

FMA-10000 Series

FMA SELF-CLEANING ELECTRIC SCREEN FILTER

The SKAN FMA-10000 automatic mesh filters are engineered for high-performance filtration across a wide range of industries. Designed to handle large flow rates, these filters feature an innovative vertical arrangement with multiple cartridges, providing powerful filtration in compact spaces. Ideal for municipal, industrial, and irrigation applications, they offer reliable filtration solutions for various sectors.



FMA-10000 SERIES - 10210

FEATURES

- Designed to efficiently handle large flow volumes, making it ideal for high-demand municipal, industrial, and irrigation systems.
- The internal vertical arrangement with multiple cartridges maximizes filtration capacity while minimizing the space required for installation.
- Equipped with an electrical actuation system for consistent and effective filtration in applications where energy is available.
- Suitable for use in drinking water facilities, desalination plants, food production, co-generation plants, chemical industries, and cooling towers.
- Acts as a physical barrier against zebra mussels, ensuring the longevity and performance of critical water systems.
- Provides efficient filtration for field irrigation and golf courses, safeguarding water quality and equipment.

Freecall 1800 656 771
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OPERATIONAL REQUIREMENTS

PRODUCT CODE

10210

CONNECTIONS

Inlet/Outlet (BPSM) DN-450 (18")

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 2700 / 5953

FILTRATION

Filtering surface (cm²/ft²) 26420 / 28,44

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 2

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 50 / 220

Backwashing water consumption (l / gal) 350 / 92

FLOW (M³/H / GPM)

Max. Flow 2300 / 10127

High quality 1160 / 5107

Medium quality 928 / 4086

Low quality 696 / 3064

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 0,74 / 0,99

Electric motor consumption (A) 2,8

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 1800 / 70,87 E - J -

B 1890 / 74,41 F - L -

C 3750 / 147,64 G -

D - 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 Foundry with epoxy coating

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

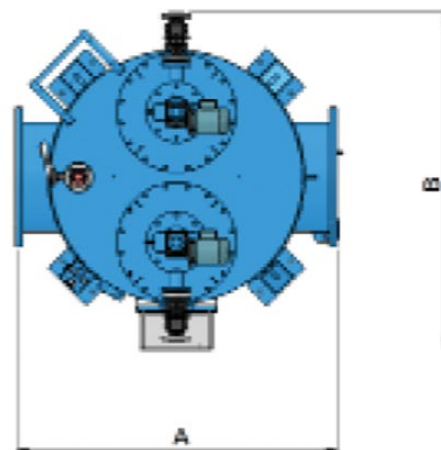
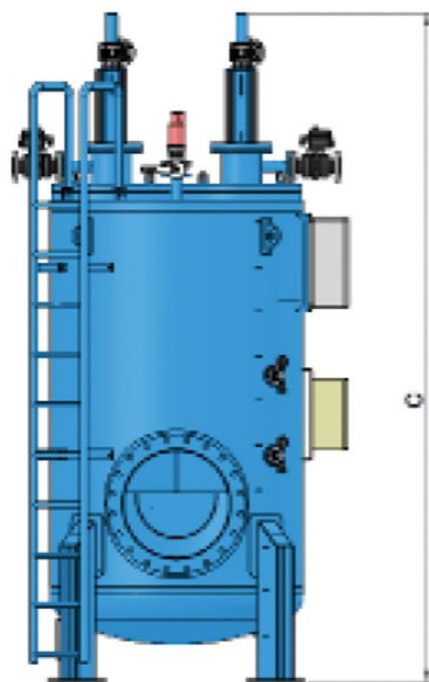
UV (with 55% transmittance)

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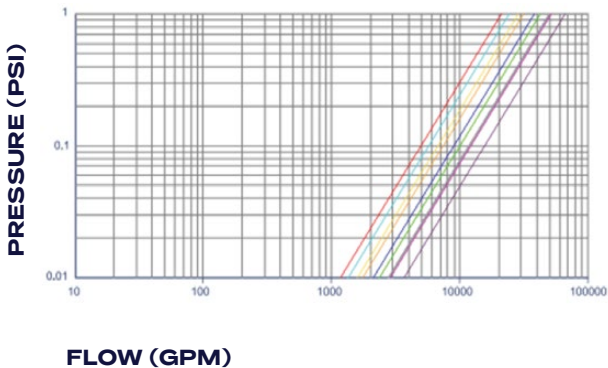
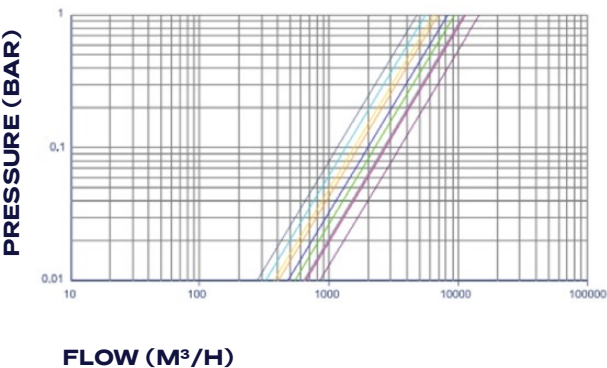
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 FILTRATION

