CONDITIONS

- The **HOPPERTOP** filters operate under the following conditions:

1) Maximum acceptable air flow temperature:

POSITIVE:
80°C continuous
100°C peak

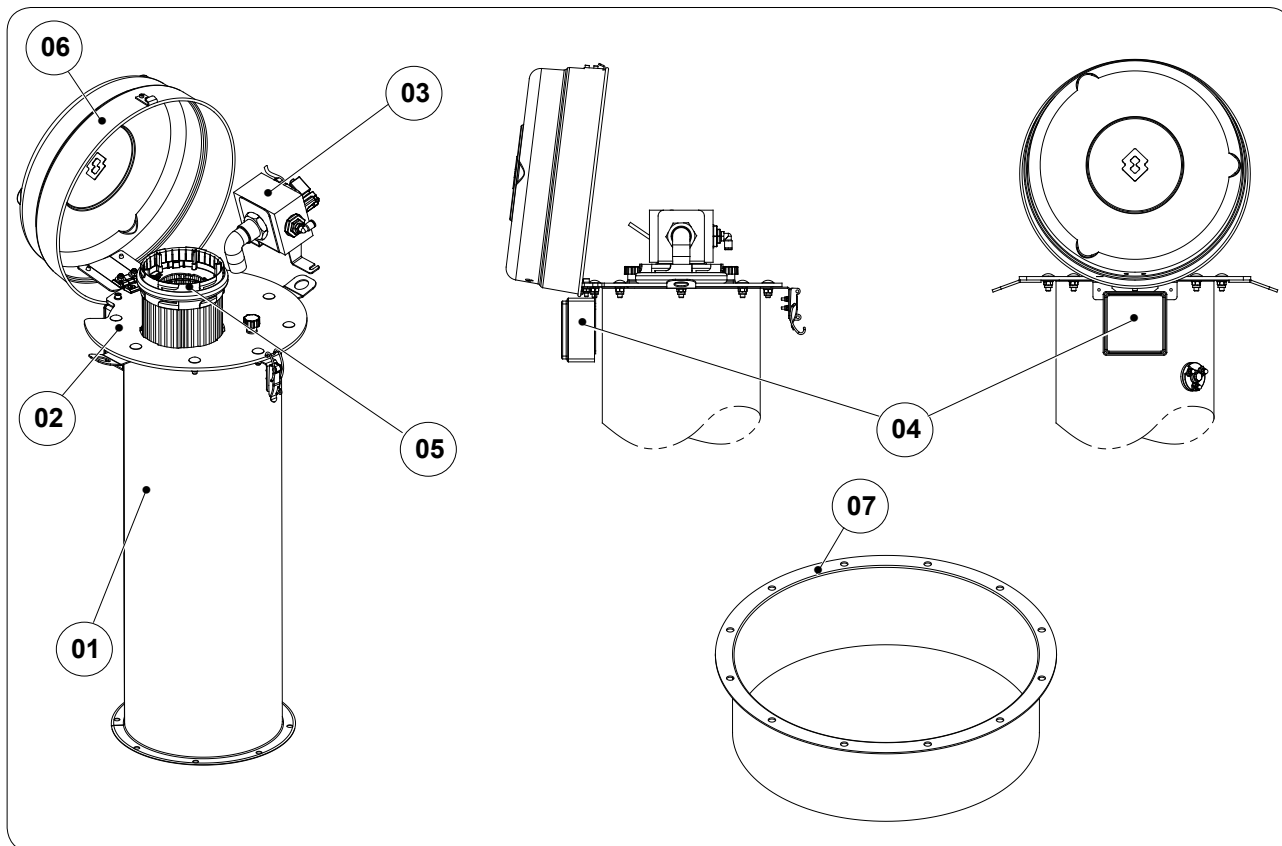
NEGATIVE:
-20°C

2) Maximum acceptable static pressure of filter body:

POSITIVE:
750mmH₂O
(0.075 bar - 7.5 kPa)

NEGATIVE:
- 500mmH₂O
(-0.05 bar - 6 kPa)

- The equipment is **NOT** designed for operating in hazardous conditions or with dangerous materials; therefore, when the equipment is to be used in these conditions, it is necessary to advise the Manufacturer.
- Materials considered as hazardous are: explosive, toxic, flammable, harmful and/or similar materials.

