PRESENTATION

- *Large choice of filtering capacities for oil and water aerosols: 5, 10, 25 and 50 mm*
- *Condensate level control with manual, semi-automatic or automatic drain integrated in the body*
- *Compatible for use in major industrial environments: polycarbonate bowl with protector*



SPECIFICATIONS

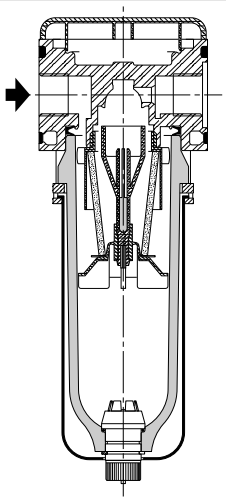
FLUID : Compressed air or neutral gas

RANGE	105	107	112	112
PORTS	G1/8 - G1/4	G1/8 - G1/4	G1/4...G1/2	G3/4
MAX. INLET PRESSURE (4) (bar) at 23° C	12	16	16	16
at 50° C	10	10	10	12
AMBIENT TEMPERATURE	0° C to +50° C			
MAX. FLOW (Qv at 6.3 bar)	See table below and charts			

INDIVIDUAL SPECIFICATIONS AND CONSTRUCTION

■ MODULAIR 105 range
Filtering capacity: 25 µm and 5 µm
Filtering element of polyethylene (PE)
Glass-fibre reinforced polyamide body (PA)
Polycarbonate bowl (PC), UV resistant
Condensate drain: semi-automatic (operating pressure: min. 1.2 bar) or manual (as option)

■ MODULAIR 107 and 112 ranges
Filtering capacity: 25 µm and 5 µm (10 and 50 µm on request)
Filtering element of polyethylene (PE)
Painted zamak body
Polycarbonate bowl (PC), UV resistant, with or without bowl protector
Bowl protector with safety lock and condensate level viewing window
Metal bowl for Modulair 112 range (see page 50)
Polyamide bowl as option
Condensate drain: semi-automatic (operating pressure: min. 1.2 bar) or pipable automatic (operating pressure: 2 to **10 bar**) or manual drain as option.



Modulair 107-112

CHOICE OF EQUIPMENT

port size	MODULAIR range	bowl capacity total (cm³)	bowl capacity useful (cm³)	maximum flow (at 10 bar / ΔP 1,5 bar) 25 µm (1) l/min (ANR)	maximum flow (at 10 bar / ΔP 1,5 bar) 25 µm (1) dm³/s (ANR)	code filter semi-automatic drain 25 µm	code filter semi-automatic drain 5 µm (1)	code filter automatic drain 25 µm	code filter automatic drain 5 µm (1)
Polycarbonate bowl WITH protector									
G1/8	**105**	28	10	890 (5)	14,8	**34225213**	**34225253**	-	-
G1/4	**105**	28	10	1050 (5)	17,5	**34225214**	**34225254**	-	-
G1/8	**107**	50	12	1030 (5)	17	**34204011**	**34204015**	-	-
G1/4	**107**	50	12	1800 (5)	30	**34204012**	**34204016**	-	-
G1/4	**112**	114	40	2600	43,3	**34203001**	**34203007**	**34203013**	**34203019**
G3/8	**112**	114	40	3000	50	**34203002**	**34203008**	**34203014**	**34203020**
G1/2	**112**	114	40	3800	63,3	**34203003**	**34203009**	**34203015**	**34203021**
Metal bowl WITH visualization (others versions see page 27)									
G3/4 (2)	**112**	114	40	5000	83,3	**34203A03**	**34203A09**	**34203A01**	**34203A07**
G3/4 (3)	**112**	114	40	5000	83,3	**34203A23**	**34203A29**	**34203A21**	**34203A27**
Polycarbonate bowl WITHOUT protector									
G1/8	**105**	28	10	890 (5)	14,8	**34225133**	**34225173**	-	-
G1/4	**105**	28	10	1050 (5)	17,5	**34225134**	**34225174**	-	-
G1/8	**107**	50	12	1030 (5)	17	**34204023**	**-**	**-**	**-**
G1/4	**107**	50	12	1800 (5)	30	**34204024**	**-**	**-**	**-**
G1/4	**112**	114	40	2600	43,3	**34203038**	**-**	**34203360**	**-**
G3/8	**112**	114	40	3000	50	**34203039**	**-**	**34203361**	**-**
G1/2	**112**	114	40	3800	63,3	**34203040**	**-**	**34203362**	**-**

(1) With a 5 µm filtering element flow is reduced by approx. 15%
(2) Non intented for the combination
(3) Version intended for the combination of various functions (FRL - isolation valve etc ...), select the desired functions and obtain the necessary assembly kits and mounting brackets (see page 42)
(4) P max= 10 bar for version with automatic drain
(5) at 6,3 bar/ΔP 1 bar

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INSTALLATION

Each system must be installed with the bowls in vertical position (at the bottom).
Air flow direction indicated by arrow and "IN" - "OUT" marking on body (Modulair 105).

