HydroSOLV® Industrial Media Filter (EVS)

General

Hydrotec media filter used to remove sediment, turbidity, iron particles, unpleasant tastes, odours, suspended particles and unwanted chlorine from water.

63“ EVS

fig.1 - HydroSOLV® 63” EVS

Standard features

- Motor-driven butterfly valves (size 2” or 3”) for the different operating cycles
- PLC Siemens LOGO8! with user-friendly HMI 7.0" TFT display 800*480 and Modbus TCP/IP interface.

  Inputs: Low level raw water tank
  high level filtrate tank
  differential pressure
  external start backwash / rinse

  Outputs (volt.-free): alarm
  power alarm
  unit in backwash / rinse.
- FRP tank with PE Inliner (max. 10 bar)
- ABS/PVC internal piping and distributor
- Ventilation (automatic air vent valve) and drain points
- Skid of anodized aluminium profiles with PVC piping
- Inlet / outlet pressure gauges
- Inlet / outlet sample valves

Operation Specifications

- Operation pressure: 2 - 10 bar
- 230V / 1ph/ 50-60Hz power requirement
- Power consumption
  - Simplex: 100 W
  - Duplex: 200 W
  - Triplex: 300 W
  - Quadplex: 400 W
- Operating temperature: 2 - 40 °C

Available Options

- Differential pressure initiation for backwash
- Pulse water meter for treated water.
- Media filter for higher flow rate on request

HydroSOLV® MS

Multi Layer Filtration - Anthracite and Sand/Gravel

Filter performance 25 micron: 95%*

Type	Filter flow rate max. (l/sec*)	Backwash flow rate min. (l/sec*)	Connection IN / OUT	Connection Drain	Shipping weight ~ (kg)	Operation weight ~ (kg)
30”	3.97	5.29	DN 50	DN 50	905	1186
36”	5.67	7.56	DN 50	DN 50	1237	1636
42”	7.75	10.33	DN 65	DN 65	1845	2442
48”	9.94	13.25	DN 65	DN 65	2286	3044
63”	17.47	23.25	DN 80	DN 80	2952	3933

* each vessel

* Under lab conditions

Anthracite N (Top Layer)

Anthracite N is as a filter media for removing light weight turbidity.

Sand/Gravel (Support and Filter Media)

Graded sand / gravel is used as filtration media or support media.

tab.1 - HydroSOLV® MS

HydroSOLV® AFM

High efficient activated glass filter media

Filter performance 5 micron: 95%*

Type	Filter flow rate max. (l/sec*)	Backwash flow rate min. (l/sec*)	Connection IN / OUT	Connection Drain	Shipping weight ~ (kg)	Operation weight ~ (kg)
30”	3.97	5.29	DN 50	DN 50	762	1043
36”	5.67	7.56	DN 50	DN 50	1034	1434
42”	7.75	10.33	DN 65	DN 65	1541	2139
48”	9.94	13.25	DN 65	DN 65	1901	2659
63”	17.47	23.25	DN 80	DN 80	2454	3435

* each vessel

* Under lab conditions

Anthracite N (Top Layer)

Anthracite N is as a filter media for removing light weight turbidity.

Activated glass filter media

Activated glass filter media is manufactured from a specific glass type and processed to obtain the optimum particle size and shape.

The high surface area is negatively charged (zeta potential) to adsorb organics and small particles. It is more efficient and cost-effective than any other filtration media.

Bio-resistant, will not support bacterial growth -> no biofilm formation on AFM® surface.

tab.2 - HydroSOLV® AFM

HydroSOLV® AC
Activated Carbon Filter

Type	Filter flow rate max. (l/sec*)	Backwash flow rate min. (l/sec*)	Connection IN / OUT	Connection Drain	Shipping weight ~ (kg)	Operation weight ~ (kg)
30”	2.64	3.31	DN 50	DN 50	552	834
36”	3.78	4.72	DN 50	DN 50	738	1137
42”	5.17	6.47	DN 65	DN 65	1097	1694
48”	6.64	8.28	DN 65	DN 65	1337	2095
63”	9.44	14.56	DN 80	DN 80	1726	2706
63”-High	11.61	14.56	DN 80	DN 80	2224	3547

* each vessel

* Under lab conditions

Activated Carbon

Activated Carbon media is used to remove taste, odour and chlorine and used in many drinking water applications.