1.3
BASE SUPPLY: MATERIALS AND FINISHING


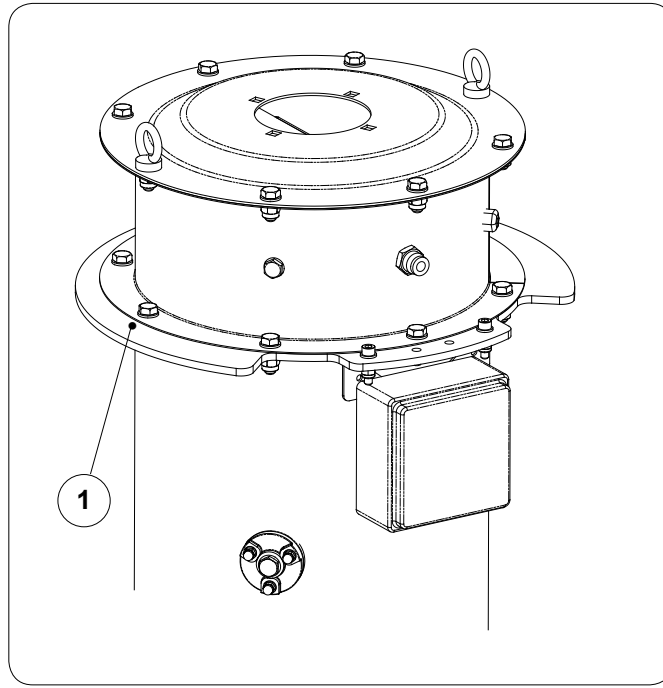
ITEM POS.	DESCRIPTION	MATERIAL	THICKNESS	FINISHING
01	Body filter	Stainless steel	1 mm	2B (UNI EN 10088-2/4-1997)
02	Seal frame	Carbon steel	6 mm	Powder - coated RAL7001
03	Cleaning system			
04	Electronic timer			
05	Cartdrige			
06	Cover	Stainless steel		2B (UNI EN 10088-2/4-1997)
07	Bottom ring	Carbon steel		Powder coating RAL 7001

*Accordin to UNI-EN 10088 (1997)/AISI (1974) / DIN 17440 (1985) - *Gemaß UNI-EN 10088 (1997)/AISI (1974) / DIN 17440 (1985)

