

INERTIAL CYCLONE & CYCLONE WITH COMPACTING SCREW 'CVC'

The CVC is an inertial cyclone made of painted sheet metal in which the dusty air enters tangentially and is separated from contamination and waste, which ends up directly in a hopper in which a compacting screw rotates by an energy-efficient gear motor.

This system is used to separate air and dust and to collect the waste, which is then recompacted and automatically ejected.

EMMEBI also makes customised cyclones for processing wood waste, plaster, cement, synthetic fibres, etc. etc. for capacities up to 25.000 m³/h





TECHNICAL DATA

Gear motor main voltage : 400 V - 50 Hz - 3F (400V - 60Hz - 3F)
Installed power : 0,75 kW (gear motor installed on compacting screw)

TYPE	HAIR CAPACITY NOMINAL
CVC 600	600 m3/h
CVC 800	800 m3/h
CVC 1000	1000 m3/h
CVC 1800	1800 m3/h
CVC 2400	2400 m3/h
CVC 3600	3600 m3/h
CVC 6000	6000 m3/h
CVC 8000	8000 m3/h
CVC 11000	11000 m3/h
CVC 15000	15000 m3/h

For thin particle → consider a greater volume

For bigger particle → consider a smaller volume

Air volume: 300-1000 m3/h **Dust Quantity:** 50 to 220 Kg/h **P drop:** 1200-2000Pa

min particle size separated at 50% μm 3-5

min particle size separated at 59% μm 10-20

INSTALLATION PROCEDURES

The Cyclone filter can indifferently work in a circuit in pressure or in depressure.

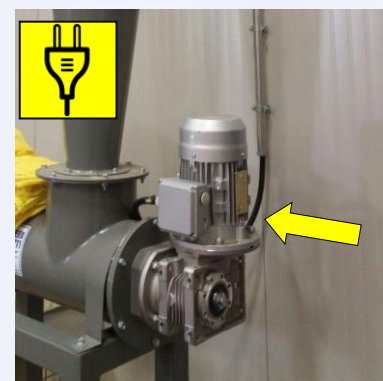
- 1 Connect the suction points to the filtering equipment.
The return pipe placed on the top of the cyclone should be equipped by a guillotine damper.
In bases of the regulation of this damper we can reduce the air return flow to the filter.



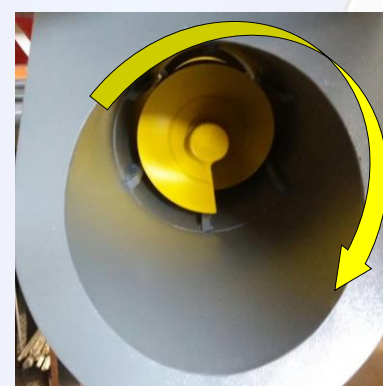
- 2 Connect the flanges to each other and to the building's grounding system to ensure operator safety and protect the electrical circuit.



- 3 Plug to the electricity the rotating gear motor



- 4 Check that the screw is running in the right direction.
A wrong rotation (opposite direction) may break the compacting screw



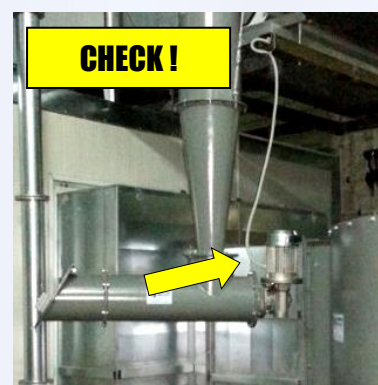


- 5 During the starting procedures, when the cyclone starts empty, it's necessary to create a plug with fabric or juta bag until the material that falls into the compacting screw creates itself a plug that ejects the fabric. This procedure is necessary for avoid the blowing of fabric and waste into the department.

