

## FMA-4000E + ACB series

# FMA SELF-CLEANING ELECTRIC SCREEN FILTER

The SKAN FMA-4000E+ACB dual staged automatic screen filters are designed to provide optimal filtration for electrical installations, efficiently handling large particles with minimal maintenance. With an advanced cartridge that maximizes the filter area, these filters deliver high flow rates and superior performance. The electric drive, low water consumption, and automatic cleaning system make them the perfect solution for demanding filtration applications.



### FMA-4000E + ACB SERIES - 4003E+ABC

## FEATURES

- Engineered to handle large particles with ease, reducing the risk of clogging and maintenance needs.
- The innovative cartridge design optimizes the filter area, enabling higher flow rates for greater filtration capacity.
- The automatic cleaning system ensures the filter mesh stays clear, minimizing manual intervention and maintenance.
- Consumes minimal water during cleaning, reducing operational costs and promoting sustainability.
- The electric drive system guarantees efficient, consistent filtration performance in installations with available power.
- Ideal for industries requiring filtration with large particles and minimal upkeep, such as food production and water treatment.

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

4003E+ABC

## CONNECTIONS

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

## OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 / 29 - 145 (Any others, ask SF )

## TEMPERATURE (°C/°F)

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

## WEIGHT (KG / LBS)

Unladen weight 105 / 231

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 2475 / 2,66

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

