

AIR COMPACT

DUST & FUME COLLECTOR WITH
FULLY AUTOMATIC REVERSE
PULSE CLEANING

WORKING PRINCIPLE

The **CORAL AIRCOMPACT** cartridge filter with reverse pulse compressed air washing is composed of cartridge filtering elements enclosed in a central hermetic sealed unit, and is designed for use in depressure systems.

The dust air enters through the coupling at the base of the hopper and, due to the sharp decrease in speed and pre-fragmentation on impact, the particles with the highest granulometry settle down and end up in the collection bin.

The finer or lighter particles rise in the unit, containing the cartridge filters, the polluted air passes through the cartridge filters, from the outside towards the inside, so that the dust deposits externally whereas the air returns upwards through the cartridges and exits purified. This progressive depositing of dust means that the cartridge filters must be cleaned periodically: a jet of compressed air allows reverse pulse washing and subjects the cartridge filters to a high frequency oscillating motion.

This jet referred to as "shock wave", obviously favours the blowback washing process.

The filters are cleaned by sector, through membrane solenoid valves, controlled by a cycle timer that sets the pauses or running times with a PLC.

This permanently maintains the filter efficiency status at maximum levels.

This type of cleaning, extremely reliable, after an initial running period, means that the filter reaches a stable pressure loss value that remains practically constant throughout its working life cycle.

