



**HIGH POWER VACUUMS**  
**TECHNICAL CATALOGUE**  
**2015-2016**



## High Power Vacuum - COMPACT series mod. CFA



Compact on container

Heavy duty Industrial vacuum cleaner for the suction of large quantities of powder or granular material.

The unit can be transported by a forklift or crane. The user is able to suck the material with a hose or connected to a pipeline directly in the big 1.000lt. container. The container can be pull out of the frame and discharge thru the bottom discharge. The Suction unit can be taken of and used stationary on top of a Hopper unit.

Mod. **AC (power in kW) CFA = AC (COMPACT)... CFA** (Container with bottom unload) AV – high vacuum

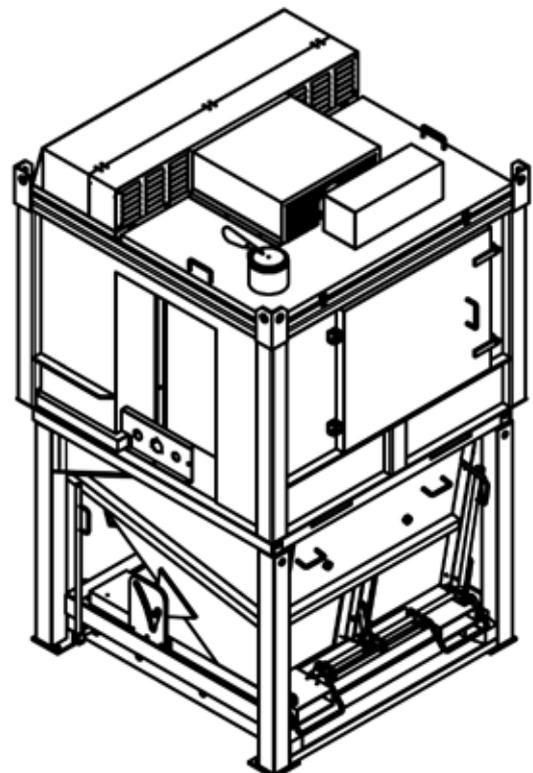
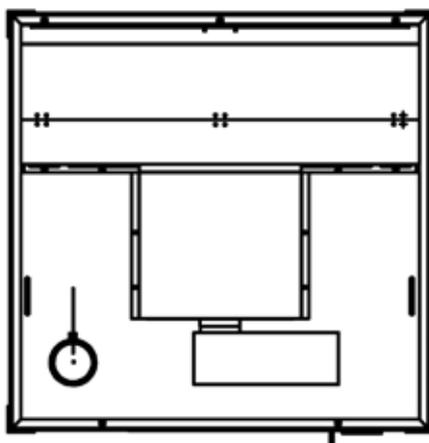
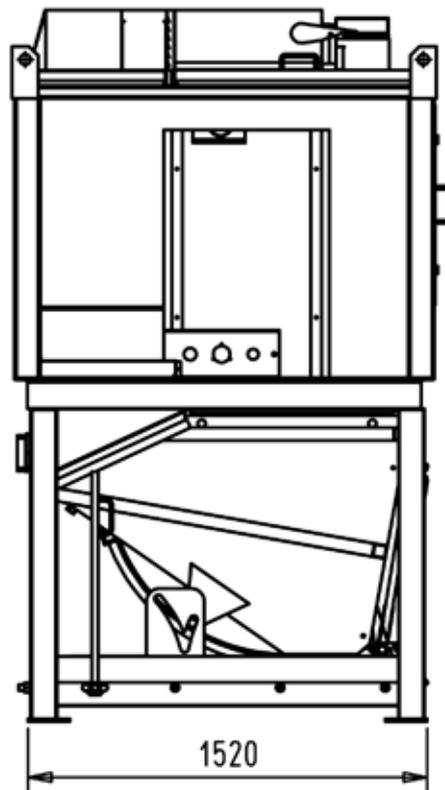
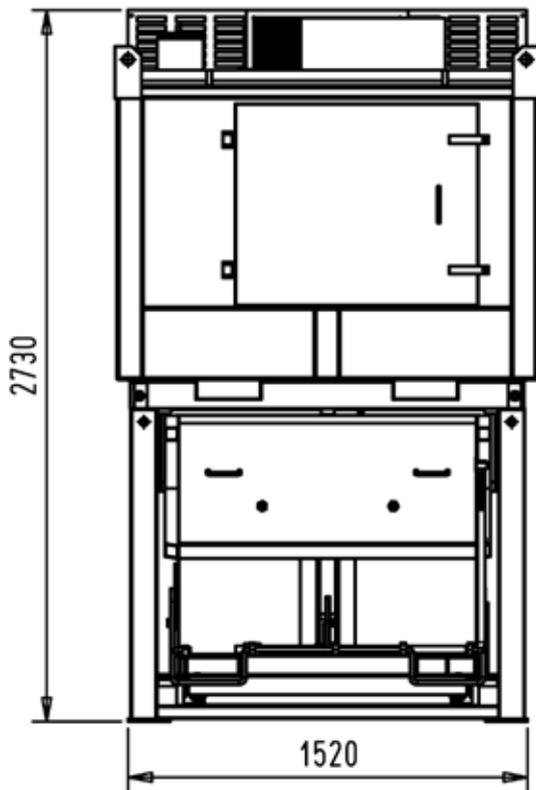
P/N	Description
4932000020	<b>AC30 CFA</b> COMPACT 30 kW
4932000016	<b>AC37 CFA</b> COMPACT 37 kW
4932000017	<b>AC37AV CFA</b> COMPACT 37 kW high vacuum
4932000024	<b>AC45AV CFA</b> COMPACT 45 kW high vacuum
4932000031	<b>AC37AV Z22 CFA</b> COMPACT 37 kW high vacuum <b>ATEX Z22*</b>
4932000052	<b>AC45AV Z22 CFA</b> COMPACT 45 kW high vacuum <b>ATEX Z22*</b>

\*Machine following the European ATEX Zone 22 application standard IIBD as ATEX 94/9/CE

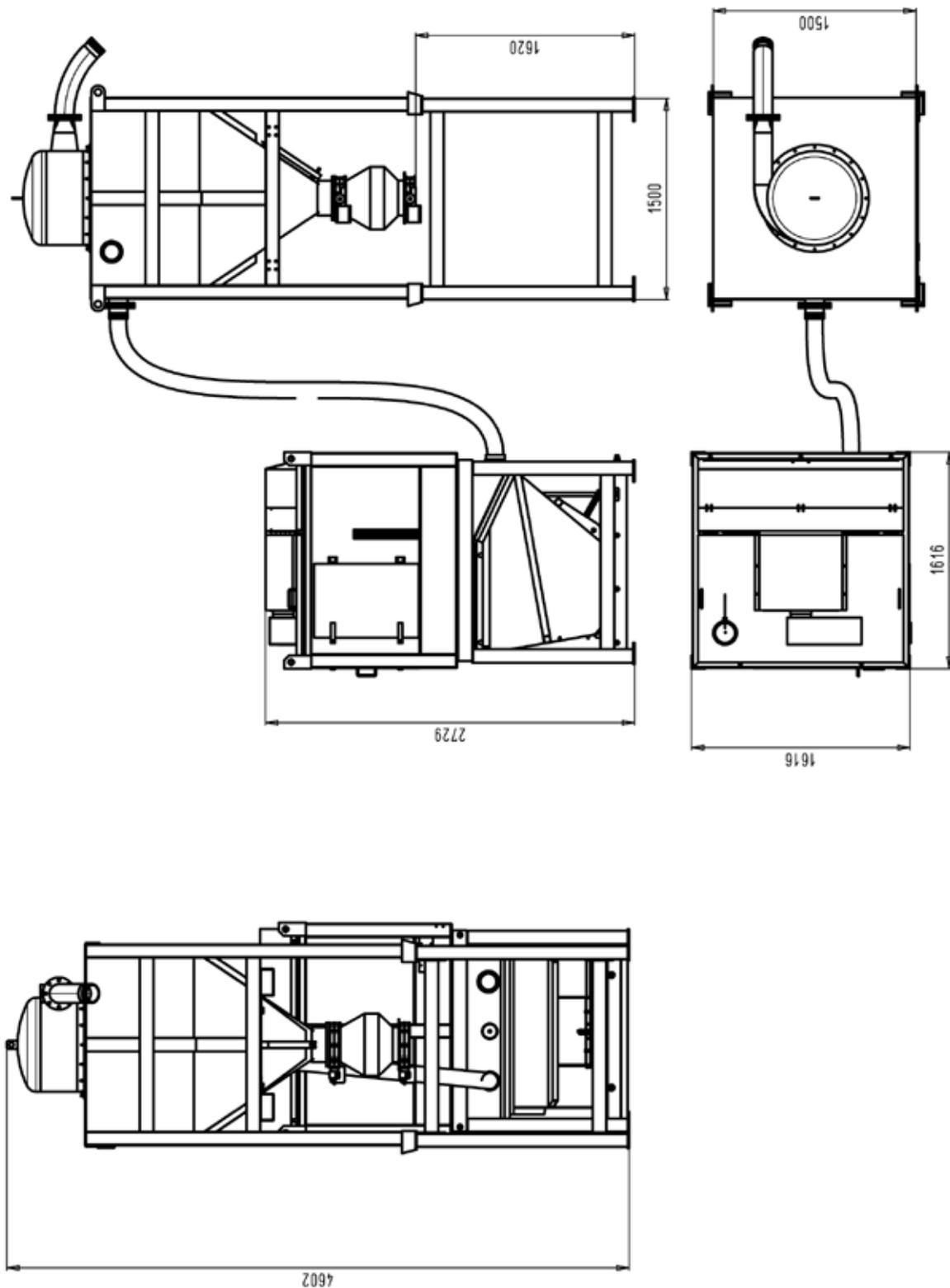
TECHNICAL DATA		AC30 CFA	AC37 CFA	AC37AV CFA	AC45AV CFA
Power	kW - HP	30 - 40	37 - 50	37 - 50	45 - 60
Max Vacuum	mmH <sup>2</sup> O	4.600	5.100	7.000	6.200
Airflow rate	m <sup>3</sup> /h	1.800	2.000	1.700	2.100
Noise level	dB(A)	<78	<78	<78	<78
Filter surface	m <sup>3</sup>	16	16	16	16
Inlet connection	Ø	100/125	100/125	100/125	100/125
Container	l	1.000	1.000	1.000	1.000
Weight	kg	2.600	2.600	2.650	2.700
Overall size	m	1,6 x 1,6 x 2,8			