PLANS/DRAWINGS



HEAD LOSS



FMA-10000 Series

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FMA-10000 SERIES - 10212

FEATURES

- Designed to efficiently handle large flow volumes, making it ideal for high-demand municipal, industrial, and irrigation systems.
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- Equipped with an electrical actuation system for consistent and effective filtration in applications where energy is available.
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- Acts as a physical barrier against zebra mussels, ensuring the longevity and performance of critical water systems.
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OPERATIONAL REQUIREMENTS

PRODUCT CODE

10212

CONNECTIONS

Inlet/Outlet (BPSM) DN-450 (18")

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 2700 / 5953

FILTRATION

Filtering surface (cm²/ft²) 33000/ 35,52

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 2

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 40 / 176

Backwashing water consumption (l / gal) 280 / 74

FLOW (M³/H / GPM)

Max. Flow 2800 / 12328

High quality 1400 / 6164

Medium quality 1120 / 4931

Low quality 840 / 3698

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 0,74 / 0,99

Electric motor consumption (A) 2,8

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 1800 / 70,87 E - J -

B 1890 / 74,41 F - L -

C 3750 / 147,64 G -

D - 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 Foundry with epoxy coating

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

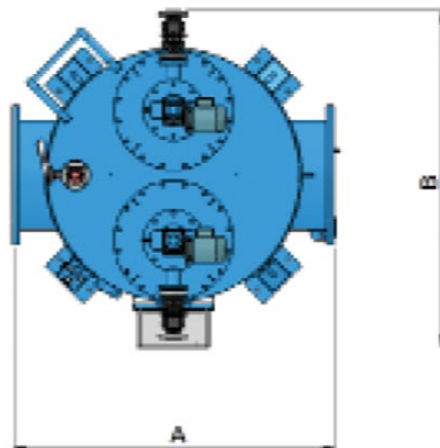
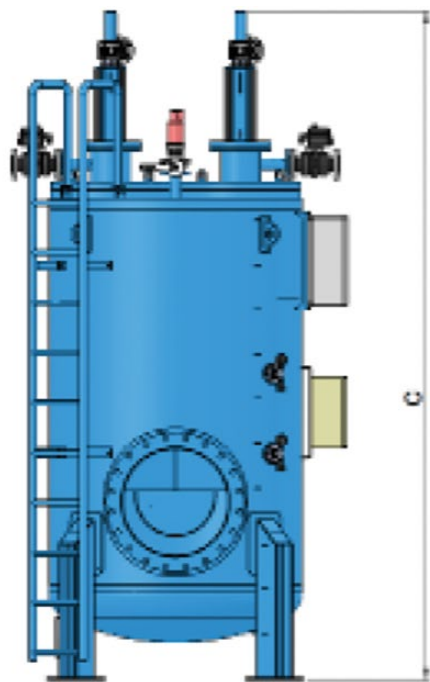
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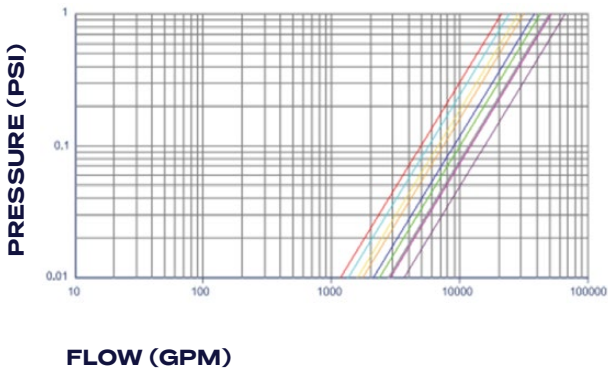
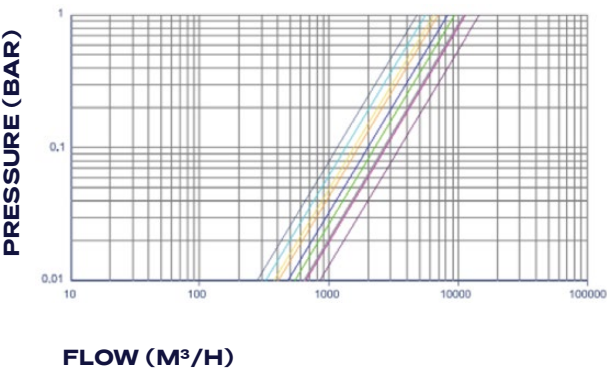
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PLANS/DRAWINGS



HEAD LOSS



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FMA-10000 SERIES - 10214

FEATURES

- Designed to efficiently handle large flow volumes, making it ideal for high-demand municipal, industrial, and irrigation systems.
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OPERATIONAL REQUIREMENTS

PRODUCT CODE

10214

CONNECTIONS

Inlet/Outlet (BPSM) DN-450 (18")

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 2900 / 6393

FILTRATION

Filtering surface (cm²/ft²) 42600/ 45,85

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 2

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 50 / 220

Backwashing water consumption (l / gal) 175 / 46

FLOW (M³/H / GPM)

