

AIR PREPARATION UNITS

FRL MODULAR WITH METALBOWL Series FRLM1-MM

Cat No FRLM1-MM - 01 - 01 - A

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

Individual Filter, Regulator & 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 FRLM14, FRLM15 and FRLM17 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 FRLM13, FRLM14, FRLM15 models
- Good flow and regulating characteristics

Technical Specifications

Model	FRLM13 - MM	FRLM14 - MM	FRLM15 - MM	FRLM17 - MM	FRLM17 - 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 NI / min [@]	500	2000	3500	3500	5000					
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	12 40 4		50	50					
Bowl capacity Filter 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	Any position for Regulator. Vertical for Filter and Lubricator									
Materials of construction	Aluminium, Bronze, Brass, Steel, Acetal, SS, Nitrile									
Optional accessories *	Pressure gauge									
Weight in Kg	0.73	1.50	2.94	5.03	4.97					

[®] 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

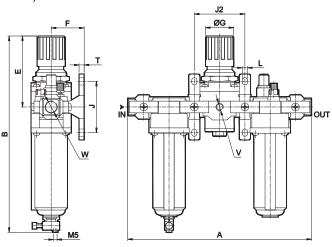


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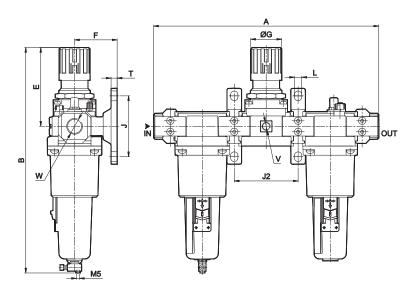
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Model FRLM13-MM, FRLM14-MM, FRLM15-MM



Model FRLM17-MM



Model	w	V	Α	В	E	F	ØG	J	L	Т	J2
FRLM13 - MM	G1/4	G1/8	200	170	68	35	28	50	7	7	52
FRLM14 - MM	G3/8	G1/8	250	270	95	45	40	70	7	7	69
FRLM15 - MM	G1/2	G1/8	305	328	125	55	51	90	9	9	86
FRLM17 - MM	G3/4	G1/4	370	366	130	70	51	100	12	10	105
FRLM17 - MM	G1	G1/4	370	366	130	70	51	100	12	10	105

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 doesn't 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)

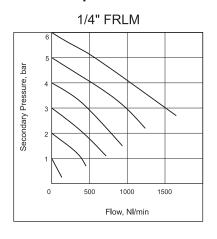


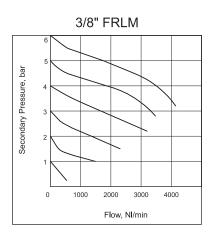
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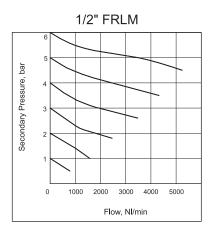
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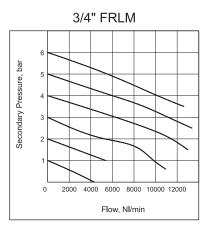
Cat No FRLM1-MM - 01 - 01 - A

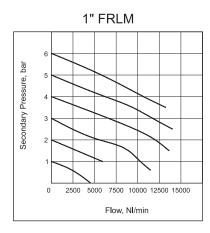
Flow Graphs







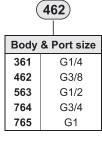


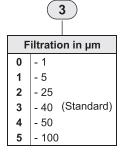


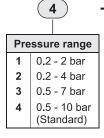
Flow graphs are for 40µm filtrations only

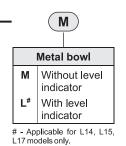
How to order

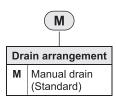












Ordering example:

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

If ordered as 3/8 FRLM, our standard model **FRLM 146234**, with $40\mu m$ Filter and pressure range 0.5 - 10 bar will be supplied.