

FMA-4000 series

FMA SELF-CLEANING ELECTRIC SCREEN FILTER

The SKAN FMA-4000 series self-cleaning hydraulic screen filters are specifically designed for installations without a power supply, offering efficient and reliable filtration. With a new innovative cartridge, these filters optimize filtering capacity while minimizing water consumption, making them an ideal solution for remote and off-grid applications.



FMA-4000 SERIES - 4003

FEATURES

- Hydraulic operation eliminates the need for a power supply, making it perfect for remote installations.
- Features an innovative cartridge that optimizes the filtration screen, ensuring superior filtering performance.
- Low water consumption reduces operational costs and supports sustainability.
- The innovative injected mesh cleaning cartridge ensures continuous, automated cleaning for low-maintenance operation.
- Suitable for various industries and environments, particularly where no power is available.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

4003

CONNECTIONS

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

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2,5 - 10 / 36 - 145
(Any others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 / 122 (Any others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 100 / 220

FILTRATION

Filtering surface (cm²/ft²) 2475 / 2,66

Filtration degrees (µm) 1000, 500, 300, 200, 125, 74

BACKWASHING

Backwashing valve G-2" Thread 2" NPT

No. Valves

Backwash cycle time (s) 30

Backwashing flow rate (m³/h / gpm) (*) 5 / 22

Backwashing water consumption (l / gal) 40 / 11

FLOW (M³/H / GPM)

Max. Flow 110 / 484

High quality 70 / 308

Medium quality 50 / 220

Low quality 35 / 154

ELECTRICAL

Rated operation voltage 4 batteries 1.5 V LR 14-C / 220 V AC 50 Hz / 110 V AC 60 Hz

Control voltage 6 V DC / (24 DC if option 220 V AC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

DIMENSIONS (MM / INCHES)

A 156 / 6,14 E 712 / 28,03 J 300 / 11,81

B 360 / 14,17 F 500 / 19,69 L 674 / 26,54

C 196 / 7,72 G 1202/47,32

D - H 624 / 24,57

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 PP

Bolts & nuts 5.6 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

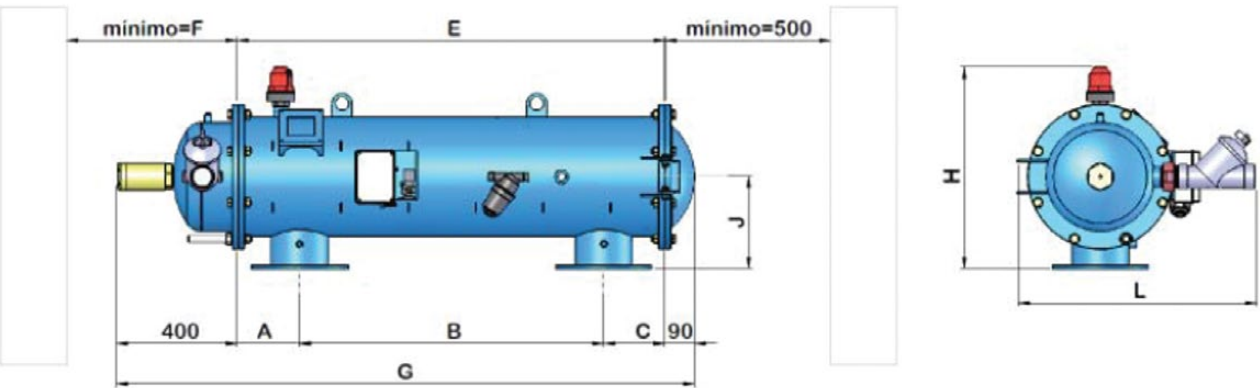
UV (with 55% transmittance)

