

## FMA-2000 Series

# FMA SELF-CLEANING ELECTRIC SCREEN FILTER

The SKAN FMA2000 series automatic screen filters deliver flexible and reliable filtration solutions, designed to meet the diverse needs of various industries. With a wide range of filtration degrees and flow rates, these filters can handle even the most extreme conditions, providing a perfect solution for multiple applications.



### FMA-2000 SERIES - 2003

## FEATURES

- Offers a wide range of filtration degrees and flow rates, making it ideal for a variety of industries, from drinking water facilities to the food industry.
- Capable of operating efficiently in the harshest environments, ensuring continuous performance.
- Can be grouped to form modular filtering stations, optimizing filtration across multiple units while functioning as a single system.
- Designed to operate with minimal head loss, increasing energy efficiency and reducing operational costs.
- Perfect for applications like desalination plants, co-generation plants, chemical industries, cooling towers, field irrigation, and as a physical barrier against zebra mussels.

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

2003

## CONNECTIONS

Inlet/Outlet (BPSM) DN-80 (3")

## 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 261

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 2650

Filtration degrees (µm) 1000, 500, 300, 200, 125, 100, 80, 50, 25, 20, 10

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 22 - 30

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 5

Backwashing water consumption (l / gal) 35

## FLOW (M<sup>3</sup>/H / GPM)

Max. Flow 120

High quality 60

Medium quality 48

Low quality 334

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz Single-phase (Optional 400 V AC three-phase)

Control voltage 24 V DC (12 V DC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

## DIMENSIONS (MM / INCHES)

A 302 E 881 J 325

B 360 F 400 L 763

C 219 G 1625

D - H 698

## MATERIALS

Filter housing and lids S-235-JR

Coating Cover with powder paint  
Kiln Polymerized epoxy-polyester powder R

Suction scanner AISI-304

Filtration screen AISI-316L

Brush -

Suction nozzles PVC

Backwashing valves Brass + Stainless steel + PA

Bolts & nuts Bocr. 5.6 & 6.8

Seals NBR - EPDM - Viton

## UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

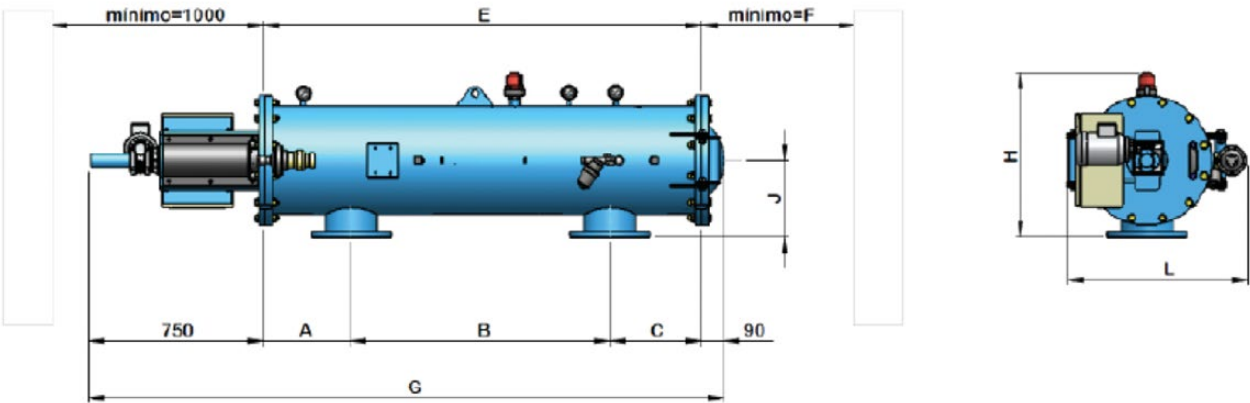
UV (with 55% transmittance)