Sand/Gravel (Support and Filter Media)

Graded sand / gravel is used as filtration media or support media.

tab.3 - HydroSOLV® AC

HydroSOLV® AC Plus
Activated Carbon Filter **+ Bio-resistant support media**

Type	Filter flow rate max. (l/sec*)	Backwash flow rate min. (l/sec*)	Connection IN / OUT	Connection Drain	Shipping weight ~ (kg)	Operation weight ~ (kg)
30”	2.64	3.31	DN 50	DN 50	518	799
36”	3.78	4.72	DN 50	DN 50	689	1088
42”	5.17	6.47	DN 65	DN 65	1024	1622
48”	6.64	8.28	DN 65	DN 65	1245	2003
63”	9.44	14.56	DN 80	DN 80	1606	2586
63”-High	11.61	14.56	DN 80	DN 80	2063	3385

* each vessel

* Under lab conditions

Activated Carbon

Activated Carbon media is used to remove taste, odour and chlorine and used in many drinking water applications.

Activated Glass filter media

Activated glass filter media is manufactured from a specific glass type and processed to obtain the optimum particle size and shape.

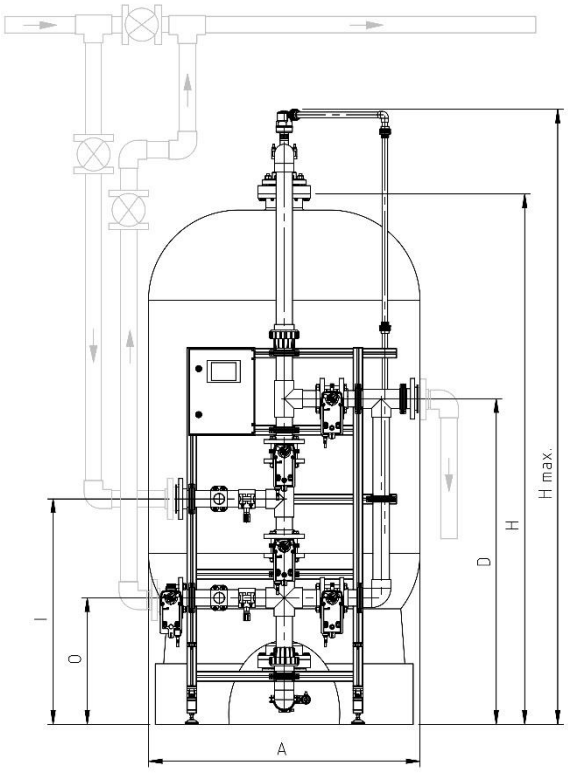
The high surface area is negatively charged (zeta potential) to adsorb organics and small particles. It is more efficient and cost-effective than any other filtration media.

Bio-resistant, will not support bacterial growth -> no biofilm Formation on AFM® surface

tab.4 - HydroSOLV® AC Plus

Technical drawing

EVS-Simplex



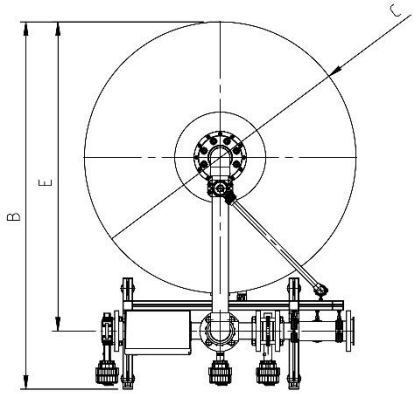


fig.2 - technical drawing EVS (simplex)

