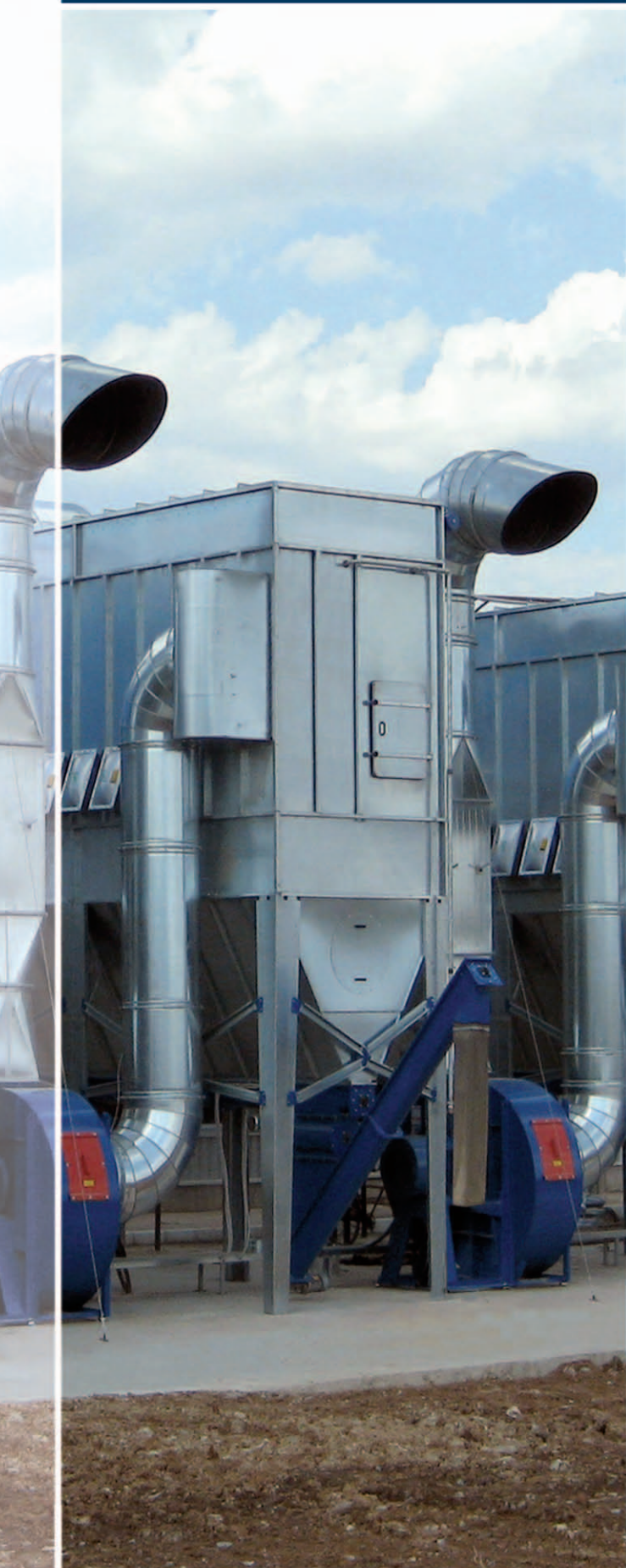




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DUST & FUME COLLECTOR WITH
FULLY AUTOMATIC REVERSE
PULSE CLEANING

WORKING PRINCIPLE

CORAL'S **AIRCOM** sleeves reverse pulse jet filter is a highly efficient, selfmaintaining filter for dusts, with fully automatic cleaning by compressed air injection. The unit is manufactured with individual, reinforced, steel panels which make for extremely robust construction.

The design includes an upper chamber which houses the compressed air cleaning system, the centre section which includes the required filtering sleeves and a lower section with the supporting legs, hopper and polluted air inlet. **AIRCOM** is working in depressure according to following process: the contaminated air enter from hopper inlet by the strong speed decrease, larger particles drop into the wheeled waste bin.

Also available a version with pre-chamber (CC) including a system to make the high concentrated dusts falling down, the inlet will be not in the hopper in this case but directly in the pre-chamber. Alternatively the hopper can be equipped with rotary valve and worm conveyor (CVS). **AIRCOM** cleaning is guaranteed by the reverse jet system with compressed air controlled by the depressure cyclic programmer (PLC) that gives impuls to the solenoid valves cleaning a row of filtering sleeves each time, obtaining in this way a quite constant loss of charges level and constant air flow.