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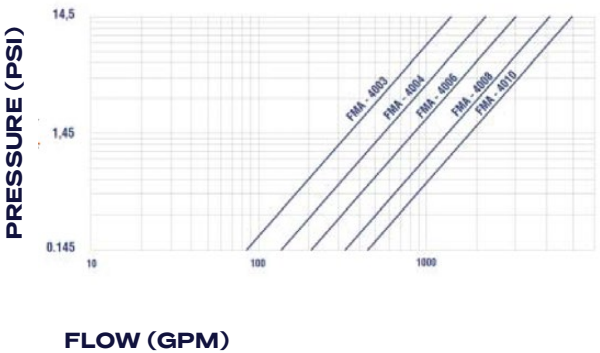
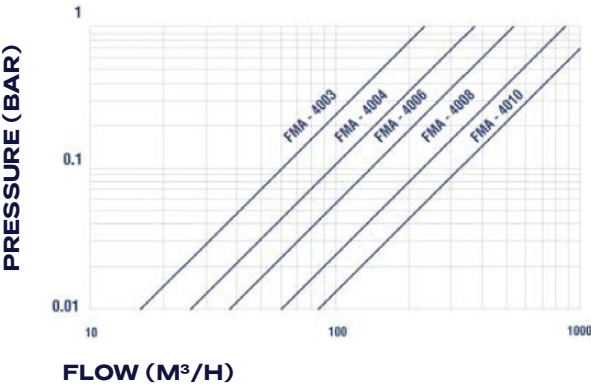
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FILTRATION

PLANS/DRAWINGS



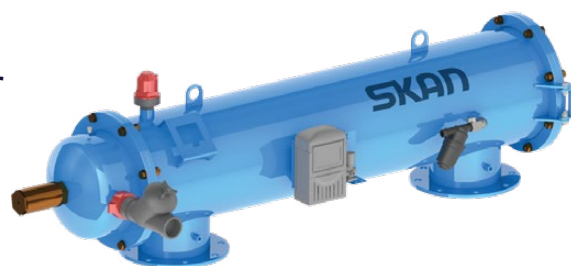
HEAD LOSS



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FMA-4000 SERIES - 4004

FEATURES

- Hydraulic operation eliminates the need for a power supply, making it perfect for remote installations.
- Features an innovative cartridge that optimizes the filtration screen, ensuring superior filtering performance.
- Low water consumption reduces operational costs and supports sustainability.
- The innovative injected mesh cleaning cartridge ensures continuous, automated cleaning for low-maintenance operation.
- Suitable for various industries and environments, particularly where no power is available.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

4004

CONNECTIONS

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

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2,5 - 10 / 36 - 145
(Any others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 / 122 (Any others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 115 / 254

FILTRATION

Filtering surface (cm²/ft²) 4950 / 5,32

Filtration degrees (µm) 1000, 500, 300, 200, 125, 74

BACKWASHING

Backwashing valve G-2" Thread 2" NPT

No. Valves

Backwash cycle time (s) 30

Backwashing flow rate (m³/h / gpm) (*) 10 / 44

Backwashing water consumption (l / gal) 80 / 21

FLOW (M³/H / GPM)

Max. Flow 200 / 881

High quality 90 / 396

Medium quality 74 / 326

Low quality 55 / 242

ELECTRICAL

Rated operation voltage 4 batteries 1.5 V LR 14-C / 220 V AC 50 Hz / 110 V AC 60 Hz

Control voltage 6 V DC / (24 DC if option 220 V AC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

DIMENSIONS (MM / INCHES)

