

FIL + REG + LUB Newdeal



Highly reliable heavy-duty piston-operated FRL unit.

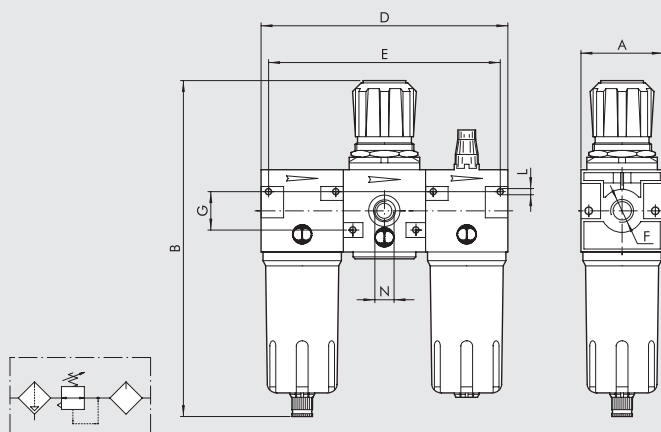
- Stability of the set pressure as the upstream pressure varies
- Metal bowl with external sight glass
- Semi-automatic and automatic condensate drain
- Lubrication proportional to flow rate
- Micrometric lubrication regulation
- Activation guaranteed with low flow rates

Refer to the sections on the single modules for a further description, components and other technical data.



TECHNICAL DATA		FRL ND 1/4"	FRL ND 3/8"	FRL ND 1/2"	FRL ND 3/4"	FRL ND 1"
Threaded port		1/4"	3/8"	1/2"	3/4"	1"
Setting range	bar	0 to 8 - 0 to 12	0 to 8 - 0 to 12	0 to 8 - 0 to 12	0 to 8 - 0 to 12	0 to 8 - 0 to 12
Degree of filtration	µm	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50
Max. inlet pressure	MPa	1.8	1.8	1.8	1.8	1.8
	bar	18	18	18	18	18
	psi	261	261	261	261	261
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	NI/min	140	1300	1900	2000	2000
	scfm	5	46	68	71	71
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 1 bar (0.1 MPa to 14 psi)	NI/min	400	2000	3600	3700	3700
	scfm	14.2	71	128	132	132
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50	50	50	50	50
	°F	122	122	122	122	122
Weight	kg	1	2.5	4	4	4
Wall fixing screws		M4 x 40	M4 x 55	M6 x 75	M6 x 75	M6 x 75
Fluid		Compressed air				
Note on use		The maximum inlet pressure for the version with RA automatic condensate drainage must not exceed 10 bar.				
		Do not take air from pressure gauge ports.				

DIMENSIONS



	FRL ND 1/4"	FRL ND 3/8"	FRL ND 1/2"	FRL ND 3/4"	FRL ND 1"
Threaded port F	1/4"	3/8"	1/2"	3/4"	1"
A	42	60	80	80	80
B	RMSA 190	245	332	332	332
	RA -	249	336	336	336
	SAC 194	249	336	336	336
D	126	180	240	240	240
E	116	166	226	226	226
G	20	28	44	44	44
L	Hole for M4 screws	Hole for M4 screws	Hole for M6 screws	Hole for M6 screws	Hole for M6 screws
N (pressure gauge port)	1/8"	1/8"	1/4"	1/4"	1/4"

SYNOPTIC, SIZES AND VERSIONS

FRL ELEMENT	1/4 THREADED PORT	4 DEGREE OF FILTRATION	08 SETTING RANGE	RMSA CONDENSATE DRAIN
FRL	1/4	4 = 4 µm 20 = 20 µm 50 = 50 µm	08 = 0 to 8 bar 012 = 0 to 12 bar	RMSA SAC RMSA SAC RA RMSA RA
	3/8			
	1/2			
	3/4			
	1			

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.

RA: automatic drain with condensate discharge, independent of pressure and flow rate.

Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.

SAC: automatic drain with condensate discharge.

Operates by depression – requires variable air take-offs.