MAINTENANCE

Use an alkaline solution (soapy water) and not a solvent for cleaning the polycarbonate bowls and sight glasses

ACCESSORIES see page 42

OPTIONS

- Metal bowl equipped with semi-automatic, automatic or manual drain for Modulair 112 range (see page 26)
- Polyamide bowl with protector for use in solvent-charged environments for Modulair 107 and 112 ranges
- Manual drain for Modulair 105, 107 and 112 ranges - code **662563** (Modulair 112 - fits on semi-automatic drain version only)
- G3/4 version for Modulair 112 with polycarbonate bowl **with** bowl protector, controlled pressure range 0,5 – 10 bar, use code for G1/2 version + option code **662600**, example: 34203003 + 662600
- Filtering capacity, 10 µm: code **662555** (Modulair 107 range) - code **662535** (Modulair 112 range)
  50 µm: code **662556** (Modulair 107 range) - code **662536** (Modulair 112 range)

Modulair 107 and 112 range filtering elements are colour-coded as follows:
5 µm = white 10 µm = red
25 µm = yellow 50 µm = green

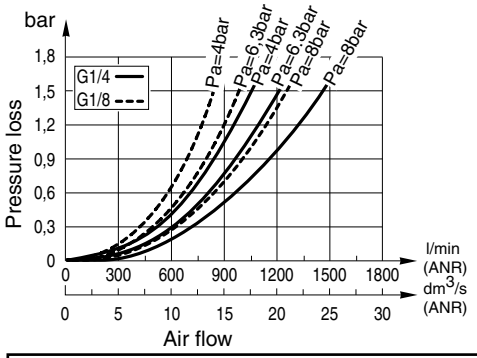
- Equipment for use in potentially **explosive atmospheres** caused by dusts or gases (ATEX Directive 94/9/EC)

zones	(Ex) classification	gas group	ATEX option code Modulair 105	Modulair 107 with bowl protector	Modulair 107 without bowl protector	Modulair 112 with bowl protector	Modulair 112 without bowl protector
2-22	II3GD **c** T 85°C (T6)	IIA-IIB-IIC	**612077**	**612073**		**612021**	
1-21	II2GD **c** IIB T85°C (T6)	IIB	**612076**	**612072**		**612023**	
1-21	II2GD **c** IIC T85°C (T6)	IIC	-	**612064**	-	**612062**	-