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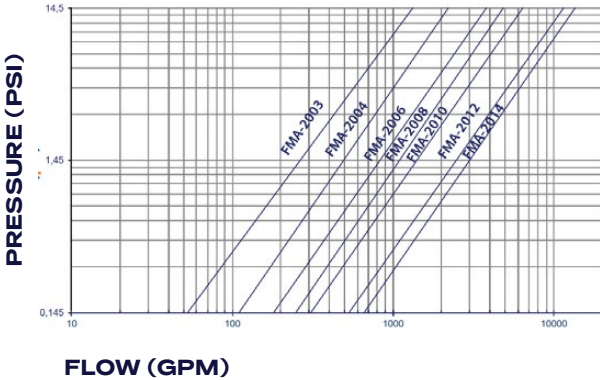
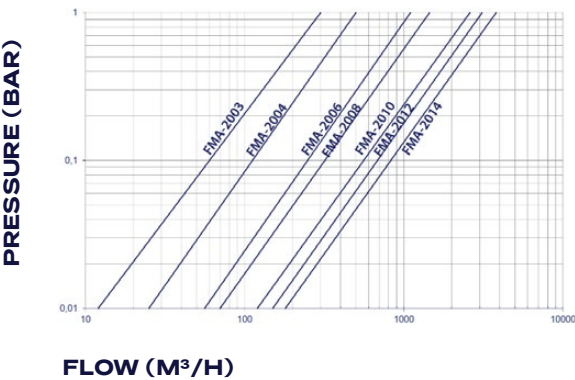
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# PLANS/DRAWINGS



# HEAD LOSS



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### FMA-2000 SERIES - 2004

## FEATURES

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

2004

## CONNECTIONS

Inlet/Outlet (BPSM) DN-100 (4")

## 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 304

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 5380

Filtration degrees (µm) 1000, 500, 300, 200, 125, 100, 80, 50, 25, 20, 10

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 22 - 30

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 10

Backwashing water consumption (l / gal) 70

## FLOW (M<sup>3</sup>/H / GPM)

Max. Flow 235

High quality 110

Medium quality 90

Low quality 70

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz Single-phase (Optional 400 V AC three-phase)

Control voltage 24 V DC (12 V DC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

## DIMENSIONS (MM / INCHES)

A 315 E 1305 J 325

B 770 F 690 L 763

C 220 G 2140

D - H 698

## MATERIALS

Filter housing and lids S-235-JR

Coating Cover with powder paint  
Kiln Polymerized epoxy-polyester powder R

Suction scanner AISI-304

Filtration screen AISI-316L

Brush -

Suction nozzles PVC

Backwashing valves Brass + Stainless steel + PA

Bolts & nuts Bocr. 5.6 & 6.9

Seals NBR - EPDM - Viton

## UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

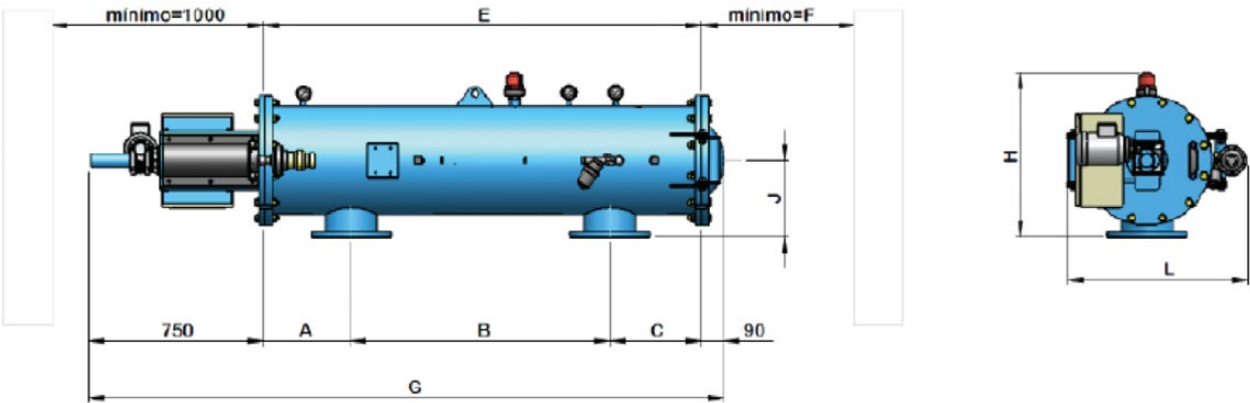
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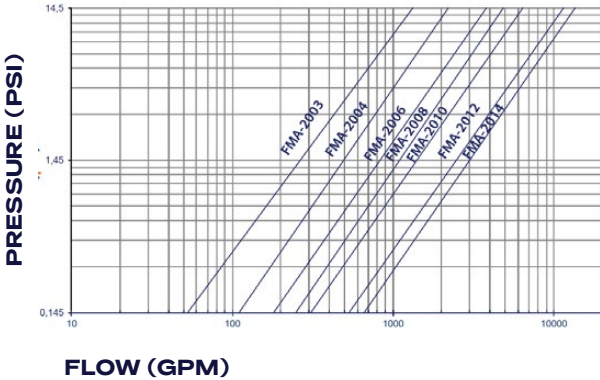
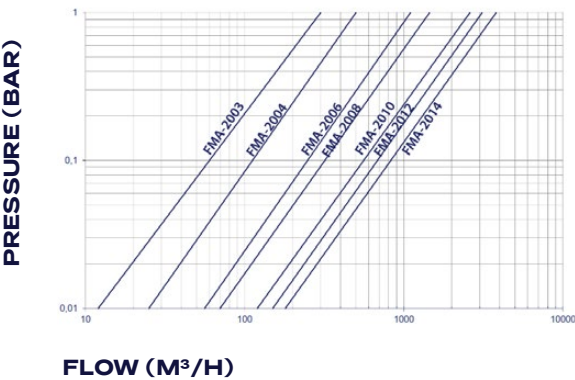
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### FMA-2000 SERIES - 2006