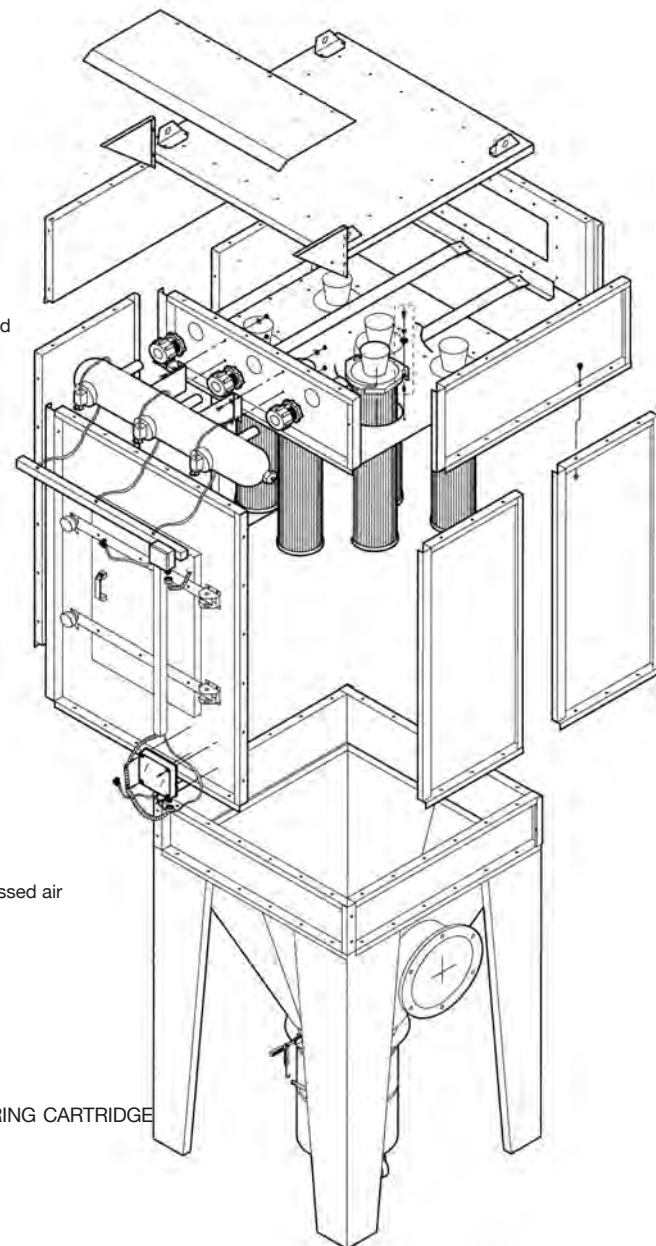
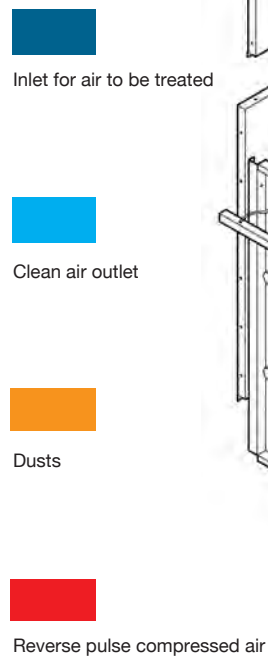
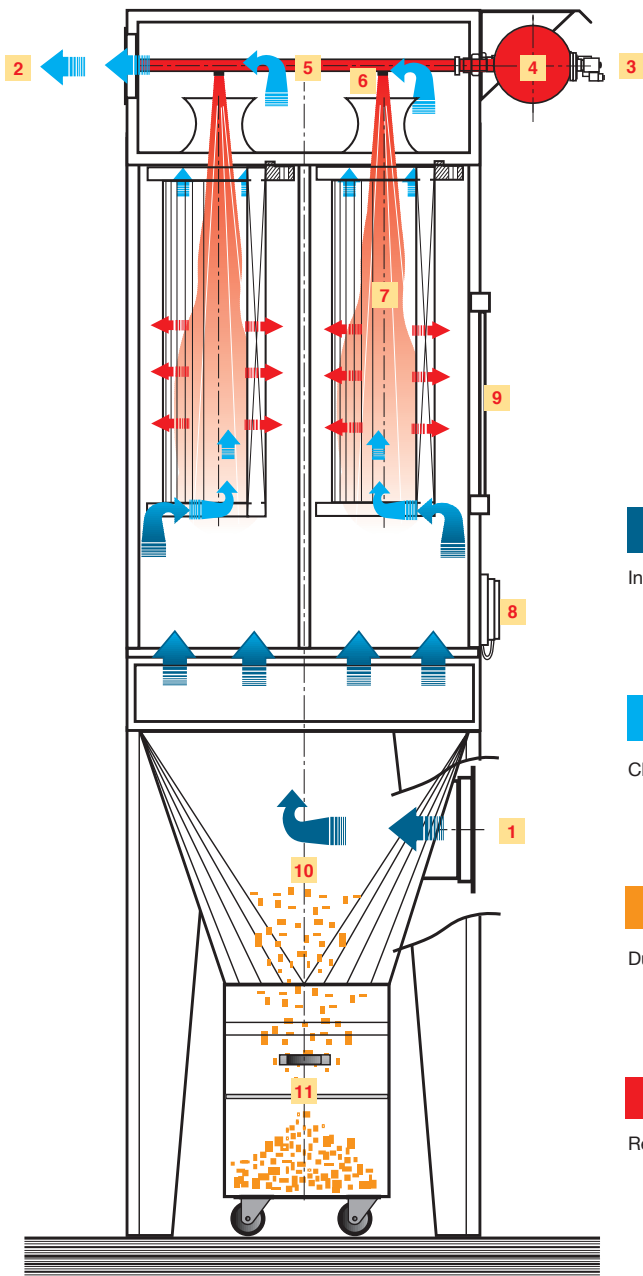
Standard filter cartridges are made of polyester 270g/m² BIA certified and USG tested. As optional are available various types of filtering media depending on applications: teflon coated polyester - aluminated/antistatic - oil/water repellent, cellulose fabric, BIA certified & USG, C or USG tested.