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 20

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 3 / 13

Backwashing water consumption (l / gal) 25 / 7

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

Max. Flow 110 / 484

High quality 70 / 308

Medium quality 50 / 220

Low quality 35 / 154

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase

Control voltage 24 V DC

Electric Motor Power (kW/HP) 0,18 / 0,24

Electric motor consumption (A) 0,72

Power Supply (kW) -

## DIMENSIONS (MM / INCHES)

A 242 / 9,53 E 817 / 32,17 J 340 / 13,39

B 360 / 14,17 F 00 / 35,43 L -

C 215 / 8,46 G 1447 / 56,97

D - H 357 / 14,06

## MATERIALS

Filter housing and lids S-235-JR

Coating Kiln Polymerized epoxy-polyester powder

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 -

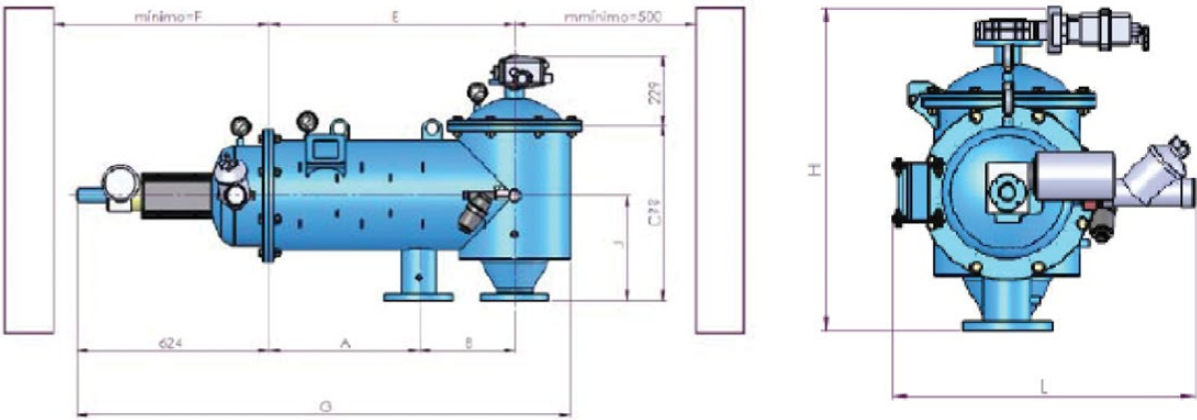
UV (with 55% transmittance) -

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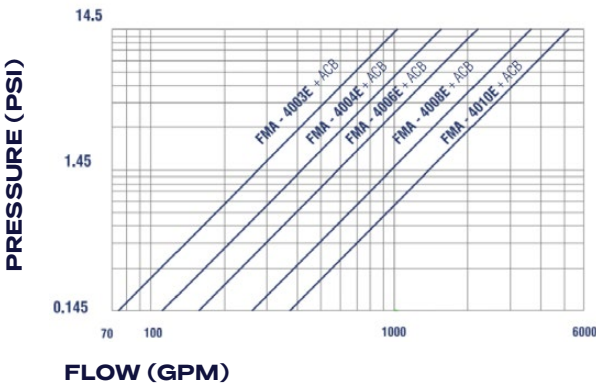
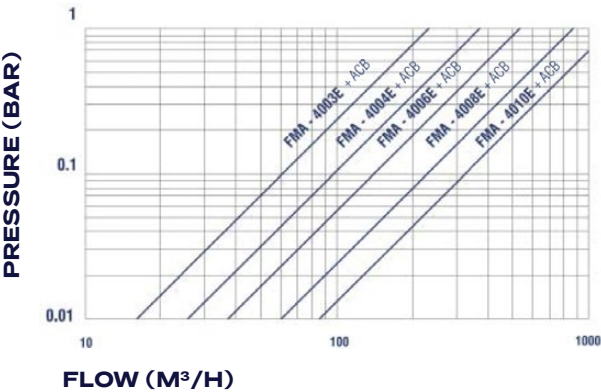
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# PLANS/DRAWINGS



# HEAD LOSS



## FMA-4000E + ACB series

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### FMA-4000E + ACB SERIES - 4004E+ABC

## FEATURES

- Engineered to handle large particles with ease, reducing the risk of clogging and maintenance needs.
- The innovative cartridge design optimizes the filter area, enabling higher flow rates for greater filtration capacity.
- The automatic cleaning system ensures the filter mesh stays clear, minimizing manual intervention and maintenance.
- Consumes minimal water during cleaning, reducing operational costs and promoting sustainability.
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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