## FEATURES

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

2006

## CONNECTIONS

Inlet/Outlet (BPSM) DN-150 (6")

## 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 382

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 7990

Filtration degrees (µm) 1000, 500, 300, 200, 125, 100, 80, 50, 25, 20, 10

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 22 - 30

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 15

Backwashing water consumption (l / gal) 105

## FLOW (M<sup>3</sup>/H / GPM)

Max. Flow 500

High quality 215

Medium quality 173

Low quality 129

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz Single-phase (Optional 400 V AC three-phase)

Control voltage 24 V DC (12 V DC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

## DIMENSIONS (MM / INCHES)

A 340 E 1580 J 325

B 1000 F 970 L 763

C 240 G 2415

D - H 698

## MATERIALS

Filter housing and lids S-235-JR

Coating Cover with powder paint  
Kiln Polymerized epoxy-polyester powder R

Suction scanner AISI-304

Filtration screen AISI-316L

Brush -

Suction nozzles PVC

Backwashing valves Brass + Stainless steel + PA

Bolts & nuts Bocr. 5.6 & 6.10

Seals NBR - EPDM - Viton

## UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

UV (with 55% transmittance)

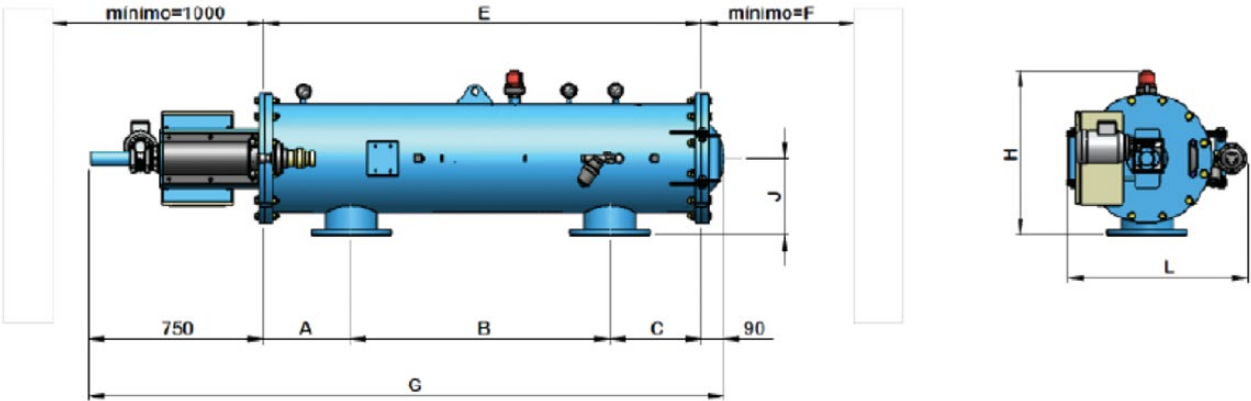
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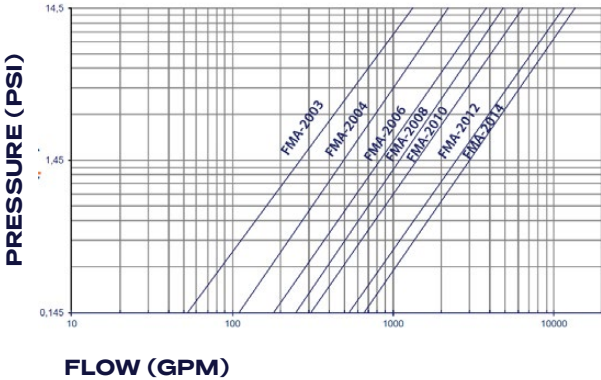
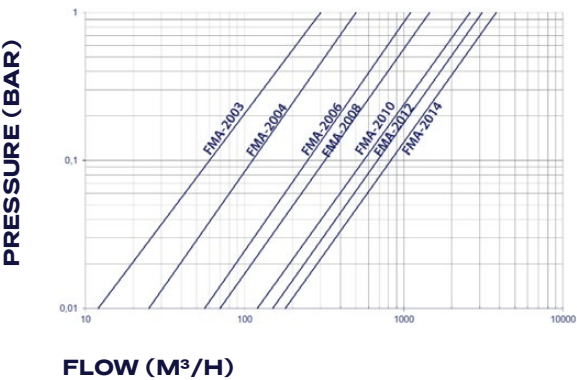
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### FMA-2000 SERIES - 2008