Pls. contact our Technical department to select the filtering media suitable for your needs



AIRCOMPACT STANDARD

OPERATING PRINCIPLE



1 DUST INLET

4 COMPRESSED AIR TANK

7 FILTERING CARTRIDGE

2 FILTERED AIR OUTLET

5 DISTRIBUTION PIPE

8 CYCLIC PROGRAMMER

10 HOPPER

3 SOLENOID VALVE

6 NOZZLES

9 MAINTENANCE DOOR

11 COLLECTION BIN

AIRCOMPACT & OPTIONALS

OPERATING PRINCIPLE



Inlet for air to be treated



Dusts

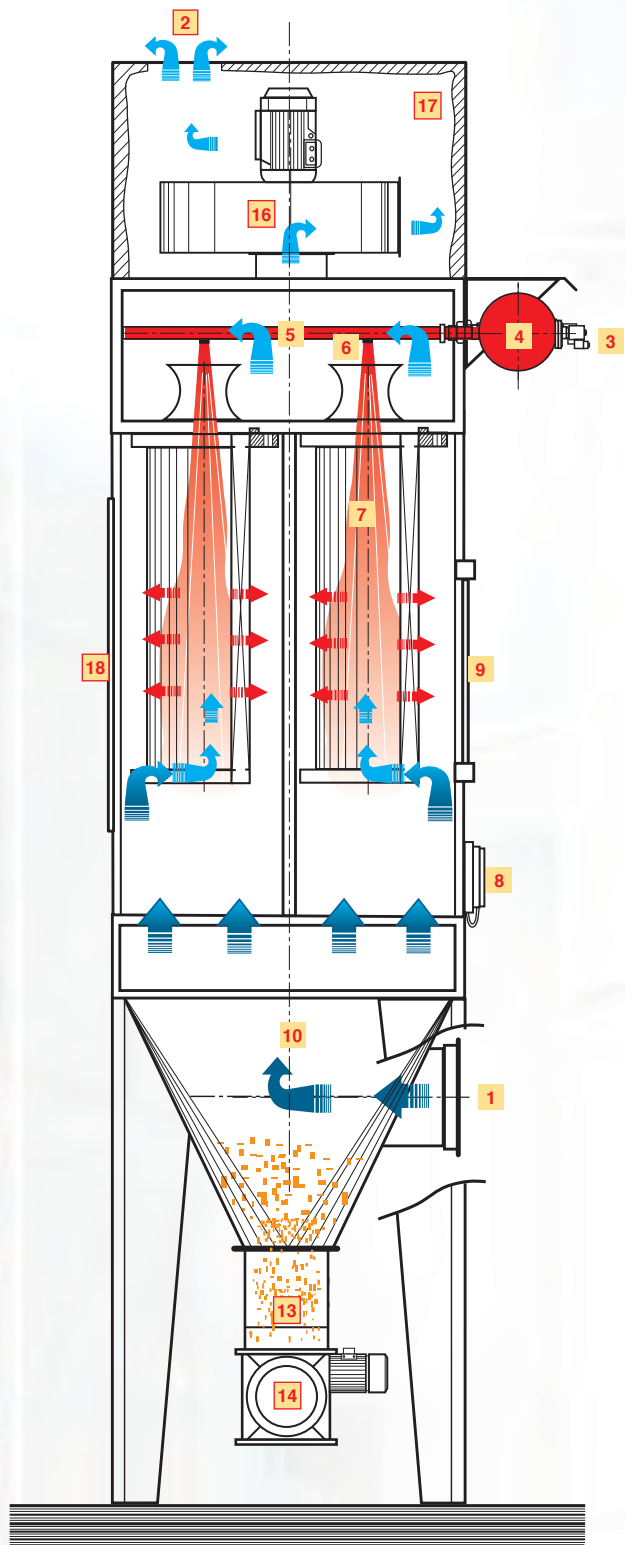


Clean air outlet



Reverse pulse compressed air

AIRCOMPACT



1 DUST INLET

4 COMPRESSED AIR TANK

2 FILTERED AIR OUTLET

5 DISTRIBUTION PIPE

3 SOLENOID VALVE

6 NOZZLES



7 FILTERING CARTRIDGE

11 COLLECTION BIN

15 EXTENSION LEGS

19 CHARCOAL FILTER UNIT KARB

8 CYCLIC PROGRAMMER

