

FMA-5000 series

FMA SELF-CLEANING ELECTRIC SCREEN FILTER

The SKAN FMA-5000 series automatic mesh filters are engineered to meet the stringent filtration needs of industrial plants with high-quality standards and limited installation space. With a robust design and multiple internal cartridges, these filters maximize the filtration surface while operating efficiently in demanding environments, such as chemical plants and oil & gas facilities



FMA-5000 SERIES - 5020

FEATURES

- Designed for installations with limited space, the compact structure requires minimal room while delivering maximum filtration capacity.
- Incorporates five internal cartridges, maximizing the available filtration surface for high-efficiency performance.
- Perfect for chemical plants, oil & gas, and other industrial facilities with demanding filtration needs.
- Specially designed to handle high flow rates, making it ideal for both municipal and industrial applications.
- Delivers precise filtration for applications with low filtration degrees, ensuring high-quality output.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE	
5020	
CONNECTIONS	
Inlet/Outlet (BPSM)	DN-500 (20")
OPERATING PRESSURES (BAR / PSI)	
Min./Max. working pressure	2 - 10 (If others, ask SF)
TEMPERATURE (°C/°F)	
Max. fluid temperature	50 (If others, ask SF)
WEIGHT (KG / LBS)	
Unladen weight	1810
FILTRATION	
Filtering surface (cm ² /ft ²)	55000
Filtration degrees (µm)	50, 20
BACKWASHING	
Backwashing valve	3"
No. Valves	
Backwash cycle time (s)	33
Backwashing flow rate (m ³ /h / gpm) (*)	80
Backwashing water consumption (l / gal)	730
FLOW (M ³ /H / GPM)	
Max. Flow	2000
High quality	1250
Medium quality	1000
Low quality	800

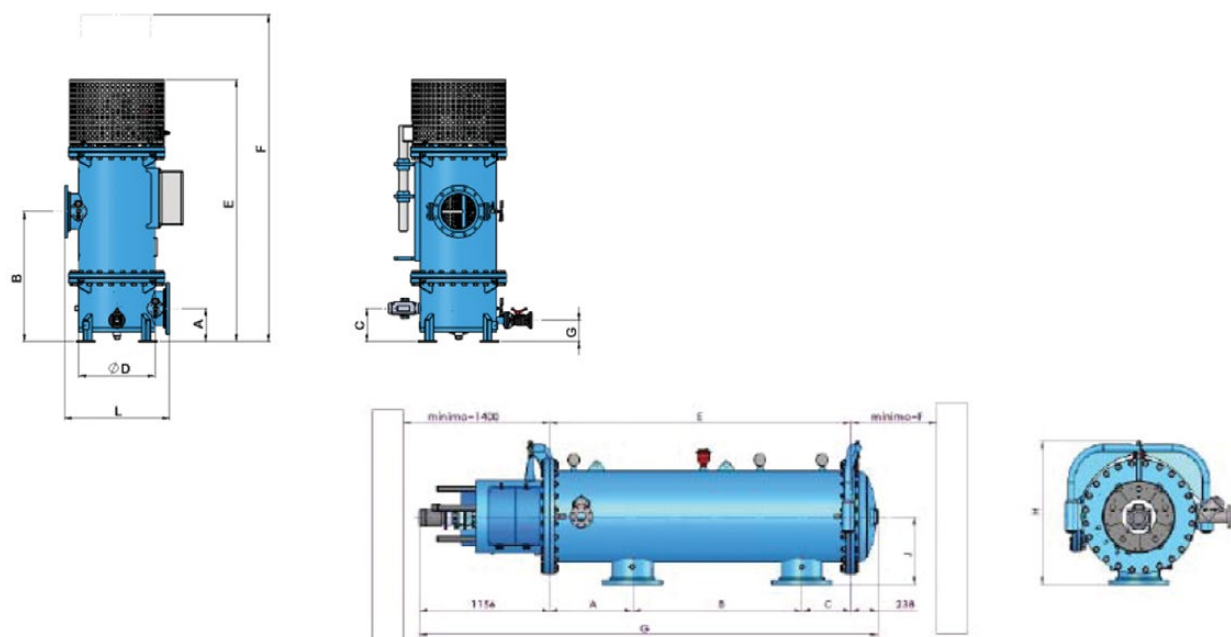
ELECTRICAL	
Rated operation voltage	380 / 400 Vac Three-phase-
Control voltage	24 Vdc
Electric Motor Power (kW/HP)	No Data
Electric motor consumption (A)	No Data
Power Supply (kW)	-
DIMENSIONS (MM / INCHES)	
A 733	E 2663 J 600
B 1500	F 1400 L -
C 430	G 4010
D -	H 812
MATERIALS	
Filter housing and lids	S-235-JR
Coating	Internal epoxy coating, external three layer coating.
Suction scanner	AISI-304
Filtration screen	AISI-316
Brush	-
Suction nozzles	PVC
Backwashing valves	PP
Bolts & nuts	5.6 & 5.8 Bichromated
Seals	NBR - EPDM - Viton
UV DATA	
Ultraviolet lamp	
No. lamps	
UV-C lamp power	
UV (with 55% transmittance)	