The efficiency of the vacuum needs the use of specific and suitable accessories according to the use

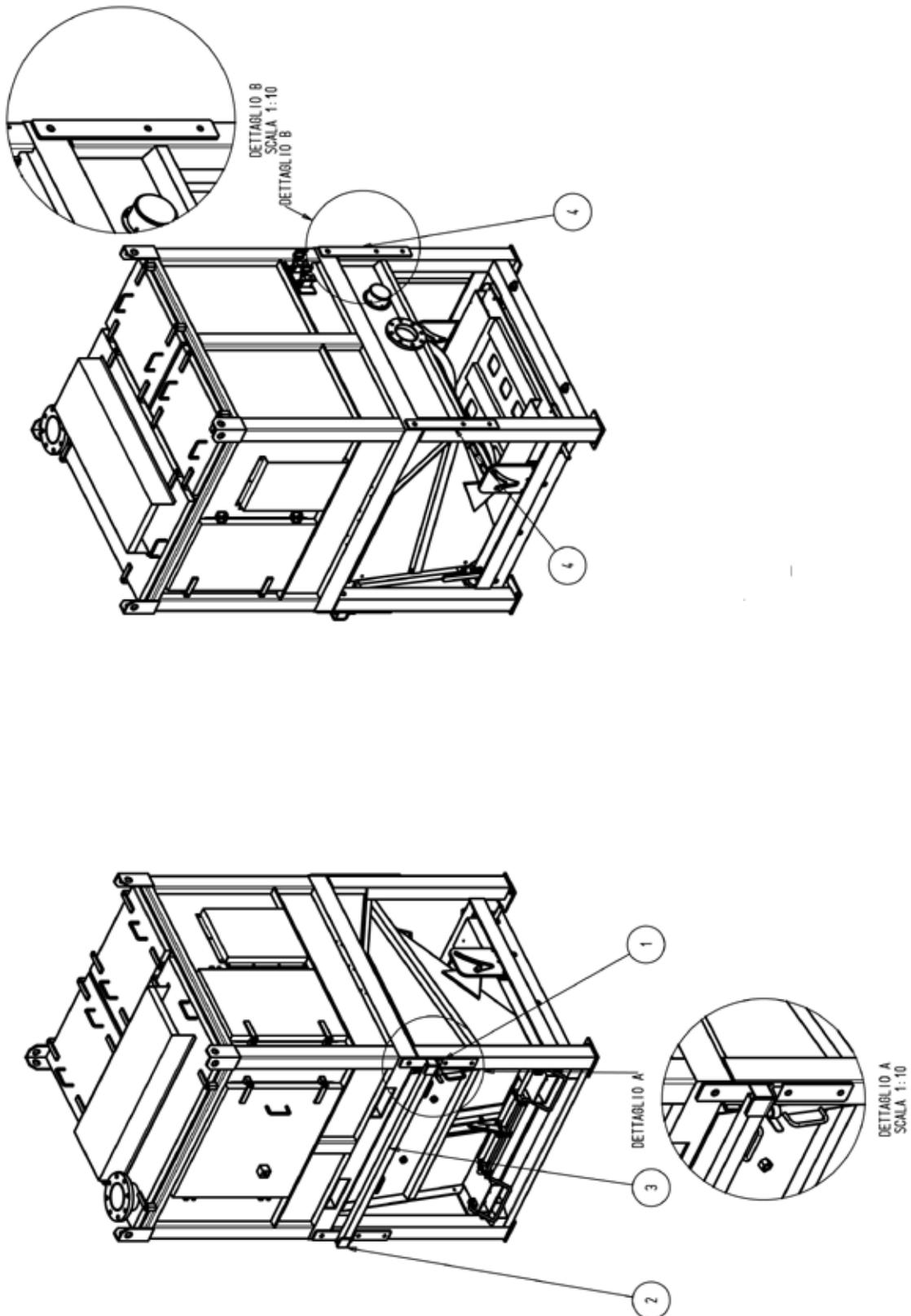
## High Power Vacuum - Compact with pull out container



## High Power Vacuum - Application example: Compact CFA with Cyclone-Separator



## High Power Vacuum - Compact CFA - Kit for crane lifting



## High Power Vacuum - COMPACT series mod. TR



Compact on hopper

Heavy duty Industrial vacuum cleaner for the suction of large quantities of powder or granular material. The vacuum cleaner can be used as a stationary unit or can be transported by a forklift or crane. The user is able to suck the material with a hose or connected to a pipeline directly in the big 1.300lt. hopper. This hopper can be discharged by manual or automatic discharge units also continuously with the suction. The Suction unit can be taken of and used transportable on the frame with the container that can be pulled out.

Mod. **AC (power in kW) CFA = AC (COMPACT)...**  
**TR (Container in Hopper version) AV – high vacuum**

P/N	Description
493200021	<b>AC30 TR</b> COMPACT 30 kW
493200022	<b>AC37 TR</b> COMPACT 37 kW
493200023	<b>AC37AV TR</b> COMPACT 37 kW high vacuum
493200025	<b>AC45AV TR</b> COMPACT 45 kW high vacuum
493200032	<b>AC37AV TR Z22</b> COMPACT 37 kW high vacuum <b>ATEX Z22*</b>
4932000xx	<b>AC45AV TR Z22</b> COMPACT 45 kW high vacuum <b>ATEX Z22*</b>

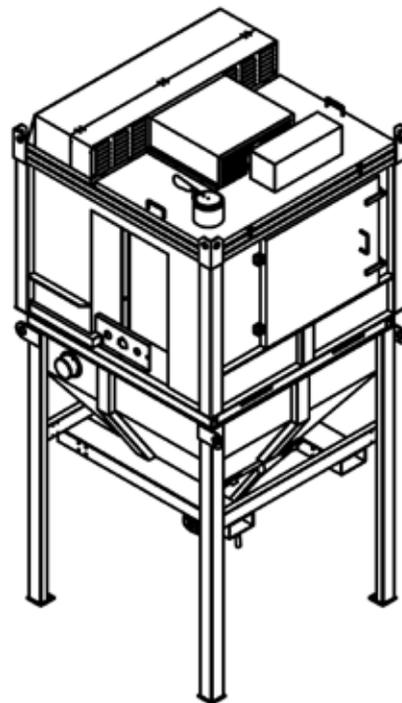
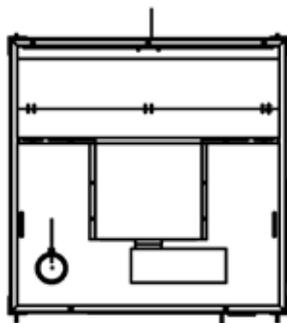
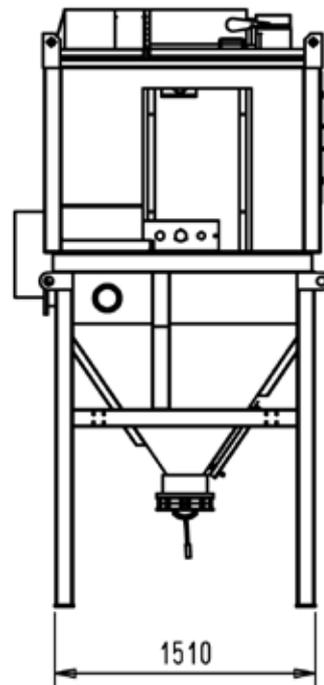
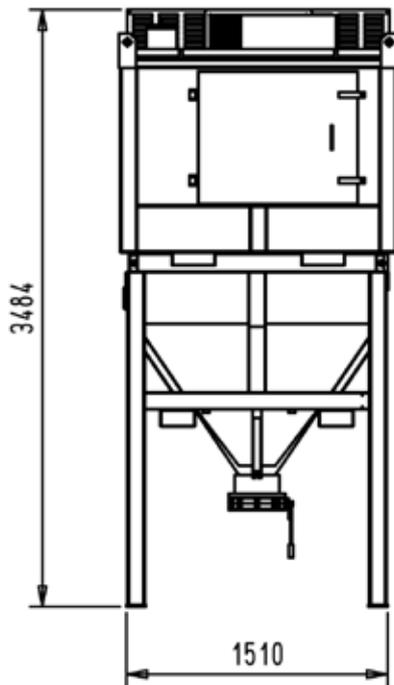
\*Machine following the European ATEX Zone 22 application standard IIBD as ATEX 94/9/CE