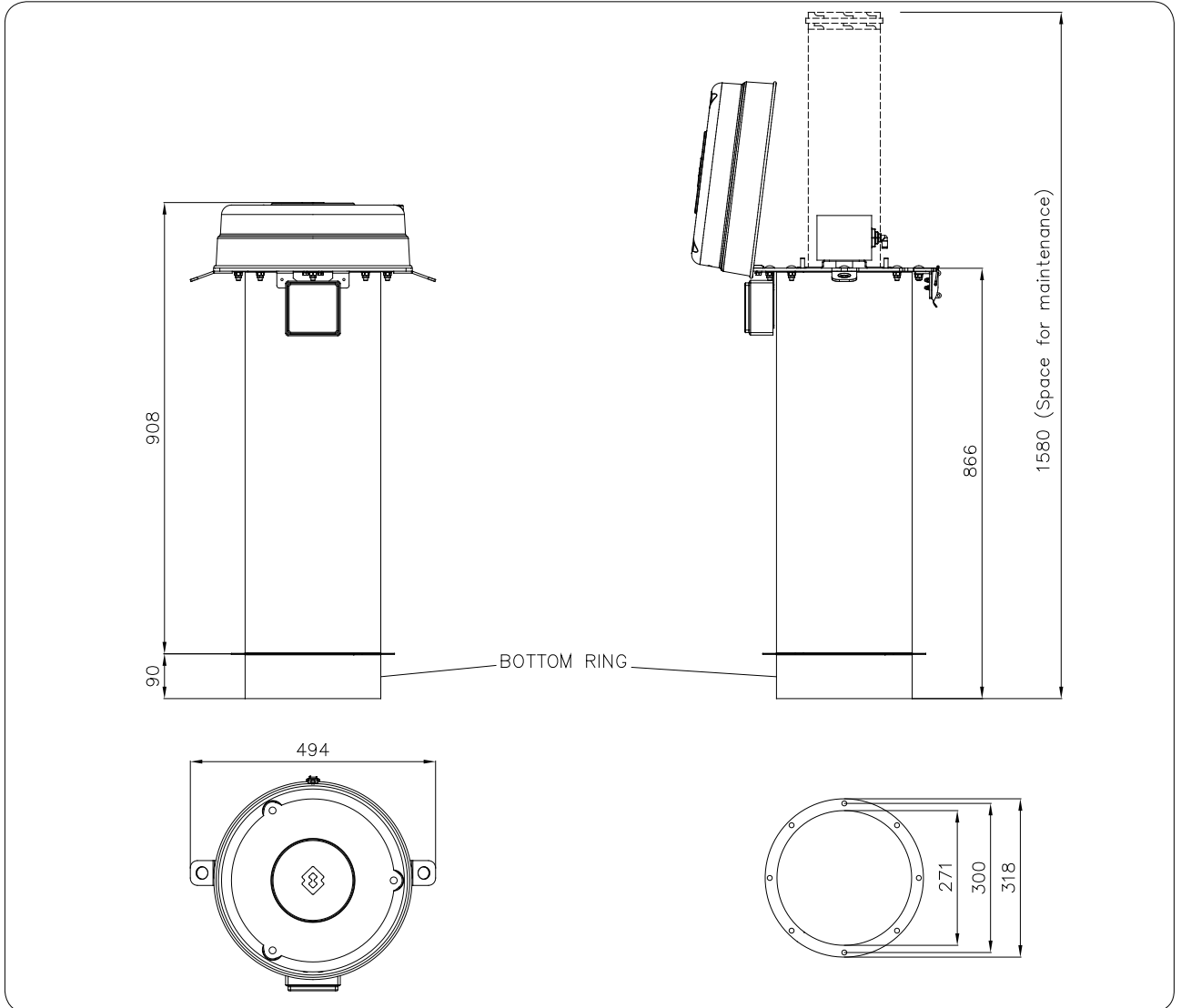
*Selon UNI-EN 10088 (1997)/AISI (1974) / DIN 17440 (1985) - *Secondo UNI-EN 10088 (1997)/AISI (1974) / DIN 17440 (1985)