▼ *AIRCOM 288/CC with inclined conveying screw (OPTIONAL) and manual fire extinguishing system (OPTIONAL)*





CYCLIC PROGRAMMER (PLC): a sealed container is used with a transparent lid, duration of injection and pause phases are pre-set but easily changeable. ATEX version is supplied as OPTIONAL

SPANNUNG IN/OUT	230/115/24 Vac
MAXIMUM CHARGING POWER	5VA stand-by 30VA pulse
TEMPERATURE RANGE	-15+50 °C
DISPLAY -	Backlighted display
PROTECTION DEGREE	IP56
OP CONTROL	0÷10 kPa Maximum applicable pressure 50 kPa (0,5 bar)
TERMINAL BOARD	2.5 mmq 230VAC ±10 %
WEIGHT	Kg 1.2

MODEL	VNP 508	VNP 512
GAS FITTINGS (inches)	1	1 1/2
PRESSURE (bar)	Min. Max. Recommended	0,5 7 5
MAX FLUID TEMPERATURE (°C)	80	80
VOLTAGE (V)	24 AC	24 AC
FREQUENCY (Hz)	50	50
POWER UPTAKE (VA) (W)	16 AC 12 DC	16 AC 12 DC
PROTECTION CLASS	IP 65	IP 65



MEMBRANE SOLENOID VALVE: two way valve normally closed; it is activated by an electric solenoid. It holds air pressure of max.7 bar. The compressed air tank operates at 4 to 7 bar. ATEX version is supplied as OPTIONAL

ROTATING STAR VALVE (standard for CC/CVS version): for continuous unloading from hopper, different models available.
ATEX version is supplied as OPTIONAL



USES AND TYPES OF FILTER MEDIA

STANDARD	
NEEDLE POLYESTER FELT (BIA CERTIFIED, USG TESTED)	
	Weight (g/ sq.m.) 500
TYPE OF POWDER: Steelworks, foundries, cast iron and steel, cement, dry powders in general.	

OPTIONAL

NEEDLE POLYESTER FELT (BIA CERTIFIED, USG,C TESTED)	
depending on the dust size	Weight (g/ sq.m.) 500

TYPE OF POWDER: Steelworks, foundries, cast iron and steel, cement, dry powders in general.

ANTISTATIC POLYESTER FELT (BIA CERTIFIED, USG TESTED)	
	Weight (g/ sq.m.) 500

TYPE OF POWDER: Electrostatically charged, plastics, dyes, resins, flour and starches, coal dust.

TEFLON COATED POLYESTER FELT (BIA CERTIFIED, USG TESTED)	
	Weight (g/ sq.m.) 500

•For use with oily fumes or air containing humidity, welding fumes, laser cutting and oxi-cutting operation.

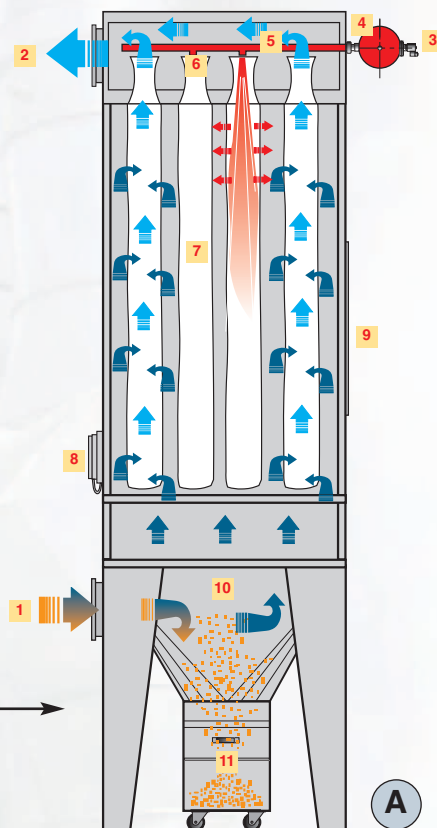
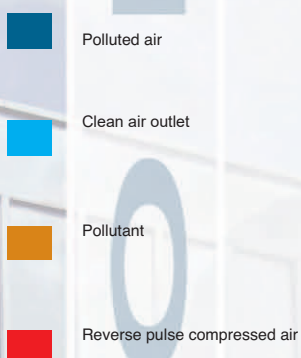
NOMEX POLYAMIDES	
	Weight (g/ sq.m.) 500

•For use in chemical processes at high temperatures, hot fumes.