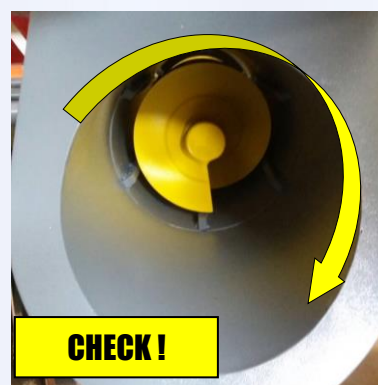


MAINTENANCE PROCEDURES

- 1 Periodically check the absorption of the gear motor



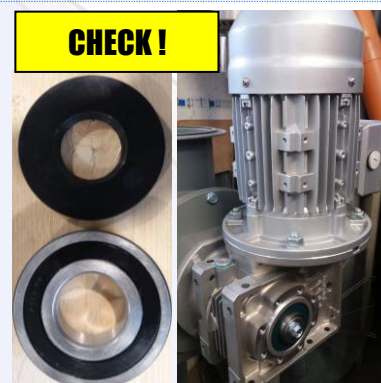
- 2 Periodically check the rotation of the screw





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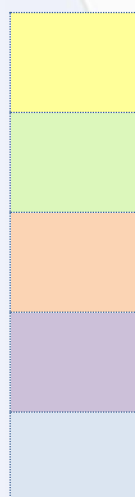
- 3 Check every six months the status of the ball bearings and running mechanisms





MAINTENANCE LIST

Spare part	Frequency of intervention					
	Weekly	Monthly	Every 3 months	Every 6 months	Every Year	Every 2 years
Gear Motor						
Iron Screw						



Check the status of the component

Change the component (advised)

Change the component (max time)

Grease

We advice to keep one piece or set in your storehouse

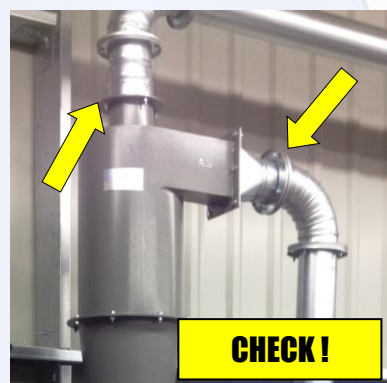


INTERVENTIONS

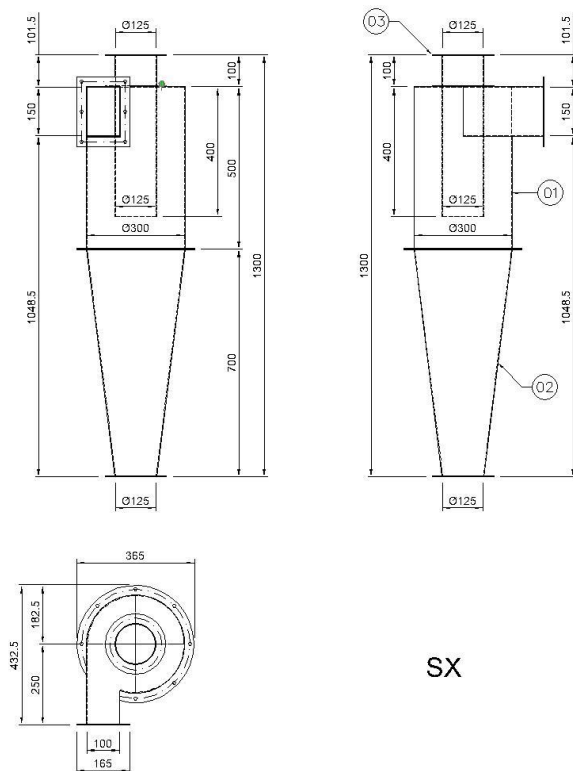
- 1 If the ball bearings are found worn replace them.
However the average working time is up to 20,000 hours.



- 2 If the compacting valve doesn't discharge the material, check that the air pipes are not blocked otherwise clean them. If the pipes are free, then close partially the air return pipe with guillotine.