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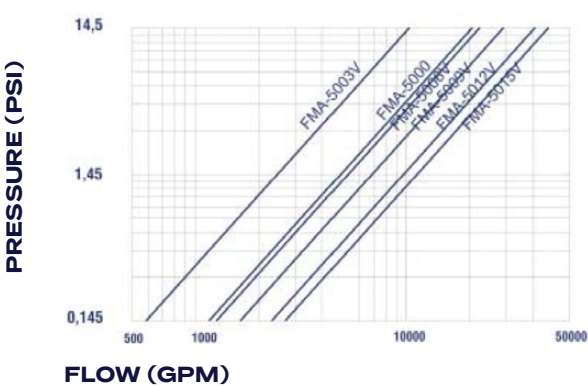
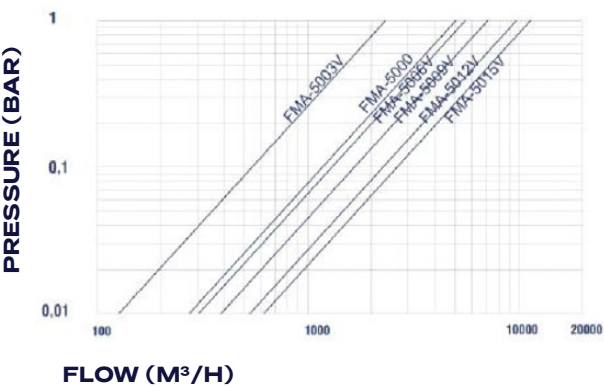
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FILTRATION

PLANS/DRAWINGS



HEAD LOSS



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FMA-5000 SERIES - 5003V

FEATURES

- Designed for installations with limited space, the compact structure requires minimal room while delivering maximum filtration capacity.
- Incorporates five internal cartridges, maximizing the available filtration surface for high-efficiency performance.
- Perfect for chemical plants, oil & gas, and other industrial facilities with demanding filtration needs.
- Specially designed to handle high flow rates, making it ideal for both municipal and industrial applications.
- Delivers precise filtration for applications with low filtration degrees, ensuring high-quality output.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

5003V

CONNECTIONS

Inlet/Outlet (BPSM) DN-500 (20")

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 (If others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 (If others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 1150

FILTRATION

Filtering surface (cm²/ft²) 28200

Filtration degrees (µm) 100, 74, 50, 25, 20, 10

BACKWASHING

Backwashing valve 4"

No. Valves

Backwash cycle time (s) 22

Backwashing flow rate (m³/h / gpm) (*) 70

Backwashing water consumption (l / gal) 428

FLOW (M³/H / GPM)

Max. Flow 1000

High quality 650

Medium quality 500

Low quality 400

ELECTRICAL

Rated operation voltage 380 / 400 Vac Three-phase-

Control voltage 24 Vdc

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) 0,75

DIMENSIONS (MM / INCHES)

A 450 E 2650 J -

B 1400 F 3400 L 1100

C 350 G 250

D 700 H -

MATERIALS

Filter housing and lids S-235-JR

Coating Internal epoxy coating, external three layer coating.