4004E+ABC

## CONNECTIONS

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

## OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 / 29 - 145 (Any others, ask SF )

## TEMPERATURE (°C/°F)

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

## WEIGHT (KG / LBS)

Unladen weight 120 / 265

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 4950 / 5,32

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

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 20

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 6,5 / 29

Backwashing water consumption (l / gal) 49 / 13

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

Max. Flow 200 / 881

High quality 90 / 396

Medium quality 70 / 308

Low quality 55 / 242

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase

Control voltage 24 V DC

Electric Motor Power (kW/HP) 0,18 / 0,24

Electric motor consumption (A) 0,72

Power Supply (kW) -

## DIMENSIONS (MM / INCHES)

A 107 / 4,21 E 1092 / 42,99 J 340 / 13,39

B 770 / 30,32 F 900 / 35,43 L -

C 215 / 8,46 G 1722 / 67,80

D - H 357 / 14,06

## MATERIALS

Filter housing and lids S-235-JR

Coating Kiln Polymerized epoxy-polyester powder

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 -

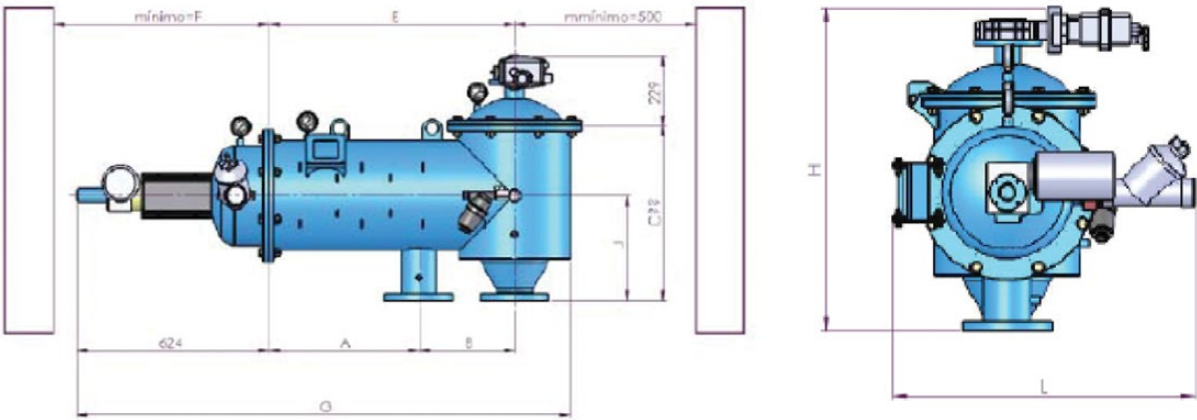
UV (with 55% transmittance) -

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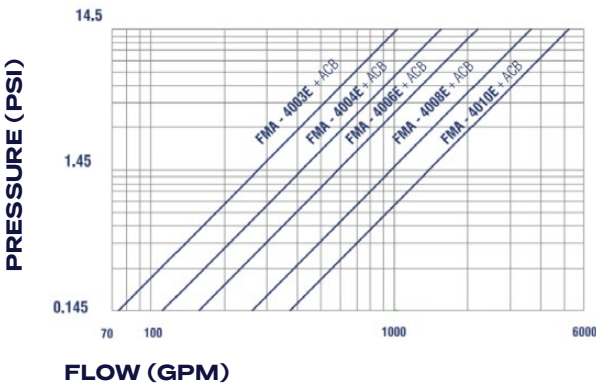
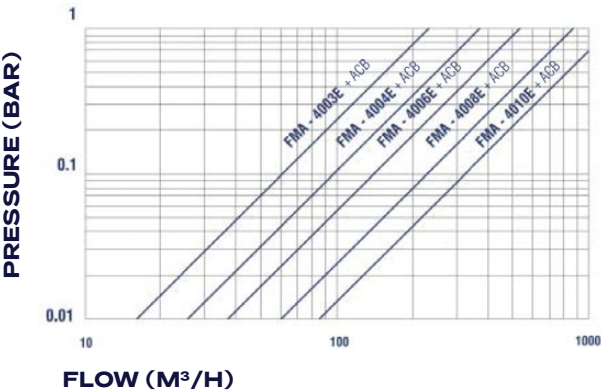
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**FMA-4000E + ACB SERIES -  
4006E+ABC**

## FEATURES

- Engineered to handle large particles with ease, reducing the risk of clogging and maintenance needs.
- The innovative cartridge design optimizes the filter area, enabling higher flow rates for greater filtration capacity.
- The automatic cleaning system ensures the filter mesh stays clear, minimizing manual intervention and maintenance.
- Consumes minimal water during cleaning, reducing operational costs and promoting sustainability.
- The electric drive system guarantees efficient, consistent filtration performance in installations with available power.
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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

