

AIR PREPARATION UNITS

FRCL MODULAR WITH METAL BOWL Series FRCLM1-MM

Cat No FRCLM1-MM - 01 - 01 - A

FILTER REGULATOR COMBINATION - LUBRICATOR, MODULAR - 1/4, 3/8, 1/2, 3/4, 1"

Individual Filter- Regulator combination & Lubricator units easily removable / mountable without disturbing the pipe line

Features

- ☐ For higher pressure range above 10 bar
- Modular type for easy and fast maintenance
- Suitable for wall mounting
- □ Filter Bronze filtering element
 - Separator and shield for efficient moisture separation
 - Press type manual drain for easy operation
- Regulator Diaphragm operated, relieving type
 - Pressure compensated by balanced poppet
 - Flow compensated (with venturi) in models FRCLM14, FRCLM15 and FRCLM17 for faster response
 - Non raising 'Press to lock' adjusting knob for locking at any set pressure
- Lubricator Fog / Mist type Lubricator
 - Fine adjustment of lubrication
 - Lubrication proportional to flow
- Metal bowl- Aluminium
 - Bayonet type on FRCLM17 models
 - Direct mounting type on FRCLM13, FRCLM14, FRCLM15 models
- ☐ Good flow and regulating characteristics

Technical Specifications

Model	FRCLM13-MM	FRCLM14-MM	FRCLM15-MM	FRCLM17-MM	FRCLM17-MM	
Medium	Compressed air					
Port size	G1/4	G3/8	G1/2	G3/4	G1	
Pressure gauge port size	G1/8 G1/4					
Flow rate in Its / min @	500	500 1250 2800		3500	4000	
Max supply pressure in bar	20					
Regulating pressure range in bar #	0.2 - 2, 0.2 - 4, 0.5 - 7, 0.5 - 10 (Standard)					
Ambient temperature	-10° to +60° C					
Medium temperature	+5° to 50° C					
Filteration in microns #	1, 5, 25, 40 (standard), 50, 100					
Min operating flow in NI / min	12 40 45		50	50		
Bowl capacity FRC in ml (at maximum condensate level)	9	64	90	165	165	
Bowl capacity Lubricator in ml (at maximum condensate level)	20	100	200	200	200	
Recommended oil	ISO VG 32 (Servo System 32)					
Bowl material	Aluminium					
Installation	Vertical (as shown in the picture)					
Materials of construction	Aluminium, Bronze, Brass, Steel, Acetal, SS, Nitrile					
Optional accessories *	Pressure gauge					
Weight in Kg	0.64 1.27 2.56 4.28 4.17			4.17		

 $^{^{\}circ}$ Supply pressure 7 bar, Set pressure 6 bar, Pressure drop Δp = 1 bar (For standard models).



^{*} For details see " How to order ".

^{*} For details refer optional accessories Cat No APA - 01 - C

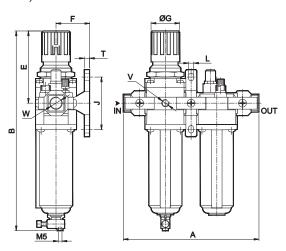


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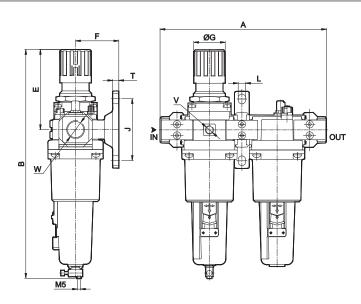
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Model FRCLM13-MM, FRCLM14-MM, FRCLM15-MM



Model FRCLM17-MM



Model	w	v	Α	В	E	F	GØ	J	L	т
FRCLM13-MM	G1/4	G1/8	146	170	68	35	28	50	7	7
FRCLM14-MM	G3/8	G1/8	182	265	95	45	40	70	7	7
FRCLM15-MM	G1/2	G1/8	220	330	125	55	51	90	9	9
FRCLM17-MM	G3/4	G1/4	270	370	130	70	51	100	12	10
FRCLM17-MM	G1	G1/4	270	370	130	70	51	100	12	10

Precautions

- 1. Note the direction of flow before installation and connect piping accordingly.
- 2. Flush pipings for dirt, dust, rust and other foreign particles.
- 3. Install in clean atmosphere.
- 4. Nipples of taper threads (R) to be used with teflon tape. Ensure teflon tape doesnot enter the unit during tightening. Nipples of straight threads (G) to be used with sealing washer.

Pressure Setting

Pull the knob and adjust by turning the knob clockwise to increase the pressure. Push the knob back to its locked position. (Turning the knob counter clockwise will reduce the pressure)

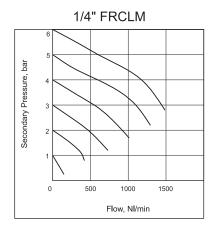


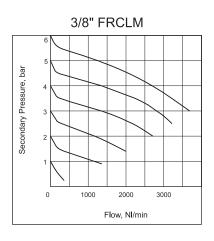
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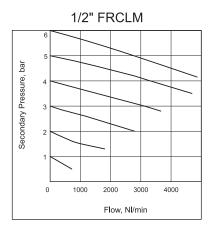
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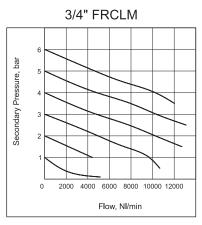
Cat No FRCLM1-MM - 01 - 01 - A

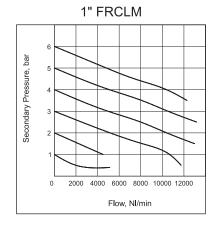
Flow Graphs





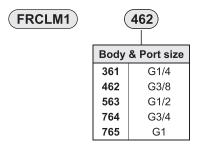




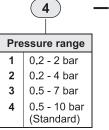


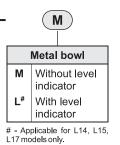
Flow graphs are for 40µm filtrations only

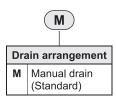
How to order



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F	iltration in µm			
0	- 1			
1	- 5			
2	- 25			
3	- 40 (Standard)			
4	- 50			
5	- 100			
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Ordering example:

Filter Regulator Combination and Lubricator Modular - 3/8 size (with G3/8 port) with 5µm Filter and pressure range 0.5 - 7 bar, Metal bowl without level indicator and Manual drain: Ordering No: FRCLM 146213-MM

If ordered as 3/8 FRCLM, our standard model **FRCLM 146234**, with 40µm Filter and pressure range 0.5 - 10 bar will be supplied.