Suction scanner AISI-304

Filtration screen AISI-316

Brush -

Suction nozzles PVC

Backwashing valves PP

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

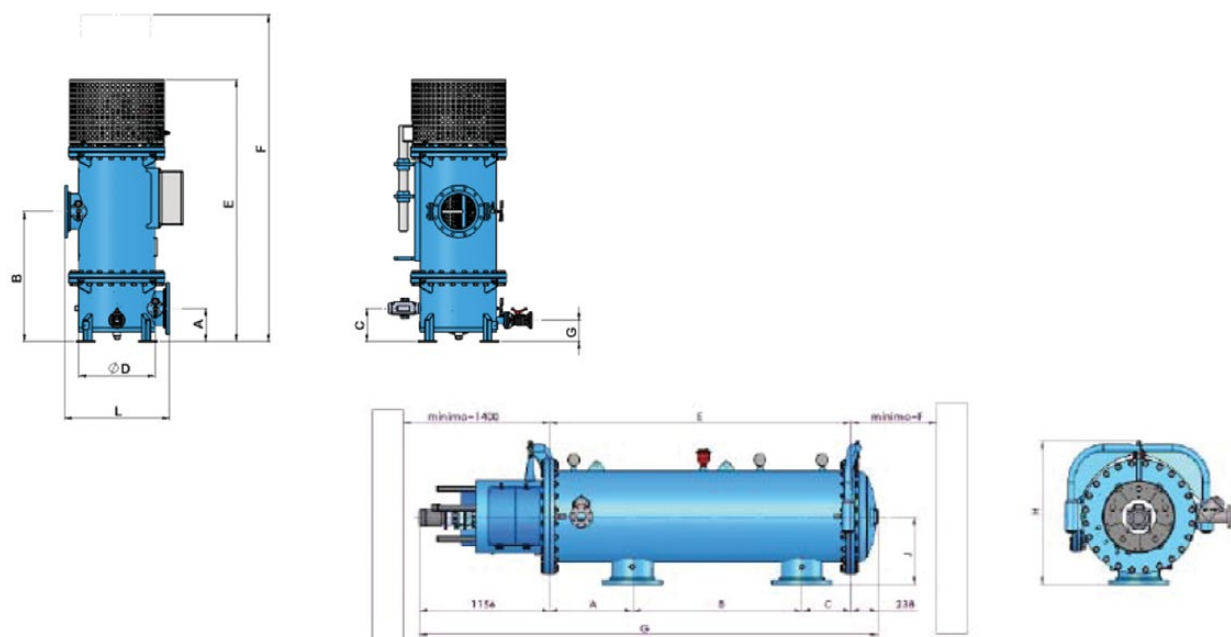
UV (with 55% transmittance)

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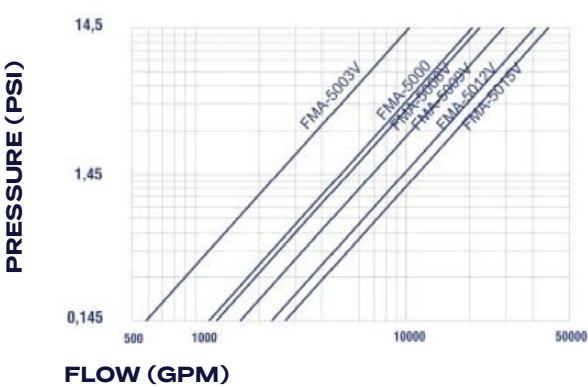
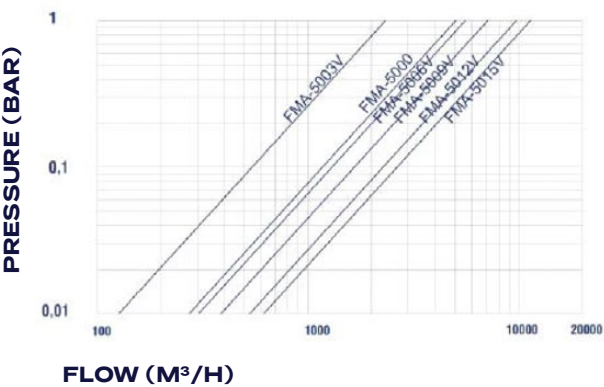
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PLANS/DRAWINGS