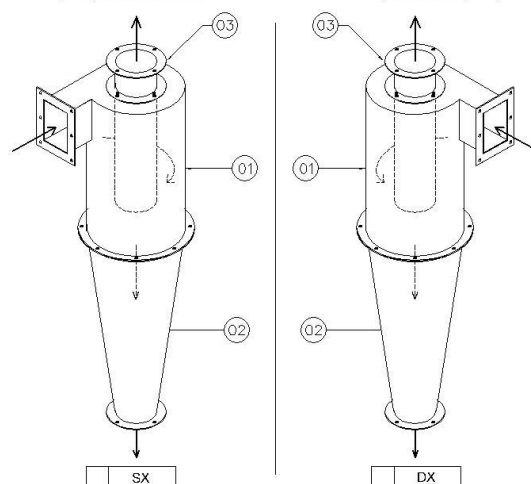


CVC ASSEMBLY DRAWING



SX

POS.	DESCRIZIONE	RIFERIMENTO		N. PEZZI
		DISEGNO N°	POS.	
1	CILINDRO	CV 600.1.0		1
2	CONO INFERIORE	CV 600.2.0		1
3	CILINDRO SUPERIORE	CV 600.3.0		1

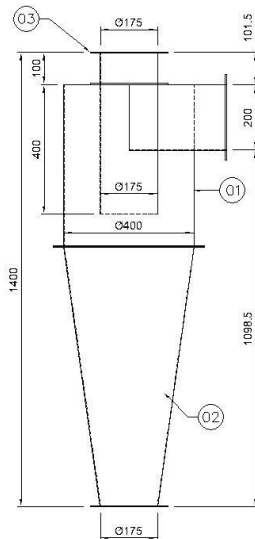
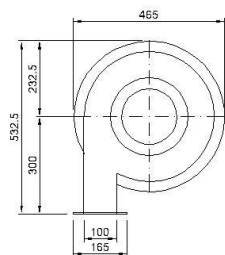
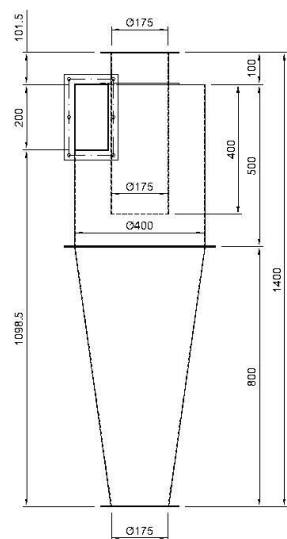


PESO : 19,00 Kg.

REV.	DATA	DESCRIZIONE			DISEGNATORE		CONTROLLATO		APPROVATO
APPARECCHIATURA:									
CICLONE									
DENOMINAZIONE:									
CV 600									
PROGETTO N°:					CV 600				
SCALA:		DATA:							
1:10		15/12/2011							
FILE DISEGNO N°:									
CV 600.0.0									
☐ Progetto ☐ Dettaglio ☐ Variante ☐ Integrale ☐ Revisione									

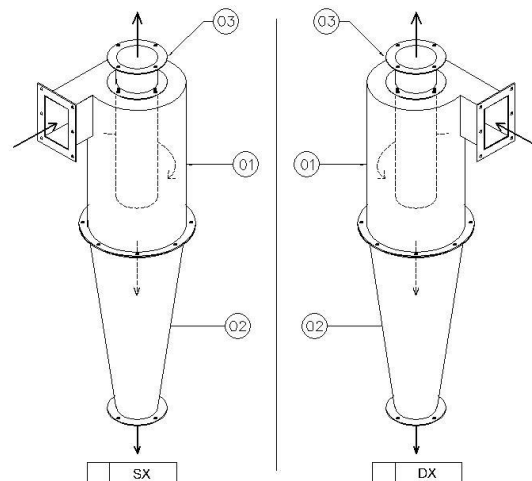


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SX

POS.	DESCRIZIONE	RIFERIMENTO	
		DISEGNO N°	N° PEZZI
1	CILINDRO	CV 1000.1.0	1
2	CONO INFERIORE	CV 1000.2.0	1
3	CILINDRO SUPERIORE	CV 1000.3.0	1



PESO : 27 Kg.