## FEATURES

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

2008

## CONNECTIONS

Inlet/Outlet (BPSM) DN-200 (8")

## 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 439

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 10600

Filtration degrees (µm) 1000, 500, 300, 200, 125, 100, 80, 50, 25, 20, 10

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 22 - 30

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 20

Backwashing water consumption (l / gal) 140

## FLOW (M<sup>3</sup>/H / GPM)

Max. Flow 700

High quality 320

Medium quality 256

Low quality 192

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz Single-phase (Optional 400 V AC three-phase)

Control voltage 24 V DC (12 V DC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

## DIMENSIONS (MM / INCHES)

A 367 E 1855 J 325

B 1100 F 1240 L 763

C 388 G 2690

D - H 698

## MATERIALS

Filter housing and lids S-235-JR

Coating Cover with powder paint  
Kiln Polymerized epoxy-polyester powder R

Suction scanner AISI-304

Filtration screen AISI-316L

Brush -

Suction nozzles PVC

Backwashing valves Brass + Stainless steel + PA

Bolts & nuts Bocr. 5.6 & 6.11

Seals NBR - EPDM - Viton

## UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

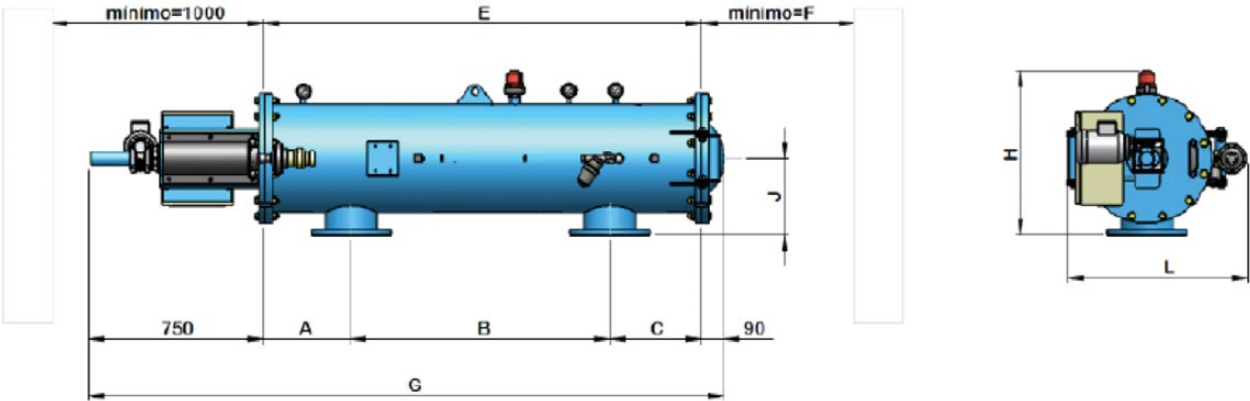
UV (with 55% transmittance)