TECHNICAL DATA		AC30 TR	AC37 TR	AC37AV TR	AC45AV TR
Power	kW - HP	30 - 40	37 - 50	37 - 50	45 - 60
Max Vacuum	mmH <sup>2</sup> O	4.600	5.100	7.000	6.200
Airflow rate	m <sup>3</sup> /h	1.800	2.000	1.700	2.100
Noise level	dB(A)	<78	<78	<78	<78
Filter surface	m <sup>2</sup>	16	16	16	16
Inlet connection	Ø	100/125	100/125	100/125	100/125
Container	l	1.300	1.300	1.300	1.300
Weight	kg	2.300	2.346	2.346	2.408
Overall size	m	1,6 x 1,6 x 3,5			

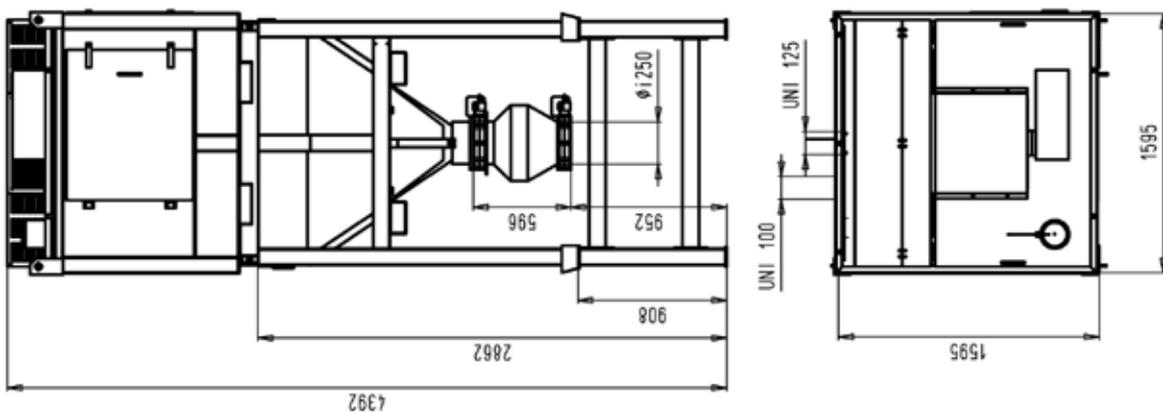
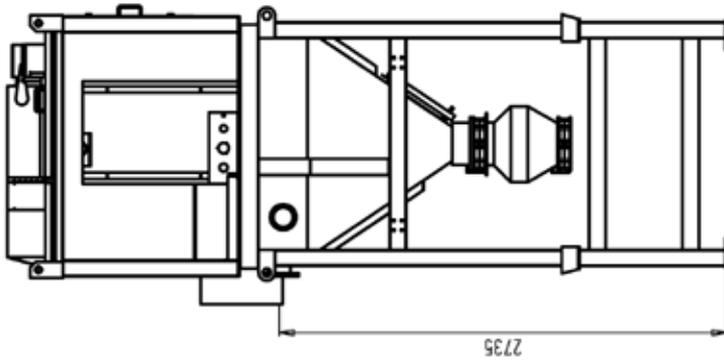
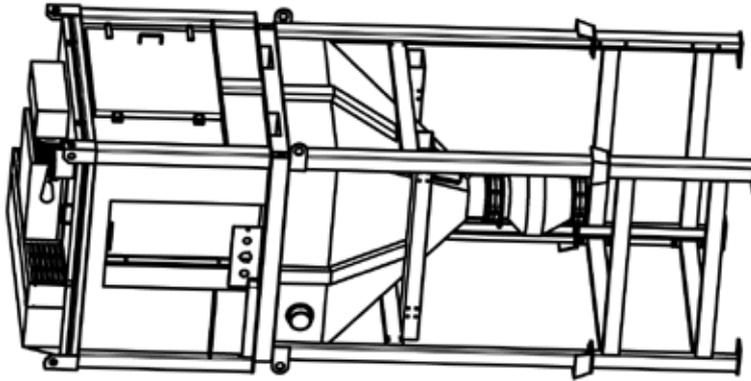
The efficiency of the vacuum needs the use of specific and suitable accessories according to the use

## High Power Vacuum - Compact on hopper

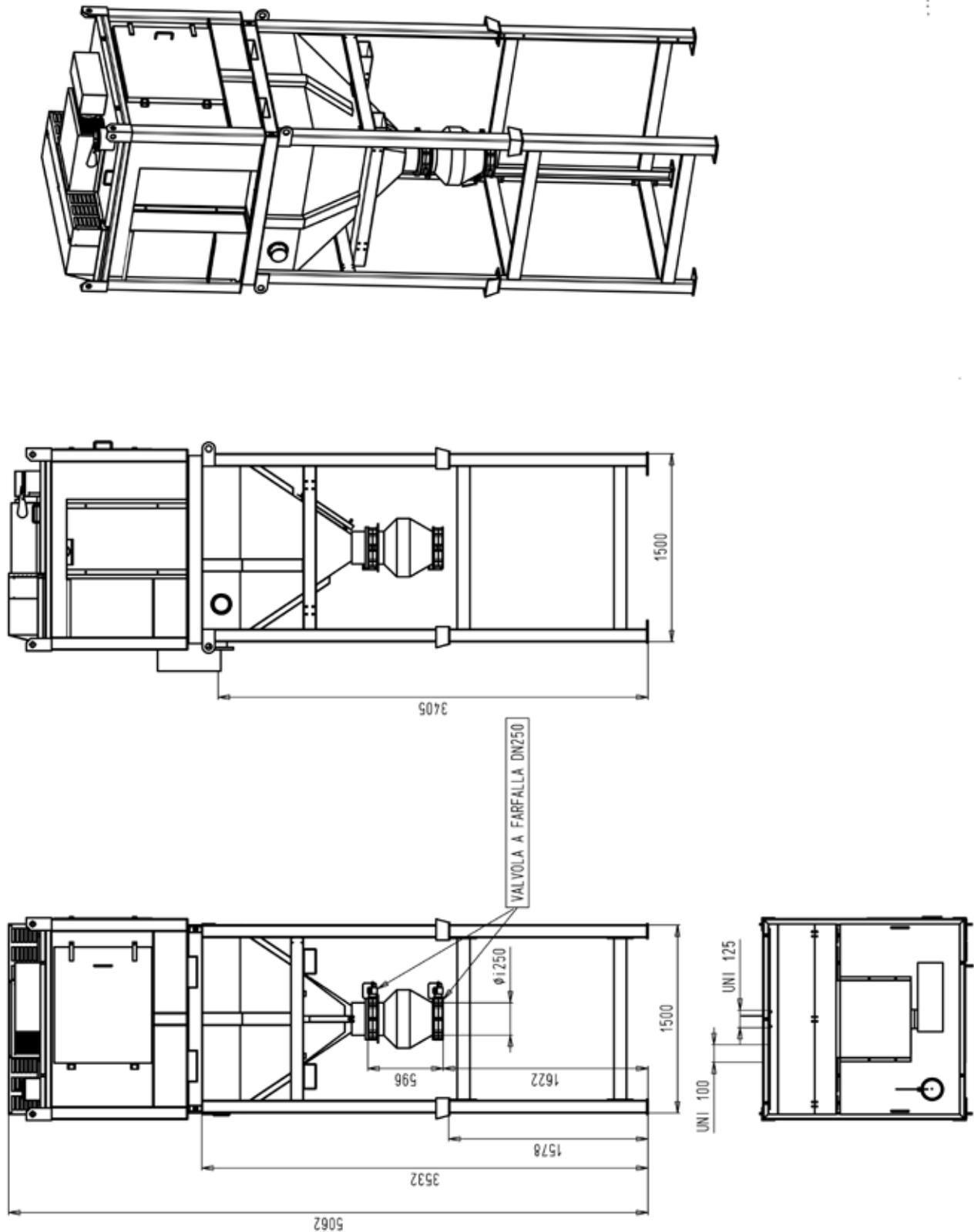
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## High Power Vacuum - Compact on hopper and low Big Bag frame