Max. Flow 3600 / 15850

High quality 1800 / 7925

Medium quality 1440 / 6340

Low quality 1080 / 4755

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 0,74 / 0,99

Electric motor consumption (A) 2,8

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 1800 / 70,87 E - J -

B 1890 / 74,41 F - L -

C 3750 / 147,64 G -

D - 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 Foundry with epoxy coating

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp

No. lamps

UV-C lamp power

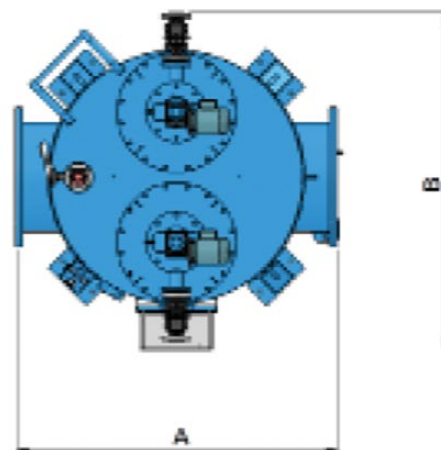
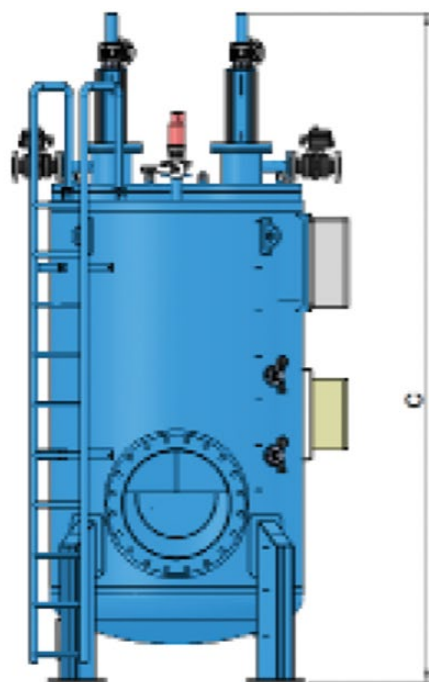
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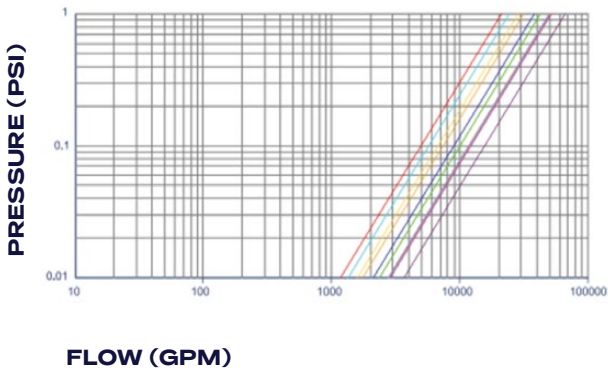
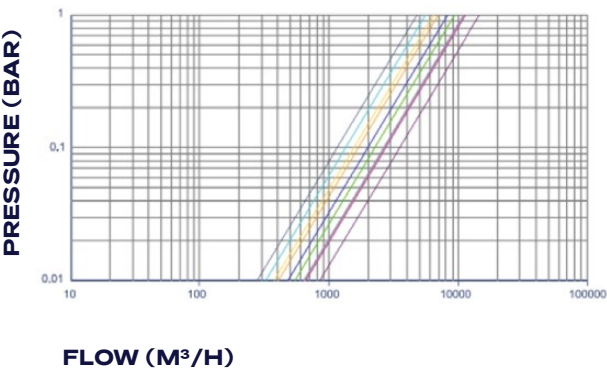
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PLANS/DRAWINGS



HEAD LOSS



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FMA-10000 SERIES - 10310

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

10310

CONNECTIONS

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

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 3000 / 6614

FILTRATION

Filtering surface (cm²/ft²) 39630 / 42,66

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 3

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 75 / 330

Backwashing water consumption (l / gal) 525 / 139

FLOW (M³/H / GPM)

Max. Flow 3450 / 15190

High quality 1740 / 7661

Medium quality 1392 / 6129

Low quality 1044 / 4597

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 1,11 / 1,49

Electric motor consumption (A) 4,2

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 1900 / 74,80 E - J -

B 2000 / 78,74 F - L -

C 3820 / 150,39 G -

D - 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 Foundry with epoxy coating

