numatics®

FILTER AND FILTER/REGULATOR SYSTEMS
CLARIFIAIR SUBMICRONIC UNITS
Modulair 112 - G 1/4 to G 1/2
METAL BOWL (with or without sigh glass)

PRESENTATION
- *Resistance to high temperatures (+50°C)*
- *Resistance to impact, UV light and solvents*
- *Bowl always locked in place during operation*
- *high levels of filtration (CLARIFIAIR systems)*
  - *of solid particles (0.01 µm),*
  - *aerosols of oil and water (0.01 ppm).*

SPECIFICATION
FLUID	: Compressed air or neutral gas
PORTS	: G 1/4, G 3/8 and G1/2
MAX. INLET PRESSURE	: 12 bar at 50°C
AMBIENT TEMPERATURE	: +1.5°C to +50°C
MAX. FLOW (Qv at 6.3 bar)	: see table below

SELF-RELIEVING PREFILTER/REGULATOR

COMPOSITION OF SYSTEMS
PREFILTER + SUBMICRON FILTER SYSTEM
Consisting of a 5 µm capacity prefilter and a 0.01 µm capacity submicron filter (see opposite)

PREFILTER/REGULATOR + SUBMICRON FILTER SYSTEM
Consisting of a 5 µm capacity prefilter/regulator (no pressure gauge) and a 0.01 µm capacity submicron filter
Controlled pressure: 0,5 to 10 bar (other adjustment range, in option)

INDIVIDUAL SPECIFICATION
FILTERING CAPACITY : 0.01 µm
SEMI-AUTOMATIC DRAIN (operating pressure: 1.2 to 12 bar)

CONSTRUCTION
PREFILTER or PREFILTER/REGULATOR
- Zamak body
- Polyethylene (P-E) 5 µm filtering element

SUBMICRON FILTER
- Zamak body
- 0.01µm coalescent filtering element

ALL MODELS
- Aluminium bowl and with semi-automatic drains (automatic and manual drains on request)
- Max. condensate level sight glass

INSTALLATION - MAINTENANCE
Systems must be installed with the bowls in vertical position
Air flow direction indicated by arrow
Both products include a special Clarifiair assembly kit

(A) Max. condensate level sight glass

CHOICE OF EQUIPMENT

| MODULAIR	port size	bowl capacity		maximum flow at 6.3 bar max. ΔP: 0.350 bar		code system	
						prefilter + Submicron filter with semi-automatic drains	prefilter/regulator + Submicron filter (no pressure gauge) with semi-automatic drains
type		totale	utile				
		(cm³)	(cm³)	l/min (ANR)	dm³/s (ANR)		
Metal bowl WITHOUT visualization							
	G1/4	114	40	1050	17,5	**34203885**	34203879
112	G3/8	114	40	1050	17,5	**34203886**	34203880
	G1/2	114	40	1050	17,5	**34203887**	34203881
Metal bowl WITH visualization							
	G1/4	114	40	1050	17,5	**34203918**	34203912
112	G3/8	114	40	1050	17,5	**34203919**	34203913
	G1/2	114	40	1050	17,5	**34203920**	34203914

ACCESSORIES (see page P710-41)

OPTIONS
- Automatic drains (operating pressure: 2 to **10 bar**)
- Manual drains (Modulair 112 - fits on semi-automatic drains only)
- Prefilter/regulator:
  - Adjustment range 0.2 to 3 bar or 0.5 to 12 bar
  - Key locking device for adjustment knob attached to knob, code **662 554** (supplied installed)
- For filter, filter/regulator
  - Metal bowl with 2 glass visualization windows, code: **662594**
  - Metal bowl with 2 polyamide visualization windows, code: **662596**
- Equipment for use in potentially **explosive atmospheres** caused by dusts or gases (ATEX Directive 94/9/EC)
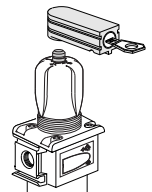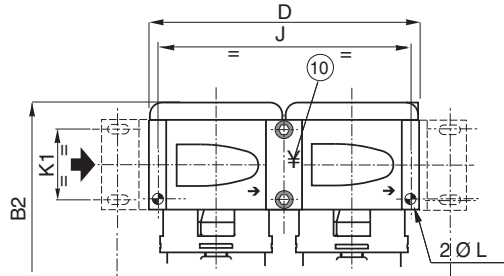
zones	⟨Ɛx⟩ classification	gas group	ATEX option code
2-22	II3GD **c** T 85°C (T6)	IIA-IIB-IIC	**612022**
1-21	II2GD **c** IIC T85°C (T6)	IIC	**612063**

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All leaflets are available on: **www.asconumatics.eu**
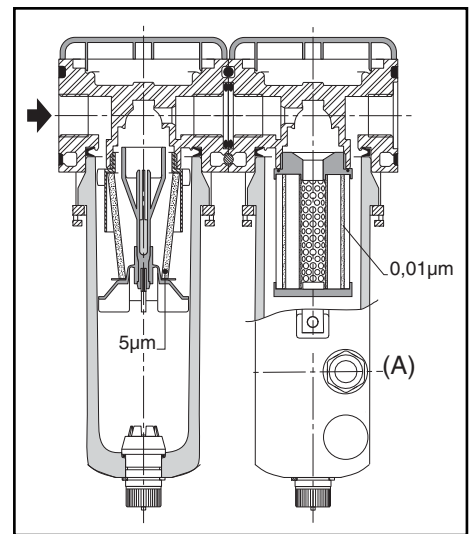
DIMENSIONS AND WEIGHTS