HEAD LOSS



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FMA-5000 SERIES - 5006V

FEATURES

- Designed for installations with limited space, the compact structure requires minimal room while delivering maximum filtration capacity.
- Incorporates five internal cartridges, maximizing the available filtration surface for high-efficiency performance.
- Perfect for chemical plants, oil & gas, and other industrial facilities with demanding filtration needs.
- Specially designed to handle high flow rates, making it ideal for both municipal and industrial applications.
- Delivers precise filtration for applications with low filtration degrees, ensuring high-quality output.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

5006V

CONNECTIONS

Inlet/Outlet (BPSM) DN-700 (28")

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 (If others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 (If others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 4400

FILTRATION

Filtration surface (cm²/ft²) 56400

Filtration degrees (µm) 100, 74, 50, 25, 20, 10

BACKWASHING

Backwashing valve 2u x 4"

No. Valves

Backwash cycle time (s) 22 / 44

Backwashing flow rate (m³/h / gpm) (*) 14 / 70

Backwashing water consumption (l / gal) 856

FLOW (M³/H / GPM)

Max. Flow 2000

High quality 1300

Medium quality 1000

Low quality 800

ELECTRICAL

Rated operation voltage 380 / 400 Vac Three-phase-

Control voltage 24 Vdc

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) 2u x 0,75

DIMENSIONS (MM / INCHES)

A 500 E 2850 J -

B 1600 F 3600 L 1500

C 350 G 250

D 1110 H -

MATERIALS

Filter housing and lids S-235-JR

Coating Internal epoxy coating, external three layer coating.

Suction scanner AISI-304

Filtration screen AISI-316

Brush -

Suction nozzles PVC

Backwashing valves PP

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

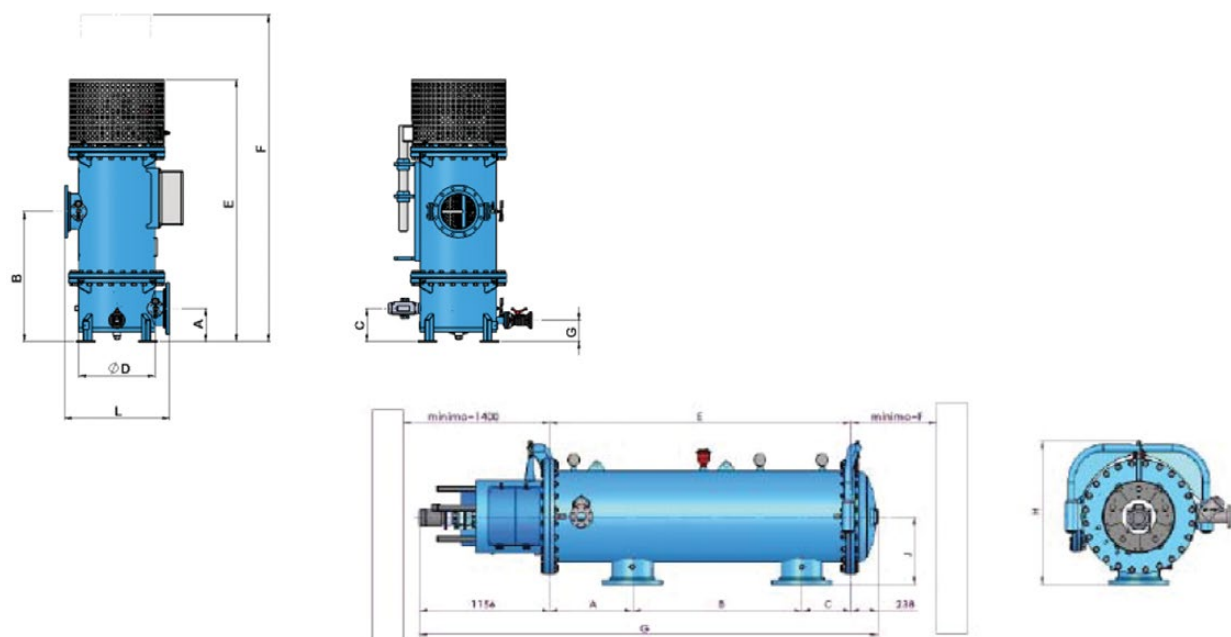
UV (with 55% transmittance)