Type	Height inlet [I]	Height outlet [O]	Height Drain [D]	Height tank [H1]	Height max. [H]	Width [A]	Depth [B]	Diameter tank [C]	Back to inlet/outlet [E]
30”	1020	600	1350	2214	2697	920	1216	779	983
36”	1020	600	1350	2213	2696	1060	1372	931	1139
42”	1050	600	1450	2396	2872	1240	1607	1089	1360
48”	1075	575	1480	2411	2796	1233	1670	1233	1405
63”	1000	530	1450	2059	2595	1700	2126	1633	1866
63”-High	1000	530	1450	2490	3026	1700	2126	1633	1866

tab.5 - dimensions EVS (simplex)

Technical drawing

EVS-Duplex

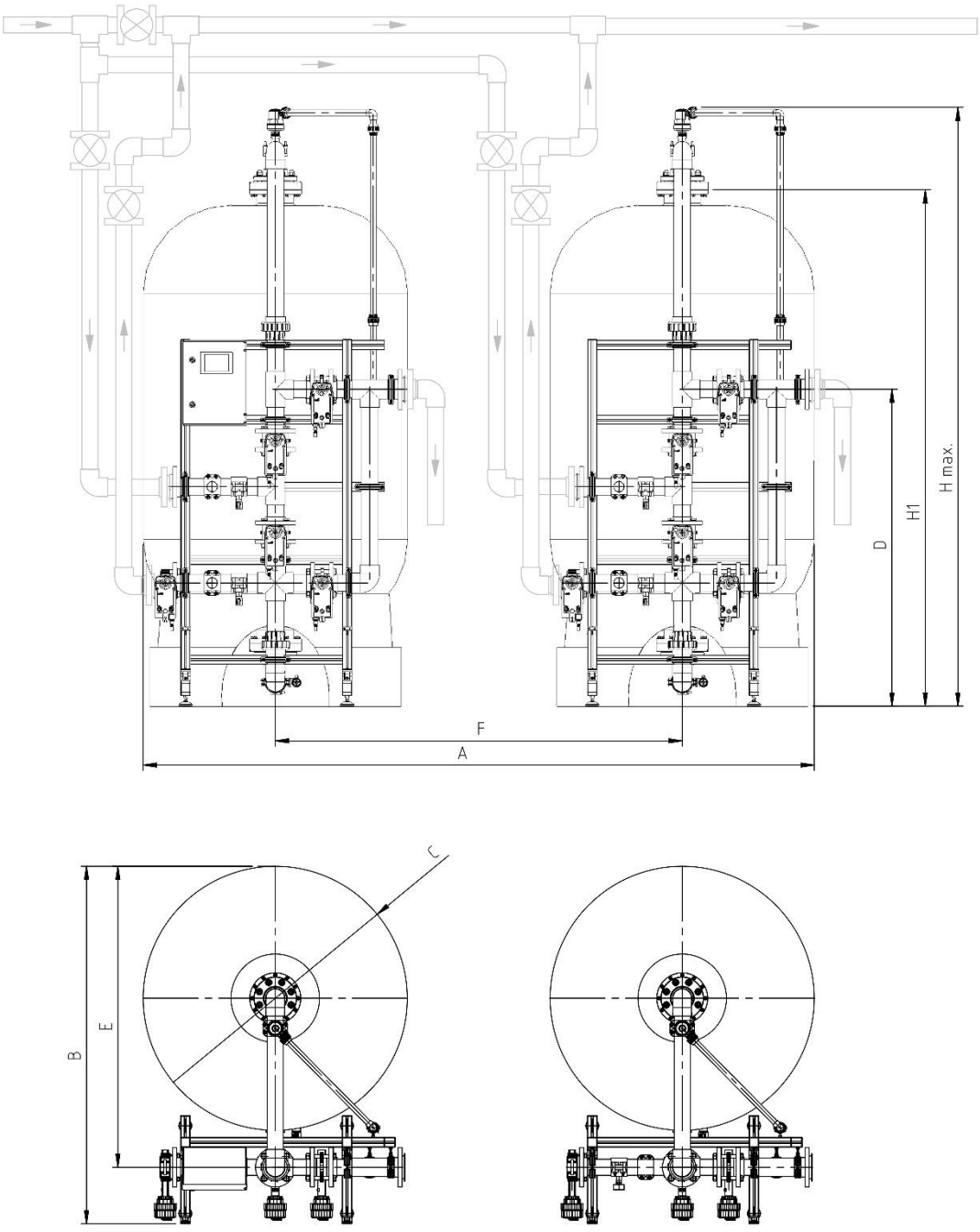


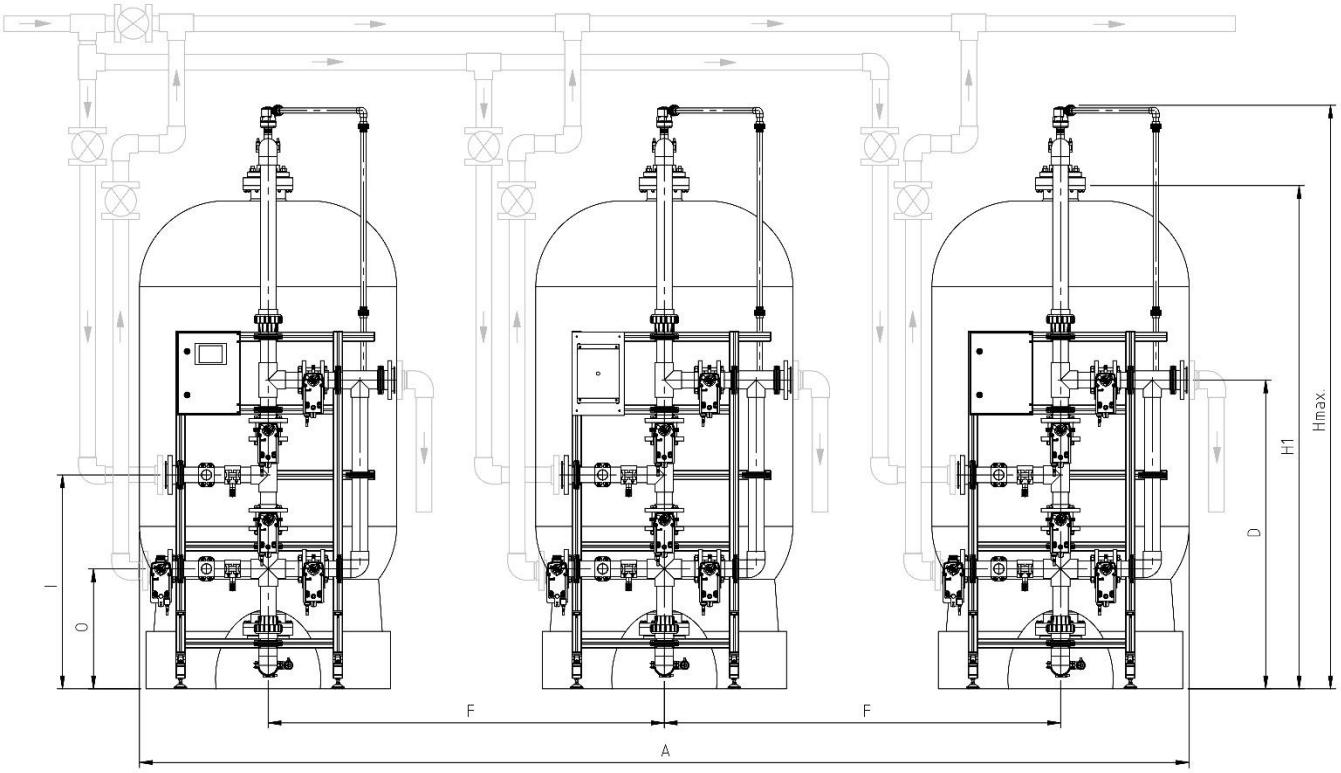
fig.3 - technical drawing EVS (duplex)