**PREFILTER
+ SUBMICRON
CLARIFIAIR
FILTER SYSTEM**
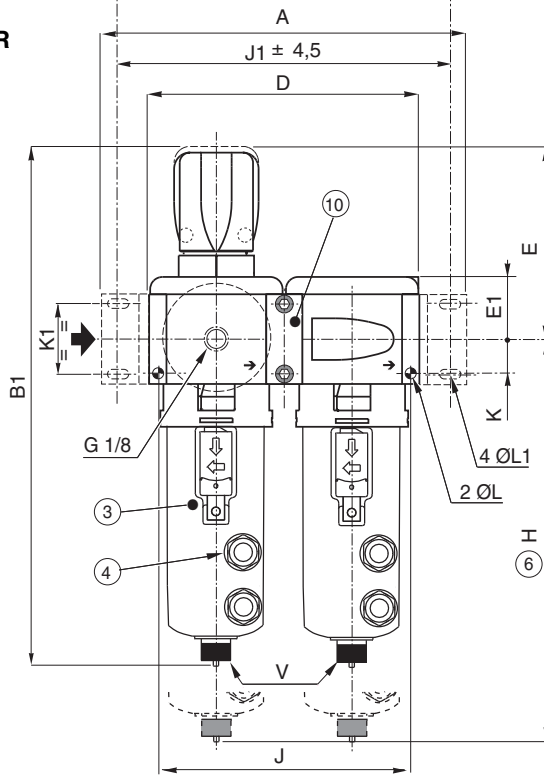
Direct front mounting ①   Mounting with brackets

**PREFILTER/REGULATOR
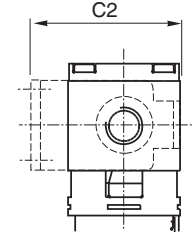+ CLARIFIAIR
SUBMICRON FILTER
SYSTEM**
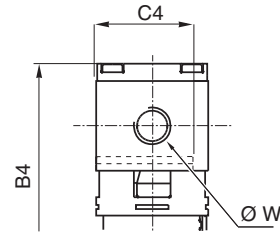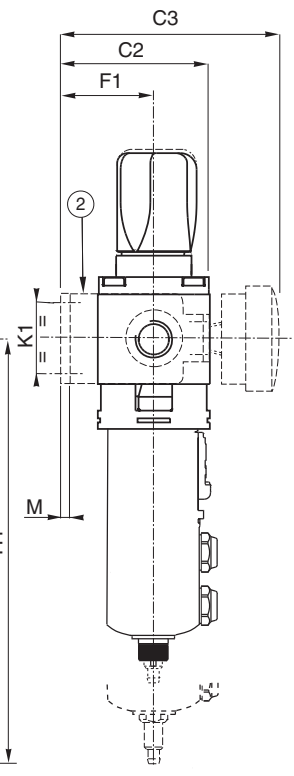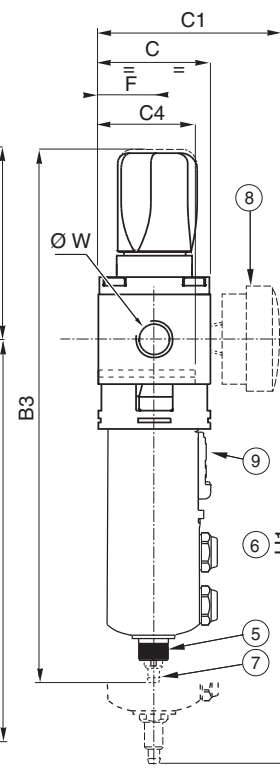
Range	Modulair 112
Ø W	G1/4
	G3/8
	G1/2
bowl (cl)	12
A	178
B1	250,5
B2	191
B3	262,5
B4	202
C	55
C1	87
C2	73,5
C3	105
C4	47,5
D	132
D1	66
E	94,5
E1	65
F	27,5
F1	46
H	221,5
H1	232,5
J	123
J1	162
K	17
K1	33,5
ØL	5,5
ØL1	5,5
M	4
ØT	G3/8
V	G1/8

① Direct frontal mounting: 2 holes of dia. L and depth C4
② Mounting with 2 side brackets (accessory)
③ Metal bowl
④ Max. condensate level window
⑤ G 1/8 connectable semi-automatic drain
⑥ Clearance necessary for removing bowls
⑦ Automatic drain with fitting for connection of 6 mm ID hose (Modulair 112 range)
⑧ 50 mm dia. pressure gauge

⑨ Protector unlocking button
⑩ Special Clarifiair assembly kit - code: **34303002**
⑪ By-pass module available as an accessory:
   3 air ports (dia. T) at front, bottom and back,
   supplied with 2 pre-installed plugs
   Adjustable pressure switch to be fitted on top.
   Add the value D1 to dimensions A, D, J and J1
   (see below)
NOTE: To install by-pass module, procure one addtional
standard assembly kit ⑫ code: **34303001**

weight (kg)	
prefilter + clarifiair Submicron filter	**prefilter/regulator + clarifiair Submicron filter**
Modulair 112	**Modulair 112**
1,450[1]	1,580[1]
1,610[2]	1,740[2]

(1) Weight without pressure gauge
(2) Weight without pressure gauge and with automatic drains

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