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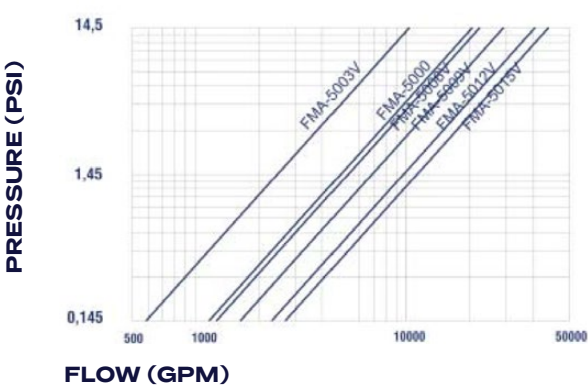
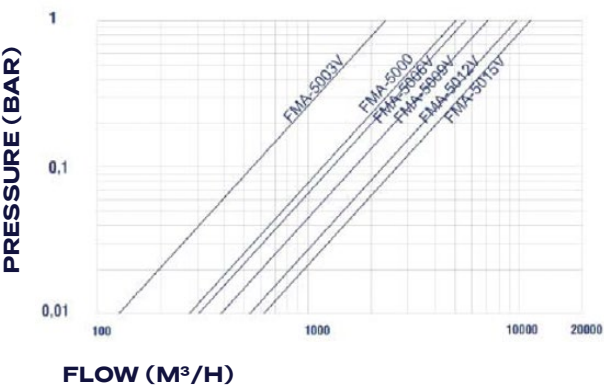
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PLANS/DRAWINGS



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FMA-5000 SERIES - 5009

FEATURES

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- Incorporates five internal cartridges, maximizing the available filtration surface for high-efficiency performance.
- Perfect for chemical plants, oil & gas, and other industrial facilities with demanding filtration needs.
- Specially designed to handle high flow rates, making it ideal for both municipal and industrial applications.
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OPERATIONAL REQUIREMENTS

PRODUCT CODE

5009

CONNECTIONS

Inlet/Outlet (BPSM) DN-800 (32")

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 (If others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 (If others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 5900

FILTRATION

Filtering surface (cm²/ft²) 84600

Filtration degrees (µm) 100, 74, 50, 25, 20, 10

BACKWASHING

Backwashing valve 3u x 4"

No. Valves

Backwash cycle time (s) 22 / 66

Backwashing flow rate (m³/h / gpm) (*) 210 / 70

Backwashing water consumption (l / gal) 1284

FLOW (M³/H / GPM)

Max. Flow 3000

High quality 1950

Medium quality 1500

Low quality 1200

ELECTRICAL

Rated operation voltage 380 / 400 Vac Three-phase-

Control voltage 24 Vdc

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) 3u x 0,75

DIMENSIONS (MM / INCHES)

A 600 E 3000 J -

B 1700 F 3750 L 1600

C 350 G 250

D 1200 H -

MATERIALS

Filter housing and lids S-235-JR

Coating Internal epoxy coating, external three layer coating.

Suction scanner AISI-304

Filtration screen AISI-316

Brush -

Suction nozzles PVC

Backwashing valves PP

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

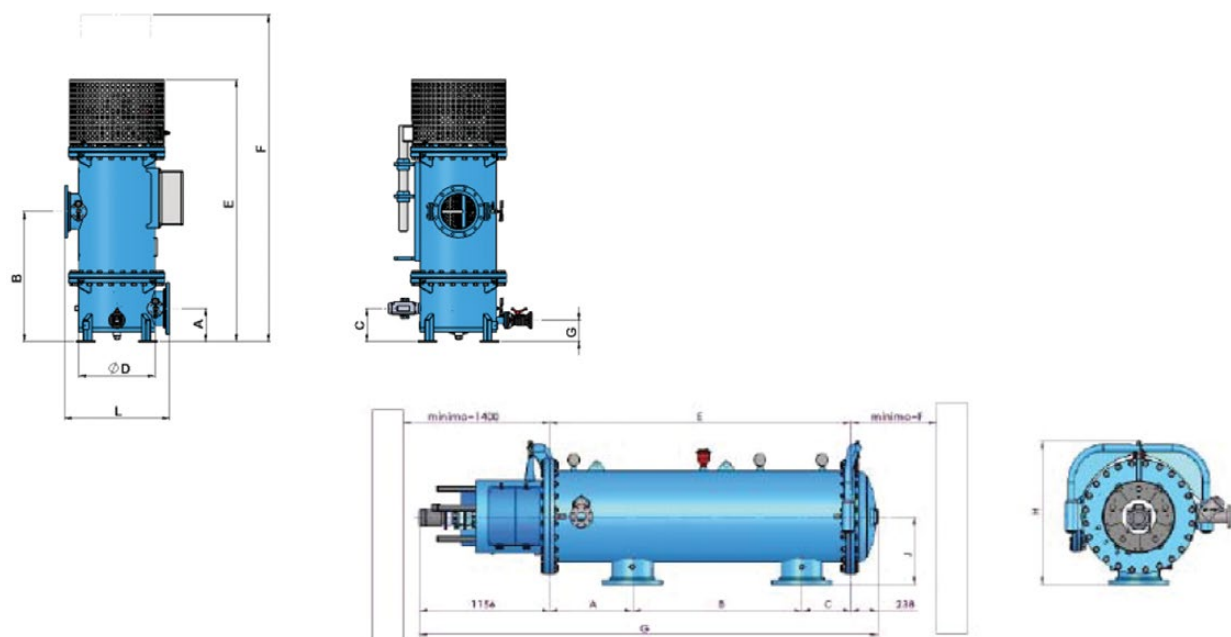
UV (with 55% transmittance)