## High Power Vacuum - Compact on hopper with high Big Bag frame



## High Power Vacuum - COMPACT series - ACCESSORIES

P/N	Description
<b>Z8 391082</b>	Plug
<b>Z8 391083</b>	1 m Electric cable Neoprene 4G25 (ideal is 10 metres)
<b>ZA5600002</b>	Separator level sensor kit (incl. level sensor, 9 m cable, plug, socket)
<b>COMPACT - CFA model</b>	
<b>4983000673</b>	Rollout container - 1300 litres
<b>4983000730</b>	ATEX Rollout container - 1300 litres
<b>ZA5600005</b>	Kit reinforcement for crane lifting Compact CFA
<b>COMPACT - TR model</b>	
<b>ZA8400007</b>	Butterfly valve D250
<b>ZA8400003</b>	Manual lever for butterfly valve
<b>ZA8400089</b>	Pneumatic actuator for butterfly valve
<b>ZA8220003</b>	Continuous butterfly discharge D250
<b>Z8 39297</b>	Remote cable control
<b>ZA8360114</b>	
<b>ZA8360114</b>	Hopper support 900 mm
<b>ZA8360108</b>	Hopper support 1.500 mm
<b>4956000430</b>	Big Bag kit short for 900 mm for hopper support and single valve
<b>4956000431</b>	Big Bag kit long for 1.500 mm for hopper support and continuous butterfly valve discharge

*The efficiency of the vacuum needs the use of specific and suitable accessories according to the use*

## High Power Vacuum - COMPACT series - SPARE PARTS

P/N	Quantity	Description
<b>ZA8170099</b>	24	Double sleeve filter Cat. M T452 Novates*
<b>4981700897#</b>	24	Antistatic M double filter bag TW 452 SC*
<b>4981700859</b>	24	Double sleeve Firetes Spirovac*
<b>ZA8400064</b>	24	Conical spring for double filter bag
<b>ZA8400040</b>	24	Safety clip
<b>ZA8400036</b>	24	Band for filter bag 110 - 130
<b>ZA8170051</b>	10 m	Dutral sealing gasket 20x20
<b>ZA8170053</b>	15 m	Dutral sealing gasket 40x20
<b>ZA8400123</b>	1	Cartridge security filter
<b>Z8 17231</b>	0,5 m	Security filter seal
<b>ZA8460004</b>	5	Trasmission belt
<b>ZA8170057</b>	9	Vulkollan gasket
<b>4084001242</b>	1	Oil for vacuum pump (5 liters)
<b>4083901353</b>	1	Level control 24vac IP66 1/2D
<b>4981400692</b>	1	Flange for level control 2 1/2 F
<b>4089100558</b>	1	Kit gasket Compact (includes P/N ZA8170051, ZA8170053, Z8 17231, ZA8170057))
<b>4089100559</b>	1	Kit filter change Compact (includes P/N 4981700897, ZA8400064, ZA8400040, ZA8400036, ZA8170051, ZA8170053, ZA8400123, Z8 17231, ZA8170057)

\*Nilfisk recommend to change gaskets (i.e. 4089100558) with every filter change

## High Power Vacuum - SEPARATING HOPPER



Preseparating hopper  
(tube and accessories excluded)

Preseparator under vacuum by way of HPV COMPACT Suction units. Constructed of sheet steel of large thickness, quadrangular in form with a pyramid shaped hopper. Discharge through valve, to chose separately.

There is incorporated a system of separation that detains the majority of recovered material and allows only to a little amount of finer material to pass through the suction unit. A level sensor (on request) arrests the machine when the maximum level has been reached. The preseparator is transportable by way of a fork-lifter or crane.

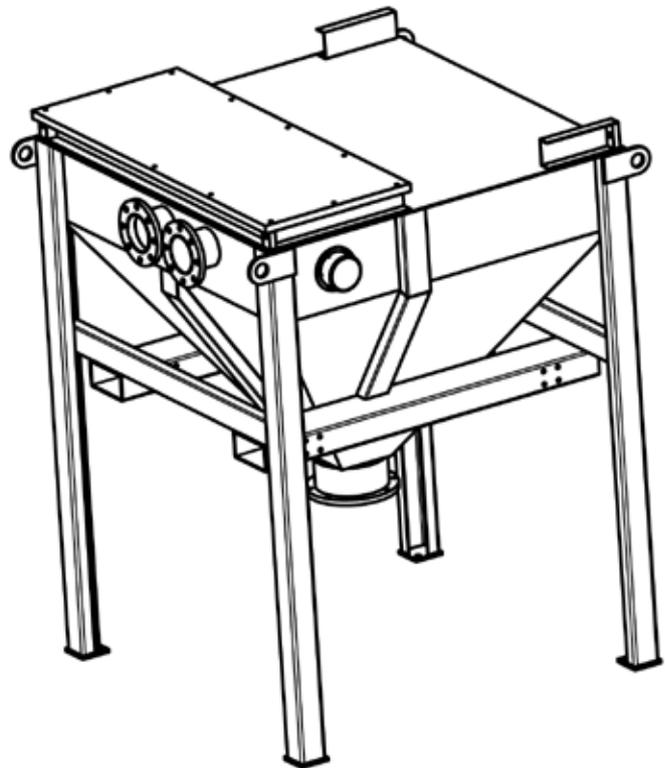
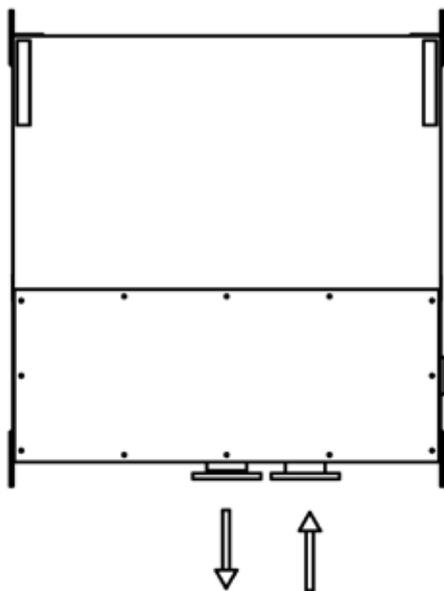
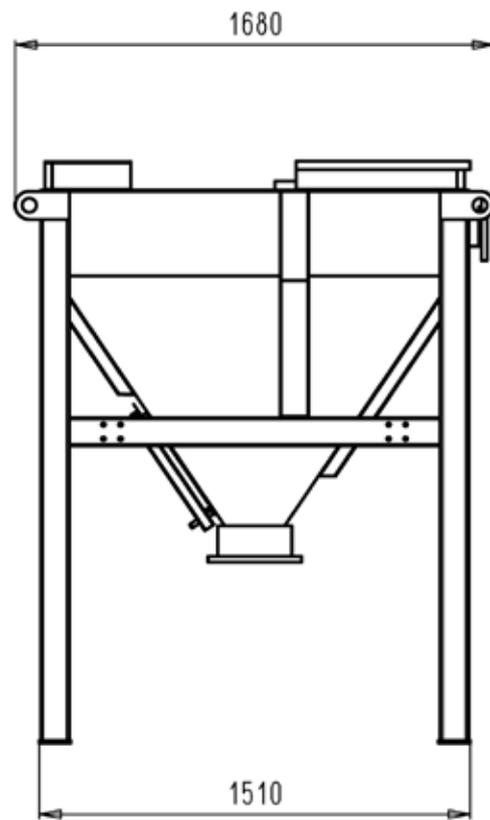
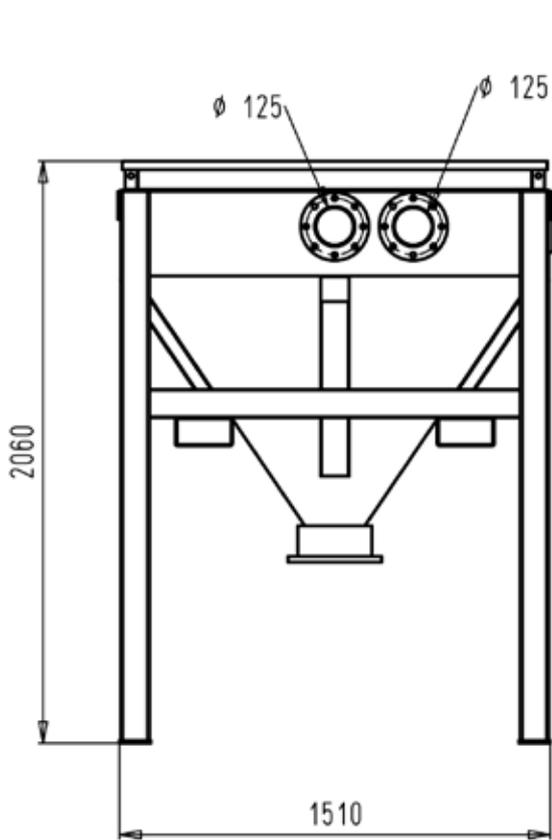
TECHNICAL DATA		ZA2 TRA S 1 3	ZA2 TRA S 2
Capacity	m <sup>3</sup>	1	2
Overall size	m	1,5 x 1,5 x 1,95	1,5 x 1,5 x 2,60
Weight	kg	ca. 580	ca. 720
Inlet	Ø	100	100
Connection	Ø	125	125
Outlet	Ø	250	250

