

# Skillair® ACTIVE CARBON FILTER

Active carbon filtering systems are the most efficient in the industry as they eliminate all traces of oils, solvents and hydrocarbons, and remove unpleasant odours from the air.

The operating principle is based on active carbon's ability to absorb the majority of the polluting particles in the air thanks to the presence of tiny passages inside the carbon granules.

The incoming air must be filtered (5 µm) and purified (0.01 µm) to increase the duration and efficiency of the cartridge.

The cartridge must be replaced at set intervals since there is no difference in load loss between an efficient cartridge and a saturated one.

**N.B. To maintain the same performance and duration specified on the data sheet, the load loss (ΔP) must not exceed 75 mbar.**



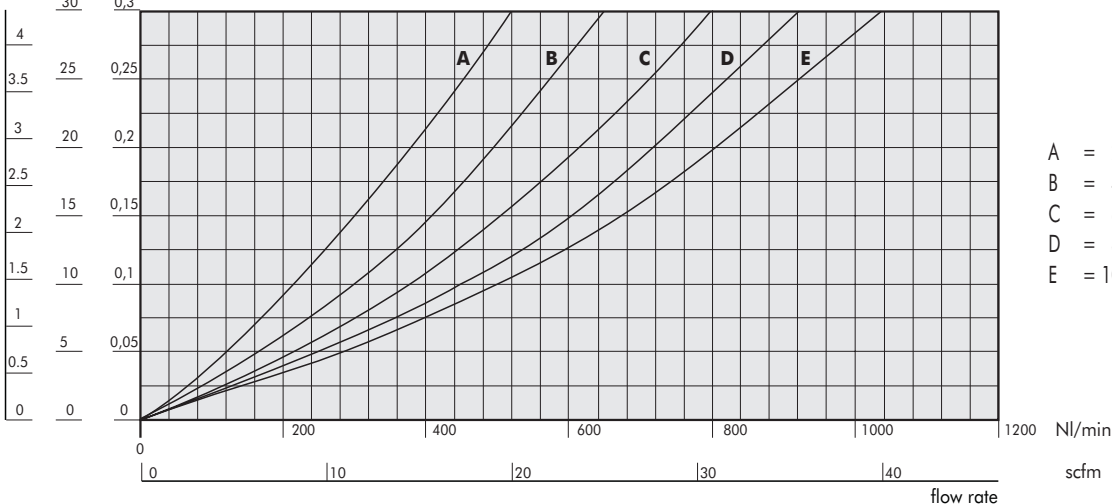
TECHNICAL DATA	AC 100	AC 100	AC 200	AC 200	AC 200	AC 300	AC 300	AC 300
Threaded port	G 1/4	G 3/8	G 1/4	G 3/8	G 1/2	G 1/2	G 3/4	G 1"
Residual oil at 20°C *	mg/m <sup>3</sup>		0,003					
Duration of cartridge *	Hours		4000					
Max. inlet pressure	MPa		1.5		1.3			
	Bar		15		13			
	psi		217		188			
Fluid	0,01 µm filtered and deputed air							
Max temperature at: 1 MPa; 10 bar; 145 psi	°C		50					
	°F		122					
Weight	Kg		0.4		0.9		1.4	
Wall fixing screws	M4 x 50		M5 x 60		M5 x 70			
Mounting position	In any position							
Notes on use	Upstream it's necessary to mount a coalescence filter deparator of 0,01mm.							
* if the load loss of 75 mbar is not exceeded								