4006E+ABC

## CONNECTIONS

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

## OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 / 29 - 145 (Any others, ask SF )

## TEMPERATURE (°C/°F)

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

## WEIGHT (KG / LBS)

Unladen weight 135 / 298

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 7425 / 7,99

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

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 20

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 14 / 62

Backwashing water consumption (l / gal) 110 / 29

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

Max. Flow 270 / 1189

High quality 160 / 705

Medium quality 120 / 528

Low quality 90 / 396

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase

Control voltage 24 V DC

Electric Motor Power (kW/HP) 0,18 / 0,24

Electric motor consumption (A) 0,72

Power Supply (kW) -

## DIMENSIONS (MM / INCHES)

A 252 / 9,92 E 1367 / 53,82 J 340 / 13,39

B 900 / 35,43 F 970 / 38,20 L -

C 215 / 8,46 G 1997 / 78,62

D - H 357 / 14,06

## MATERIALS

Filter housing and lids S-235-JR

Coating Kiln Polymerized epoxy-polyester powder

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) -

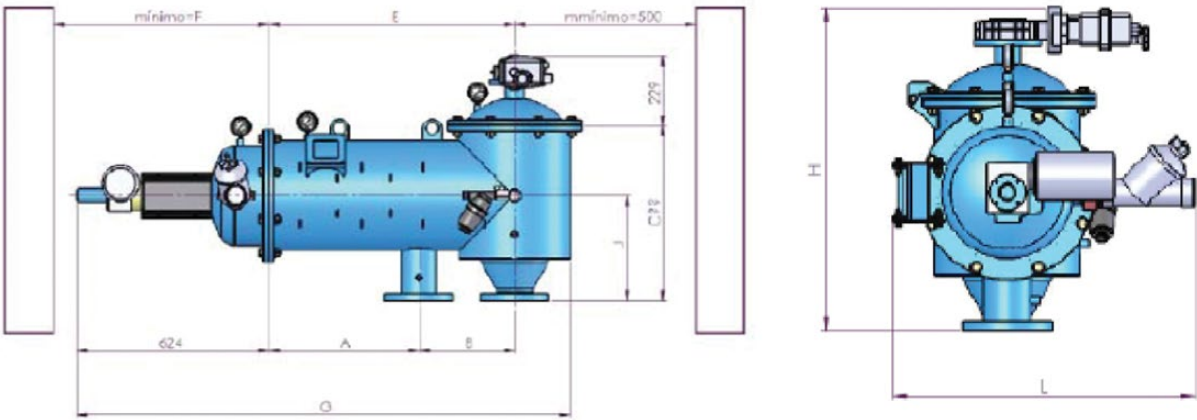
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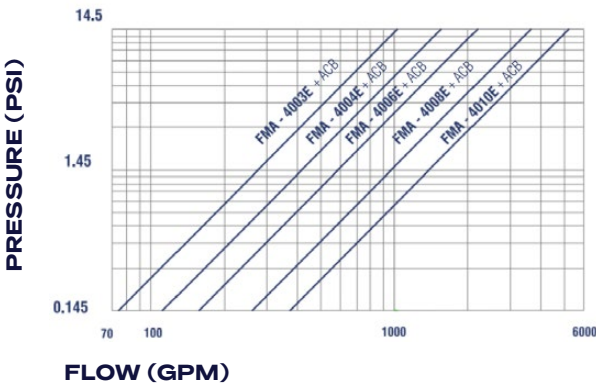
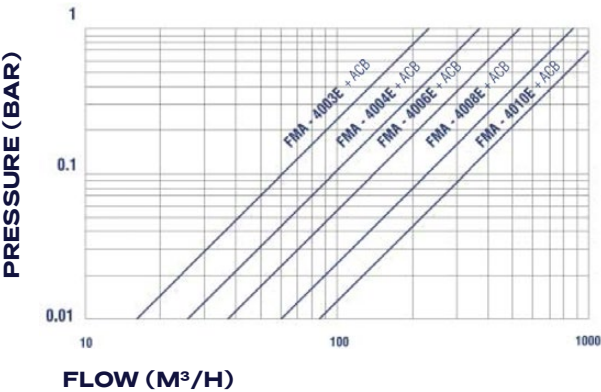
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## FMA-4000E + ACB series

# FMA SELF-CLEANING ELECTRIC SCREEN FILTER

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### FMA-4000E + ACB SERIES - 4008E+ABC

## FEATURES

- Engineered to handle large particles with ease, reducing the risk of clogging and maintenance needs.
- The innovative cartridge design optimizes the filter area, enabling higher flow rates for greater filtration capacity.
- The automatic cleaning system ensures the filter mesh stays clear, minimizing manual intervention and maintenance.
- Consumes minimal water during cleaning, reducing operational costs and promoting sustainability.
- The electric drive system guarantees efficient, consistent filtration performance in installations with available power.
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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