ORDERING CODES

Code	Description	Code	Description	Code	Description
FRL 1/4"		FRL 3/8"		FRL 3/4"	
1224029	FRL 1/4 4 08 RMSA	1324029	FRL 3/8 4 08 RMSA	1524017	FRL 3/4 4 08 RMSA
1224409	FRL 1/4 4 08 SAC	1324033	FRL 3/8 4 08 RA	1524021	FRL 3/4 4 08 RA
1224030	FRL 1/4 20 08 RMSA	1324409	FRL 3/8 4 08 SAC	1524018	FRL 3/4 20 08 RMSA
1224410	FRL 1/4 20 08 SAC	1324030	FRL 3/8 20 08 RMSA	1524022	FRL 3/4 20 08 RA
1224032	FRL 1/4 50 08 RMSA	1324034	FRL 3/8 20 08 RA	1524020	FRL 3/4 50 08 RMSA
1224412	FRL 1/4 50 08 SAC	1324410	FRL 3/8 20 08 SAC	1524024	FRL 3/4 50 08 RA
1224053	FRL 1/4 4 012 RMSA	1324032	FRL 3/8 50 08 RMSA	1524029	FRL 3/4 4 012 RMSA
1224413	FRL 1/4 4 012 SAC	1324036	FRL 3/8 50 08 RA	1524033	FRL 3/4 4 012 RA
1224054	FRL 1/4 20 012 RMSA	1324412	FRL 3/8 50 08 SAC	1524030	FRL 3/4 20 012 RMSA
1224414	FRL 1/4 20 012 SAC	1324053	FRL 3/8 4 012 RMSA	1524034	FRL 3/4 20 012 RA
1224056	FRL 1/4 50 012 RMSA	1324057	FRL 3/8 4 012 RA	1524032	FRL 3/4 50 012 RMSA
1224416	FRL 1/4 50 012 SAC	1324413	FRL 3/8 4 012 SAC	1524036	FRL 3/4 50 012 RA
		1324054	FRL 3/8 20 012 RMSA	FRL 1"	
		1324058	FRL 3/8 20 012 RA	1624017	FRL 1 4 08 RMSA
		1324414	FRL 3/8 20 012 SAC	1624021	FRL 1 4 08 RA
		1324056	FRL 3/8 50 012 RMSA	1624018	FRL 1 20 08 RMSA
		1324060	FRL 3/8 50 012 RA	1624022	FRL 1 20 08 RA
		1324416	FRL 3/8 50 012 SAC	1624020	FRL 1 50 08 RMSA
		FRL 1/2"		1624024	FRL 1 50 08 RA
		1424029	FRL 1/2 4 08 RMSA	1624029	FRL 1 4 012 RMSA
		1424033	FRL 1/2 4 08 RA	1624033	FRL 1 4 012 RA
		1424409	FRL 1/2 4 08 SAC	1624030	FRL 1 20 012 RMSA
		1424030	FRL 1/2 20 08 RMSA	1624034	FRL 1 20 012 RA
		1424034	FRL 1/2 20 08 RA	1624032	FRL 1 50 012 RMSA
		1424410	FRL 1/2 20 08 SAC	1624036	FRL 1 50 012 RA
		1424032	FRL 1/2 50 08 RMSA		
		1424036	FRL 1/2 50 08 RA		
		1424412	FRL 1/2 50 08 SAC		
		1424053	FRL 1/2 4 012 RMSA		
		1424057	FRL 1/2 4 012 RA		
		1424413	FRL 1/2 4 012 SAC		
		1424054	FRL 1/2 20 012 RMSA		
		1424058	FRL 1/2 20 012 RA		
		1424414	FRL 1/2 20 012 SAC		
		1424056	FRL 1/2 50 012 RMSA		
		1424060	FRL 1/2 50 012 RA		
		1424416	FRL 1/2 50 012 SAC		