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp -

No. lamps -

UV-C lamp power -

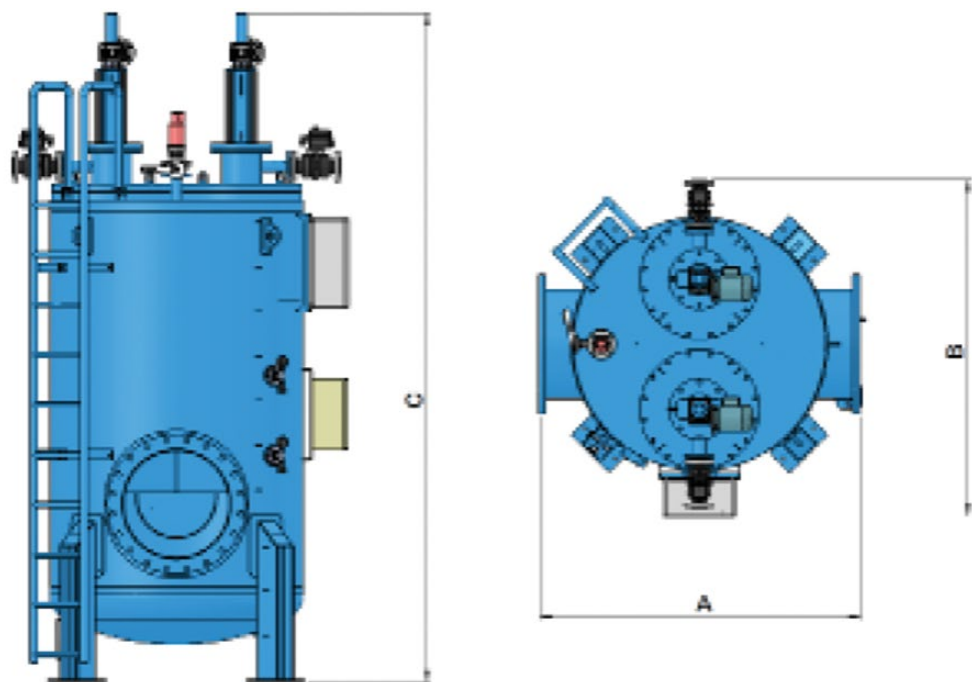
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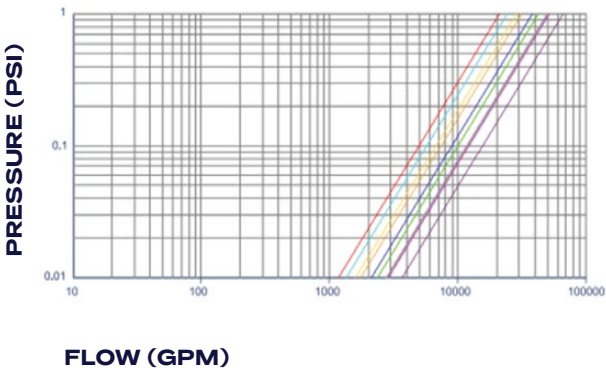
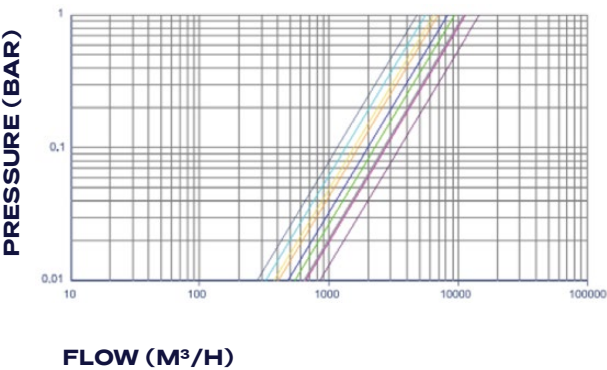
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PLANS/DRAWINGS



HEAD LOSS



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FMA-10000 SERIES - 10312

FEATURES

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PRODUCT CODE

10312

CONNECTIONS

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

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 3250 / 7165

FILTRATION

Filtering surface (cm²/ft²) 49500 / 53,28

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 3

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 60/ 264

Backwashing water consumption (l / gal) 420 / 111

FLOW (M³/H / GPM)

Max. Flow 4200 / 18492

High quality 2100 / 9246

Medium quality 1680 / 7397

Low quality 1260 / 5548

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 1,11 / 1,49

Electric motor consumption (A) 4,2

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 1900 / 74,80 E - J -

B 2000 / 78,74 F - L -

C 3820 / 150,39 G -

D - 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 Foundry with epoxy coating