12 HOPPER/CONVEYOR MAINTENANCE DOOR

16 FAN

20 LADDER WITH PLATFORM

9 MAINTENANCE DOOR

13 SCREW CONVEYOR

17 SOUNDPROOFED BOX

10 HOPPER

14 ROTARY STAR VALVE

18 EXPLOSION-RELIEF PANEL



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.

AIR COMPACT		6-8-12-18	16-24-36-48-60-72
MODEL		VEP 514 – 24/50	VEP 516 – 24/50
GAS FITTINGS (inches)		1 1/2	2
PRESSURE (bar)	Min.	0,5	
	Max.	7	
Recommended			5
MAX FLUID TEMPERATURE (°C)		80	80
VEP WEIGHT (Kg)		2,3	2,8
VOLTAGE (V)		24 AC	24 AC
FREQUENCY (Hz)		50	50
POWER UPTAKE	(VA)	19 AC	19 AC
	(W)	15 DC	15 DC
PROTECTION CLASS -		IP 65	IP 65



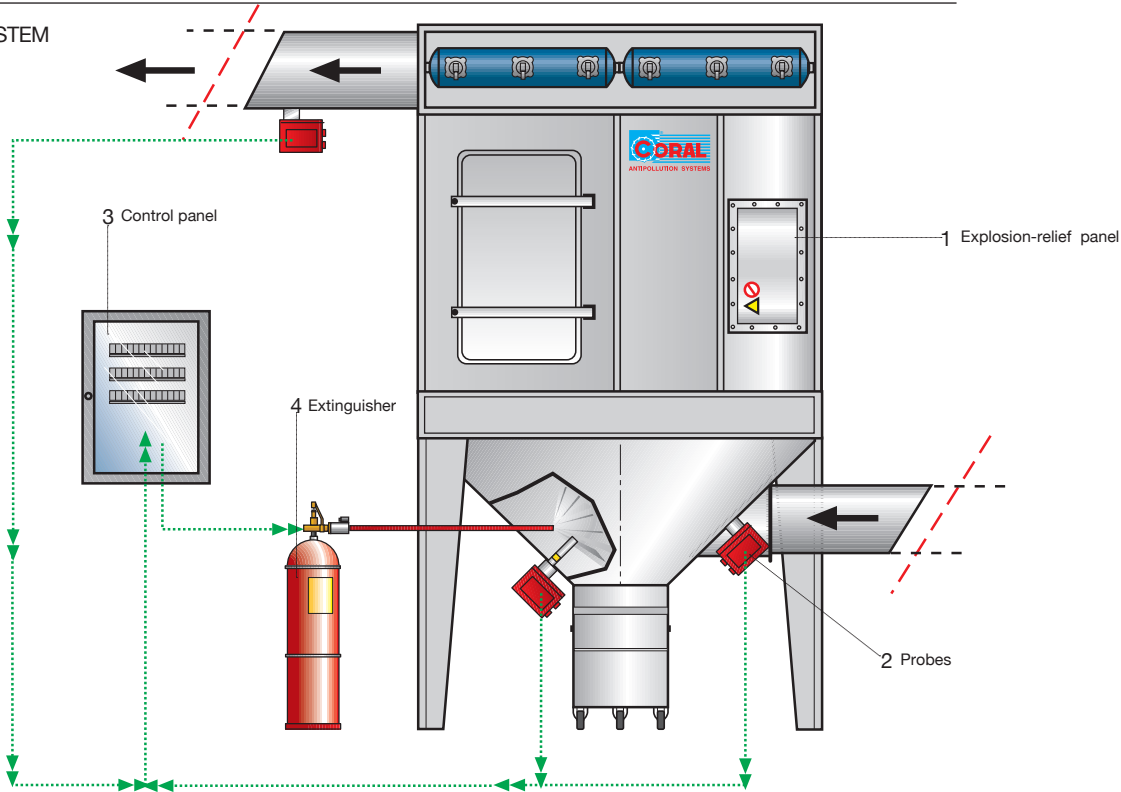
ROTATING STAR VALVE (on request): for continuous unloading from hopper, different models available.