A 111 / 4,37 E 987 / 38,86 J 300 / 11,81

B 770 / 30,32 F 690 / 27,17 L 674 / 26,54

C 106 / 4,17 G 1477/58,15

D - H 624 / 24,57

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 PP

Bolts & nuts 5.6 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

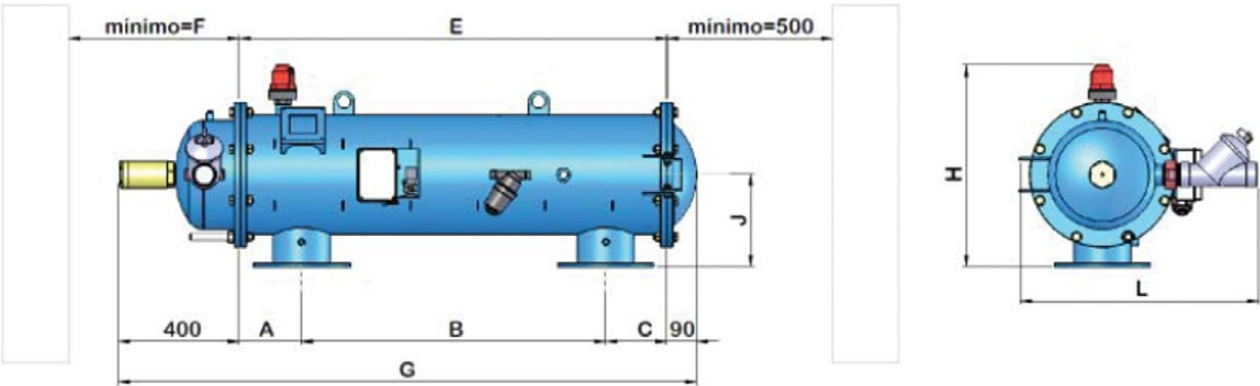
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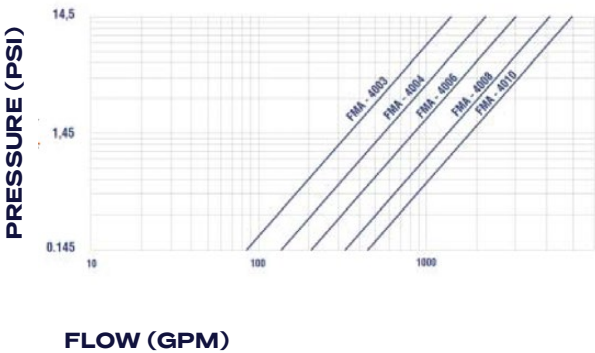
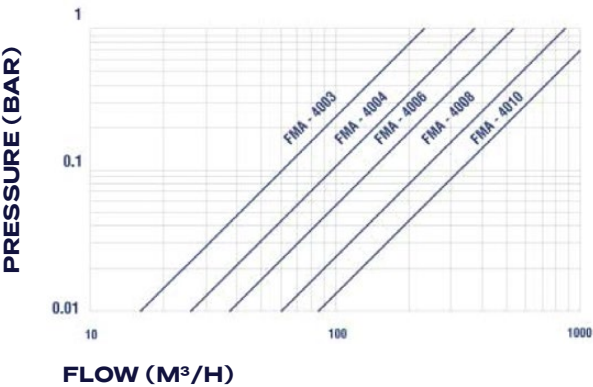
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HEAD LOSS



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FMA-4000 SERIES - 4006

FEATURES

- Hydraulic operation eliminates the need for a power supply, making it perfect for remote installations.
- Features an innovative cartridge that optimizes the filtration screen, ensuring superior filtering performance.
- Low water consumption reduces operational costs and supports sustainability.
- The innovative injected mesh cleaning cartridge ensures continuous, automated cleaning for low-maintenance operation.
- Suitable for various industries and environments, particularly where no power is available.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

4006

CONNECTIONS

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

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2,5 - 10 / 36 - 145
(Any others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 / 122 (Any others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 130 / 287

FILTRATION

Filtering surface (cm²/ft²) 7425 / 7,99

Filtration degrees (µm) 1000, 500, 300, 200, 125, 74

BACKWASHING

Backwashing valve G-2" Thread 2" NPT

No. Valves

Backwash cycle time (s) 30

Backwashing flow rate (m³/h / gpm) (*) 15 / 66

Backwashing water consumption (l / gal) 125 / 33

FLOW (M³/H / GPM)

Max. Flow 270 / 1189

High quality 160 / 704

Medium quality 120 / 528

Low quality 90 / 396

ELECTRICAL

Rated operation voltage 4 batteries 1.5 V LR 14-C / 220 V AC 50 Hz / 110 V AC 60 Hz

Control voltage 6 V DC / (24 DC if option 220 V AC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

DIMENSIONS (MM / INCHES)