PRESSURE LOSS VERSUS AIR FLOW CURVES

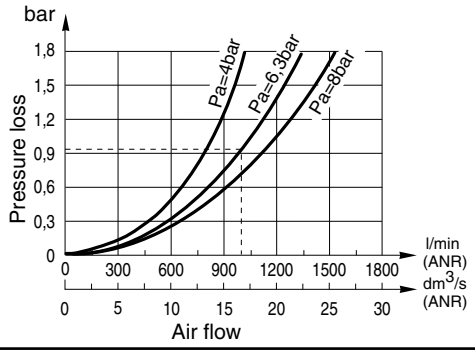
MODULAIR 105

G 1/8 - G 1/4

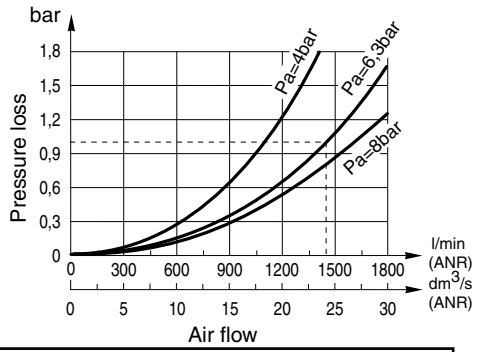


MODULAIR 107

G 1/8

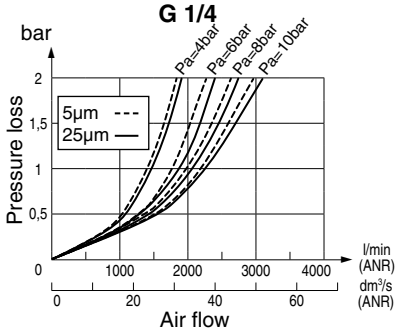


G 1/4

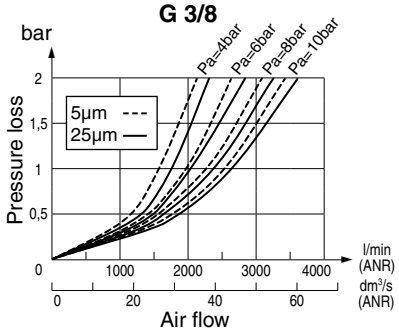


MODULAIR 112

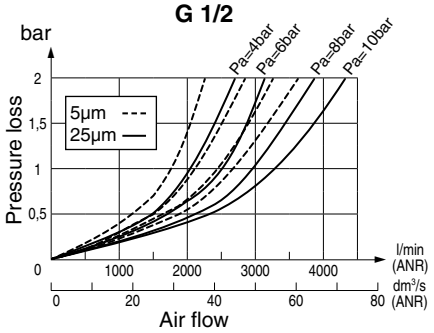
G 1/4



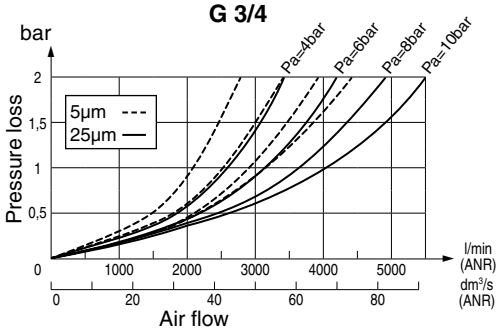
G 3/8



G 1/2



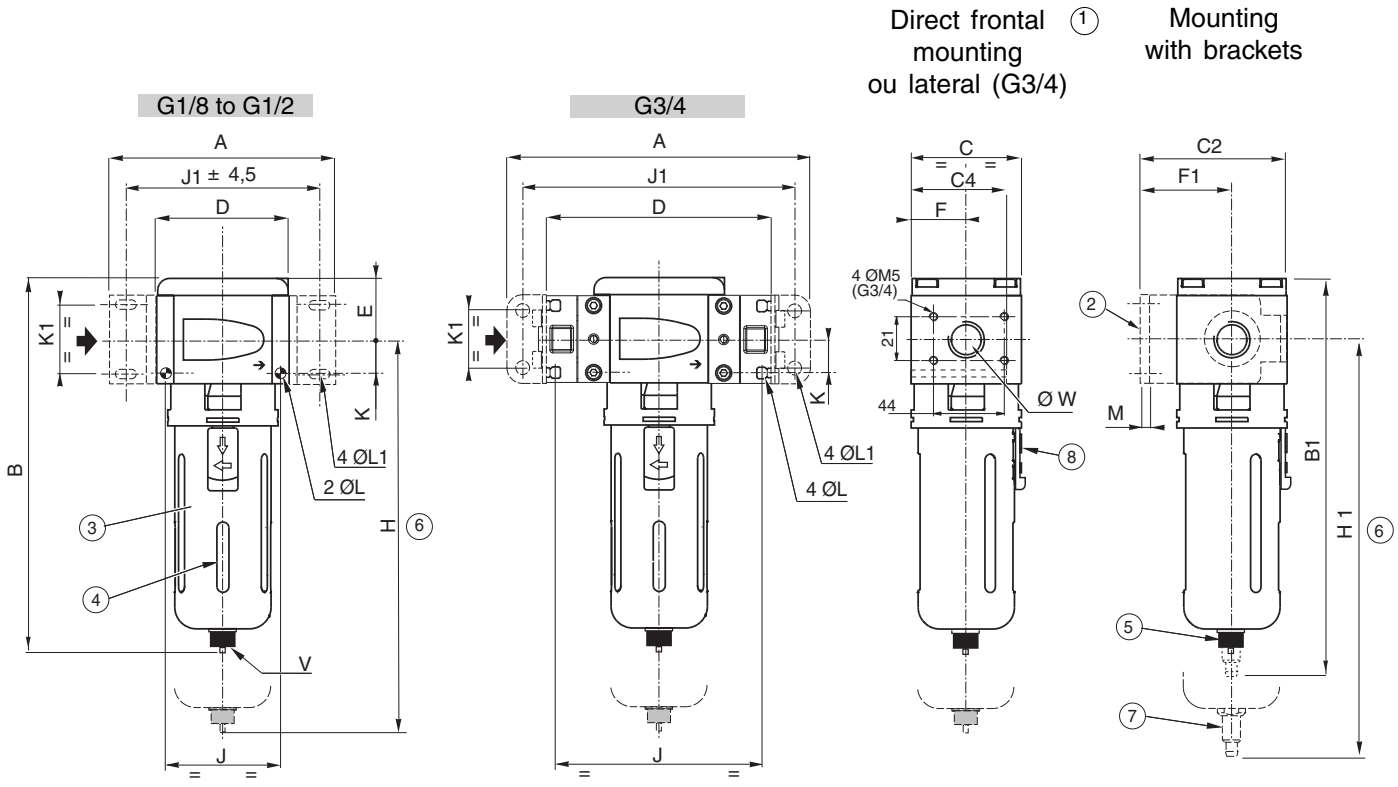
G 3/4



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DIMENSIONS AND WEIGHTS

MODULAIR 107 - 112



range	Modulair 107	Modulair 112	Modulair 112
Ø W	G1/8 G1/4	G1/4 G3/8 G1/2	G3/4
bowl (cl)	7	12	12
A	83	112	154
B	159,5	187	187
B1	-	198	198
C	42	55	55
C2	61	73,5	69,5
C4	38	47,5	55
D	42	66	114
E	25,5	30,5	30,5
F	21	27,5	27,5
F1	40	46	42
H	190	221,5	221,5
H1	-	232,5	232,5
J	32	57	105
J1	68,5	96	138
K	10	17	17
K1	28	33,5	29