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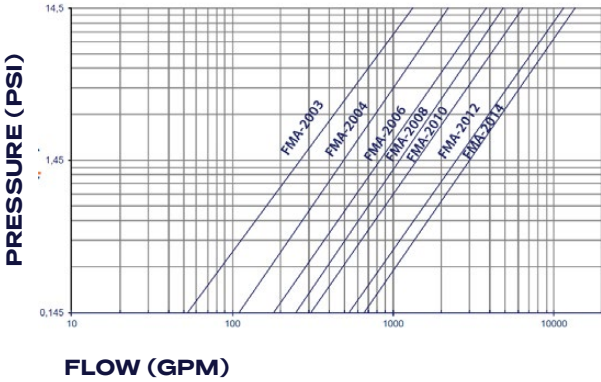
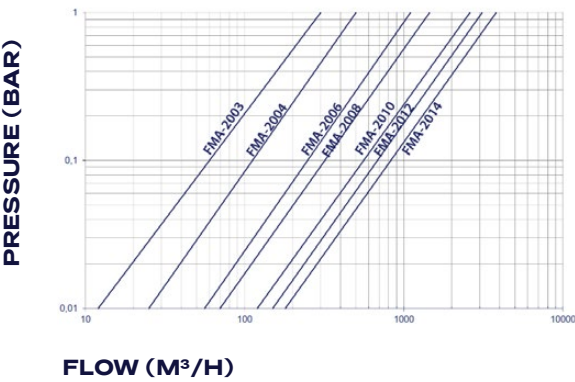
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### FMA-2000 SERIES - 2010

## FEATURES

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

2010

## CONNECTIONS

Inlet/Outlet (BPSM) DN-250 (10")

## 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 495

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 13210

Filtration degrees (µm) 1000, 500, 300, 200, 125, 100, 80, 50, 25, 20, 10

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 22 - 30

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 25

Backwashing water consumption (l / gal) 175

## FLOW (M<sup>3</sup>/H / GPM)

Max. Flow 1150

High quality 580

Medium quality 464

Low quality 348

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz Single-phase (Optional 400 V AC three-phase)

Control voltage 24 V DC (12 V DC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

## DIMENSIONS (MM / INCHES)

A 446 E 2130 J 325

B 1370 F 1520 L 763

C 341 G 2965

D - H 698

## MATERIALS

Filter housing and lids S-235-JR

Coating Cover with powder paint  
Kiln Polymerized epoxy-polyester powder R

Suction scanner AISI-304

Filtration screen AISI-316L

Brush -

Suction nozzles PVC

Backwashing valves Brass + Stainless steel + PA

Bolts & nuts Bocr. 5.6 & 6.12

Seals NBR - EPDM - Viton

## UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

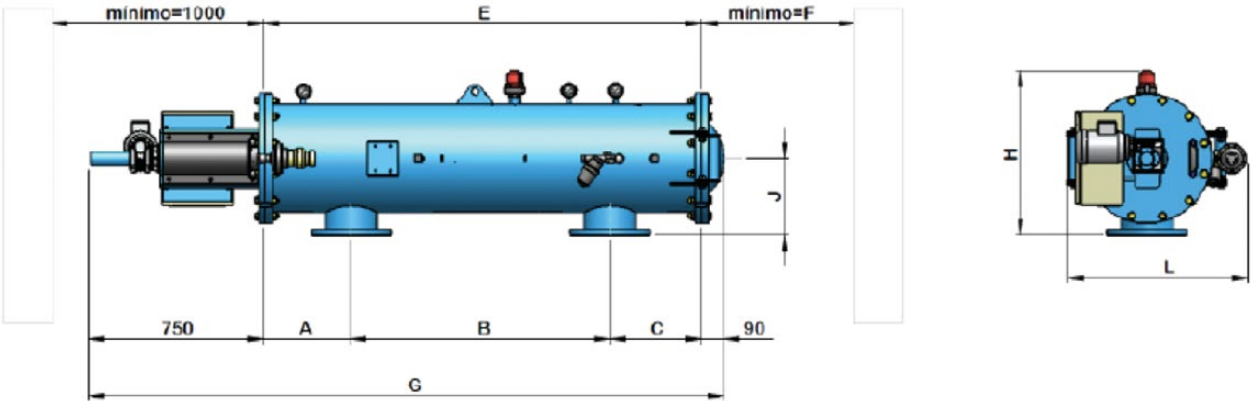
UV (with 55% transmittance)