4008E+ABC

## CONNECTIONS

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

## OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 / 29 - 145 (Any others, ask SF )

## TEMPERATURE (°C/°F)

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

## WEIGHT (KG / LBS)

Unladen weight 150 / 331

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 9900 / 10,65

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

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 20

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 23 / 101

Backwashing water consumption (l / gal) 178 / 47

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

Max. Flow 410 / 1805

High quality 250 / 1101

Medium quality 190 / 837

Low quality 140 / 616

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase

Control voltage 24 V DC

Electric Motor Power (kW/HP) 0,18 / 0,24

Electric motor consumption (A) 0,72

Power Supply (kW) -

## DIMENSIONS (MM / INCHES)

A 327 / 12,88 E 1642 / 64,65 J 340 / 13,39

B 1100 / 43,31 F 1240 / 48,82 L -

C 215 / 8,46 G 2272 / 89,45

D - H 357 / 14,06

## MATERIALS

Filter housing and lids S-235-JR

Coating Kiln Polymerized epoxy-polyester powder

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 -

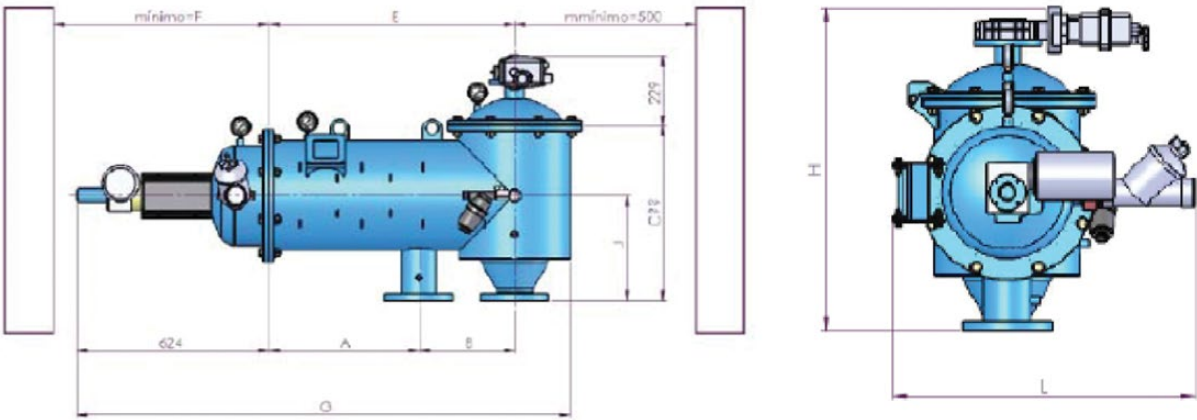
UV (with 55% transmittance) -

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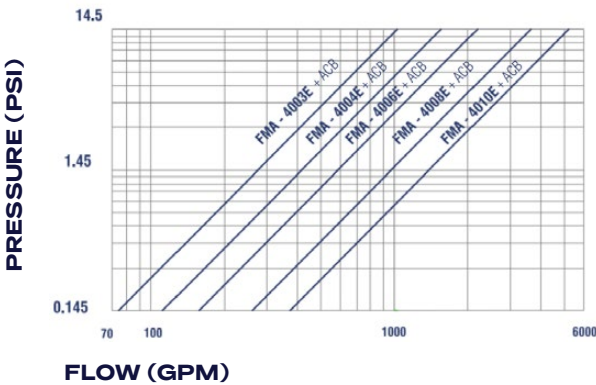
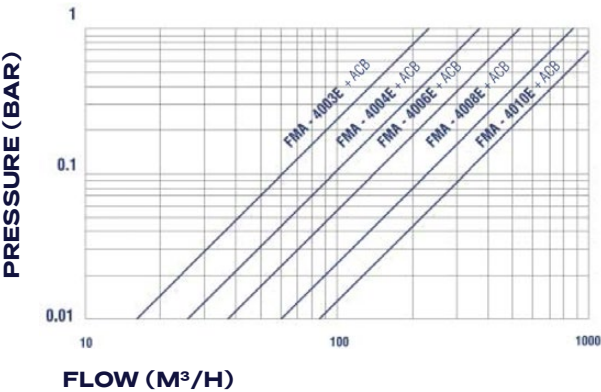
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### FMA-4000E + ACB SERIES - 4010E+ABC