Note: level indicator and discharge not included

ACCESSORIES		
P/N	Quantity	Description
ZA7210128	1	Flanged sferic connection D125
ZA7210123	1	Flanged sferic connection D100
ZA7210129	1	Female hose connection D125
ZA7210124	1	Female hose connection D100
ZA7240032	1	Antistatic hose 5m D125
ZA8400007	1	Butterfly valve D250
ZA8400003	1	Manual lever for butterfly valve
ZA8400089	1	Pneumatic actuator for butterfly valve
ZA5600002	1	Separator level sensor kit
ZA8360018	1	Cover for hopper without cyclone

The efficiency of the vacuum needs the use of specific and suitable accessories according to the use

## High Power Vacuum - Separating hopper



## High Power Vacuum - CYCLONIC HEAD PRESEPARATOR



Cyclonic head preseparator

Preseparator under vacuum by way of HPV COMPACT / MULTIVAC unit. Constructed of sheet steel of large thickness, quadrangular in form with a pyramid shaped hopper, Discharge through valve, to chose separately. There is a cyclonic system of separation that detains the material. A level sensor (on request) arrests the machine when the maximum level has been reached. The preseparator is transportable by way of a fork-lifter or crane.

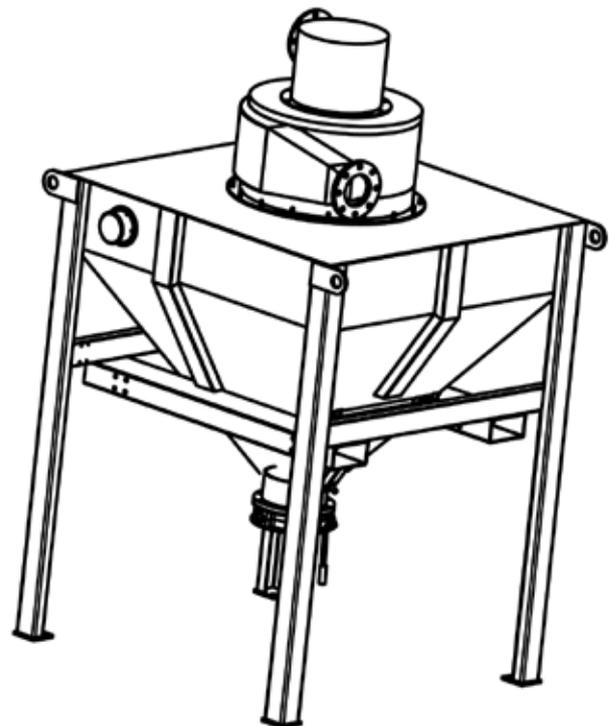
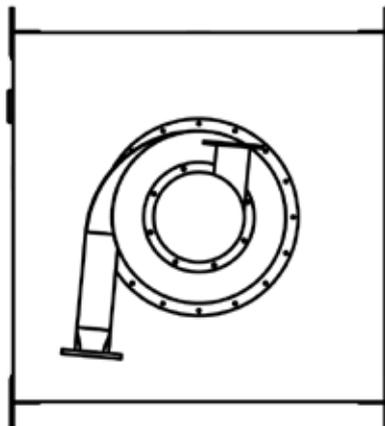
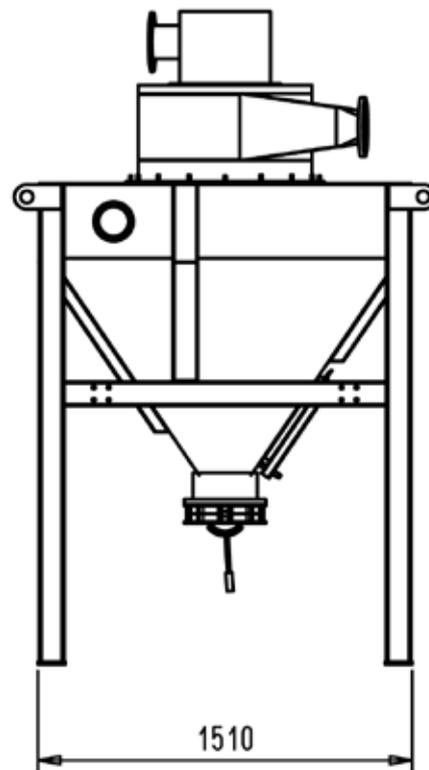
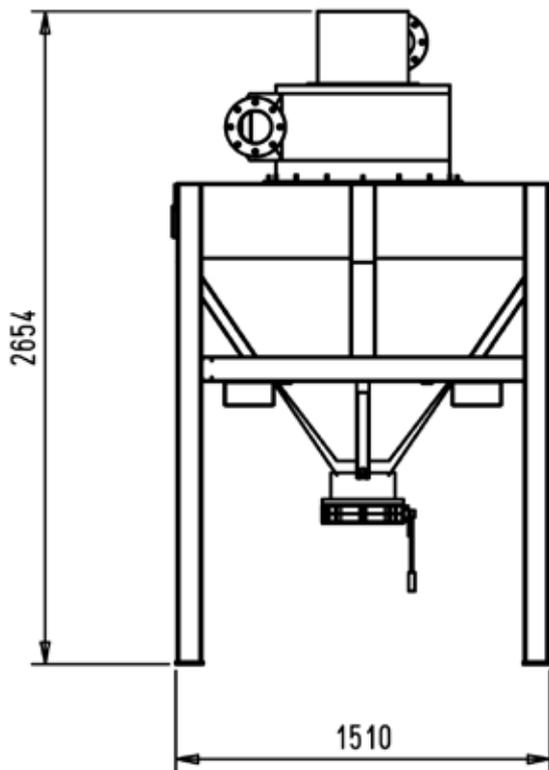
TECHNICAL DATA		ZA2 TRASC1 3	ZA2 TRASC2
Capacity	m <sup>3</sup>	1	2
Overall size	m	1,5 x 1,5 x 2,40	1,5 x 1,5 x 3,00
Weight	kg	ca. 830	ca. 970
Inlet	Ø	100	100
Connection	Ø	125	125
Outlet	Ø	250	250

Note: level indicator and discharge not included

ACCESSORIES		
P/N	Quantity	Description
<b>ZA7210128</b>	1	Flanged sferic connection D125
<b>ZA7210123</b>	1	Flanged sferic connection D100
<b>ZA7210129</b>	1	Female hose connection D125
<b>ZA7210124</b>	1	Female hose connection D100
<b>ZA7240032</b>	1	Antistatic hose 5m D125
<b>ZA8400007</b>	1	Butterfly valve D250
<b>ZA8400003</b>	1	Manual lever for butterfly valve
<b>ZA8400089</b>	1	Pneumatic actuator for butterfly valve
<b>ZA5600002</b>	1	Separator level sensor kit

The efficiency of the vacuum needs the use of specific and suitable accessories according to the use

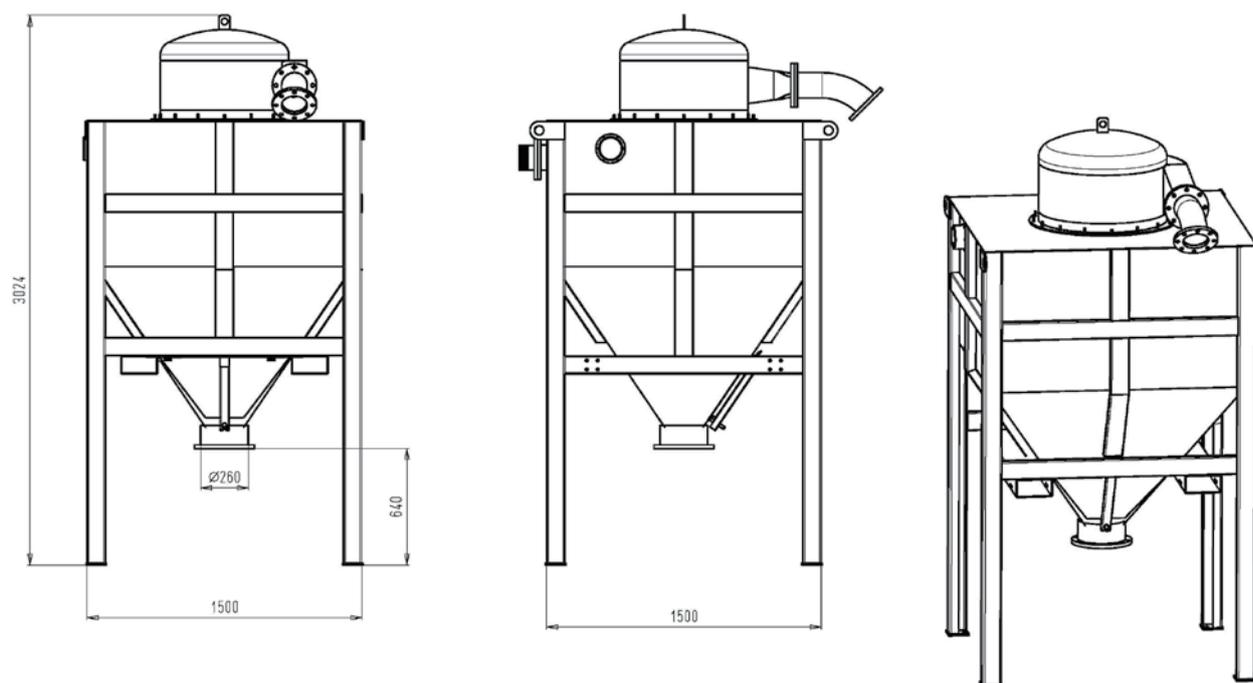
## High Power Vacuum - Separating hopper 1,3 m<sup>3</sup> with cyclonic head