ØL	4,1	5,5	4
ØL1	4,5	5,5	7
M	3	4	2
V	G1/8	G1/8	G1/8
Weight (kg)	0,280	0,700 0,780 (1)	1,030 1,110 (1)

(1) weight with automatic drain

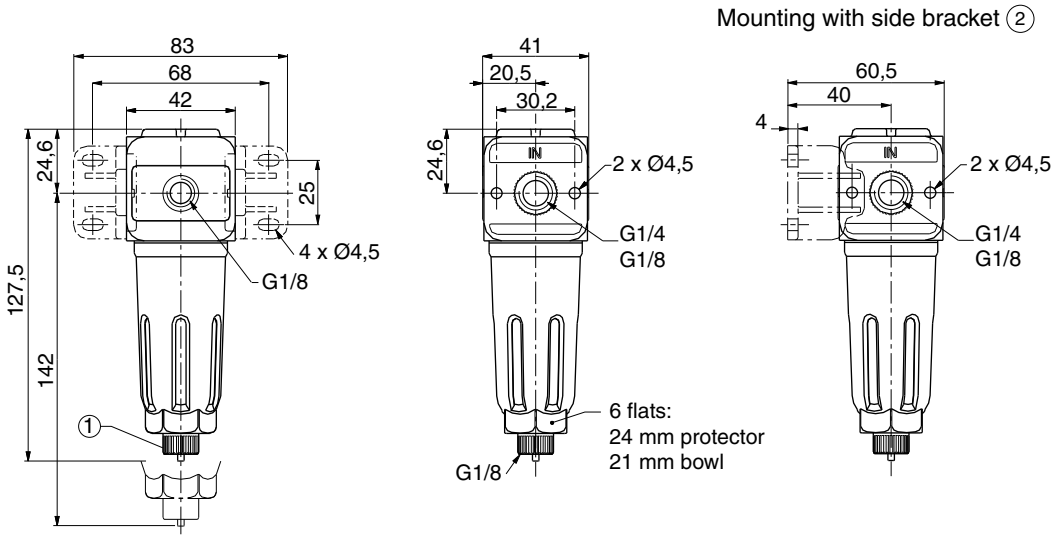
(1) Direct frontal mounting (G1/8 - G1/2) : 2 holes ØL and depth C4
(2) Mounting with 2 side brackets (accessory)
(3) Metal bowl protector with transparent polycarbonate bowl
(4) Condensate level window (short slot)
(5) G 1/8 connectable semi-automatic drain
(6) Clearance necessary for removing bowl
(7) Automatic drain with fitting for connection of 6 mm ID hose (Modulair 112 range)
(8) Protector unlocking button

H

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DIMENSIONS EAND WEIGHTS
Weight : 0,134 kg

MODULAIR 105



(1) Semi-automatic drain, connectable to G1/8
(2) Mounting with side bracket (accessory)

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