

Filter Media

Type FMR



TROX

6295 E Molloy Rd Suite 3, East Syracuse, NY 13057
sales-amn@troxgroup.com
www.trox-northamerica.com



TROX Social:



General information	2	Order code	5
Technical data	3	Dimensions	6
Specification text	4		

General information

Application

- Roll media for the separation of coarse and fine dust in ventilation systems.

Nominal sizes

- B × L [mm (in.)]

Filter classes (estimated MERV)

Filter groups

- ISO Coarse acc. to ISO 16890
(Equivalent to ASHRAE 52.2 MERV 1-8)
- ISO ePM10 acc. to ISO 16890
(Equivalent to ASHRAE 52.2 MERV 9+)

Filter classes

- Coarse 35 % (C04)
[MERV 6]
- Coarse 45 % (C58)
[MERV 7]
- Coarse 45 % (C15)
[MERV 7]
- Coarse 50 % (C11, G02)
[MERV 8]
- Coarse 60 % (C13)
[MERV 8]
- ePM10 55 % (C06)
[MERV 10]

Construction features

- Glass fibre filter media sprayed with dust binding agent, resulting in increased separation efficiency and preventing dust carry over

Material and surfaces

- Filter media made of glass fibres or chemical fibres

Standards and guidelines

- Tested according to ISO 16890; international standard for general ventilation and air conditioning; classification of separation efficiency based on the measured fractional separation efficiency, which is processed into a reporting system for the fine dust separation efficiency (ePM)
- For coarse dust filters, the gravimetric separation efficiency is measured with synthetic dust
- The filters are classified into filter group ISO Coarse depending on the tested values
- For fine dust filters, the fractional separation efficiency of a certain size range is determined by aerosols (DEHS and KCl)
- The filters are classified into filter groups ISO ePM10, ISO ePM2.5 and ISO ePM1 depending on the tested values

Technical data

Media type	G02	C04	C06	C11	C13	C15	C58
gravimetric separation efficiency Coarse [%] according to ISO 16890	50	35	-	50	60	45	45
Fractional efficiency ePM10 [%] to ISO 16890	-	-	55	-	-	-	-
Estimated ASHRAE 52.2 Rating	MERV 8	MERV 6	MERV 10	MERV 8	MERV 8	MERV 7	MERV 7
Filter strength [mm (in.)]	50 (2)	14 (9/16)	22 (7/8)	20 (3/4)	8 (5/16)	20 (3/4)	8 (5/16)
Nominal face velocity [m/s (fpm)]	0.9 (177)	1.5 (295)	0.9 (177)	1.5 (295)	1.5 (295)	1.5 (295)	0.9 (177)
Initial differential pressure [Pa (in. w.g.)] at nominal volume flow rate	10 (0.04)	30 (0.12)	90 (0.36)	60 (0.24)	50 (0.20)	40 (0.16)	10 (0.04)
Max. operating temperature [°C (°F)]	100 (212)	100 (212)	100 (212)	100 (212)	100 (212)	100 (212)	100 (212)

Specification text

This specification text describes the general characteristics of the product. Texts for variants can be generated with our Easy Product Finder design programme.

Specification text

Roll media for the separation of coarse and fine dust in ventilation systems. Rolls available in standard sizes, filter groups ISO Coarse and ISO ePM10 according to ISO 16890 (equivalent to ASHRAE MERV ratings). Glass fibre filter media are wetted with a dust binding agent, which increases the degree of separation and prevents dust from being blown away.

Materials and surfaces

- Filter media made of glass fibres or chemical fibres

Sizing data

- Filter group [ISO 16890 (MERV)]
- Separation efficiency [%]
- Volume flow rate [m³/h (cfm)]
- Initial differential pressure [Pa (in. w.g.)]
- Nominal size [mm (in.)]

Order code

FMR – Coarse – 50 % – G02 / 2000 × 20000

1 2 3 4 5

1 Type

FMR Roll media

2 Classification

Coarse gravimetric separation efficiency according to ISO 16890 (comparable to **ASHRAE 52.2**).

ePM10 Fractional efficiency ePM10 according to ISO 16890 (comparable to **ASHRAE 52.2**).

3 Separation efficiency

Specify separation efficiency [%] according to ISO 16890

4 Media type

Order example: FMR-Coarse-50%-G02/2000×20000

Type

G02 Glass fibre medium, 50 mm (2 in.) thick

C04 Chemical fibre medium, 14 mm (9/16 in.) thick

C06 Chemical fibre medium, 22 mm (7/8 in.) thick

C11 Chemical fibre medium, 20 mm (3/4 in.) thick

C13 Chemical fibre medium, 8 mm (5/16 in.) thick

C15 Chemical fibre medium, 20 mm (3/4 in.) thick

C58 Chemical fibre medium, 8 mm (5/16 in.) thick

5 Nominal size [mm (in.)]

Specify width × length

FMR - Roll media

Classification

Gravimetric separation efficiency according to ISO 16890 (MERV ratings)

Separation efficiency

50 %

Media type

Glass fibre medium, 50 mm (2 in.) thick

Nominal size [mm (in.)]

Width 2000 (78 ¾), length 20000 (787 ¾)

Dimensions

Product-specific data

B [mm (in.)]	L [mm (in.)]	Filter class	Media type
2000 (78 ¾)	20000 (787 ¾)	Coarse 50 % [MERV 8]	G02
2000 (78 ¾)	20000 (787 ¾)	Coarse 35% [MERV 6]	C04
2000 (78 ¾)	20000 (787 ¾)	Coarse 45 % [MERV 7]	C58
2000 (78 ¾)	20000 (787 ¾)	Coarse 45% [MERV 7]	C15
2000 (78 ¾)	20000 (787 ¾)	Coarse 50 % [MERV 8]	C11
2000 (78 ¾)	20000 (787 ¾)	Coarse 60% [MERV 8]	C13
2000 (78 ¾)	20000 (787 ¾)	ePM10 55 % [MERV 10]	C06