*Discharge valve to chose optionally*

## High Power Vacuum - Separating hopper 2,0 m<sup>3</sup> with cyclonic head

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*Discharge valve to chose optionally*

## High Power Vacuum - BIG-BAG HOPPER FRAME



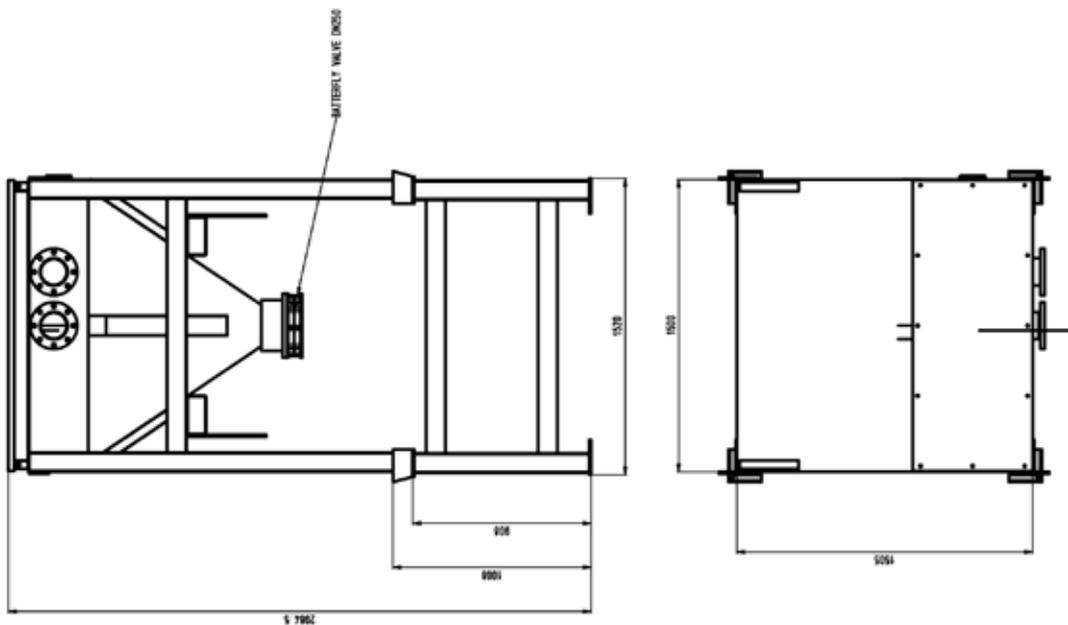
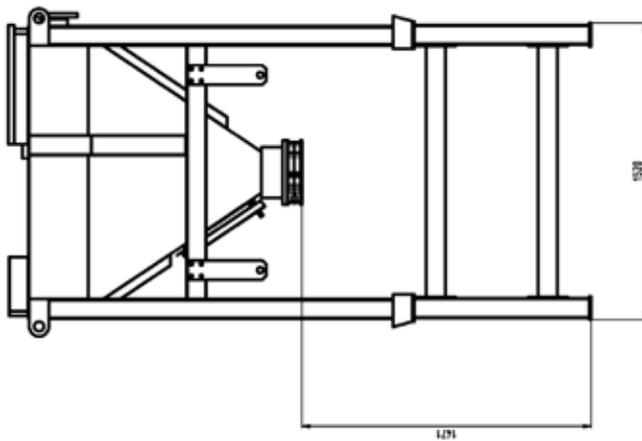
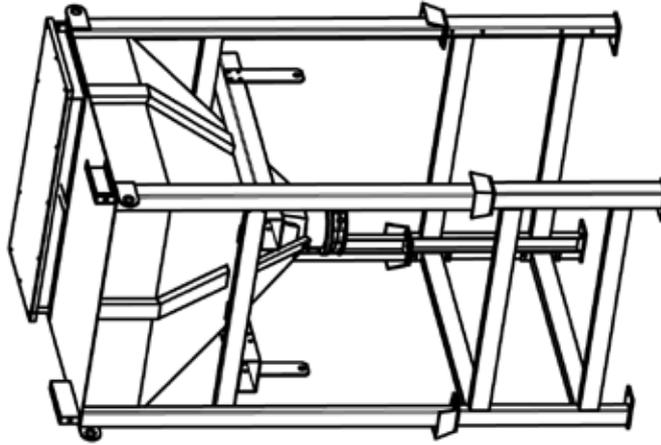
*Preseparating hopper  
for Big-Bag connection*

Strong hopper frame useful for rising the distance of the high power vac or hopper from ground.  
Connection of the BIG BAG Kit or different type of discharge systems is possible.

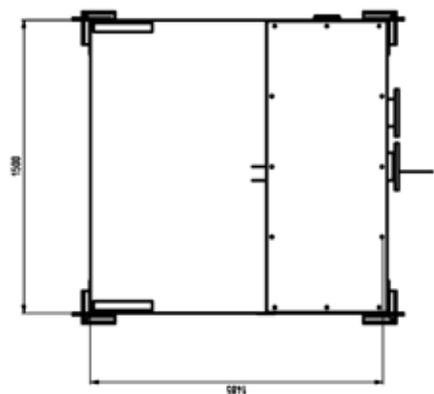
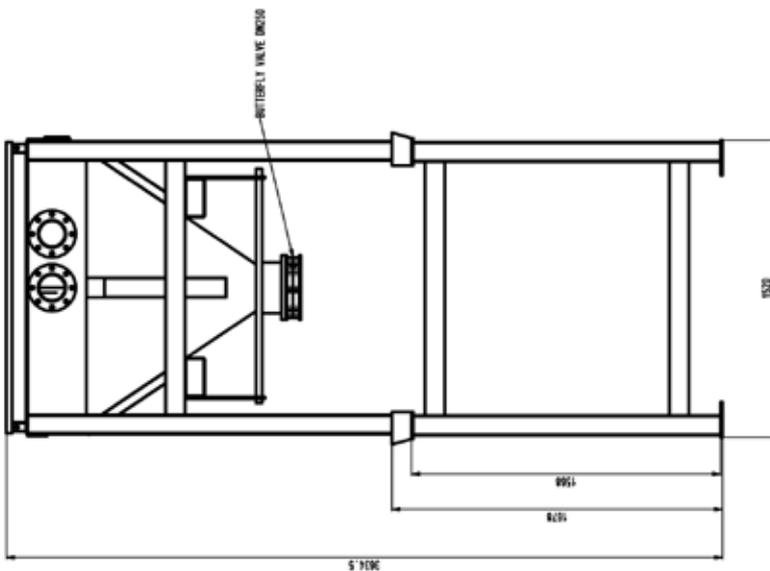
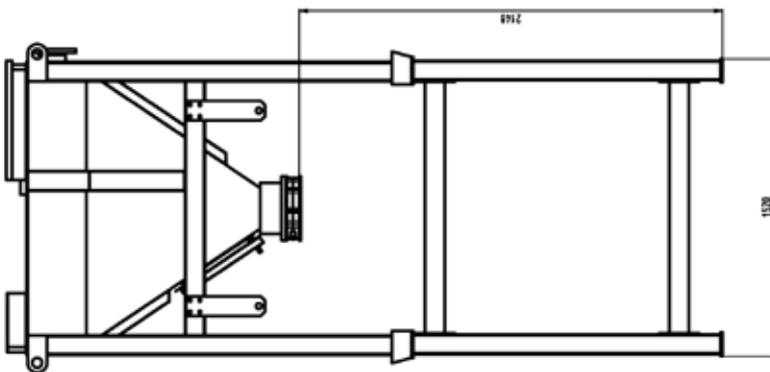
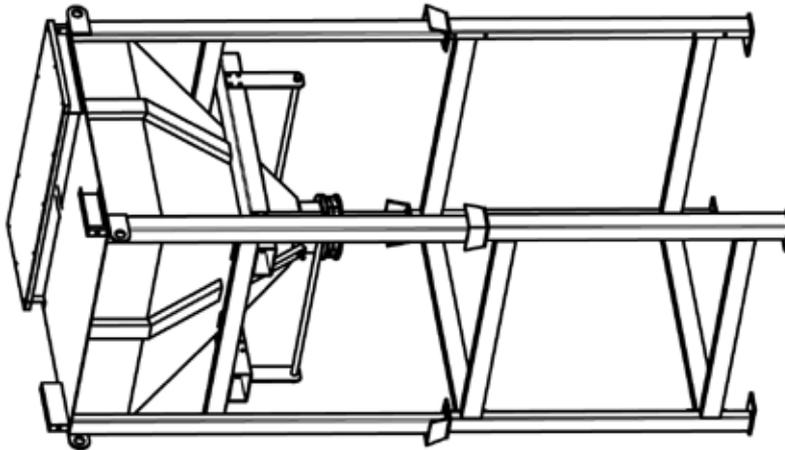
ACCESSORIES		
P/N	Quantity	Description
<b>ZA8360108</b>	1	Hopper support 1500 mm
<b>ZA8360114</b>	1	Hopper support 900 mm
<b>4956000431</b>	1	Kit Big Bag for hopper support 1.500 mm continuous valve
<b>4956000430</b>	1	Kit Big Bag for hopper support 900 mm single valve