FRPL 3/4"-1" New deal

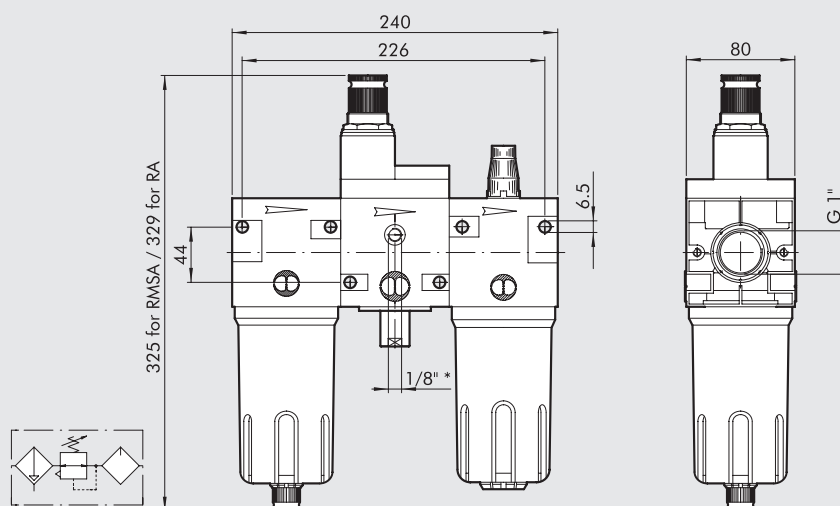


Refer to the sections on the single modules for a further description, components and other technical data.



TECHNICAL DATA		FRPL ND 3/4"	FRPL ND 1"
Threaded port		3/4"	1"
Setting range		0 to 8 - 0 to 12	
Max. temperature at 1 MPa; 10 bar; 145 psi	°C	50	
	°F	122	
Degree of filtration	µm	4 - 20 - 50	
Max. inlet pressure	MPa	1.3	
	bar	13	
	psi	188	
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	l/min	7500	
	scfm	235	
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 1 bar (0.1 MPa to 14 psi)	l/min	8500	
	scfm	266	
Weight	kg	3.6	
Wall fixing screws		M6 x 75	
Drain		RMSA - RA	
		RMSA: manual - semi-auto; RA: automatic.	
Fluid		Compressed air	
Bowl capacity	cm ³	170	
Note on use		The maximum inlet pressure for the version with RA automatic condensate drainage must not exceed 10 bar.	
		Do not take air from pressure gauge ports.	

DIMENSIONS



*Pressure gauge port

UNITS

FRPL 3/4"-1" New deal

FRPL	1/4	4	08	RMSA
ELEMENT	THREADED PORT	DEGREE OF FILTRATION	SETTING RANGE	TYPE OF DRAIN
FRPL	1" 3/4"	4 = 4 μm 20 = 20 μm 50 = 50 μm	08 = 0 to 8 bar 012 = 0 to 12 bar	RMSA RA

FRPL: Filter + pilotable regulator + lubricator.

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FR + LUB Newdeal



Heavy duty and reliable piston-operated FR + L unit.

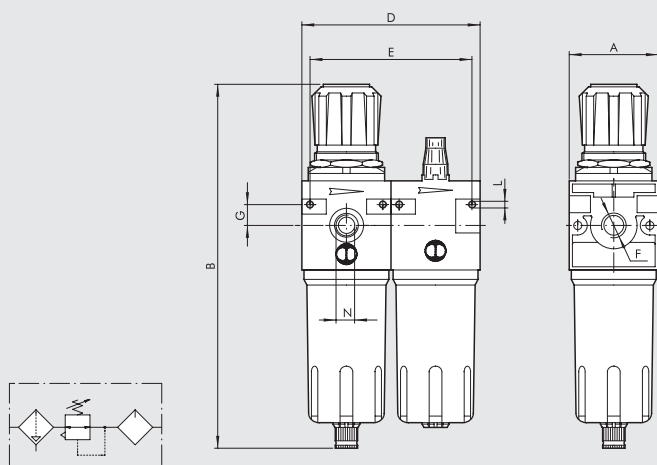
- Stability of the set pressure as the upstream pressure varies
- Metal bowl with external sight glass
- Semi-automatic and automatic condensate drain
- Quantity of lubricant proportioned to air flow
- Micrometric lubrication regulation
- Activation guaranteed with low flow rates

Refer to the sections on the single modules for a further description, components and other technical data.



TECHNICAL DATA		FR + L ND 1/4"	FR + L ND 3/8"	FR + L ND 1/2"
Threaded port		1/4"	3/8"	1/2"
Setting range	bar	0 to 8 - 0 to 12	0 to 8 - 0 to 12	
Degree of filtration	μm	4 - 20 - 50	4 - 20 - 50	
Max. inlet pressure	MPa	1.8	1.8	
	bar	18	18	
	psi	261	261	
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	Nl/min	150	1300	
	scfm	5.3	46	
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 1 bar (0.1 MPa to 14 psi)	Nl/min	500	2200	
	scfm	18	78	
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50	50	
	°F	122	122	
Weight	kg	0.9	2	
Wall fixing screws		M4 x 40	M4 x 55	
Fluid		Compressed air		
Note on use		The maximum inlet pressure for the version with RA automatic condensate drainage must not exceed 10 bar.		
		Do not take air from pressure gauge ports.		