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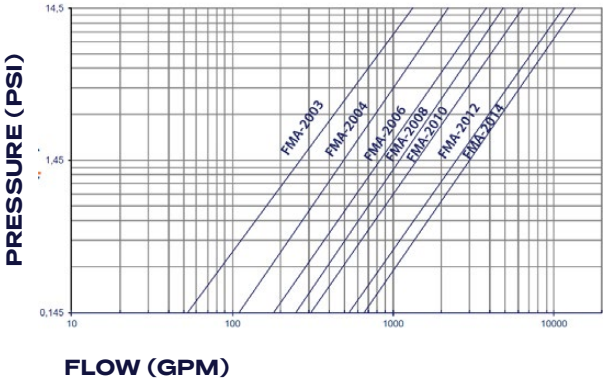
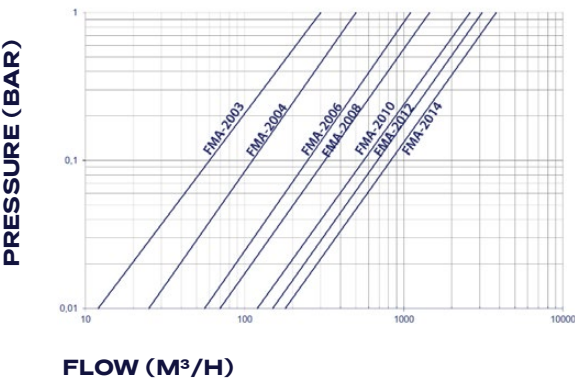
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### FMA-2000 SERIES - 2012

## FEATURES

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

2012

## CONNECTIONS

Inlet/Outlet (BPSM) DN-300 (12")

## 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 675

## FILTRATION

Filtration surface (cm<sup>2</sup>/ft<sup>2</sup>) 16500

Filtration degrees (µm) 1000, 500, 300, 200, 125, 100, 80, 50, 25, 20, 10

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 22 - 30

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 20

Backwashing water consumption (l / gal) 140

## FLOW (M<sup>3</sup>/H / GPM)

Max. Flow 1400

High quality 700

Medium quality 560

Low quality 420

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz Single-phase (Optional 400 V AC three-phase)

Control voltage 24 V DC (12 V DC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

## DIMENSIONS (MM / INCHES)

A 430 E 1855 J 450

B 1100 F 1240 L 976

C 325 G 2707

D - H 925

## MATERIALS

Filter housing and lids S-235-JR

Coating Cover with powder paint  
Kiln Polymerized epoxy-polyester powder R

Suction scanner AISI-304

Filtration screen AISI-316L

Brush -

Suction nozzles PVC

Backwashing valves Brass + Stainless steel + PA

Bolts & nuts Bocr. 5.6 & 6.13

Seals NBR - EPDM - Viton

## UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

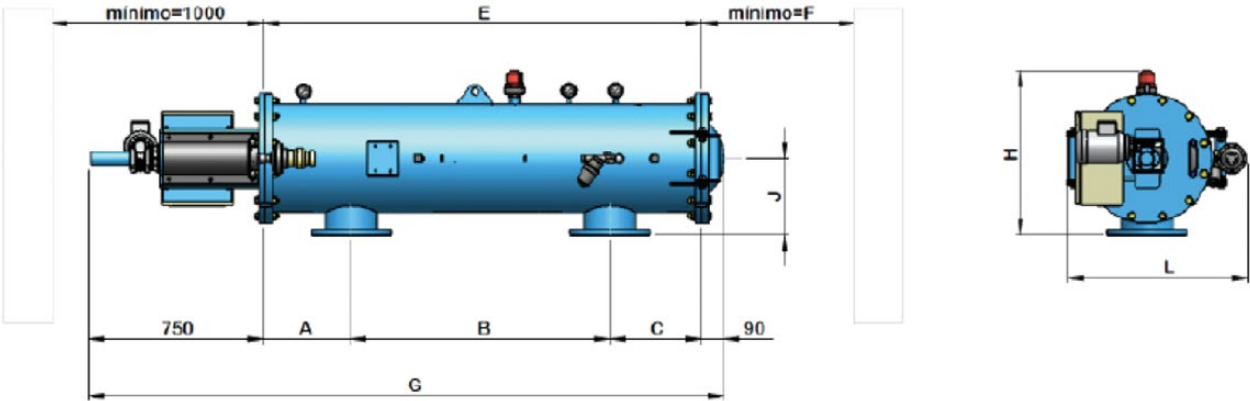
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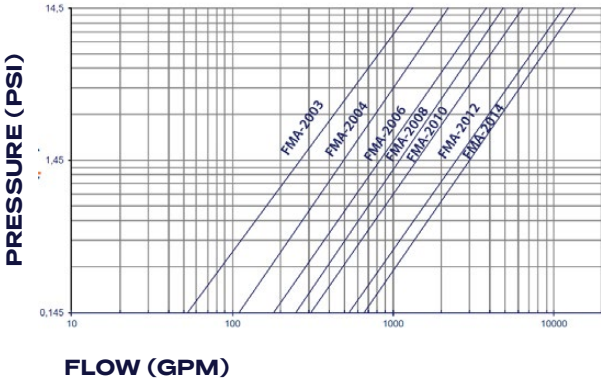
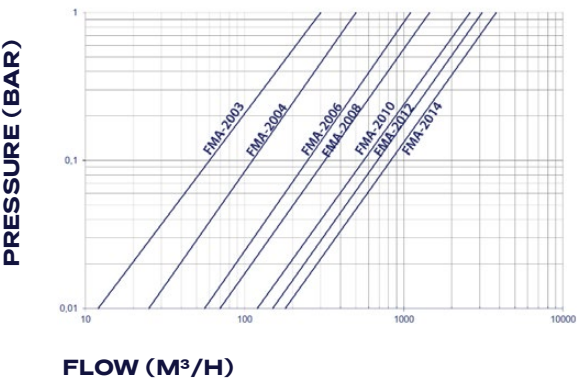
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### FMA-2000 SERIES - 2014