OPERATING PRINCIPLE

A AIRCOM



1 POLLUTED AIR INLET 5 DISTRIBUTION PIPE

2 FILTERED AIR OUTLET 6 NOZZLES

3 SOLENOID VALVE 7 FILTER SLEEVES

4 COMPRESSED AIR TANK 8 CYCLIC PROGRAMMER (PLC) 12 SCREW CONVEYOR

9 MAINTENANCE DOOR

10 HOPPER

11 COLLECTION BIN

13 ROTARY STAR VALVE

14 SETTling CHAMBER (CC)

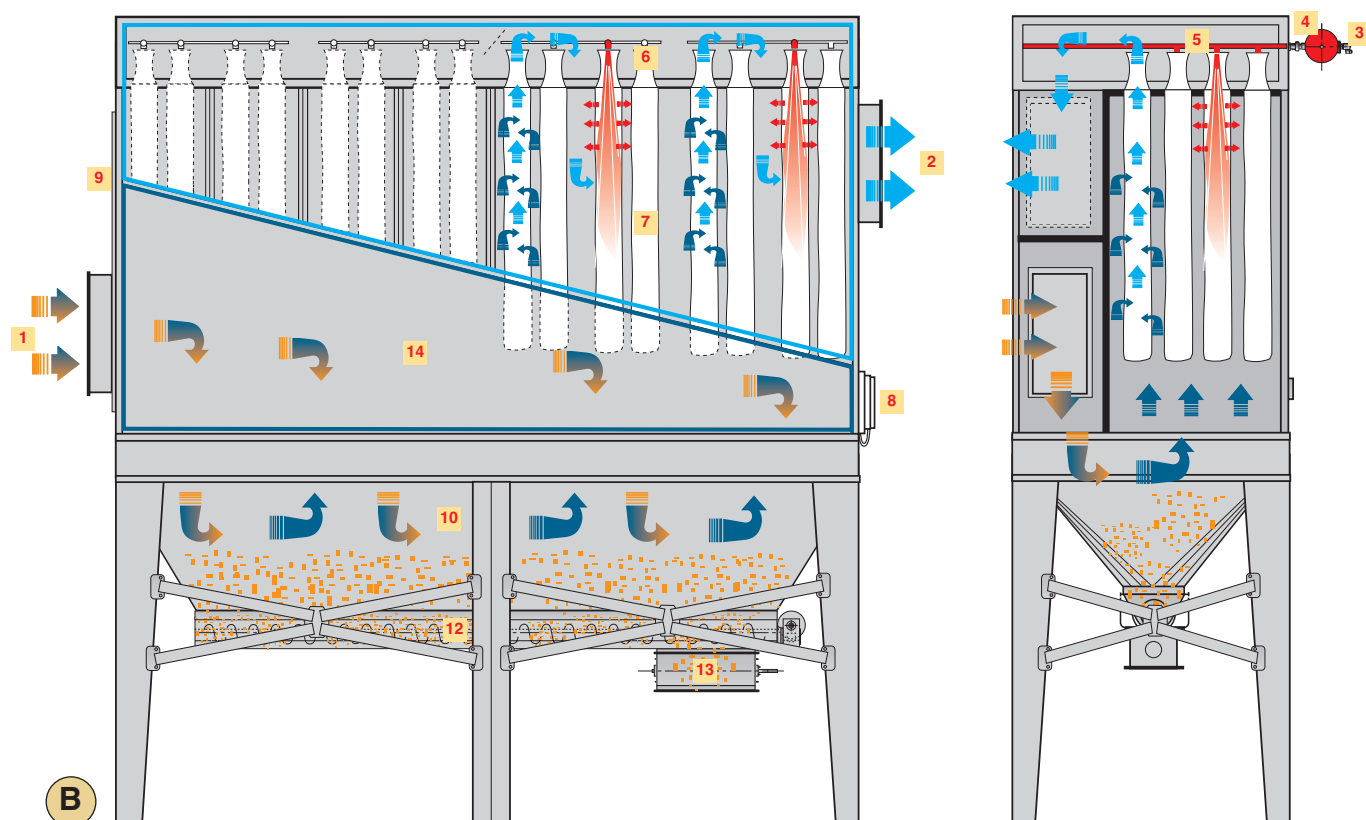
B AIRCOM /CC

With settling chamber, hopper with screw conveyor and rotary valve.