DIMENSIONS



	FR + L ND 1/4"	FR + L ND 3/8"	FR + L ND 1/2"
Threaded port F	1/4"	3/8"	1/2"
A	42		60
B	RMSA 190		245
	RA -		249
	SAC 194		249
D	84		120
E	76		109
G	10		14
L	Hole for M4 screws		Hole for M4 screws
N (pressure gauge port)	1/8"		1/8"

SYNOPTIC, SIZES AND VERSIONS

FR + L ELEMENT	1/4 THREADED PORT	4 DEGREE OF FILTERING	08 SETTING RANGE	RMSA CONDENSATE DRAIN
FR + L	1/4 3/8 1/2	4 = 4 µm 20 = 20 µm 50 = 50 µm	08 = 0 to 8 bar 012 = 0 to 12 bar	RMSA SAC RMSA SAC RA*

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.

RA: automatic drain with condensate discharge, independent of pressure and flow rate.

Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.

SAC: automatic drain with condensate discharge.

Operates by depression – requires variable air take-offs.

* For ND 3/8 and 1/2 with RA, please contact our sales assistance department.

ORDERING CODES

Code	Description	Code	Description
FR + L 1/4"		FR + L 3/8"	
1226029	FR+L 1/4 4 08 RMSA	1326029	FR+L 3/8 4 08 RMSA
1226409	FR+L 1/4 4 08 SAC	1326409	FR+L 3/8 4 08 SAC
1226053	FR+L 1/4 4 012 RMSA	1326053	FR+L 3/8 4 012 RMSA
1226413	FR+L 1/4 4 012 SAC	1326413	FR+L 3/8 4 012 SAC
1226030	FR+L 1/4 20 08 RMSA	1326030	FR+L 3/8 20 08 RMSA
1226410	FR+L 1/4 20 08 SAC	1326034	FR+L 3/8 20 08 RA
1226054	FR+L 1/4 20 012 RMSA	1326410	FR+L 3/8 20 08 SAC
1226414	FR+L 1/4 20 012 SAC	1326054	FR+L 3/8 20 012 RMSA
1226032	FR+L 1/4 50 08 RMSA	1326058	FR+L 3/8 20 012 RA
1226412	FR+L 1/4 50 08 SAC	1326414	FR+L 3/8 20 012 SAC
1226056	FR+L 1/4 50 012 RMSA	1326032	FR+L 3/8 50 08 RMSA
1226416	FR+L 1/4 50 012 SAC	1326412	FR+L 3/8 50 08 SAC
		1326056	FR+L 3/8 50 012 RMSA
		1326416	FR+L 3/8 50 012 SAC
		FR + L 1/2"	
		1426029	FR+L 1/2 4 08 RMSA
		1426409	FR+L 1/2 4 08 SAC
		1426053	FR+L 1/2 4 012 RMSA
		1426413	FR+L 1/2 4 012 SAC
		1426030	FR+L 1/2 20 08 RMSA
		1426034	FR+L 1/2 20 08 RA
		1426410	FR+L 1/2 20 08 SAC
		1426054	FR+L 1/2 20 012 RMSA
		1426058	FR+L 1/2 20 012 RA
		1426414	FR+L 1/2 20 012 SAC
		1426032	FR+L 1/2 50 08 RMSA
		1426412	FR+L 1/2 50 08 SAC
		1426056	FR+L 1/2 50 012 RMSA
		1426416	FR+L 1/2 50 012 SAC

V3V + FR + LUB Newdeal



Highly reliable heavy-duty piston-operated FRFL unit.