CYCLIC PROGRAMMER (PLC): a sealed container is used with a transparent lid, duration of injection and pause phases are preset but easily changeable.



IN/OUT VOLTAGE	230 V / 24VAC
MAXIMUM CHARGING POWER	5VA stand-by 30VA pulse
TEMPERATURE RANGE	-10+50 °C
DISPLAY	5 LEDs h 13mm
PROTECTION DEGREE	IP65
DP CONTROL	Internal transducer FS 5.00 kPa
DIMENSIONS	175 X 175 X 100
TERMINAL BOARD	2.5 mmq 250VAC
WEIGHT	Kg 1.2

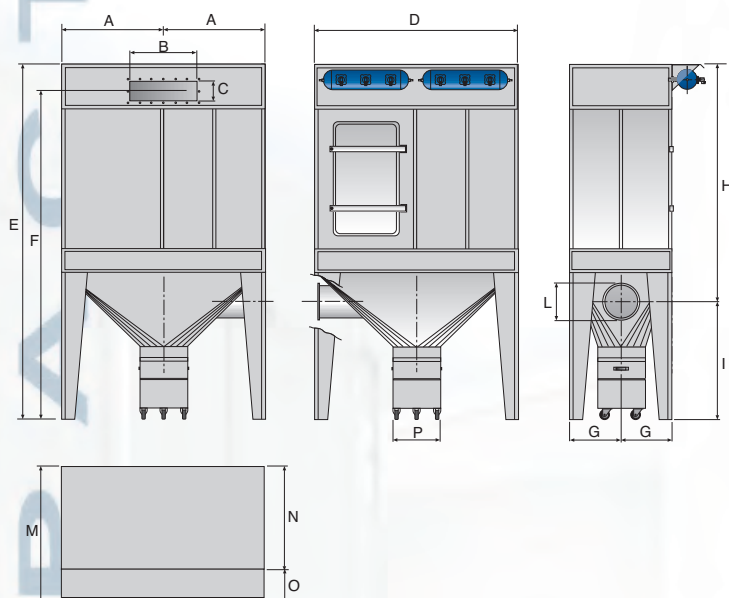
FIRE EXTINGUISHING SYSTEM



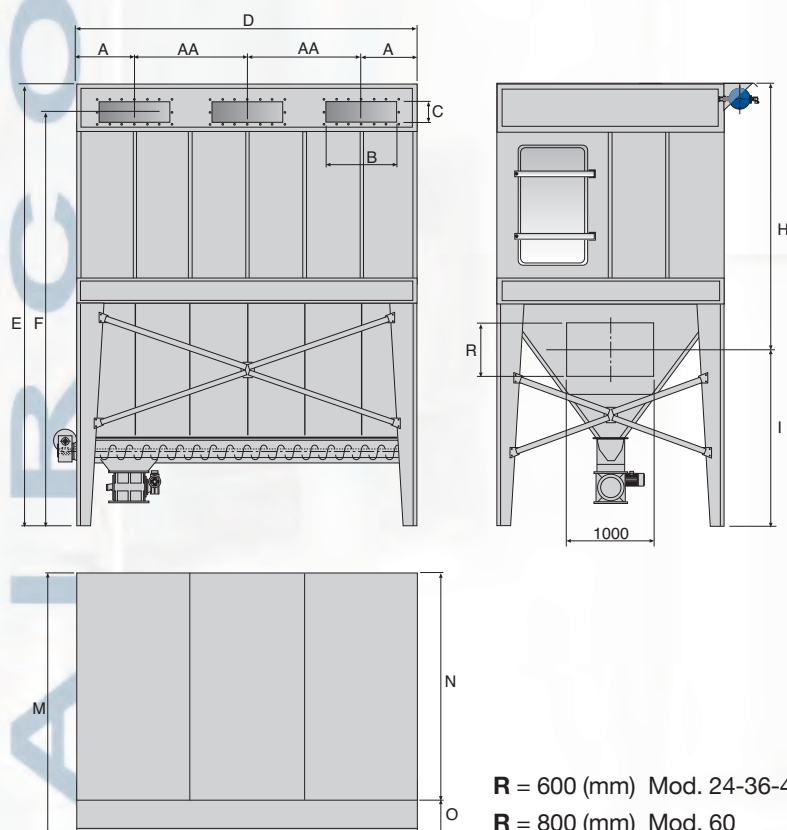
TECHNICAL FEATURES



AIRCOMPACT 6-8-12



AIRCOMPACT C/V S

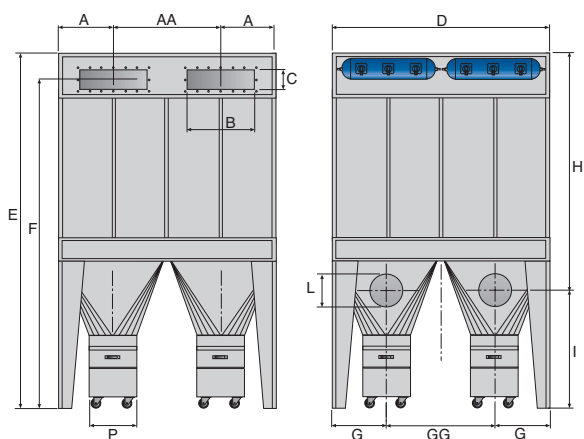


R = 600 (mm) Mod. 24-36-48

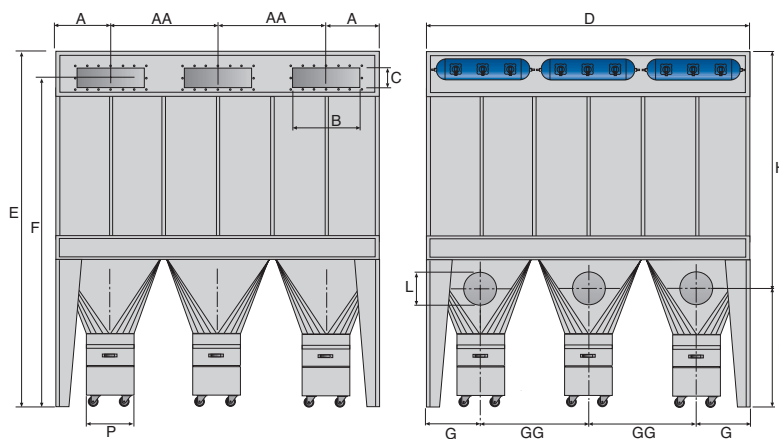
R = 800 (mm) Mod. 60

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AIRCOMPACT 16-24



AIRCOMPACT 18-36-48-60-72



MOD.	A	AA	B	C	D	E	F	G	GG	H	I	L	M	N	O	P	Kg
AIRCOMPACT 6 C 700	575		700	200	1150	3515	3170	575		2145	1370	400	1550	1150	400	500	450
AIRCOMPACT 6 C 1000	575		700	200	1150	4015	3670	575		2645	1370	400	1550	1150	400	500	580
AIRCOMPACT 6 C 1200	575		700	200	1150	4015	3670	575		2645	1370	400	1550	1150	400	500	580
AIRCOMPACT 8 C 1000	850		700	200	1700	4015	3670	575		2645	1400	400	1550	1150	400	500	840