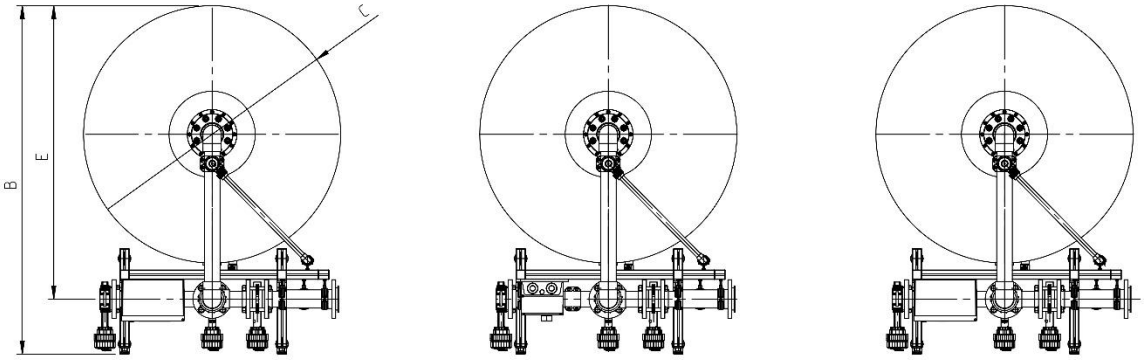
Type	Height inlet [I]	Height outlet [O]	Height Drain [D]	Height tank [H1]	Height max. [H]	Width [A]	Depth [B]	Diameter tank [C]	Back to inlet/outlet [E]	Space between tanks [F]
30”	1020	600	1350	2214	2697	2420	1216	779	983	1500
36”	1020	600	1350	2213	2696	2700	1372	931	1139	1640
42”	1050	600	1450	2396	2872	3060	1607	1089	1360	1820
48”	1075	575	1480	2411	2796	3133	1670	1233	1405	1900
63”	1000	530	1450	2059	2595	3980	2126	1633	1866	2280
63”-High	1000	530	1450	2490	3026	3980	2126	1633	1866	2280

tab.6 - dimensions EVS (duplex)