REV.	DATA	DESCRIZIONE	DISEGNATORE	CONTROLLATO	APPROVATO
APPARECCHIATURA: CICLONE					
DENOMINAZIONE: CV 1000					
PROGETTO N°: CV 1000					
SCALA: 1:10 DATA: 17/07/2013					
FILE DISEGNO N°: CV 1000.0.0					
Progetto: Disegno - Spazio - 1/10 Revisione: 01					

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tecnologia - aerotessile
Via Paschetti 15 - Pessano con Bornago (MI) - ITALY
FILE NAME: CV 1000.0.0

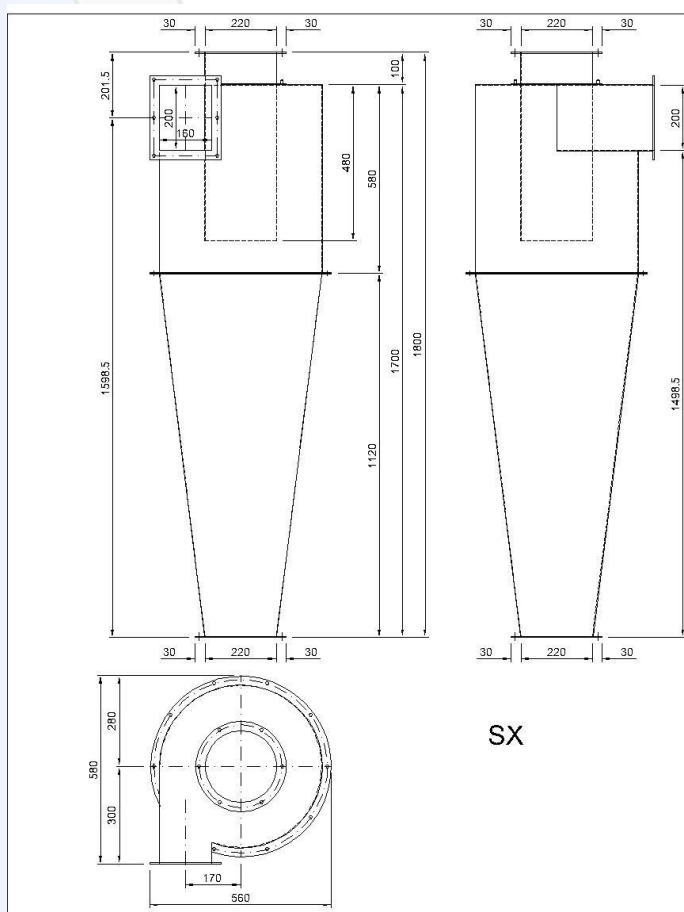
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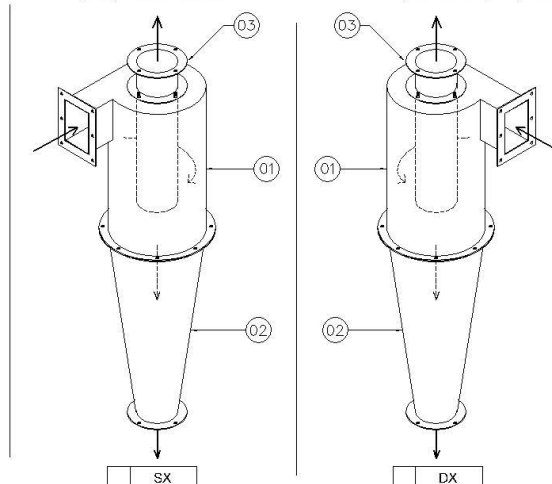


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SX

POS.	DESCRIZIONE	RIFERIMENTO	POS.	N. PEZZI
1	CILINDRO	CV 1800.1.0		1
2	CONO INFERIORE	CV 1800.2.0		1
3	CILINDRO SUPERIORE	CV 1800.3.0		1



PESO : 40,00 Kg.