AIRCOMPACT 8 C 1200	850		700	200	1700	4015	3670	575		2645	1400	400	1550	1150	400	500	840
AIRCOMPACT 12 C 1000	1150		700	200	2300	4015	3670	575		2645	1400	400	1550	1150	400	500	1100
AIRCOMPACT 12 C 1200	1150		700	200	2300	4015	3670	575		2645	1400	400	1550	1150	400	500	1100
AIRCOMPACT 16 C 1000	820		700	200	2300	4015	3670	570	1160	2645	1400	400	2100	1700	400	500	1650
AIRCOMPACT 16 C 1200	820		700	200	2300	4015	3670	570	1160	2645	1400	400	2100	1700	400	500	1650
AIRCOMPACT 24 C 1000	600	1100	700	200	2300	4015	3670	570	1160	2645	1400	400	2700	2300	400	500	2200
AIRCOMPACT 24 C 1200	600	1100	700	200	2300	4015	3670	570	1160	2645	1400	400	2700	2300	400	500	2200
AIRCOMPACT 24 C 1000 C/VS	600	1100	700	200	2300	5140	4800			2718	2422		2700	2300	400		
AIRCOMPACT 24 C 1200 C/VS	600	1100	700	200	2300	5140	4800			2718	2422		2700	2300	400		
AIRCOMPACT 18 C 1000	630	1100	700	200	3460	4015	3670	570	1160	2645	1370	400	1550	1150	400	500	1820
AIRCOMPACT 18 C 1200	630	1100	700	200	3460	4015	3670	570	1160	2645	1370	400	1550	1150	400	500	1820
AIRCOMPACT 36 C 1000	630	1100	700	200	3460	4015	3670	570	1160	2645	1400	400	2700	2300	400	500	3200