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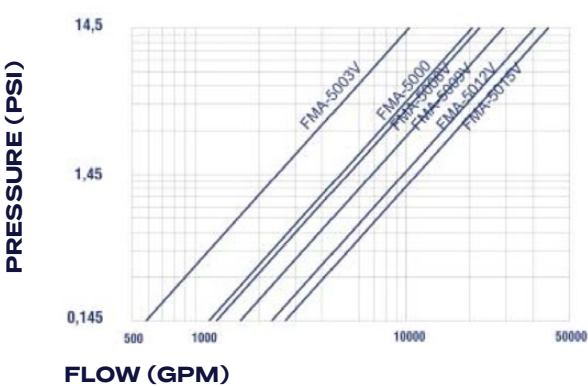
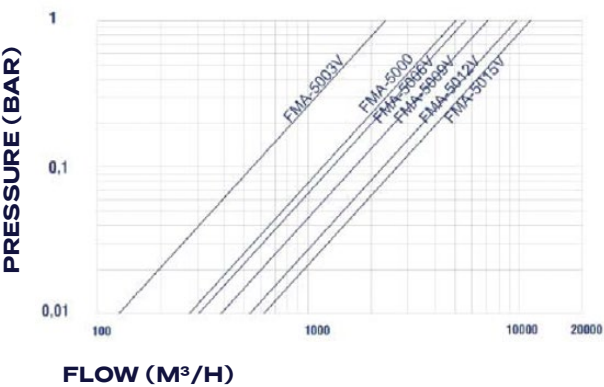
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PLANS/DRAWINGS



HEAD LOSS



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FMA-5000 SERIES - 5012V

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

5012V

CONNECTIONS

Inlet/Outlet (BPSM) DN-900 (36")

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 (If others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 (If others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 8500

FILTRATION

Filtration surface (cm²/ft²) 112800

Filtration degrees (µm) 100, 74, 50, 25, 20, 10

BACKWASHING

Backwashing valve 4u x 4"

No. Valves

Backwash cycle time (s) 22 / 88

Backwashing flow rate (m³/h / gpm) (*) 280 / 70

Backwashing water consumption (l / gal) 1712

FLOW (M³/H / GPM)

Max. Flow 4000

High quality 2600

Medium quality 2000

Low quality 1600

ELECTRICAL

Rated operation voltage 380 / 400 Vac Three-phase-

Control voltage 24 Vdc

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) 4u x 0,75

DIMENSIONS (MM / INCHES)

A 650 E 3100 J -

B 1800 F 3850 L 1700

C 350 G 250

D 1300 H -

MATERIALS

Filter housing and lids S-235-JR

Coating Internal epoxy coating, external three layer coating.