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp -

No. lamps -

UV-C lamp power -

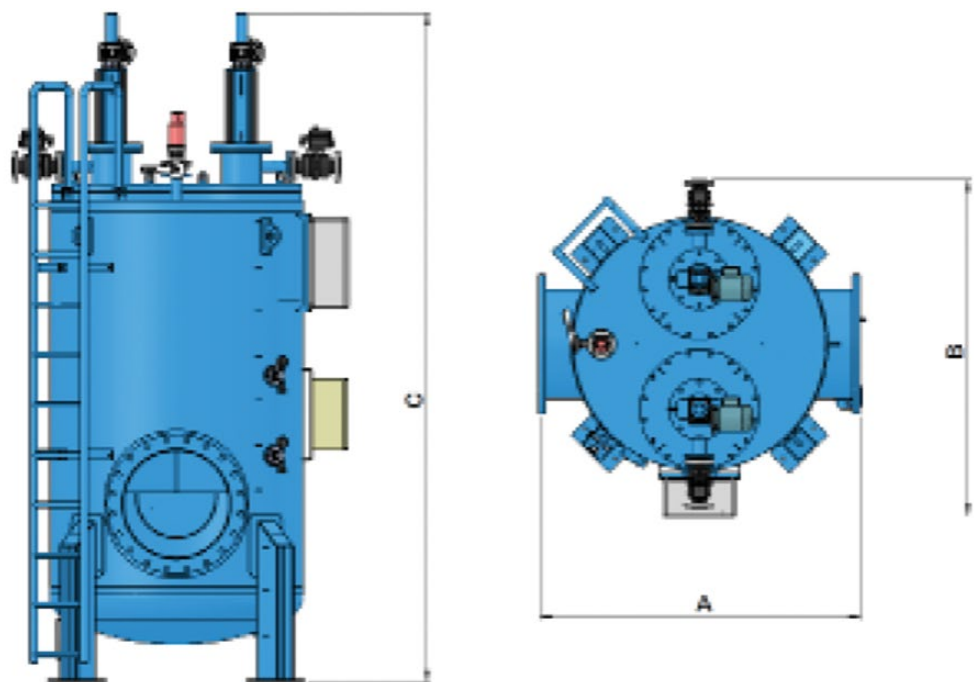
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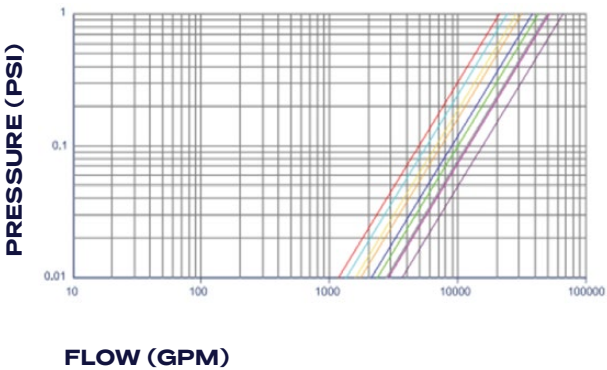
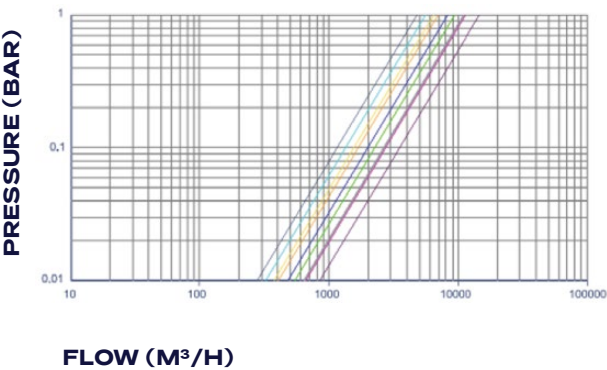
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 FILTRATION

PLANS/DRAWINGS



HEAD LOSS



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FMA-10000 SERIES - 10314

FEATURES

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

10314

CONNECTIONS

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

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 3500 / 7716

FILTRATION

Filtering surface (cm²/ft²) 63900 / 68,78

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 3

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 75/ 330

Backwashing water consumption (l / gal) 525 / 139

FLOW (M³/H / GPM)

Max. Flow 5400 / 23775

High quality 2700 / 11888

Medium quality 2160 / 9510

Low quality 1620 / 7133

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 1,11 / 1,49

Electric motor consumption (A) 4,2

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 1900 / 74,80 E - J -

B 2000 / 78,74 F - L -

C 3820 / 150,39 G -

D - 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 Foundry with epoxy coating

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp -

No. lamps -

UV-C lamp power -

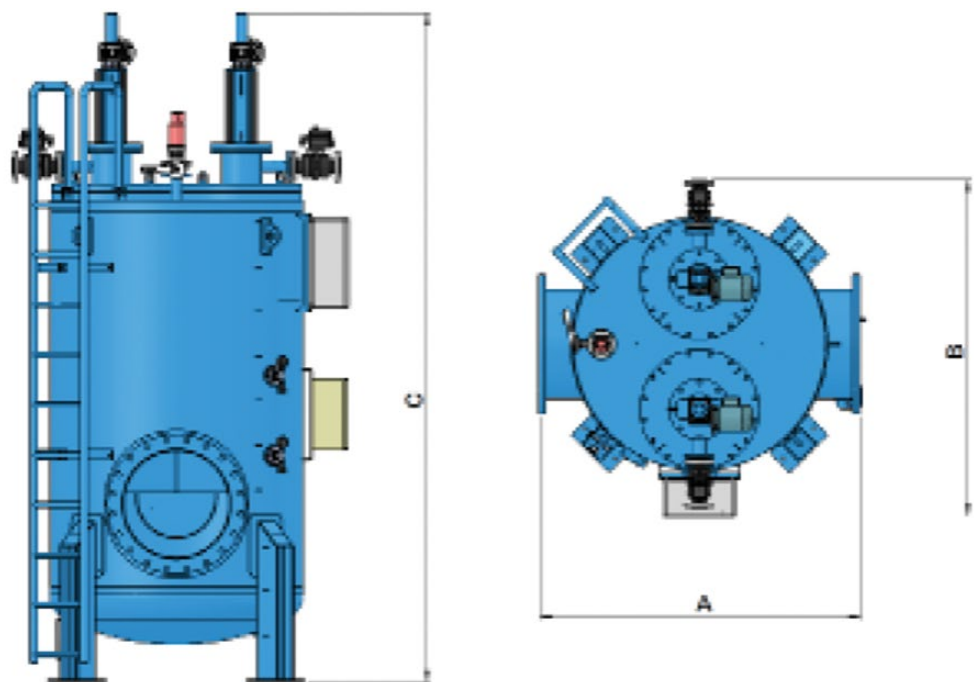
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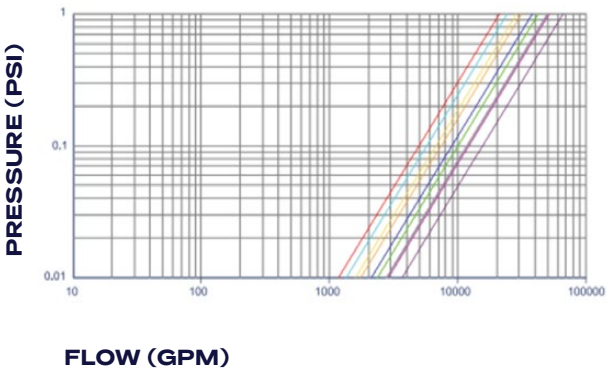
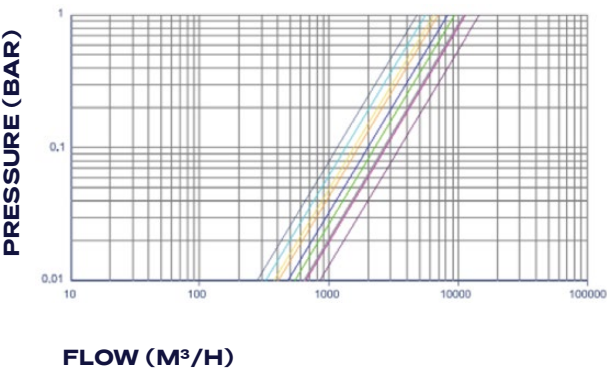
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HEAD LOSS