A 181 / 7,13 E 1262/49,69 J 300 / 11,81

B 900 / 35,43 F 970 / 38,19 L 674 / 26,54

C 181 / 7,13 G 1752/68,98

D - H 624 / 24,57

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 PP

Bolts & nuts 5.6 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

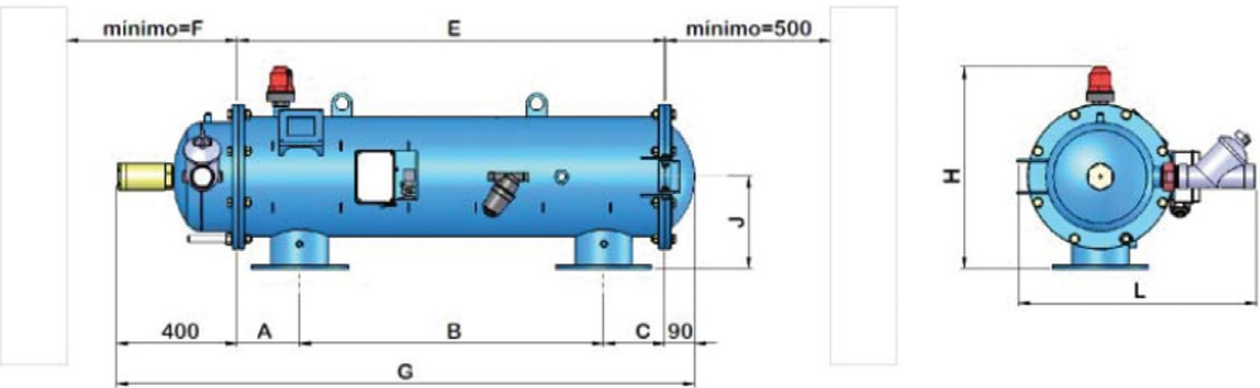
UV (with 55% transmittance)

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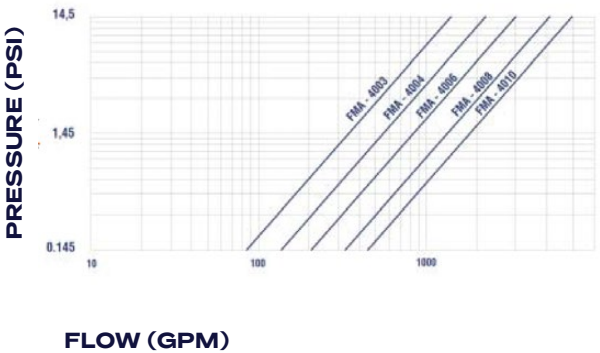
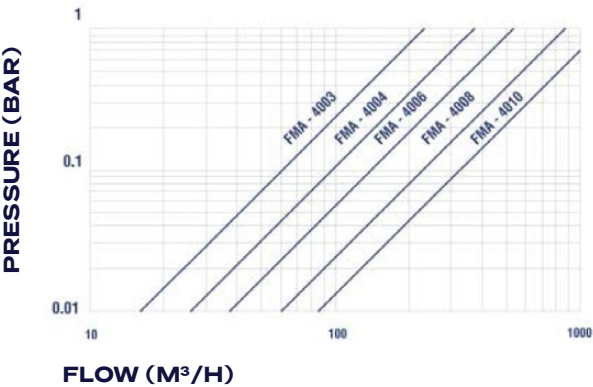
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PLANS/DRAWINGS



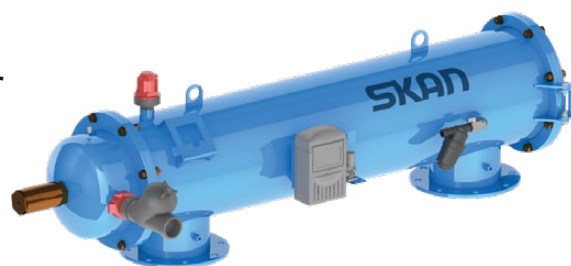
HEAD LOSS



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FMA-4000 SERIES - 4008

FEATURES

- Hydraulic operation eliminates the need for a power supply, making it perfect for remote installations.
- Features an innovative cartridge that optimizes the filtration screen, ensuring superior filtering performance.
- Low water consumption reduces operational costs and supports sustainability.
- The innovative injected mesh cleaning cartridge ensures continuous, automated cleaning for low-maintenance operation.
- Suitable for various industries and environments, particularly where no power is available.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