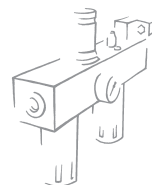
## FLOW CHARTS

### AC 100 1/4 - 3/8

$$\Delta P = (P_m - P_v)$$

Psi    KPa    bar  
30    0,3

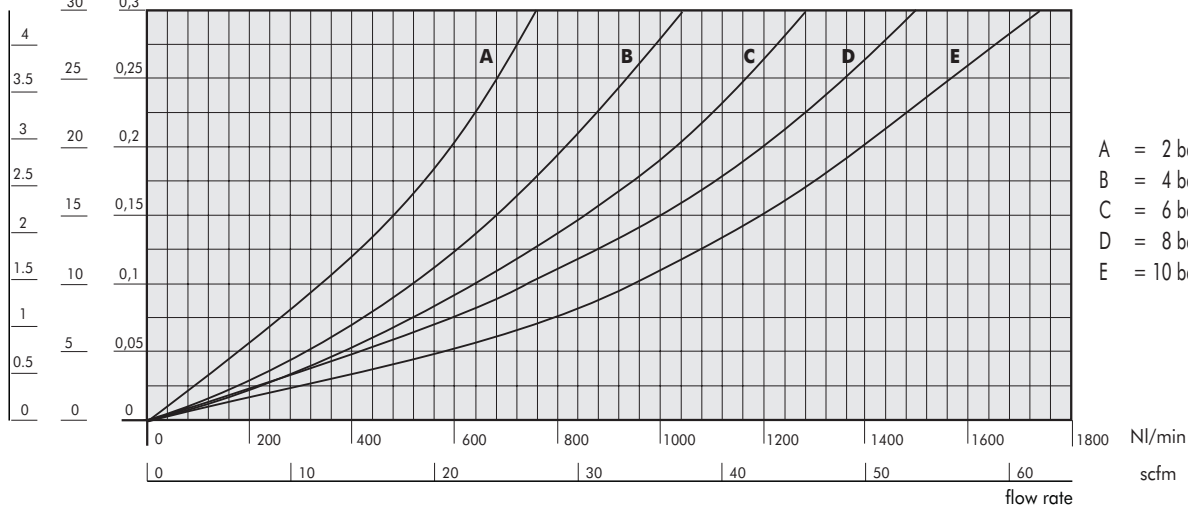




### AC 200 1/4 - 3/8 - 1/2

$$\Delta P = (P_m - P_v)$$

Psi KPa bar  
30 0,3

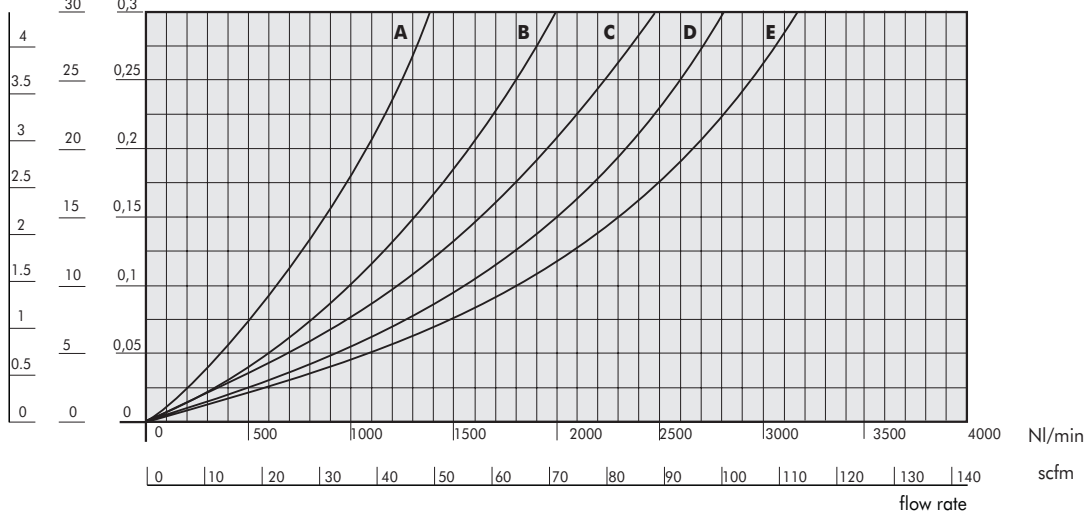


- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

### AC 300 1/2 - 3/4 - 1

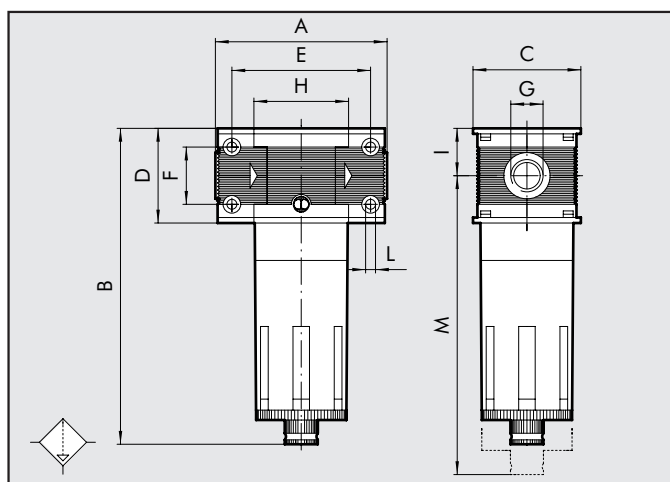
$$\Delta P = (P_m - P_v)$$

Psi KPa bar  
30 0,3



- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

### DIMENSIONS



	AC 100	AC 100	AC 200	AC 200	AC 200	AC 300	AC 300	AC 300
Th. p.	G 1/4	G 3/8	G 1/4	G 3/8	G 1/2	G 1/2	G 3/4	G 1"
A	78		93.5			110		112
B	144		175			195		
C	50		63			72		
D	43		55			65		
E	63		78.5			92		
F	26		36			42		
G	G 1/4	G 3/8	G 1/4	G 3/8	G 1/2	G 1/2	G 3/4	G 1"