1.4

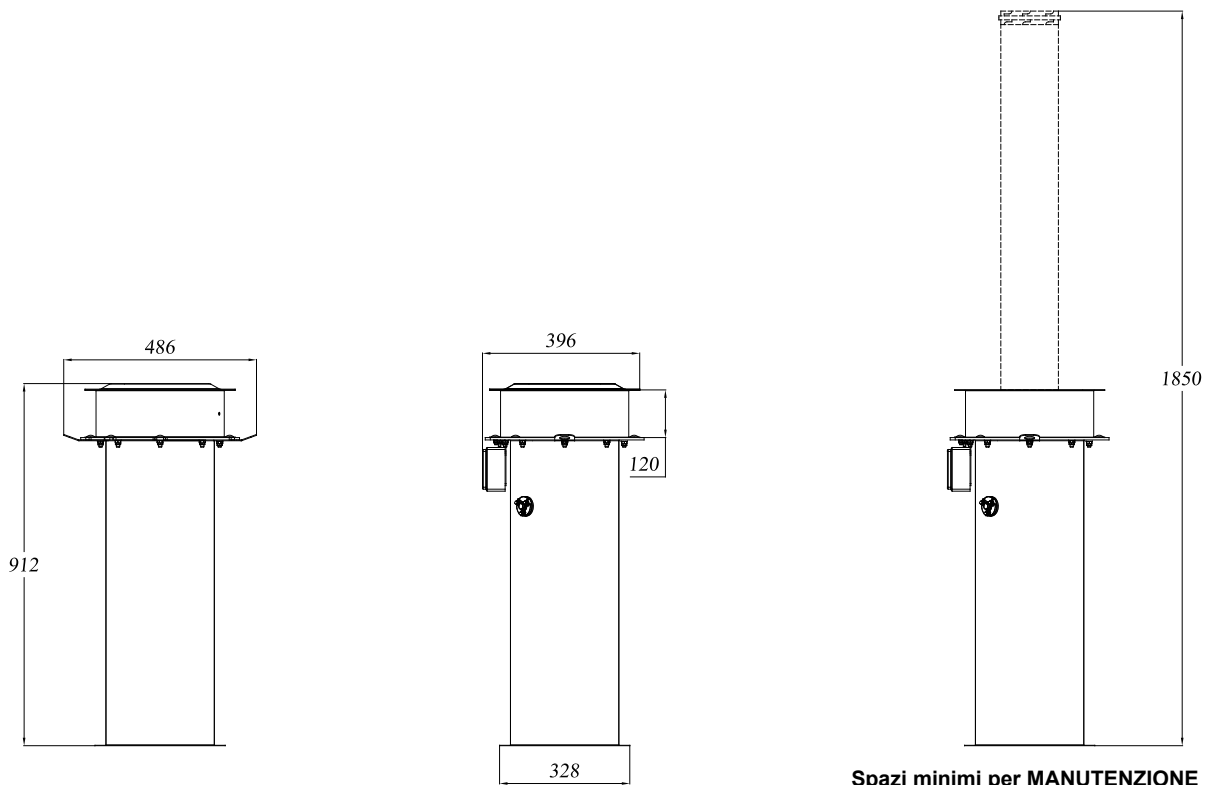
ACCESSORIES: MATERIALS AND FINISHING



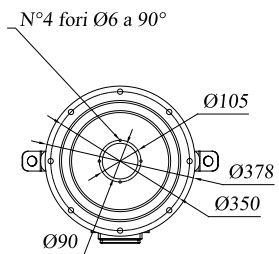
ITEM POS.	DESCRIPTION	MATERIAL / THICKNESS	THICKNESS	FINISHING
1	Top cover with emission sampling connection	-	-	-

1.5
BASIC FILTER DIMENSIONS AND WEIGHTS


CODE	FILTER SURFACE [m ²]	WEIGHT [Kg]
HTP10001V	1	15



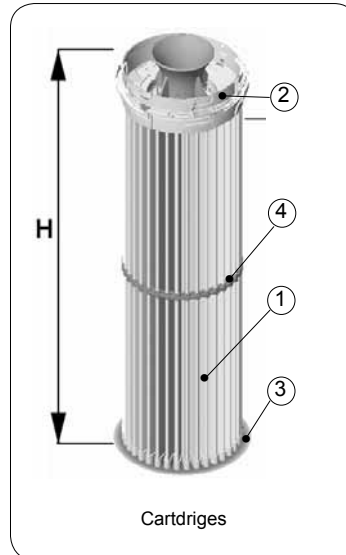
Spazi minimi per MANUTENZIONE



CODE	FILTER SURFACE [m ²]	WEIGHT [Kg]
HTP10001R	1	16.5

1.6
FILTER ELEMENTS

- **HOPPERTOP** is equipped with one cartridge manufactured from spun-bonded polyester filter media.
- The wide and open angle pleat ensure an efficient dust cake release.



TYPE	ITEM POS.	DESCRIPTION	MATERIAL	H
CARTDRIGE	1	Filtering media	Polyester non-woven	770
	2	Head	Thermoplastic material	
	3	Bottom		
	4	Band		

1.7
FILTERING MEDIA

- For all filter elements it is possible to use different types of media, to satisfy the requirements of all applications in the various industrial sectors. The WAM® filtering media are certified by the Professional Institute for safety at the workplace "BIA" (Germany).

WAM® CODE	MATERIAL	Gr./m ²	FIELDS OF APPLICATION	CLASS
PLEATED				
PP	Pleated non-woven polyester	265	Filtration of standard materials	M

For more information, see the "Filtering Media" and "Selection criteria" catalogues.

Für weitere Auskünfte siehe den Katalog „Filtermedien“ und den Katalog „Auslegekriterien“.