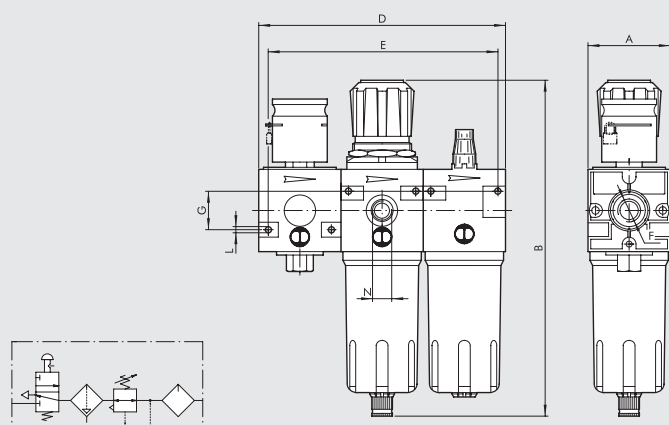
- Stability of the set pressure as the upstream pressure varies
- Metal bowl with external sight glass
- Semi-automatic and automatic condensate drain
- Quantity of lubricant proportionate to the air flow
- Micrometric lubrication regulation
- Activation guaranteed at low air flows
- Quick filling and drainage of the downstream circuit with the V3V element

Refer to the sections on the single modules for a further description, components and other technical data.



TECHNICAL DATA		VFR + L ND 1/4"	VFR + L ND 3/8"	VFR + L ND 1/2"
Threaded port		1/4"	3/8"	1/2"
Setting range	bar	0 to 8 - 0 to 12	0 to 8 - 0 to 12	
Degree of filtration	μm	4 - 20 - 50	4 - 20 - 50	
Max. inlet pressure	MPa	1.8	1.8	
	bar	18	18	
	psi	261	261	
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	Nl/min	140	1000	
	scfm	5	35.5	
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 1 bar (0.1 MPa to 14 psi)	Nl/min	480	1900	
	scfm	17	67.5	
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50	50	
	°F	122	122	
Weight	kg	1.1	1.8	
Wall fixing screws		M4 x 40	M4 x 55	
Fluid		Compressed air		
Note on use		The maximum inlet pressure for the version with RA automatic condensate drainage must not exceed 10 bar.		
		Do not take air from pressure gauge ports.		

DIMENSIONS



	VFR + L ND 1/4"	VFR + L ND 3/8"	VFR + L ND 1/2"
Threaded port F	1/4"	3/8"	1/2"
A	42		60
B	RMSA 190		245
	RA -		249
	SAC 194		249
D	126		180
E	116		166
G	20		28
L	Hole for M4 screws	Hole for M4 screws	
N (pressure gauge port)	1/8"		1/8"

SYNOPTIC, SIZES AND VERSIONS

VFR + L ELEMENT	1/4 THREADED PORT	20 DEGREE OF FILTERING	08 SETTING RANGE	RMSA CONDENSATE DRAIN
VFR + L	1/4 3/8 1/2	4 = 4 µm 20 = 20 µm 50 = 50 µm	08 = 0 to 8 bar 012 = 0 to 12 bar	RMSA SAC RMSA SAC RA

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.

RA: automatic drain with condensate discharge, independent of pressure and flow rate.
Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.

SAC: automatic drain with condensate discharge.
Operates by depression – requires variable air take-offs.

ORDERING CODES

Code	Description
1272030	VFR+L 1/4 20 RMSA 08
1272054	VFR+L 1/4 20 RMSA 012
1372030	VFR+L 3/8 20 RMSA 08
1372054	VFR+L 3/8 20 RMSA 012
1472030	VFR+L 1/2 20 RMSA 08
1472054	VFR+L 1/2 20 RMSA 012
1472032	VFR+L 1/2 50 RMSA 08
1472056	VFR+L 1/2 50 RMSA 012

The following versions are available on request:

- with 4 µm or 50 µm degree of filtration
- with SAC or RA condensate discharge

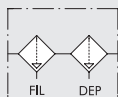
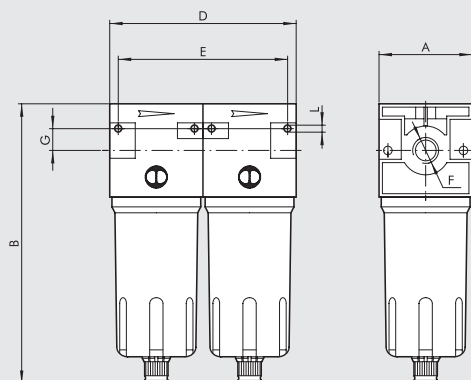
Filter + depurator unit for fine filtering followed by purification by coalescence

- Metal bowl with external sight glass
- Semi-automatic condensate drain

Refer to the sections on the single modules for a further description, components and other technical data.