H	43		55.5			65		
I	21.5		27.5			32.5		
L	M4 hole		M5 hole			M5 hole		
M	137		196			215		

# Skillair® 400 ACTIVE CARBON FILTER

Active carbon filtering systems are the most efficient in the industry as they eliminate all traces of oils, solvents and hydrocarbons, and remove unpleasant odours from the air.

The operating principle is based on active carbon's ability to absorb the majority of the polluting particles in the air thanks to the presence of tiny passages inside the carbon granules.

The incoming air must be filtered (5 µm) and purified (0.01 µm) to increase the duration and efficiency of the cartridge.

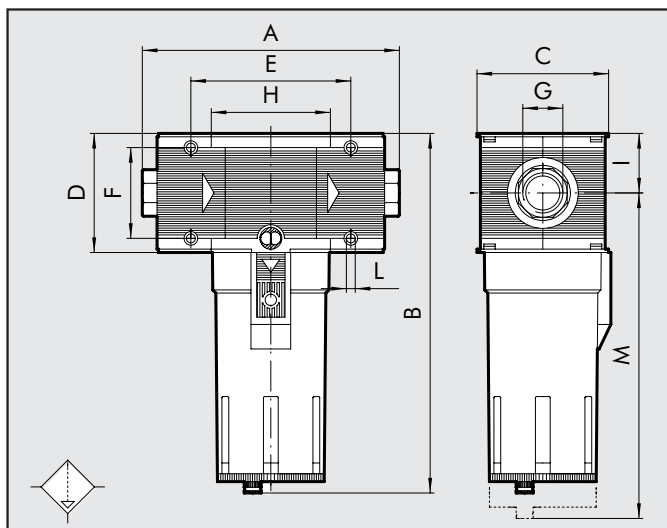
The cartridge must be replaced at set intervals since there is no difference in load loss between an efficient cartridge and a saturated one.