REV.	DATA	DESCRIZIONE	DISEGNATORE	CONTROLLATO	APPROVATO
APPARECCHIATURA:					
CICLONE					
DENOMINAZIONE:					
CV 1800					
PROGETTO N°:					
CV 1800					
SCALA:					
1:10					
DATA:					
16/06/2015					
FILE DISEGNO N°:					
CV 1800.0.0					
Impianti					
Disegni - Progetti - Controlli					
Ripetizioni					



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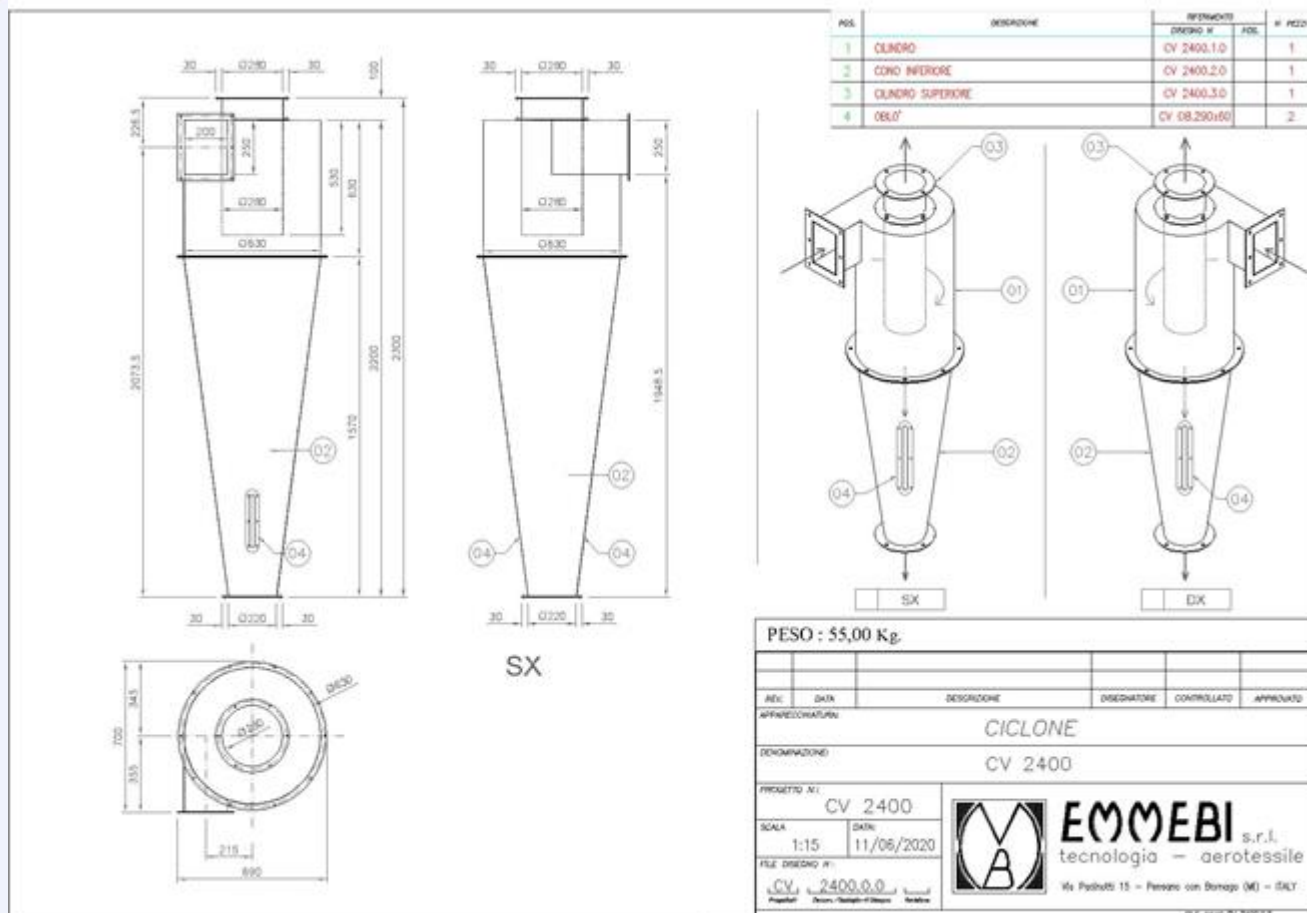
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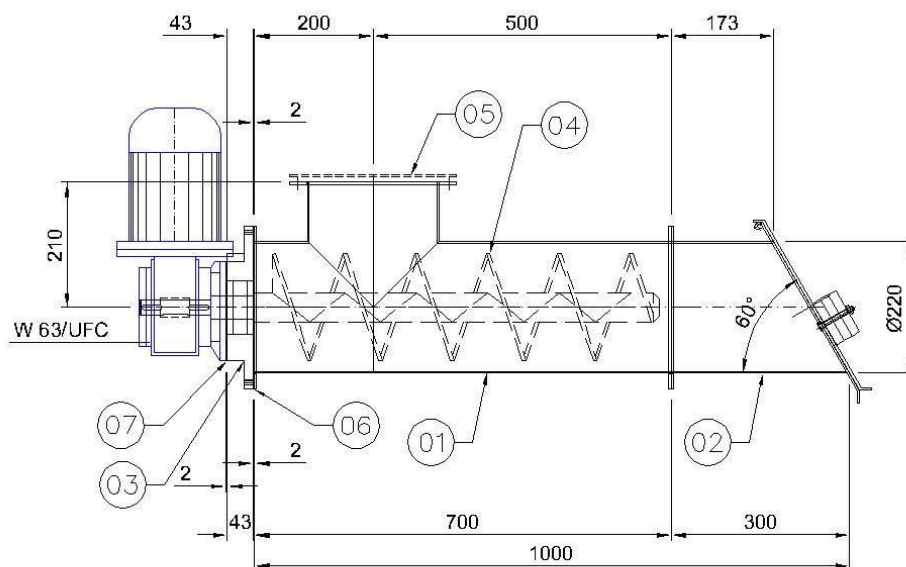