[illegible]

DIMENSIONS

[illegible]

SYNOPTIC, SIZES AND VERSIONS

F + D	3/8	4	RMSA	RMSA
ELEMENT	THREADED PORT	DEGREE OF FILTERING	CONDENSATE DRAIN	CONDENSATE DRAIN
F + D	3/8 1/2	4 = 4 μ m	RMSA SAC RA	RMSA RA

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.

RA: automatic drain with condensate discharge, independent of pressure and flow rate.

Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.

SAC: automatic drain with condensate discharge.

Operates by depression – requires variable air take-offs.

ORDERING CODES

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FIL + LUB Newdeal



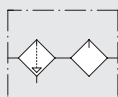
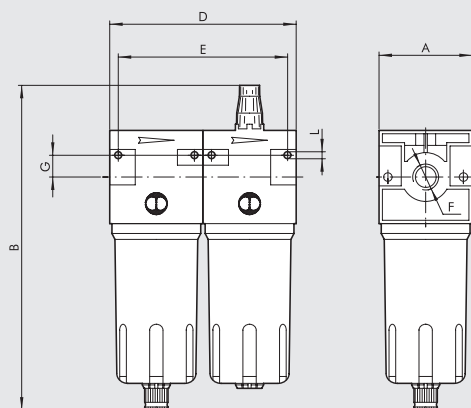
Filter + lubricator unit offering various degrees of filtration and high lubrication stability.

- Metal bowl with external sight glass
 - Semi-automatic and automatic condensate drain
 - Micrometric lubrication regulation
 - Activation guaranteed at low air flows
- Refer to the sections on the single modules for a further description, components and other technical data.



TECHNICAL DATA		F + L ND 1/4"	F + L ND 3/8"	F + L ND 1/2"	F + L ND 3/4"	F + L ND 1"
Threaded port		1/4"	3/8"	1/2"	3/4"	1"
Lubrication		mist	mist	mist	mist	mist
Degree of filtration	µm	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50	4 - 20 - 50
Max. inlet pressure	MPa	1.8	1.8	1.8	1.8	1.8
	bar	18	18	18	18	18
	psi	261	261	261	261	261
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 0.5 bar (0.05 MPa to 7 psi)	NI/min	600	2500	8000		
	scfm	21	89	282		
Flow rate at 6.3 bar (0.63 MPa to 91 psi) ΔP 1 bar (0.1 MPa to 14 psi)	NI/min	1000	3500	9500		
	scfm	35.5	124	335		
Max temperature at 1 MPa; 10 bar; 145 psi	°C	50	50	50		
	°F	122	122	122		
Weight	kg	0.8	1.8	2.5		
Wall fixing screws		M4 x 40	M4 x 55	M6 x 75		
Fluid		Compressed air				
Note on use		The maximum inlet pressure for the version with RA automatic condensate drainage must not exceed 10 bar.				

DIMENSIONS



		F + L ND 1/4"	F + L ND 3/8"	F + L ND 1/2"	F + L ND 3/4"	F + L ND 1"
Threaded port F		1/4"	3/8"	1/2"	3/4"	1"
A		42	60	80		
B	RMSA	170	209	273		
	RA	-	213	277		
	SAC	174	213	277		
D		84	120	160		
E		74	106	146		
G		10	14	22		
L		Hole for M4 screws	Hole for M4 screws	Hole for M6 screws		



SYNOPTIC, SIZES AND VERSIONS

F + L ELEMENT	1/4 THREADED PORT	4 DEGREE OF FILTERING	RMSA CONDENSATE DRAIN
F + L	1/4	4 = 4 µm	RMSA
	3/8	20 = 20 µm	SAC
	1/2	50 = 50 µm	RMSA
	3/4		SAC
	1		RA
			RMSA
			RA

RMSA: drain with manual condensate discharge and automatic discharge at zero pressure.

RA: automatic drain with condensate discharge, independent of pressure and flow rate.

Version conveys the draining by inserting the pipe having internal diameter 6 mm in the lower port.

SAC: automatic drain with condensate discharge.

Operates by depression – requires variable air take-offs.

ORDERING CODES

Code	Description
1233006	F+L 1/4 20 RMSA
1333006	F+L 3/8 20 RMSA
1433006	F+L 1/2 20 RMSA
1533006	F+L 3/4 20 RMSA
1633006	F+L 1 20 RMSA

The following versions are available on request:

- with 4 µm or 50 µm degree of filtration
- with SAC or RA condensate discharge