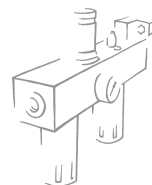
**N.B. To maintain the same performance and duration specified on the data sheet, the load loss ( $\Delta P$ ) must not exceed 75 mbar.**



TECHNICAL DATA	AC 400			
	G 1"	G 1"1/4	G 1"1/2	G 2"
Threaded port	G 1"	G 1"1/4	G 1"1/2	G 2"
Residual oil at 20°C *	mg/m <sup>3</sup> 0,003			
Duration of cartridge *	Hours 1000			
Max. inlet pressure	MPa 1.3			
	Bar 13			
	psi 188			
Fluid	0,01 µm filtered and deputed air			
Max temperature at: 1 MPa; 10 bar; 145 psi	°C 50			
	°F 122			
Weight	Kg 4.2		5	
Wall fixing screws	M6x110			
Mounting position	In any position			
Notes on use	Upstream it's necessary to mount a coalescence filter deparator of 0,01mm. Series 400 end plates come with a patented system with a rotary sliding end joint to allow the unit to be adapted to the pipe cutting distance.			
* if the load loss of 75 mbar is not exceeded				

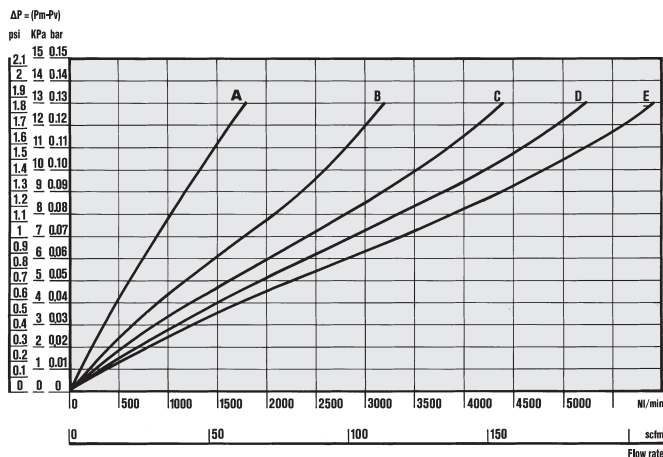
DIMENSIONS	AC 400			
	G 1"	G 1"1/4	G 1"1/2	G 2"
Threaded port	G 1"	G 1"1/4	G 1"1/2	G 2"
A	225÷255			283÷313
B	320			
C	116			
D	105			
E	141.4			
F	80			
G	G 1"	G 1"1/4	G 1"1/2	G 2"
H	105.4			
I	52.5			
L	M6 hole			
M	378			





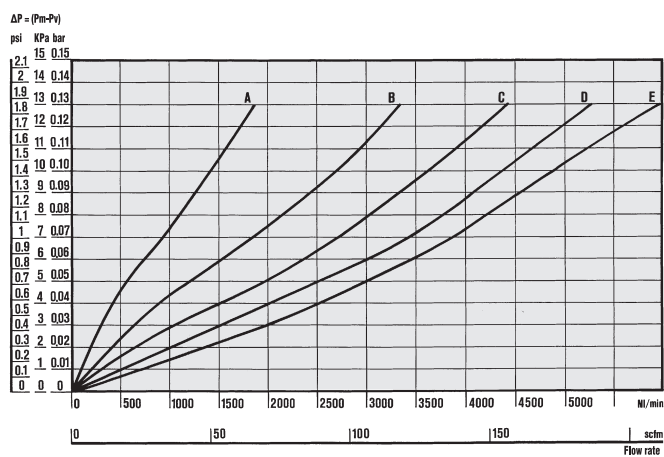
## FLOW CHARTS

### AC 400 1"



- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

### AC 400 2"



- A = 2 bar - 0,2 MPa - 29 psi
- B = 4 bar - 0,4 MPa - 58 psi
- C = 6 bar - 0,6 MPa - 87 psi
- D = 8 bar - 0,8 MPa - 116 psi
- E = 10 bar - 1 MPa - 145 psi