4008

CONNECTIONS

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

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2,5 - 10 / 36 - 145
(Any others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 / 122 (Any others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 145 / 320

FILTRATION

Filtering surface (cm²/ft²) 9900 / 10,65

Filtration degrees (µm) 1000, 500, 300, 200, 125, 74

BACKWASHING

Backwashing valve G-2" Thread 2" NPT

No. Valves

Backwash cycle time (s) 30

Backwashing flow rate (m³/h / gpm) (*) 20 / 8

Backwashing water consumption (l / gal) 165 / 44

FLOW (M³/H / GPM)

Max. Flow 410 / 1805

High quality 250 / 1101

Medium quality 190 / 837

Low quality 140 / 616

ELECTRICAL

Rated operation voltage 4 batteries 1.5 V LR 14-C / 220 V AC 50 Hz / 110 V AC 60 Hz

Control voltage 6 V DC / (24 DC if option 220 V AC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

DIMENSIONS (MM / INCHES)

A 231 / 9,09 E 1537/60,51 J 300 / 11,81

B 1100 / 43,31 F 1240/48,82 L 674 / 26,54

C 206 / 8,11 G 2027/79,80

D - H 624 / 24,57

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 PP

Bolts & nuts 5.6 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

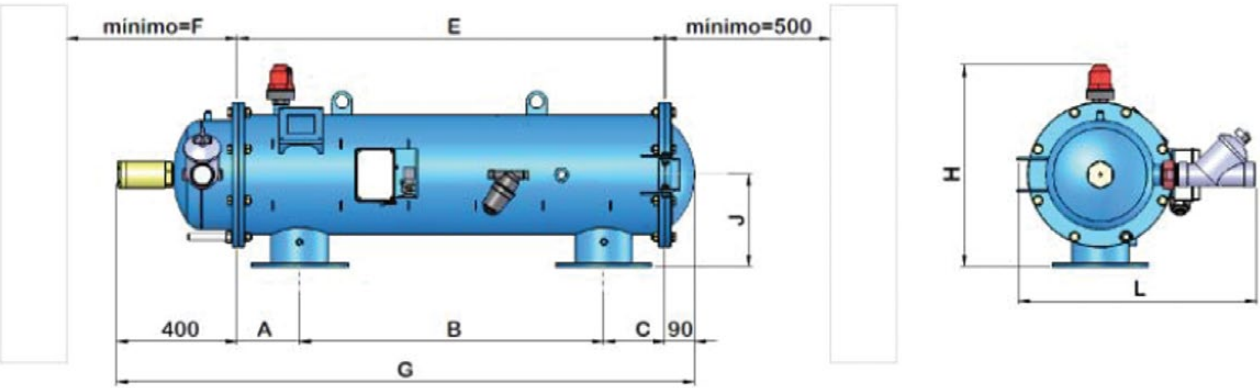
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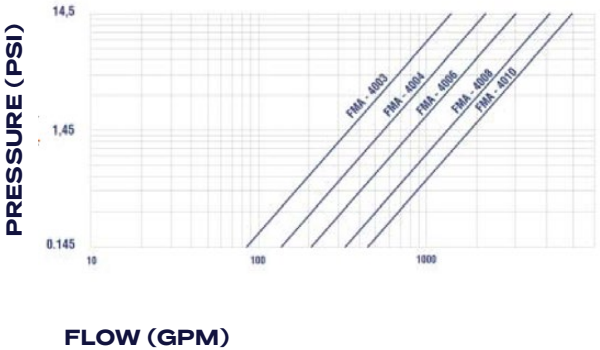
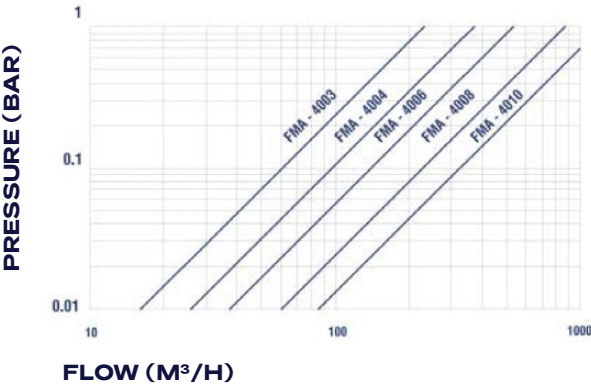
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HEAD LOSS