AIRCOM /CVS

With hopper, screw conveyor and rotary valve (without settling chamber)

AIRCOM/CVS polluted air inlet in the hopper



OPTIONAL

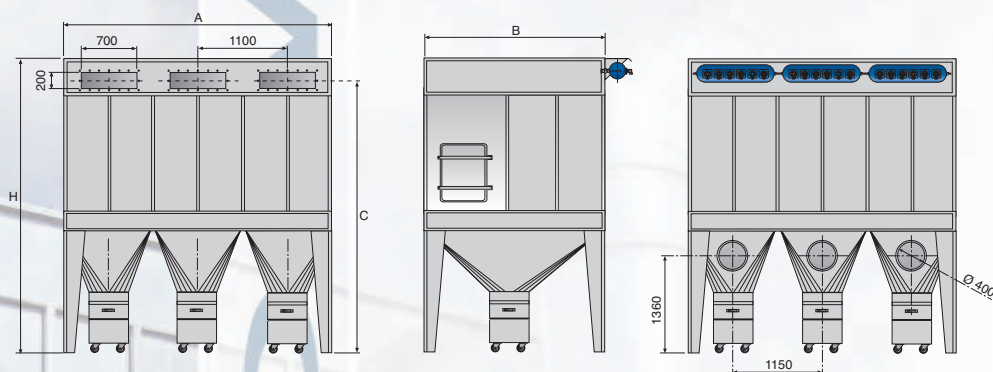
15 EXTENSION LEGS

16 ATEX EXPLOSION-RELIEF PANEL

17 LADDER WITH PLATFORM



AIRCOM



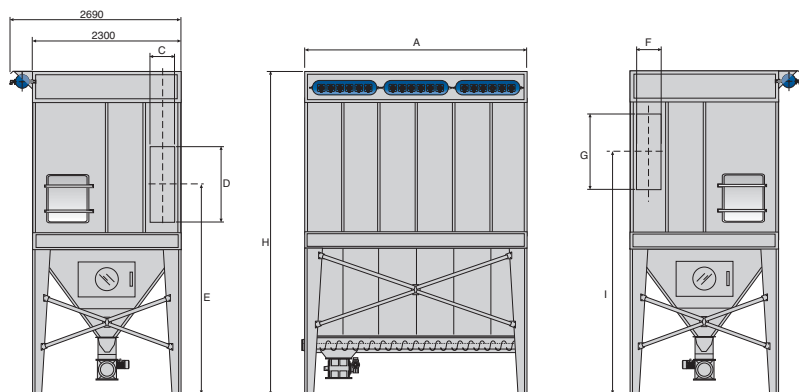
Dimensions (mm)