Suction scanner AISI-304

Filtration screen AISI-316

Brush -

Suction nozzles PVC

Backwashing valves PP

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

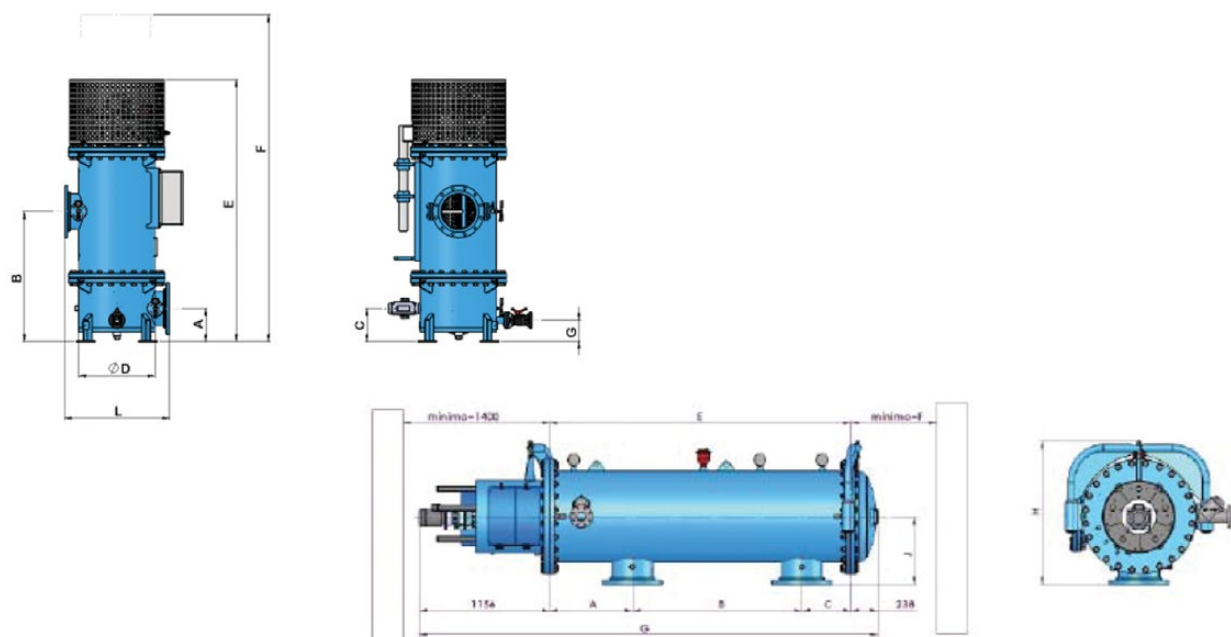
UV (with 55% transmittance)

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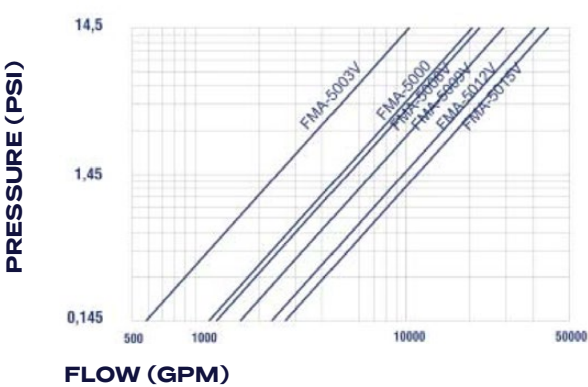
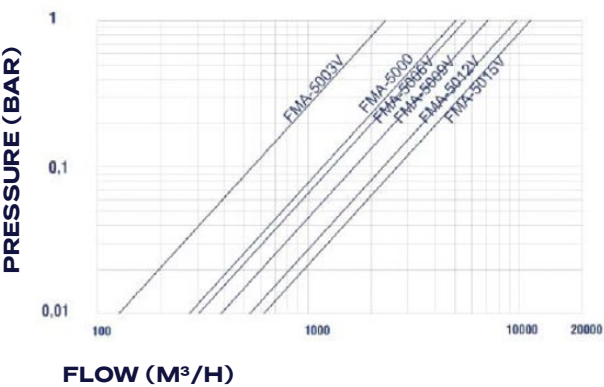
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PLANS/DRAWINGS