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FMA-4000 SERIES - 4010

FEATURES

- Hydraulic operation eliminates the need for a power supply, making it perfect for remote installations.
- Features an innovative cartridge that optimizes the filtration screen, ensuring superior filtering performance.
- Low water consumption reduces operational costs and supports sustainability.
- The innovative injected mesh cleaning cartridge ensures continuous, automated cleaning for low-maintenance operation.
- Suitable for various industries and environments, particularly where no power is available.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

4010

CONNECTIONS

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

OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2,5 - 10 / 36 - 145
(Any others, ask SF)

TEMPERATURE (°C/°F)

Max. fluid temperature 50 / 122 (Any others, ask SF)

WEIGHT (KG / LBS)

Unladen weight 165 / 364

FILTRATION

Filtering surface (cm²/ft²) 12375 / 13,32

Filtration degrees (µm) 1000, 500, 300, 200, 125, 74

BACKWASHING

Backwashing valve G-2" Thread 2" NPT

No. Valves

Backwash cycle time (s) 30

Backwashing flow rate (m³/h / gpm) (*) 25 / 110

Backwashing water consumption (l / gal) 210 / 55

FLOW (M³/H / GPM)

Max. Flow 580 / 2554

High quality 320 / 1409

Medium quality 270 / 1189

Low quality 190 / 837

ELECTRICAL

Rated operation voltage 4 batteries 1.5 V LR 14-C / 220 V AC 50 Hz / 110 V AC 60 Hz

Control voltage 6 V DC / (24 DC if option 220 V AC)

Electric Motor Power (kW/HP) No Data

Electric motor consumption (A) No Data

Power Supply (kW) No Data

DIMENSIONS (MM / INCHES)

A 231 / 9,09 E 1812/71,34 J 300 / 11,81

B 1370 / 53,94 F 1520/59,84 L 300 / 11,81

C 211 / 8,31 G 2302/90,63

D - H 624 / 24,57

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 PP

Bolts & nuts 5.6 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

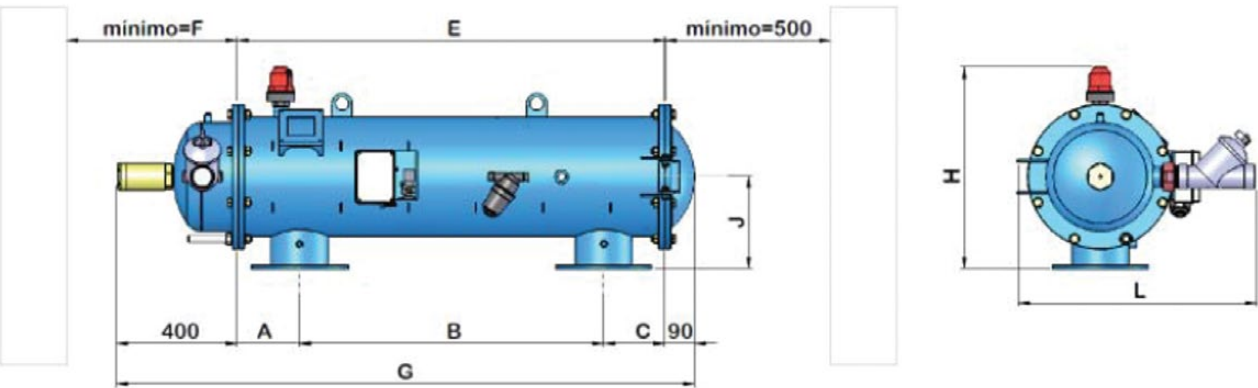
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HEAD LOSS