Pour tout complément d'informations consultez le catalogue "Médias Filtrants" et catalogue "Critères de choix"

Nota: Per maggiori informazioni vedi catalogo "Media Filtranti" e catalogo "Criteri di scelta"

1.8

CLEANING SYSTEM

- HOPPERTOP filters are equipped with a reverse compressed air jet cleaning system.

COMPRESSED AIR IN COUNTER CURRENT



CLEANING UNIT

- It comprises:
 - Solenoid valve;
 - Blow pipe ;
 - Air intake.
- The timer sequentially handles flow of compressed air to the blowing pipes.
- The filter requires a connection to a compressed air pipe at a constant pressure of 4 bar.
- The air must be free of moisture and oil.

1.9

CONTROLLER

- The controller has the function of controlling the filter element cleaning cycle.
- The controller works with power supply of 24 VAC (50 / 60 Hz) only.
- In case the voltage of 24 VAC is not available, it is possible to use 110 V AC or 230 V AC instead **BUT THE COIL MUST BE CHANGED WITH COIL OF THE SAME INPUT VOLTAGE CHOSED.**
- The coil installed must have a power not lower than 11 VA. It is possible to set the time between one blowing cycle and the next (Tp) and the solenoid valve opening time (Ts) as shown in the same Table.

TIMER CONTROLS

The voltage for piloting the coil is the same as that of the power supply.

V in / V out
24 AC - WS - CA

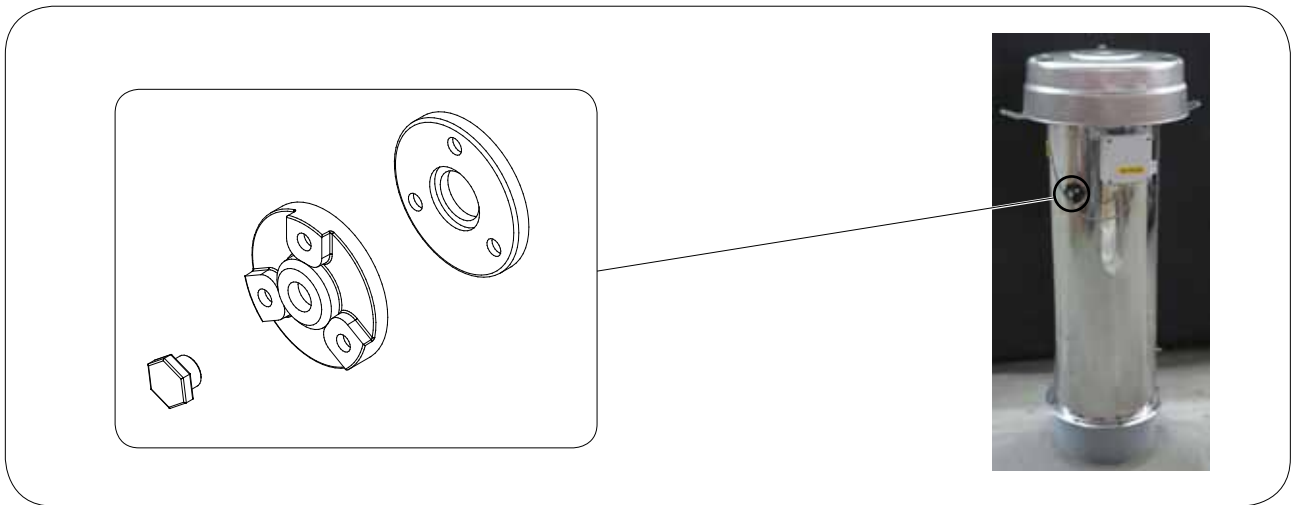
TIMER SETTING (sec.)					
Tp			Ts		
MIN.	MAX.	SET	MIN.	MAX.	SET
5	90	28	0,1	0,3	0,1

2.0
DIFFERENTIAL PRESSURE GAUGE

- The **HOPPERTOP** filters can be provided with devices for measuring pressure difference between the dirty part and clean part of the filter, for monitoring the degree of cleanliness of the filter elements.