	C (mm)
AIRCOM -1,0	3250
AIRCOM -1,5	3750
AIRCOM -2,0	4250
AIRCOM -2,5	4750
AIRCOM -3,0	5250

Model	Sleeves (mm)			Dimensions (mm)			Filtering surface (m ²)	Max delivery m ³ /h	Compressed air tank n° x Ø	Solenoid valve n° x Ø	Hoppers n°
	Ø	H	N°	H	A	B					
AIRCOM 36-1,0	123	1000	36	3630	1150	1150	13	1700	1x6"	6x1"	1
AIRCOM 36-1,5	123	1500	36	4130	1150	1150	20	2600	1x6"	6x1"	1
AIRCOM 36-2,0	123	2000	36	4630	1150	1150	27	3500	1x6"	6x1"	1
AIRCOM 36-2,5	123	2500	36	5130	1150	1150	34	4400	1x6"	6x1"	1
AIRCOM 36-3,0	123	3000	36	5630	1150	1150	41	5330	1x6"	6x1"	1
AIRCOM 48-1,5	123	1500	48	4130	1700	1150	27	3500	1x6"	6x1"	1
AIRCOM 48-2,0	123	2000	48	4630	1700	1150	36	4700	1x6"	6x1"	1
AIRCOM 48-2,5	123	2500	48	5130	1700	1150	45	5850	1x6"	6x1"	1
AIRCOM 48-3,0	123	3000	48	5630	1700	1150	54	7000	1x6"	6x1"	1
AIRCOM 72-1,5	123	1500	72	4130	2300	1150	41	5330	2x6"	12x1"	1
AIRCOM 72-2,0	123	2000	72	4630	2300	1150	54	7000	2x6"	12x1"	1
AIRCOM 72-2,5	123	2500	72	5130	2300	1150	68	8850	2x6"	12x1"	1
AIRCOM 72-3,0	123	3000	72	5630	2300	1150	81	10581	2x6"	12x1"	1
AIRCOM 96-1,5	123	1500	96	4130	2300	1700	54	7000	2x6"	12x1"	2
AIRCOM 96-2,0	123	2000	96	4630	2300	1700	72	9400	2x6"	12x1"	2
AIRCOM 96-2,5	123	2500	96	5130	2300	1700	90	11756	2x6"	12x1"	2
AIRCOM 96-3,0	123	3000	96	5630	2300	1700	109	14107	2x6"	12x1"	2
AIRCOM 108-1,5	123	1500	108	4130	3450	1150	61	8000	3x6"	18x1"	3
AIRCOM 108-2,0	123	2000	108	4630	3450	1150	82	10660	3x6"	18x1"	3
AIRCOM 108-2,5	123	2500	108	5130	3450	1150	102	13250	3x6"	18x1"	3
AIRCOM 108-3,0	123	3000	108	5630	3450	1150	122	15871	3x6"	18x1"	3
AIRCOM 144-2,0	123	2000	144	4630	2300	2300	109	14200	2x8"	12x1" 1/2	2
AIRCOM 144-2,5	123	2500	144	5130	2300	2300	136	17634	2x8"	12x1" 1/2	2
AIRCOM 144-3,0	123	3000	144	5630	2300	2300	163	21161	2x8"	12x1" 1/2	2
AIRCOM 216-2,0	123	2000	216	4630	3450	2300	162	21000	3x8"	18x1" 1/2	3
AIRCOM 216-2,5	123	2500	216	5130	3450	2300	203	26451	3x8"	18x1" 1/2	3
AIRCOM 216-3,0	123	3000	216	5630	3450	2300	244	31742	3x8"	18x1" 1/2	3
AIRCOM 288-2,0	123	2000	288	4630	4600	2300	217	28200	4x8"	24x1" 1/2	4
AIRCOM 288-2,5	123	2500	288	5130	4600	2300	271	35268	4x8"	24x1" 1/2	4
AIRCOM 288-3,0	123	3000	288	5630	4600	2300	326	42322	4x8"	24x1" 1/2	4
AIRCOM 360-2,5	123	2500	360	5130	5750	2300	339	44086	5x8"	30x1" 1/2	5
AIRCOM 360-3,0	123	3000	360	5630	5750	2300	407	52903	5x8"	30x1" 1/2	5

AIRCOM CC

with settling chamber, hopper with screw conveyor and rotary valve.



Dimensions (mm)

Model	Inlet (mm)		Outlet (mm)	
	CxD	E	FxG	I
AIRCOM 96-2,0 CC	350x600	4120	350x600	4120
AIRCOM 96-2,5 CC	350x600	4120	350x600	4620
AIRCOM 96-3,0 CC	350x600	4620	350x600	5120
AIRCOM 144-2,0 CC	350x900	4120	350x900	4120
AIRCOM 144-2,5 CC	350x900	4120	350x900	4620
AIRCOM 144-3,0 CC	350x900	4620	350x900	5120
AIRCOM 192-2,0 CC	350x1100	4120	350x1100	4120
AIRCOM 192-2,5 CC	350x1100	4120	350x1100	4620
AIRCOM 192-3,0 CC	350x1100	4620	350x1100	5120
AIRCOM 240-2,0 CC	350x1500	4120	350x1500	4120
AIRCOM 240-2,5 CC	350x1500	4120	350x1500	4620
AIRCOM 240-3,0 CC	350x1500	4620	350x1500	5120
AIRCOM 288-2,0 CC	350x1500	4120	350x1500	4120
AIRCOM 288-2,5 CC	350x1500	4120	350x1500	4620
AIRCOM 288-3,0 CC	350x1500	4620	350x1500	5120

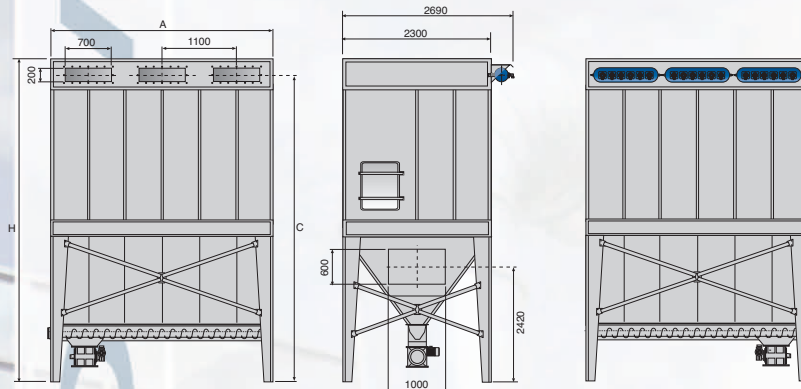
· Values on this catalogue are indicative and can be subject to modification and improvements.
CORAL reserves the right to change them without previous advice.