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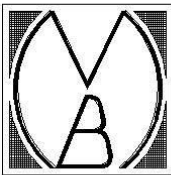




POS.	DESCRIZIONE	RIFERIMENTO		N° PEZZI
		DISEGNO N°	POS.	
1	TRONCO COCLEA	VC 220.1.0		1
2	TRONCO DI SCARICO	VC 220.2.0		1
3	FLANGIA / SUPPORTO CUSCINETTO	VC 220.3.0		1
4	COCLEA	VC 220.4.0		1
5	FLANGIA COLLEGAMENTO APPARECCHIATURA	VC 220.5.X		1
6	FLANGIA Ø220 BLOCCA CUSCINETTO	VC 220.6.1		1
7	FLANGIA Ø180 BLOCCA CUSCINETTO	VC 220.6.2		1



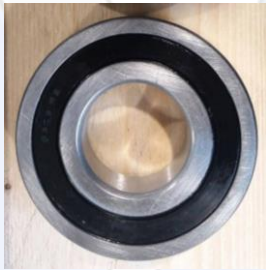
PESO : Kg.

REV.	DATA	DESCRIZIONE	DISEGNATORE	CONTROLLATO	APPROVATO
APPARECCHIATURA: VALVOLA COMPATTATRICE					
DENOMINAZIONE: VC 220					
PROGETTO N°: VC 220		 EMMEBI s.r.l. tecnologia - aerotessile Via Pacinotti 15 - Pessano con Bornago (MI) - ITALY			
SCALA 1:10	DATA: 21/09/12				
FILE DISEGNO N°: VC 220.0.0					
Progetto		Denom. - Tipologia - N° Disegno		Revisione	

FILE NAME: VC 220.0.0



SPARE PARTS LIST

pos	ITEM	CVC 600	CVC 800	CVC 1000	CVC 1800	CVC 2400
1	Gear Motor 	n.1 0,75 kW	n.1 0,75 kW	n.1 0,75 kW	n.1 0,75 kW	n.1 0,75 kW
2	Bearing 40-90 	n.1 63082 RS	n.1 63082 RS	n.1 63082 RS	n.1 63082 RS	n.1 63082 RS
3	Dust sealers for bearing 40-90 	n.2 40-90-10	n.2 40-90-10	n.2 40-90-10	n.2 40-90-10	n.2 40-90-10
4	Iron Screw - Cochlea 	n.1	n.1	n.1	n.1	n.1