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OPERATIONAL REQUIREMENTS

PRODUCT CODE

10410

CONNECTIONS

Inlet/Outlet (BPSM) DN-600 (24")

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 3500 / 7716

FILTRATION

Filtering surface (cm²/ft²) 52840 / 56,88

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 4

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 100/440

Backwashing water consumption (l / gal) 700 / 185

FLOW (M³/H / GPM)

Max. Flow 4600 / 20253

High quality 2320 / 10215

Medium quality 1856 / 8172

Low quality 1392 / 6129

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 1,48 / 1,98

Electric motor consumption (A) 5,6

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 2100 / 82,68 E - J -

B 2240 / 88,19 F - L -

C 3820 / 150,39 G -

D - 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 Foundry with epoxy coating

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp -

No. lamps -

UV-C lamp power -

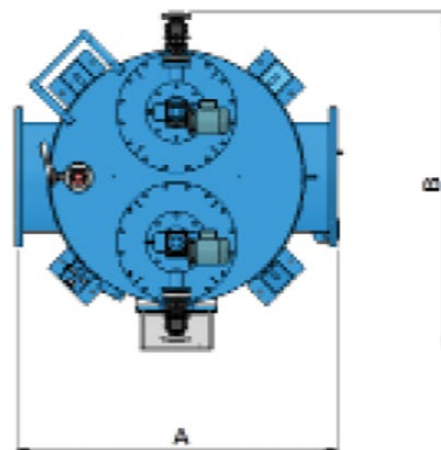
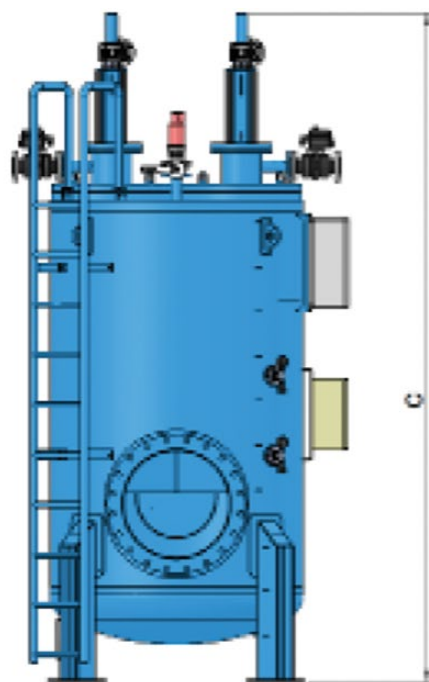
UV (with 55% transmittance) -