WITHOUT PRESSURE MEASURING DEVICE

- It is however possible to install a pressure measuring device subsequently.
- For this purpose holes are already provided on the filter body, blocked with an ordinary screw.


MDPE WITH DIFFERENTIAL PRESSURE MEASURING DEVICE

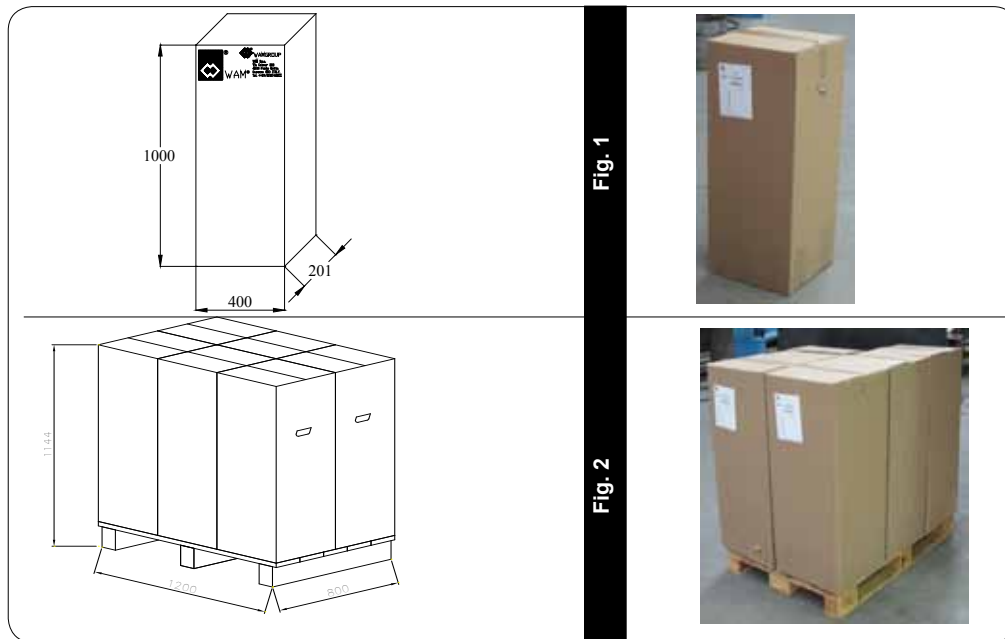
- The MDPE (electronic pressure difference measuring device) module is fitted directly on the WAM® standard controller board.
- The pressure difference is expressed on a 3-digit display. By fixing the two operating pressure thresholds (minimum and maximum), it is possible to carry out cyclic cleaning of the filter only when it is actually necessary, thus allowing energy saving. The preset values are shown in the table below.
- This instrument also allows remote reading of the DP (4-20mA output) as well as transmission of an alarm signal (WK output).
- For user instructions see Catalogue No. 2 (use and maintenance).



Activation Pressure	90 mm H ₂ O
Deactivation Pressure	40 mm H ₂ O

2.1
PACKAGING

- The filter is supplied on a cardboard box.
- For the 6 pieces kit the 6 filters are packed on a pallet and protected with a shrink-wrap film.