AIRCOMPACT 36 C 1200	630	1100	700	200	3460	4015	3670	570	1160	2645	1400	400	2700	2300	400	500	3200
AIRCOMPACT 36 C 1000 C/VS	630	1100	700	200	3460	5140	4800			2718	2422		2700	2300	400		
AIRCOMPACT 36 C 1200 C/VS	630	1100	700	200	3460	5140	4800			2718	2422		2700	2300	400		
AIRCOMPACT 48 C 1000	585	1150	700	200	4615	4015	3670	575	1150	2645	1370	400	2700	2300	400	500	4200
AIRCOMPACT 48 C 1200	585	1150	700	200	4615	4015	3670	575	1150	2645	1370	400	2700	2300	400	500	4300
AIRCOMPACT 48 C 1000 C/VS	630	1100	700	200	4615	5140	4800			2718	2422		2700	2300	400		
AIRCOMPACT 48 C 1200 C/VS	630	1100	700	200	4615	5140	4800			2718	2422		2700	2300	400		
AIRCOMPACT 60 C 1000	585	1150	700	200	5765	4015	3670	575	1150	2645	1370	400	2700	2300	400	500	5200
AIRCOMPACT 60 C 1200	585	1150	700	200	5765	4015	3670	575	1150	2645	1370	400	2700	2300	400	500	5300
AIRCOMPACT 60 C 1000 C/VS	585	1150	700	200	5765	5140	4800			2818	2322		2700	2300	400		
AIRCOMPACT 60 C 1200 C/VS	585	1150	700	200	5765	5140	4800			2818	2322		2700	2300	400		
AIRCOMPACT 72 C 1000	585	1150	700	200	6915	4015	3670	575	1150	2645	1370	400	2700	2300	400	500	6200
AIRCOMPACT 72 C 1200	585	1150	700	200	6915	4015	3670	575	1150	2645	1370	400	2700	2300	400	500	6300

Dimensions (mm)