## FEATURES

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

2014

## CONNECTIONS

Inlet/Outlet (BPSM) DN-350 (14")

## 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 753

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 21300

Filtration degrees (µm) 1000, 500, 300, 200, 125, 100, 80, 50, 25, 20, 10

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 22 - 30

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 25

Backwashing water consumption (l / gal) 175

## FLOW (M<sup>3</sup>/H / GPM)

Max. Flow 1800

High quality 900

Medium quality 720

Low quality 540

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz Single-phase (Optional 400 V AC three-phase)

Control voltage 24 V DC (12 V DC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

## DIMENSIONS (MM / INCHES)

A 433 E 2130 J 450

B 1370 F 1520 L 976

C 327 G 2982

D - H 925

## MATERIALS

Filter housing and lids S-235-JR

Coating Cover with powder paint  
Kiln Polymerized epoxy-polyester powder R

Suction scanner AISI-304

Filtration screen AISI-316L

Brush -

Suction nozzles PVC

Backwashing valves Brass + Stainless steel + PA

Bolts & nuts Bocr. 5.6 & 6.14

Seals NBR - EPDM - Viton

## UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

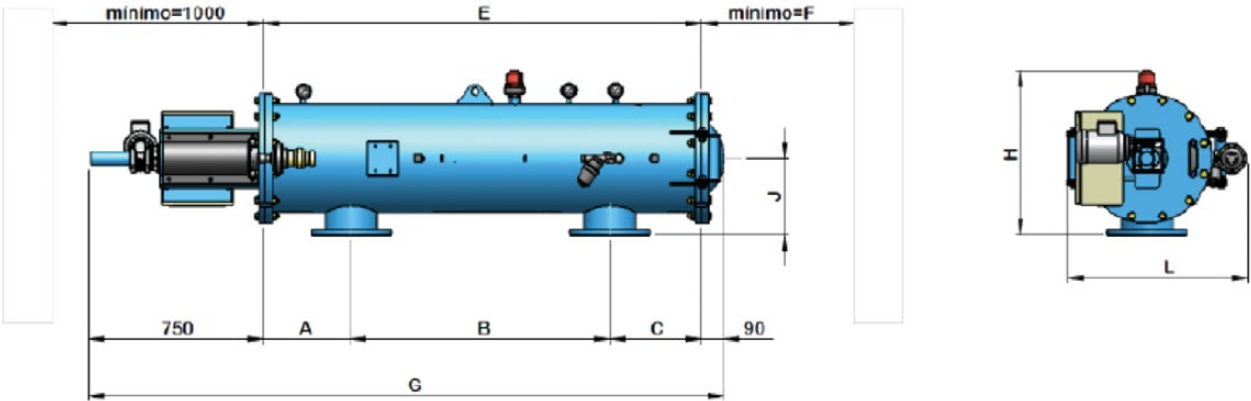
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