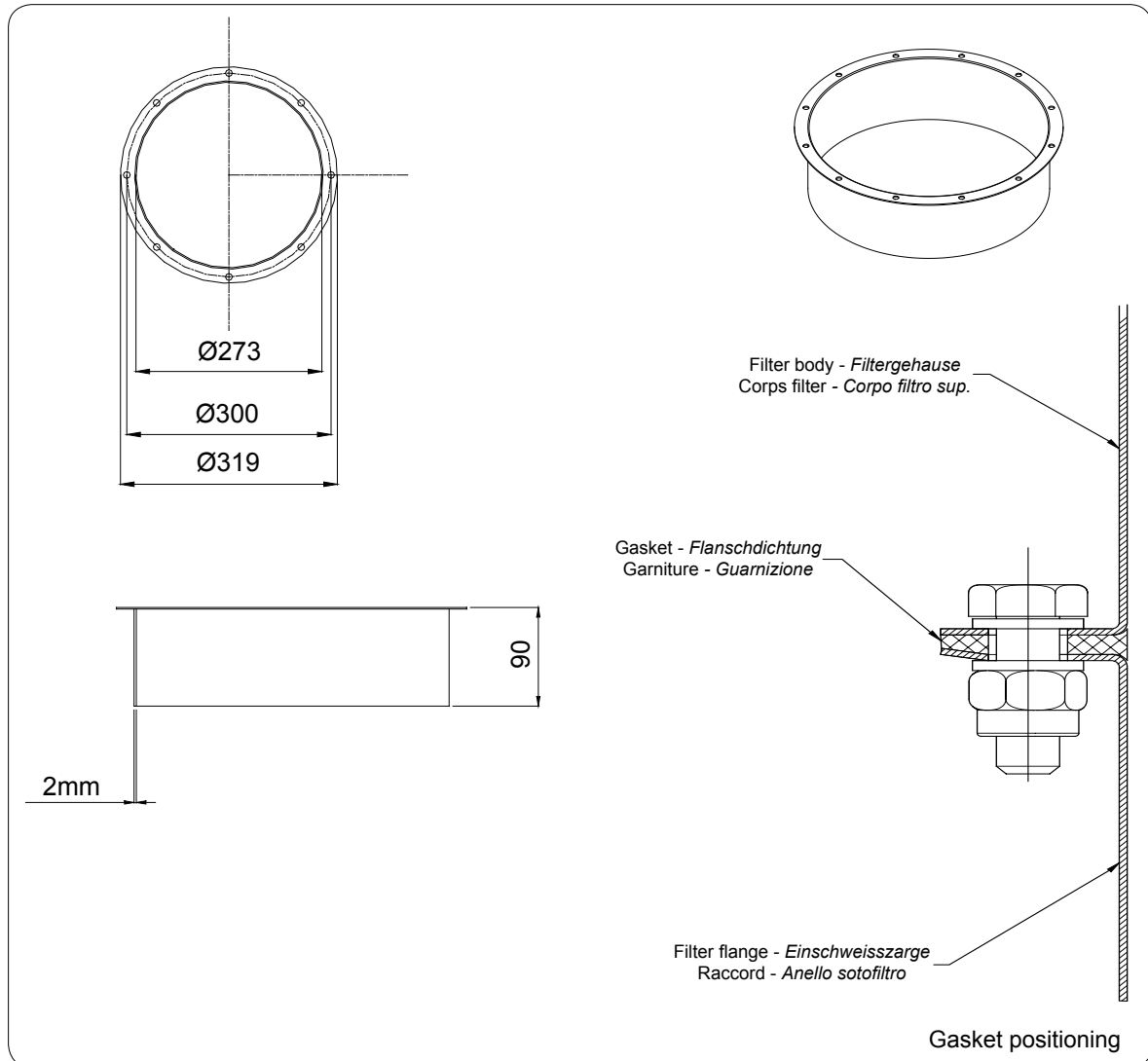
CODE	WEIGHT	FIG. 1	FIG. 2
HTP10001V	15 Kg	X	
HTP10001R	16,5 Kg	X	
KHTP10001V06	120 Kg		X
KHTP10001R06	128 Kg		X

2.2

BOTTOM RING

- It is used to connect the filters to hoppers, silos or cells.
- The flange is welded on the silo, hopper or cell and then bolted to the filter.

UFN 2731



2.3**CONSUMPTION****COMPRESSED AIR CONSUMPTION**

P_{max} [bar]	CLEANING INTERVAL* [sec]	PULSE DURATION [msec]	[Nm³/h]
4	28	100	4.5

* The preset blowing time is 100ms. For more information, refer to the relevant controller board configuration page.

ELECTRICAL CARD CONSUMPTION

INPUT VOLTAGE [Vac]	ABSORBED CURRENT [A]	ABSORBED POWER [W]
24	0.220	5.3

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N.B. Angaben ohne Gewähr. Änderungen können ohne Vorankündigung vorgenommen werden.

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N.B. Tutti i dati riportati nel presente catalogo non sono impegnativi e possono subire variazioni in qualsiasi momento.



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