*The efficiency of the vacuum needs the use of specific and suitable accessories according to the use*

### High Power Vacuum - Dimensions (ZA836 0114)



## High Power Vacuum - Dimensions (ZA836 0108)



## High Power Vacuum - PRESEPARATOR WITH BOTTOM DISCHARGE



*Preseparating with bottom discharge*

Preseparator under vacuum by means of the HPV COMPACT unit. Constructed of the sheet steel of large thickness, quadrangular, with bottom discharging system. Provided with a high grade cyclonic separation system which detains the majority of recovered material and hence passes to the suction unit only a little amount of the finer material. A level sensor (on request) arrests the machine when the maximum level has been reached. The preseparator is transportable by fork-lifter or crane.

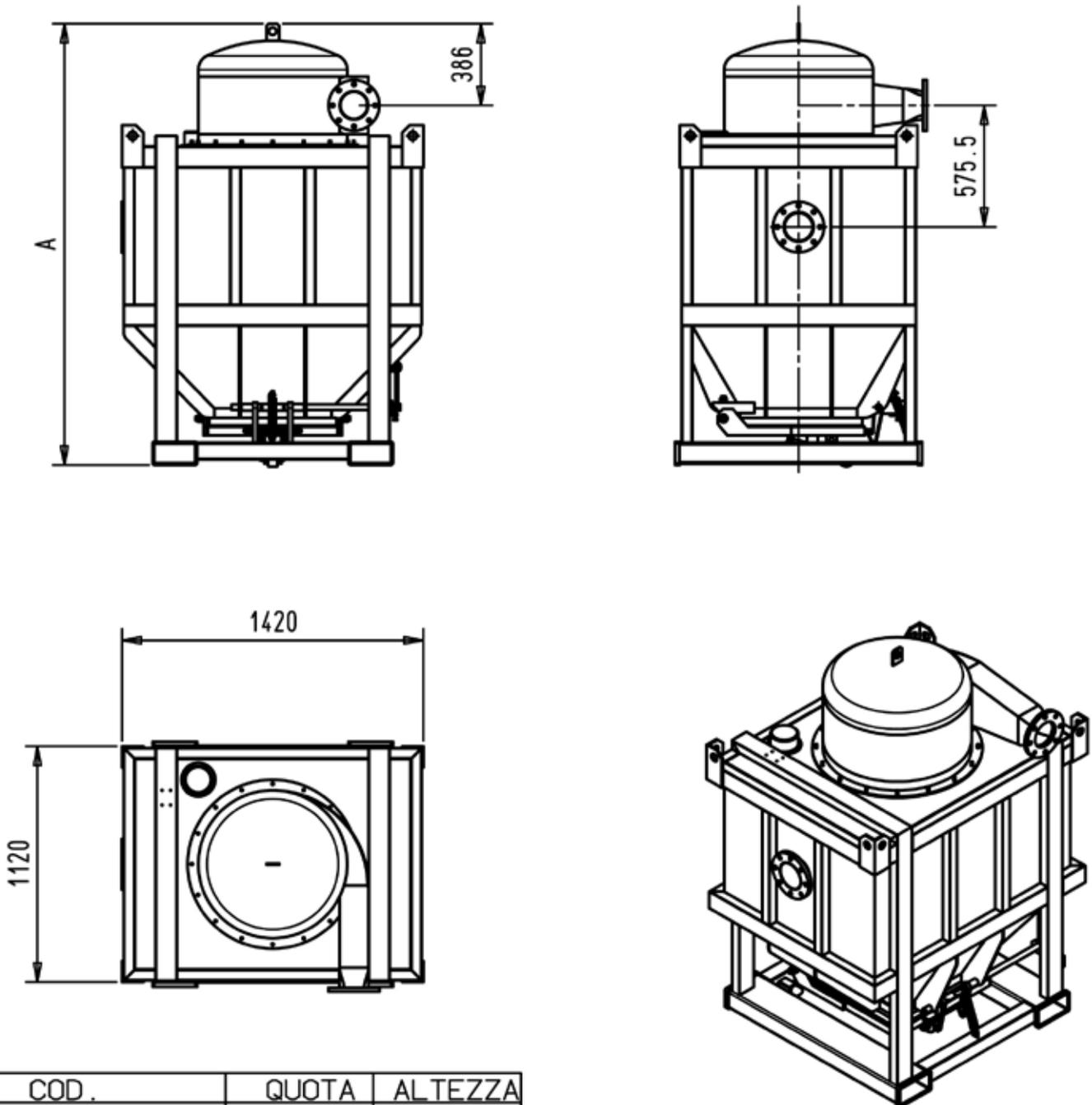
TECHNICAL DATA		ZA2 CONSF1 3	ZA2 CONSF2
Capacity	m <sup>3</sup>	1	2
Overall size	m	1,2 x 1,43 x 1,80	1,2 x 1,43 x 2,30
Weight	kg	ca. 700	ca. 850
Inlet	Ø	125	125
Connection	Ø	125	125
Outlet	Ø	Bottom	Bottom

*Note: level indicator not included*

ACCESSORIES		
P/N	Quantity	Description
ZA7210128	1	Flanged sferic connection D125
ZA7210123	1	Flanged sferic connection D100
ZA7210129	1	Female hose connection D125
ZA7210124	1	Female hose connection D100
ZA7240032	1	Antistatic hose 5m D125
ZA5600002	1	Separator level sensor kit

*The efficiency of the vacuum needs the use of specific and suitable accessories according to the use*

### High Power Vacuum - Dimensions preseparator with bottom discharge 1,3 - 2 m<sup>3</sup>



COD.	QUOTA	ALTEZZA
A2CONSF1.3	A	2088
A2CONSF2	A	2383

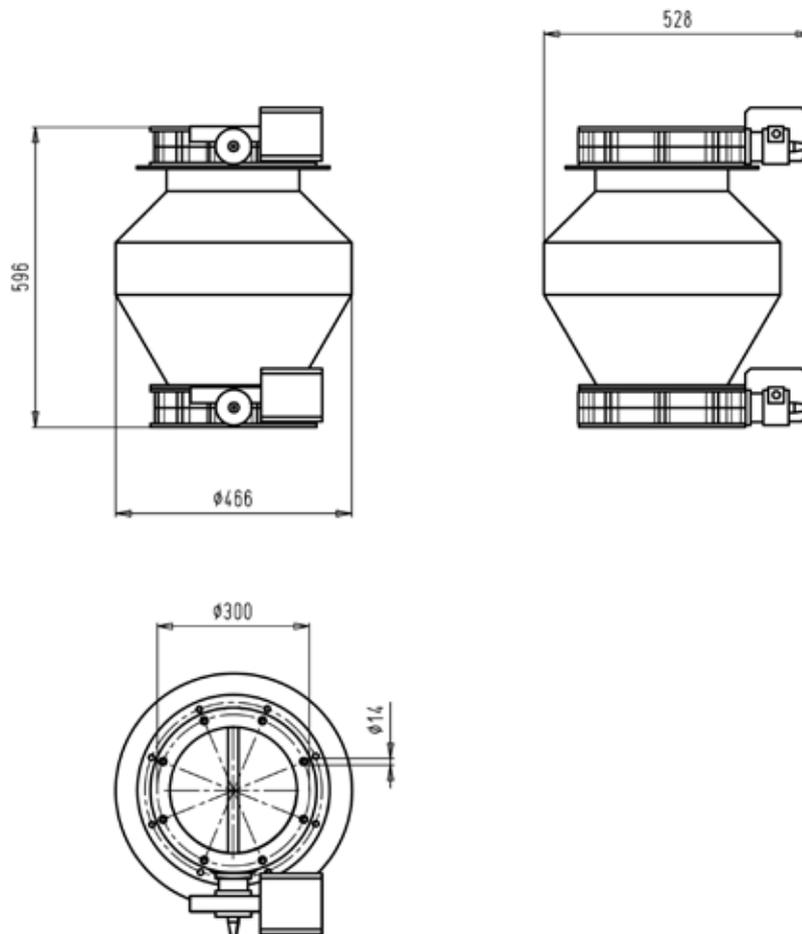
## High Power Vacuum - CONTINUOUS DISCHARGING UNIT



*Continuous discharging units  
with butterfly valve*

Realized to effectuate continual discharge of the collected material in the hopper. Permits the discharge of the material simultaneously with its collection by the spirovac® unit. It is composed of two motorised valves that work in an alternating fashion driven and regulated by means of an electronic board. The discharging unit is supplied complete with electrical command box.