## KEY TO CODES

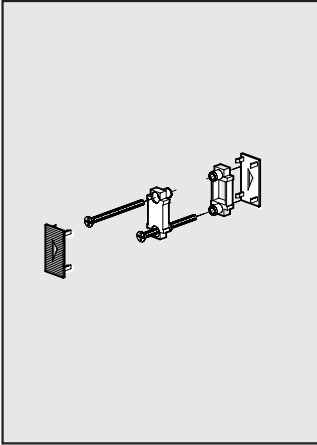
AC ELEMENT	100 SIZE	1/4 THREADED PORT	RMSA TYPE	RMSA: Manual/semi-auto drain.
AC: ACTIVE CARBON	100	1/4	RMSA	
	200	3/8		
		1/4		
	300	3/8		
		1/2		
	400	3/4		
		1		
		1		
		1 1/4		
		1 1/2		
		2		

## ORDERING CODES

Code	Description	Code	Description
SKILLAIR 100 ACTIVE CARBON FILTER		SKILLAIR 300 ACTIVE CARBON FILTER	
3288003A	FIL AC 100 RMSA WITHOUT END PLATES	4488003A	FIL AC 300 RMSA WITHOUT END PLATES
3288003	FIL AC 100 1/4 RMSA	4488003	FIL AC 300 1/2 RMSA
3388003	AC 100 3/8 RMSA	4588003	FIL AC 300 3/4 RMSA
		4688003	FIL AC 300 1 RMSA
SKILLAIR 200 ACTIVE CARBON FILTER		SKILLAIR 400 ACTIVE CARBON FILTER	
3488003A	FIL AC 200 RMSA WITHOUT END PLATES	6188003A	FIL AC 400 RMSA WITHOUT END PLATES
3488003	FIL AC 200 1/4 RMSA	6188003	FIL AC 400 1 RMSA
3588003	FIL AC 200 3/8 RMSA	6288003	FIL AC 400 1 1/4 RMSA
3688003	FIL AC 200 1/2 RMSA	6388003	FIL AC 400 1 1/2 RMSA
		6488003	FIL AC 400 2 RMSA

# ACCESSORIES

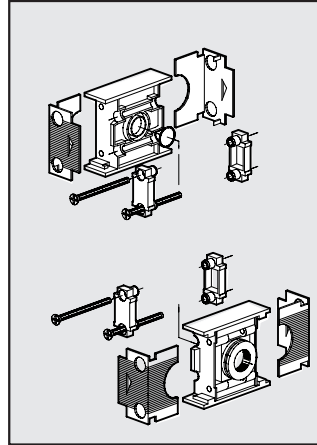
## CONNECTOR KIT FOR SKILLAR CODE "A"



Code Description

- 9230301 ACC. CONNECTOR KIT 100
- 9330301 ACC. CONNECTOR KIT 200
- 9430301 ACC. CONNECTOR KIT 300
- 9630301 ACC. CONNECTOR KIT 400

## INPUT/OUTPUT END PLATE KIT

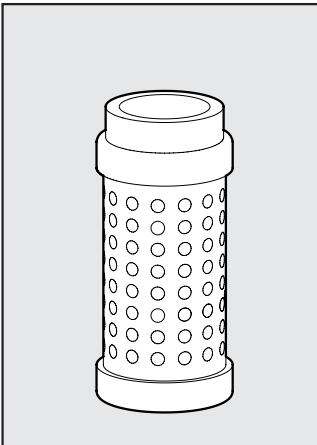


Code Description

- 9230401 ACC. IN/OUT END PLATE KIT 100 1/4
- 9330501 ACC. IN/OUT END PLATE KIT 100 3/8
- 9330601 ACC. IN/OUT END PLATE KIT 200 1/4
- 9330701 ACC. IN/OUT END PLATE KIT 200 3/8
- 9330801 ACC. IN/OUT END PLATE KIT 200 1/2
- 9430701 ACC. IN/OUT END PLATE KIT 300 1/2
- 9530901 ACC. IN/OUT END PLATE KIT 300 3/4
- 9531001 ACC. IN/OUT END PLATE KIT 300 1"
- 9631001 ACC. IN/OUT END PLATE KIT 400 1"
- 9631101 ACC. IN/OUT END PLATE KIT 400 1 1/4"
- 9631201 ACC. IN/OUT END PLATE KIT 400 1 1/2"
- 9631301 ACC. IN/OUT END PLATE KIT 400 2"

