

POTENT SPACESAVERS FOR COMBINATIONS: THE MAXIPLEAT MODULAR FILTER SYSTEM

FILTER CLASSES M6 – E12

FILTER TYPE	FILTER CLASS	NOMINAL VOLUME FLOW RATE** [m³/h]	TEST STANDARD	ENERGY EFFICIENCY CLASS*
MX 75-RC	M6	3,400	EN 779	–
MX 85-RB RC	F7	3,400	EN 779	C
MX 95-RB RC	F8	3,400	EN 779	B
MX 98-RB RC	F9	3,400	EN 779	B
MX H10-RB	E10	3,400	EN 1822:2009	–
MX 100-RB	E11	3,400	EN 1822:2009	–
MX 120-RB	E12	3,400	EN 1822:2009	–



The application

The Viledon® MaxiPleat Modular Filter System is used for supply, exhaust and recirculated air filtration in ventilation systems which have stringent requirements for clean air quality, particularly when space is limited, e. g.

- in intake air filtration for turbomachinery
- in industrial processes
- in sophisticated air-conditioning applications.

With the MaxiPleat Modular Filter system, MaxiPleat filters of different filter classes and depths can be combined in a positive fit by **simple plug-on**. This allows an additional filter stage to be inserted without any structural modifications.

The special features and benefits

- High-strength micro-glassfiber papers with a special thermoplastic bonding system and **water-resistant coating** are used as filter media. Our patented thermal embossing process, with its **optimum V-shaped pleat geometry**, ensures full utilization of the filtering area and uniform dust deposition, plus **homogeneous air flow coupled with a low average pressure drop**, i.e. a very slow increase in the pressure drop. This

means a **long useful lifetime, with cost-efficient and reliable operation.**

- For installation, the MaxiPleat main filter, with its black connecting pins, is inserted into the existing support system. The prefilter with the white connecting caps can now be simply plugged onto the already-installed main filter. The connecting pins engaged in the main filter cannot be removed. **The plugged-on prefilter can, however, be removed again and replaced.**
- Besides the standard version with 25 mm front frame thickness, the MaxiPleat main filters (RB types) are also available with a 20.5 mm thick front frame, and are delivered with the **connecting pins fitted**.



An **optional water barrier** prevents intaken water from reaching the clean-air side. Foamed-on PU gasket upon request. In the standard version, the prefilters (RC types) are sup-

plied without a front frame, with a gasket on the clean-air side and with connecting caps fitted.

- The filter elements are non-corroding and fully incinerable, as they contain no metal parts. Frame and protection grids are made of halogen-free plastic. Viledon® MaxiPleat filters are moisture-resistant up to 100% rel. humidity, thermally stable up to 70°C, microbiologically inactive and meet all “Hygiene requirements for HVAC systems” to EN13779 and the German VDI Guideline 6022.

The extras

- The leak-proof casting of the dimensionally stable pleat pack in the distortion-resistant plastic frame results in outstanding bursting strength as well as high security against dust penetration. Gripping lugs facilitate mounting and removal, and protection grids on both sides minimize the risk of damage to the filter.

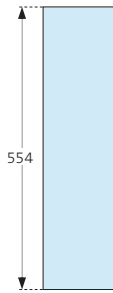
* As part of the EUROVENT Certification, rated at 3,400 m³/h

** Can be used at higher nominal flow rates
RB = Main filter with connecting pins
RC = Prefilter with connecting caps

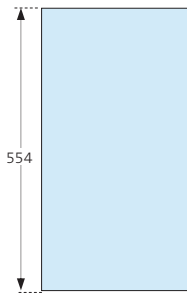
THE MAXIPLREAT MODULAR FILTER SYSTEM

DIMENSIONS

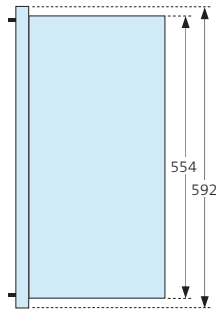
Prefilter
Frame
depth
140 mm



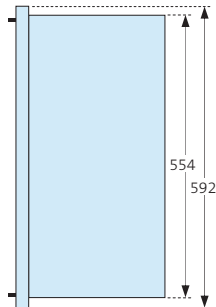
Prefilter
Frame
depth
292 mm



Main filter
Frame
depth
292 mm



Main filter
Frame
depth
292 mm



Delivery notes

The MaxiPleat basic filters are supplied with connecting pins inserted (RB types). The MaxiPleat Modular prefilters (RC types) are available in 292 and 140 mm installation depths and to suit main filters in sizes 5/6 and 1/2. The standard version does not include a front frame, but is delivered with a clean-air-side seal and connecting caps inserted. An additional mounting/retaining bracket, which precludes the possibility of the prefilter becoming detached under any operating conditions, is included in the delivery package of the 292 mm types (for vertical installation). In the case of overhead installation, an additional bracket is required, which can be ordered separately.



Recommended filter combination

PREFILTER (RC)	MAIN FILTER (RB)
Without front frame W × L = 554 × 554 mm Overall depth 140 or 292 mm	With front frame W × L = 592 × 592 mm Overall depth 292 mm
MX 75	MX 98
MX 85	MX 98 MX H10 MX 120
MX 95	MX H10 MX 100 MX 120
MX 98	MX H10 MX 100 MX 120

KEY DATA		MX 75	MX 85	MX 95	MX 98	MX H 10	MX 100	MX 120
Filter class		M 6	F 7	F 8	F 9	E 10	E 11	E 12
Frame depth	mm	140 292	140 292	140 292	140 292	292	292	292
Front dimensions main filter 1/1, for mounting frame	mm	592 × 592 610 × 610						
Weight, approx.	kg	4 7	4 7	4 7	4 7	7	7	8.3
Nominal volume flow rate *	m ³ /h	3,400						
Initial pressure drop	Pa	135 95	140 100	150 105	175 125	175	195	320

* Can be used at higher nominal flow rates

Important: Filter support systems must be checked for their static strength in regard to filter weights and the pressure drops encountered. When installing the prefilter, an additional mounting bracket must be used, in order to reliably preclude under all operating conditions the possibility of the prefilter becoming detached. For further information on the MaxiPleat filters, particularly detailed technical filtering data, please consult the separate type data sheets.

The figures given are mean values subject to tolerances due to the normal production fluctuations. Our explicit written confirmation is always required for the correctness and applicability of the information involved in any particular case. Subject to technical alterations. You will find instructions on how to handle and dispose of loaded filters in our information on product safety and eco-compatibility.

Freudenberg Filtration Technologies SE & Co. KG
69465 Weinheim, Germany
Phone +49 (0) 6201 80-6264 | Fax +49 (0) 6201 88-6299
viledon@freudenberg-filter.com | www.freudenberg-filter.com

 **FREUDENBERG**
INNOVATING TOGETHER