HEAD LOSS



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FMA-5000 SERIES - 5015V

FEATURES

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OPERATIONAL REQUIREMENTS

PRODUCT CODE	
5015V	
CONNECTIONS	
Inlet/Outlet (BPSM)	DN-1000 (40")
OPERATING PRESSURES (BAR / PSI)	
Min./Max. working pressure	2 - 10 (If others, ask SF)
TEMPERATURE (°C/°F)	
Max. fluid temperature	50 (If others, ask SF)
WEIGHT (KG / LBS)	
Unladen weight	11000
FILTRATION	
Filtering surface (cm ² /ft ²)	141000
Filtration degrees (µm)	100, 74, 50, 25, 20, 10
BACKWASHING	
Backwashing valve	5u x 4"
No. Valves	
Backwash cycle time (s)	22 / 110
Backwashing flow rate (m ³ /h / gpm) (*)	350 / 70
Backwashing water consumption (l / gal)	2140
FLOW (M ³ /H / GPM)	
Max. Flow	5000
High quality	3250
Medium quality	2500
Low quality	2000

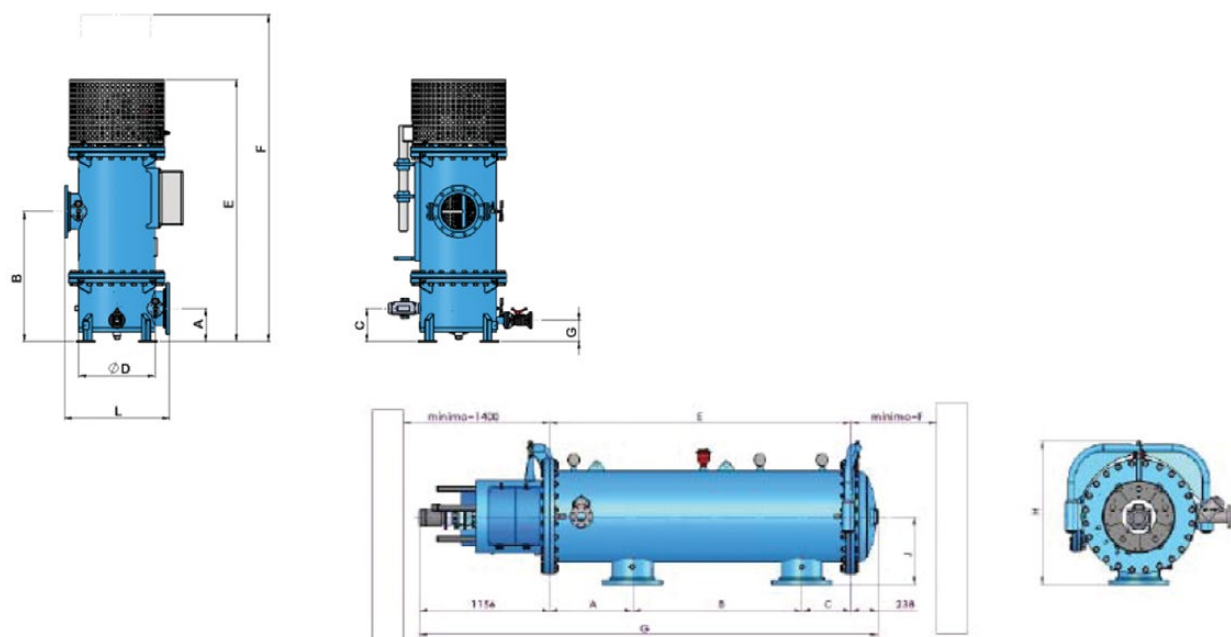
ELECTRICAL	
Rated operation voltage	380 / 400 Vac Three-phase-
Control voltage	24 Vdc
Electric Motor Power (kW/HP)	No Data
Electric motor consumption (A)	No Data
Power Supply (kW)	5u x 0,75
DIMENSIONS (MM / INCHES)	
A 700	E 3200 J -
B 1900	F 3950 L 1800
C 350	G 250
D 1400	H -
MATERIALS	
Filter housing and lids	S-235-JR
Coating	Internal epoxy coating, external three layer coating.
Suction scanner	AISI-304
Filtration screen	AISI-316
Brush	-
Suction nozzles	PVC
Backwashing valves	PP
Bolts & nuts	5.6 & 5.8 Bichromated
Seals	NBR - EPDM - Viton
UV DATA	
Ultraviolet lamp	
No. lamps	
UV-C lamp power	
UV (with 55% transmittance)	

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