P/N	Description
<b>ZA8220003</b>	Continuous discharging unit with butterfly valves



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## High Power Vacuum - ACCESSORIES

Description		Ø	P/N
	Fludified nozzle	50	ZA7210024
		70	ZA7210026
		80	ZA7210023
		100	ZA7210019
	Aluminium bent nozzle	70	Z7 22169
		100	Z7 22190
	Iron nozzle	50	Z7 21026
		70	Z7 21028
	Floor nozzle	50	Z7 22147
		70	Z7 22092
	Handgrip	50	Z7 22025
		70	Z7 22091

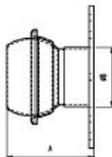
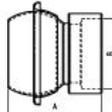
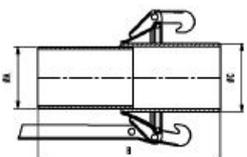
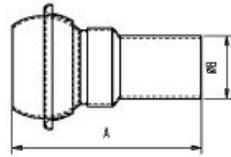
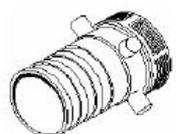
*The efficiency of the vacuum needs the use of specific and suitable accessories according to the use*

## High Power Vacuum - ACCESSORIES

Description	Ø	P/N
 Antistatic hose 5 m	50	ZA7240005
	70	ZA7240015
	80	ZA7240001
	100	ZA7240011
	125	ZA7240032
Antistatic hose 10 m	50	ZA7240003
	70	ZA7240018
	80	ZA7240013
	100	ZA7240042
	125	ZA7240034
Antistatic reinforced hose 5 m	80	ZA7240089
	100	ZA7240090
Antistatic reinforced hose 10 m	80	ZA7240091
	100	ZA7240092
Accessories connection - hose D70	80-70	Z8 32050
Accessories connection - hose D80	70-80	ZA7210109

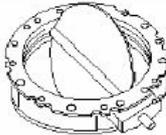
*The efficiency of the vacuum needs the use of specific and suitable accessories according to the use*

## High Power Vacuum - ACCESSORIES

Description	Ø	P/N
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	100	ZA7210123
	125	ZA7210128
	80	ZA7210131
	100	ZA7210132
	125	ZA7210133
	100	ZA7210134
	80	ZA7210122
	100	ZA7210124
	100 - 70	4972100089
	125	ZA7210129
	80	ZA7210125
	100	ZA7210126
	125	ZA7210130
	80	ZA7210080
	100	ZA7210077
	125	ZA7210078
	80	ZA7220002
	100	ZA7220003
	125	ZA7220004
	80-70	ZA7220006
	100-70	ZA7220007
	100-80	ZA7220008
	125-100	ZA7220009
	150-100	ZA7220010
	150-125	ZA7220011

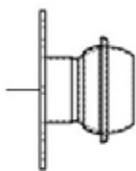
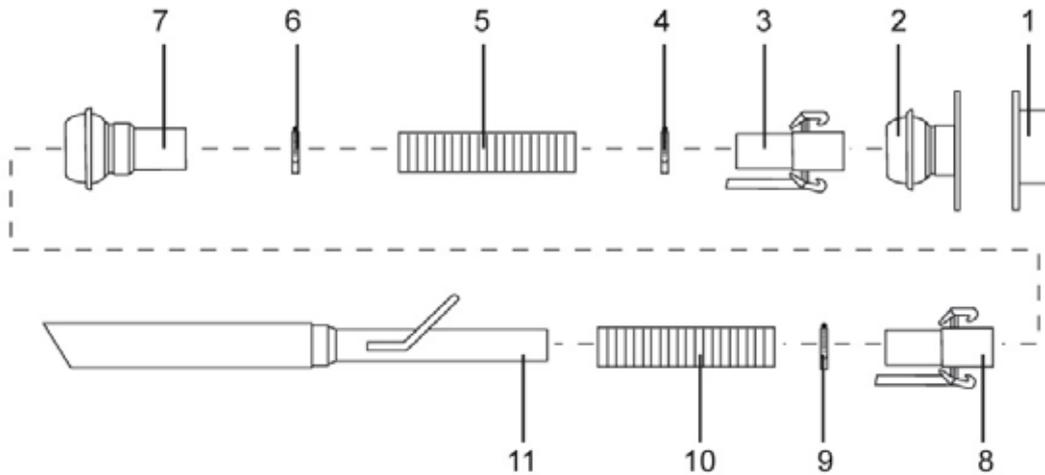
*The efficiency of the vacuum needs the use of specific and suitable accessories according to the use*

## High Power Vacuum - ACCESSORIES

Description	Ø	P/N
	80	ZA7800061
	100	ZA7800058
	125	ZA7800059
	150	ZA7800060
	80-50	ZA7210042
	100-50	ZA7210038
	100-80	ZA7210039
	125-100	ZA7210040
	150-125	ZA7210041
	50	ZA7210046
	80	ZA7210053
	100	ZA7210047
	125	ZA7210049
	150	ZA7210051
	250	ZA8400145
	250	ZA8400007
	250	ZA8400039
	-	ZA8400003

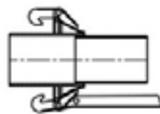
The efficiency of the vacuum needs the use of specific and suitable accessories according to the use

## High Power Vacuum - Connection accessories for hoses (to machine, hose-to-hose and to accessory)



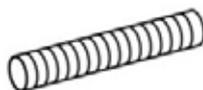
CODICE CODE	ATTACCO SFERA FLANGIATO SPHERIC CONNECTION WITH FLANGE
ZA7210121	∅ 80
ZA7210123	∅ 100
ZA7210128	∅ 125

***rif. 2***



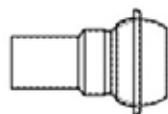
CODICE CODE	RACCORDO FEMMINA PORTATUBO FEMALE HOSE CONNECTION
ZA7210122	∅ 80
ZA7210124	∅ 100
ZA7210129	∅ 125

***rif. 3-8***



CODICE CODE	TUBO / LUNGHEZZA HOSE / LENGHT
ZA7240001	∅ 80 / 5 Mt.
ZA7240013	∅ 80 / 10 Mt.
ZA7240011	∅100 / 5 Mt.
ZA7240042	∅100 / 10 Mt.
ZA7240032	∅125 / 5 Mt.
ZA7240034	∅125 / 10 Mt.

***rif. 5-10***



CODICE CODE	ATTACCO SFERA PORTATUBO MALE HOSE CONNECTION
ZA7210125	∅ 80
ZA7210126	∅ 100
ZA7210130	∅ 125

***rif. 7***

## High Power Vacuum - APPLICATIONS and ADVANTAGES



### APPLICATIONS:

- **COMPACT WITH REMOVABLE CONTAINER:** this model includes also the automatic filter cleaning system. It is commonly used to collect large quantities of dusty and/or granular material escaped from mills or silos. After collecting the material, the container can be removed by a forklift and discharged in the collection area by simply pulling a lever.
- **COMPACT WITH HOPPER:** the collected material can be discharged into customer system, BIG BAG or other container.

### ADVANTAGES

- Equipped with a high vacuum volumetric lobe blower to recover material from underground corridors, pits, narrow passages and areas difficult to reach. A single person can keep the area perfectly cleaned all year through.
- Easy recovery of large quantities of dust deposited on the building framework. Flexible pipes allow to clean even the remotest areas, such as the overhead crane frame or underground and aerial spots.
- Lifting and transfer of a Compact vacuum system by means of a overhead crane to reach and pick-up materials from far and inaccessible areas.
- Material recovery from the hopper mounted on a conveying system which introduces again the collected material into the working process. The hopper can be put under vacuum by any machine of the Compact range, whether it be close to the area or in a separate place.
- In case of sudden damage to installations with consequent material leakage, the high power vacuum help carry out extraordinary maintenance and recover escaped materials, with no need to stop the working process.







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