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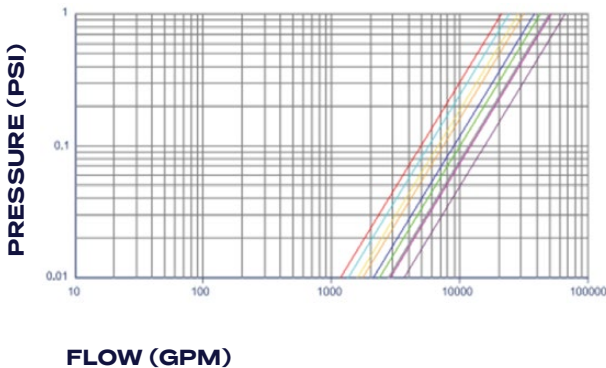
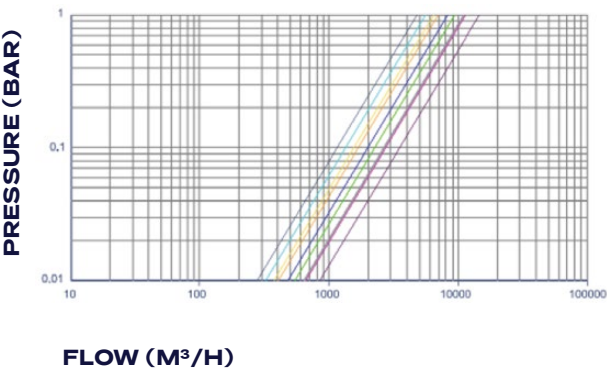
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 FILTRATION

PLANS/DRAWINGS



HEAD LOSS



FMA-10000 Series

FMA SELF-CLEANING ELECTRIC SCREEN FILTER

The SKAN FMA-10000 automatic mesh filters are engineered for high-performance filtration across a wide range of industries. Designed to handle large flow rates, these filters feature an innovative vertical arrangement with multiple cartridges, providing powerful filtration in compact spaces. Ideal for municipal, industrial, and irrigation applications, they offer reliable filtration solutions for various sectors.



FMA-10000 SERIES - 10412

FEATURES

- Designed to efficiently handle large flow volumes, making it ideal for high-demand municipal, industrial, and irrigation systems.
- The internal vertical arrangement with multiple cartridges maximizes filtration capacity while minimizing the space required for installation.
- Equipped with an electrical actuation system for consistent and effective filtration in applications where energy is available.
- Suitable for use in drinking water facilities, desalination plants, food production, co-generation plants, chemical industries, and cooling towers.
- Acts as a physical barrier against zebra mussels, ensuring the longevity and performance of critical water systems.
- Provides efficient filtration for field irrigation and golf courses, safeguarding water quality and equipment.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

10412

CONNECTIONS

Inlet/Outlet (BPSM) DN-600 (24")

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 4000 / 8819

FILTRATION

Filtering surface (cm²/ft²) 66000 / 71,04

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 4

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 80/ 352

Backwashing water consumption (l / gal) 560 / 148

FLOW (M³/H / GPM)

Max. Flow 5600 / 24656

High quality 2800 / 12328

Medium quality 2240 / 9862

Low quality 1680 / 7397

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 1,48 / 1,98

Electric motor consumption (A) 5,6

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 2100 / 82,68 E - J -

B 2240 / 88,19 F - L -

C 3820 / 150,39 G -

D - 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 Foundry with epoxy coating

Bolts & nuts 5.6 & 5.8 Bichromated

Seals NBR - EPDM - Viton

UV DATA

Ultraviolet lamp -

No. lamps -

UV-C lamp power -

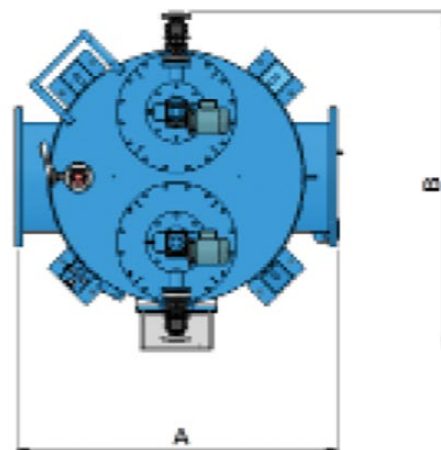
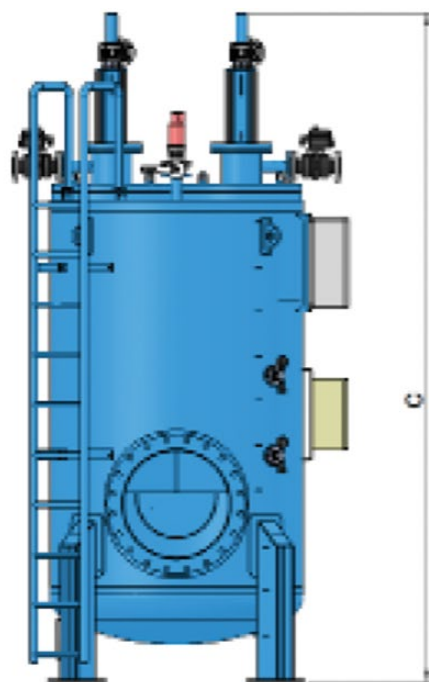
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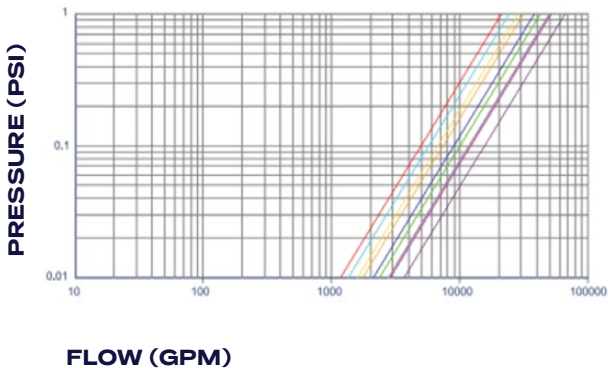
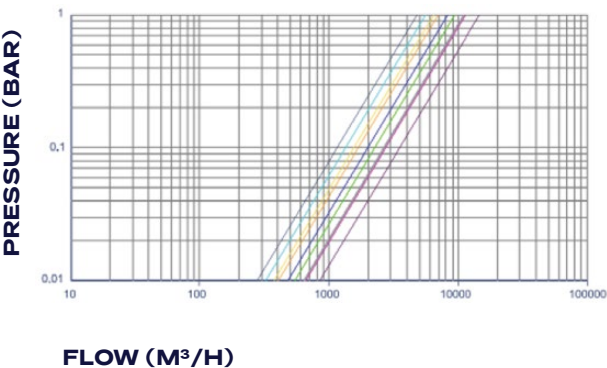
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 FILTRATION