Modello Modele Model Typ Modelo	Maniche Manches Sleeves Schläuche Mangas (mm)			Dimensioni Dimensions Dimensions Abmessungen Medidas (mm)		Superficie Filtrante Surface Filtrante Filtering surface Filterfläche Superficie Filtrante	Portata massima Debit max Max delivery Luftmenge max Caudal max	Serbatoio aria compressa Reservoir air comprimé Compressed air tank Druckluft-Behälter Depósito de aire comprimido	Elettrovalvole Électrovanne Solenoid valve Elektroventil Electroválvula
	Ø	H	N°	H	A	(m²)	m³/h	n° x Ø	n° x Ø
AIRCOM 96-2,0 CC	123	2000	96	5750	2315	74	11865	2x6"	12x1"
AIRCOM 96-2,5 CC	123	2500	96	6250	2315	93	13904	2x6"	12x1"
AIRCOM 96-3,0 CC	123	3000	96	6750	2315	111	15572	2x6"	12x1"
AIRCOM 144-2,0 CC	123	2000	144	5750	3465	111	17797	3x6"	18x1"
AIRCOM 144-2,5 CC	123	2500	144	6250	3465	139	20856	3x6"	18x1"
AIRCOM 144-3,0 CC	123	3000	144	6750	3465	167	23359	3x6"	18x1"
AIRCOM 192-2,0 CC	123	2000	192	5750	4615	148	23729	4x6"	24x1"
AIRCOM 192-2,5 CC	123	2500	192	6250	4615	185	27808	4x6"	24x1"
AIRCOM 192-3,0 CC	123	3000	192	6750	4615	222	31145	4x6"	24x1"
AIRCOM 240-2,0 CC	123	2000	240	5750	5765	185	29662	5x6"	30x1"
AIRCOM 240-2,5 CC	123	2500	240	6250	5765	232	34760	5x6"	30x1"
AIRCOM 240-3,0 CC	123	3000	240	6750	5765	278	38931	5x6"	30x1"
AIRCOM 288-2,0 CC	123	2000	288	5750	6915	222	35594	6x6"	36x1"
AIRCOM 288-2,5 CC	123	2500	288	6250	6915	278	41712	6x6"	36x1"
AIRCOM 288-3,0 CC	123	3000	288	6750	6915	334	53391	6x6"	36x1"

AIRCOM CVS

with hopper, screw conveyor and rotary valve.

	C (mm)
AIRCOM -2,0 CVS	5360
AIRCOM -2,5 CVS	5860
AIRCOM -3,0 CVS	6360



Dimensioni (mm) - Dimensions (mm)
Dimensions (mm) - Abmessungen (mm)
Medidas (mm)

Model	Sleeves (mm)			Dimensions (mm)		Filtering surface	Max delivery	Compressed air tank	Solenoid valve
	Ø	H	N°	H	A	(m²)	m³/h	n° x Ø	n° x Ø
AIRCOM 144-2,0 CVS	123	2000	144	5750	2300	109	14200	2x8"	12x1" 1/2
AIRCOM 144-2,5 CVS	123	2500	144	6250	2300	136	17634	2x8"	12x1" 1/2
AIRCOM 144-3,0 CVS	123	3000	144	6750	2300	163	21161	2x8"	12x1" 1/2
AIRCOM 216-2,0 CVS	123	2000	216	5750	3450	162	21000	3x8"	18x1" 1/2
AIRCOM 216-2,5 CVS	123	2500	216	6250	3450	203	26451	3x8"	18x1" 1/2
AIRCOM 216-3,0 CVS	123	3000	216	6750	3450	244	31742	3x8"	18x1" 1/2
AIRCOM 288-2,0 CVS	123	2000	288	5750	4600	217	28200	4x8"	24x1" 1/2
AIRCOM 288-2,5 CVS	123	2500	288	6250	4600	271	35268	4x8"	24x1" 1/2
AIRCOM 288-3,0 CVS	123	3000	288	6750	4600	326	42322	4x8"	24x1" 1/2
AIRCOM 360-2,5 CVS	123	2500	360	6250	5750	339	44086	5x8"	30x1" 1/2
AIRCOM 360-3,0 CVS	123	3000	360	6750	5750	407	52903	5x8"	30x1" 1/2



INSTALLATION EXAMPLES



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