Technical drawing

EVS-Triplex





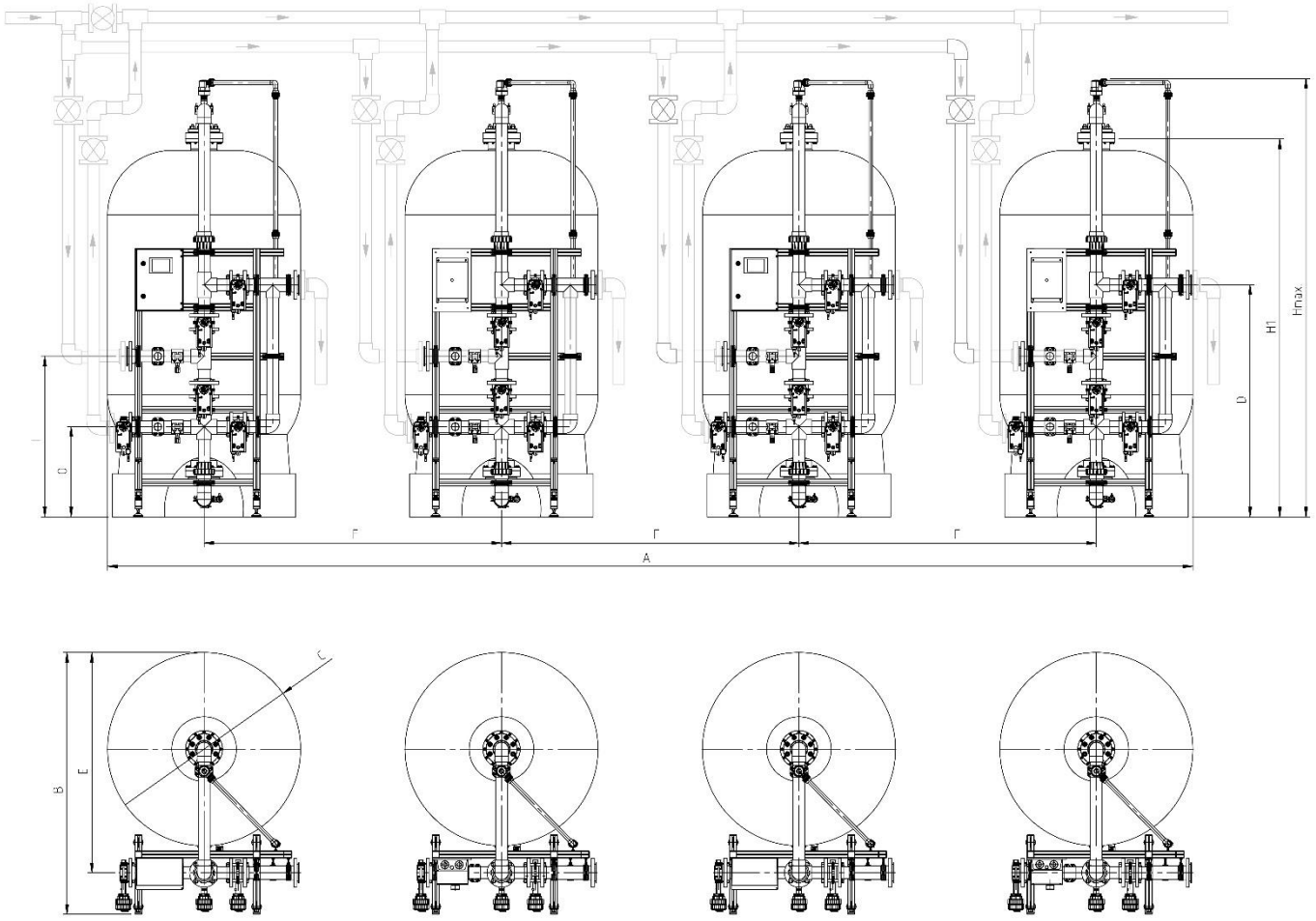
tab.7 - dimensions EVS (triplex)

Type	Height inlet [I]	Height outlet [O]	Height Drain [D]	Height tank [H1]	Height max. [H]	Width [A]	Depth [B]	Diameter tank [C]	Back to inlet/outlet [E]	Space between tanks [F]
30”	1020	600	1350	2214	2697	3920	1216	779	983	1500
36”	1020	600	1350	2213	2696	4340	1372	931	1139	1640
42”	1050	600	1450	2396	2872	4880	1607	1089	1360	1820
48”	1075	575	1480	2411	2796	5033	1670	1233	1405	1900
63”	1000	530	1450	2059	2595	6260	2126	1633	1866	2280
63”-High	1000	530	1450	2490	3026	6260	2126	1633	1866	2280

fig.7 - technical drawing EVS (triplex)

Technical drawing

EVS-Quadplex



tab.8 - dimensions EVS (quadplex)

Type	Height inlet [I]	Height outlet [O]	Height Drain [D]	Height tank [H1]	Height max. [H]	Width [A]	Depth [B]	Diameter tank [C]	Back to inlet/outlet [E]	Space between tanks [F]
30”	1020	600	1350	2214	2697	5420	1216	779	983	1500
36”	1020	600	1350	2213	2696	5980	1372	931	1139	1640
42”	1050	600	1450	2396	2872	6700	1607	1089	1360	1820
48”	1075	575	1480	2411	2796	6933	1670	1233	1405	1900
63”	1000	530	1450	2059	2595	8540	2126	1633	1866	2280
63”-High	1000	530	1450	2490	3026	8540	2126	1633	1866	2280

fig.8 - technical drawing EVS (quadplex)