CARTRIDGES FEATURES

N° CARTRIDGES	DIMENSIONS	N° PLEATS	FILTERING SURFACE
	mm inches		m² sqft
AIRCOMPACT 6 C 700	Ø 325x700 Ø 12,8x28,5	175	65 700
AIRCOMPACT 6 C 1000	Ø 325x1000 Ø 12,8x39,4		94 1010
AIRCOMPACT 6 C 1200	Ø 325x1200 Ø 12,8x47,2		113 1215
AIRCOMPACT 8 C 1000	Ø 325x1000 Ø 12,8x39,4		125 1345
AIRCOMPACT 8 C 1200	Ø 325x1200 Ø 12,8x47,2		150 1615
AIRCOMPACT 12 C 1000	Ø 325x1000 Ø 12,8x39,4		188 2020
AIRCOMPACT 12 C 1200	Ø 325x1200 Ø 12,8x47,2		226 2430
AIRCOMPACT 16 C 1000	Ø 325x1000 Ø 12,8x39,4		250 2690
AIRCOMPACT 16 C 1200	Ø 325x1200 Ø 12,8x47,2		300 3230
AIRCOMPACT 18 C 1000	Ø 325x1000 Ø 12,8x39,4		282 3035
AIRCOMPACT 18 C 1200	Ø 325x1200 Ø 12,8x47,2		338 3636
AIRCOMPACT 24 C 1000	Ø 325x1000 Ø 12,8x39,4		376 4040
AIRCOMPACT 24 C 1200	Ø 325x1200 Ø 12,8x47,2		450 4860
AIRCOMPACT 36 C 1000	Ø 325x1000 Ø 12,8x39,4		564 6060
AIRCOMPACT 36 C 1200	Ø 325x1200 Ø 12,8x47,2		675 7260
AIRCOMPACT 48 C 1000	Ø 325x1000 Ø 12,8x39,4		752 8080
AIRCOMPACT 48 C 1200	Ø 325x1200 Ø 12,8x47,2		904 9720
AIRCOMPACT 60 C 1000	Ø 325x1000 Ø 12,8x39,4		940 10100
AIRCOMPACT 60 C 1200	Ø 325x1200 Ø 12,8x47,2		1130 12150
AIRCOMPACT 72 C 1000	Ø 325x1000 Ø 12,8x39,4	72	1128 12120
AIRCOMPACT 72 C 1200	Ø 325x1200 Ø 12,8x47,2		1356 14580

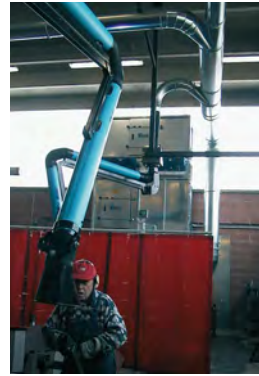
CARTRIDGES FEATURES

N° CARTRIDGES	DIMENSIONS	N° PLEATS	FILTERING SURFACE
	mm inches		m² sqft
AIRCOMPACT 24 C 1000 C/V/S	Ø 325x1000 Ø 12,8x39,4	175	376 4040
AIRCOMPACT 24 C 1200 C/V/S	Ø 325x1200 Ø 12,8x47,2		450 4860
AIRCOMPACT 36 C 1000 C/V/S	Ø 325x1000 Ø 12,8x39,4		564 6060
AIRCOMPACT 36 C 1200 C/V/S	Ø 325x1200 Ø 12,8x47,2		675 7260
AIRCOMPACT 48 C 1000 C/V/S	Ø 325x1000 Ø 12,8x39,4		752 8080
AIRCOMPACT 48 C 1200 C/V/S	Ø 325x1200 Ø 12,8x47,2		902 9720
AIRCOMPACT 60 C 1000 C/V/S	Ø 325x1000 Ø 12,8x39,4		940 10100
AIRCOMPACT 60 C 1200 C/V/S	Ø 325x1200 Ø 12,8x47,2		1130 12150

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INSTALLATION EXAMPLES



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