PLANS/DRAWINGS



HEAD LOSS



FMA-10000 Series

FMA SELF-CLEANING ELECTRIC SCREEN FILTER

The SKAN FMA-10000 automatic mesh filters are engineered for high-performance filtration across a wide range of industries. Designed to handle large flow rates, these filters feature an innovative vertical arrangement with multiple cartridges, providing powerful filtration in compact spaces. Ideal for municipal, industrial, and irrigation applications, they offer reliable filtration solutions for various sectors.



FMA-10000 SERIES - 10414

FEATURES

- Designed to efficiently handle large flow volumes, making it ideal for high-demand municipal, industrial, and irrigation systems.
- The internal vertical arrangement with multiple cartridges maximizes filtration capacity while minimizing the space required for installation.
- Equipped with an electrical actuation system for consistent and effective filtration in applications where energy is available.
- Suitable for use in drinking water facilities, desalination plants, food production, co-generation plants, chemical industries, and cooling towers.
- Acts as a physical barrier against zebra mussels, ensuring the longevity and performance of critical water systems.
- Provides efficient filtration for field irrigation and golf courses, safeguarding water quality and equipment.

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OPERATIONAL REQUIREMENTS

PRODUCT CODE

10414

CONNECTIONS

Inlet/Outlet (BPSM) DN-600 (24")

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 4150 / 9149

FILTRATION

Filtering surface (cm²/ft²) 85200 / 91,71

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

BACKWASHING

Backwashing valve Flange-DN-50 (2")

No. Valves 4

Backwash cycle time (s) 25

Backwashing flow rate (m³/h / gpm) (*) 100/440

Backwashing water consumption (l / gal) 700 / 185

FLOW (M³/H / GPM)

Max. Flow 7200 / 31700

High quality 3600 / 15850

Medium quality 2880 / 12680

Low quality 2160 / 9510

ELECTRICAL

Rated operation voltage 220 V AC 50 Hz mono-phase-(Optional-Option 400 V AC Three-phase)

Control voltage 24 V DC

Electric Motor Power (kW/HP) 1,48 / 1,98

Electric motor consumption (A) 5,6

Power Supply (kW) -

DIMENSIONS (MM / INCHES)

A 2100 / 82,68 E - J -

B 2240 / 88,19 F - L -

C 3820 / 150,39 G -

D - 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

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Bolts & nuts 5.6 & 5.8 Bichromated

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UV DATA

Ultraviolet lamp -

No. lamps -

UV-C lamp power -

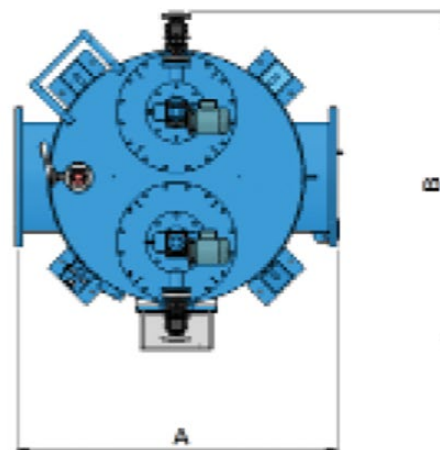
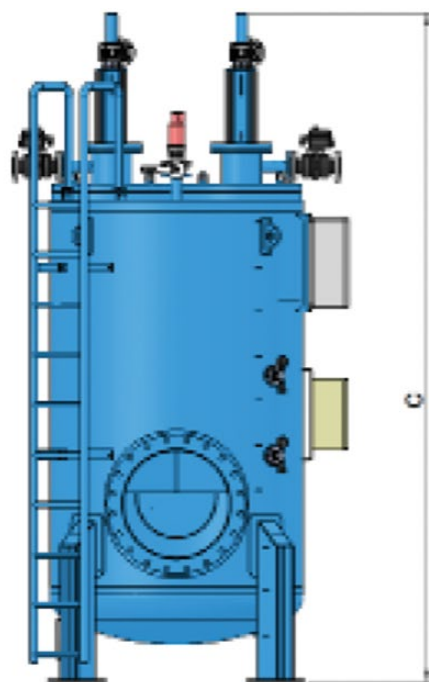
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