# SPARES

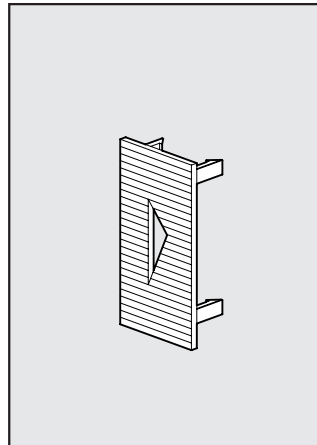
## CARTRIDGE AC



Code Description

- 9251713 SPARES CARTRIDGE 100 AC
- 9351713 SPARES CARTRIDGE 200 AC
- 9451713 SPARES CARTRIDGE 300 AC
- 9651712 SPARES CARTRIDGE 400 AC

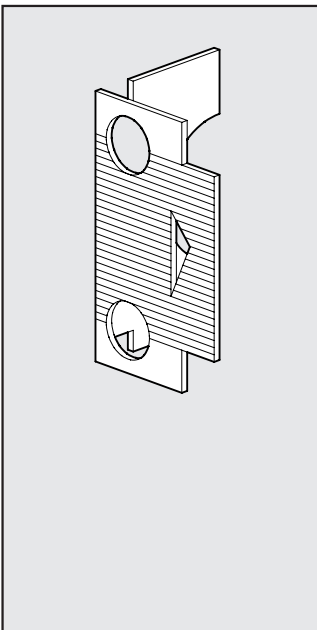
## INTERMEDIATE COVER PLATE



Code Description

- 9152107 SPARES INTERMEDIATE COVER PLATE 100
- 9152114 SPARES INTERMEDIATE COVER PLATE 200
- 9152108 SPARES INTERMEDIATE COVER PLATE 300
- 9152117 SPARES INTERMEDIATE COVER PLATE 400

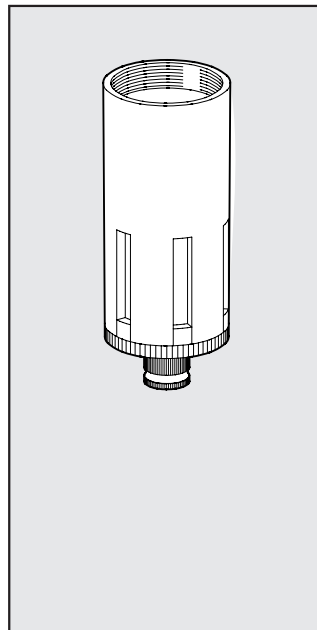
## INPUT/OUTPUT COVER PLATE



Code Description

- 9152103 SPARES OUTPUT COVER PLATE 100
- 9152105 SPARES INPUT COVER PLATE 100
- 9152115 SPARES OUTPUT COVER PLATE 200
- 9152116 SPARES INPUT COVER PLATE 200
- 9152104 SPARES OUTPUT COVER PLATE 300
- 9152106 SPARES INPUT COVER PLATE 300
- 9152118 SPARES OUTPUT COVER PLATE 400
- 9152119 SPARES INPUT COVER PLATE 400

## FILTER BOWL



Code Description

- 9253301 SPARES TF 100 RMSA
- 9353301 SPARES TF 200 RMSA
- 9453301 SPARES TF 300 RMSA
- 9653301 SPARES TF 400 RMSA