## FEATURES

- Engineered to handle large particles with ease, reducing the risk of clogging and maintenance needs.
- The innovative cartridge design optimizes the filter area, enabling higher flow rates for greater filtration capacity.
- The automatic cleaning system ensures the filter mesh stays clear, minimizing manual intervention and maintenance.
- Consumes minimal water during cleaning, reducing operational costs and promoting sustainability.
- The electric drive system guarantees efficient, consistent filtration performance in installations with available power.
- Ideal for industries requiring filtration with large particles and minimal upkeep, such as food production and water treatment.

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# OPERATIONAL REQUIREMENTS

## PRODUCT CODE

4010E+ABC

## CONNECTIONS

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

## OPERATING PRESSURES (BAR / PSI)

Min./Max. working pressure 2 - 10 / 29 - 145 (Any others, ask SF )

## TEMPERATURE (°C/°F)

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

## WEIGHT (KG / LBS)

Unladen weight 170 / 375

## FILTRATION

Filtering surface (cm<sup>2</sup>/ft<sup>2</sup>) 12375 / 13,32

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

## BACKWASHING

Backwashing valve G-2" Thread

No. Valves

Backwash cycle time (s) 20

Backwashing flow rate (m<sup>3</sup>/h / gpm) (\*) 28 / 123

Backwashing water consumption (l / gal) 238 / 63

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

Max. Flow 580 / 2554

High quality 320 / 1409

Medium quality 270 / 1189

Low quality 190 / 837

## ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase

Control voltage 24 V DC

Electric Motor Power (kW/HP) 0,18 / 0,24

Electric motor consumption (A) 0,72

Power Supply (kW) -

## DIMENSIONS (MM / INCHES)

A 332 / 13,07 E 1917 / 75,47 J 340 / 13,39

B 1370 / 53,94 F 1520 / 59,84 L -

C 215 / 8,46 G 2547 / 100,28

D - H 357 / 14,06

## MATERIALS

Filter housing and lids S-235-JR

Coating Kiln Polymerized epoxy-polyester powder

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 -

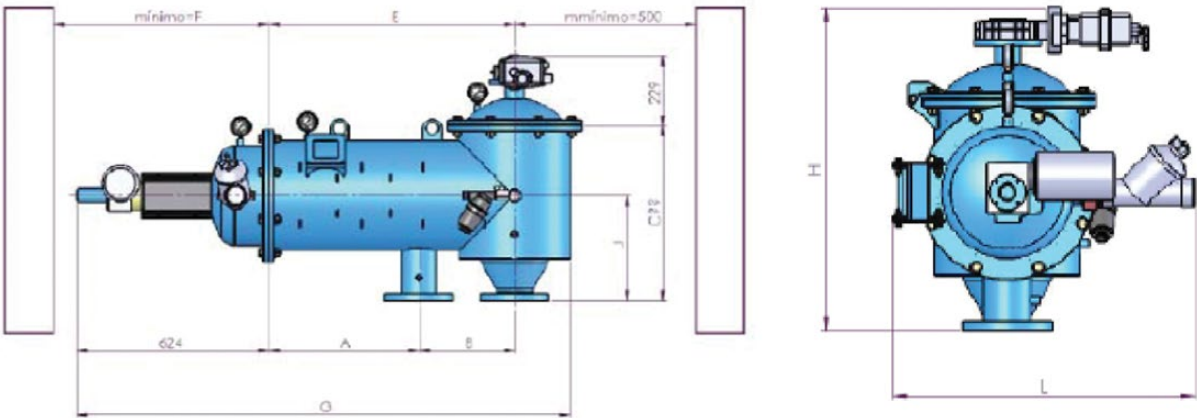
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