



ECOPERLA

ECOPERLA SANITOWER IRON AND MANGANESE REMOVAL

DESCRIPTION

The Ecoperla Sanitower iron and manganese removal filter is used for removal of high concentrations of iron and manganese from drinking water in households. Before the filtration process water must be aerated. After initial aeration water flows into a bottle filled with the specially selected iron and manganese removal medium. The natural filtration medium consists of gravel, dolomite and manganese ore in appropriate proportions. The mixture allows for total elimination of the problem present in water.

CHARACTERISTICS

- Fully automatic, electronic control of the rinsing process in the water treatment system using the high-quality Clack control head valve
- Simple hydraulic connection
- Considerable improvement of water parameters
- Filter rinsing without the use of chemical reagents
- Due to the sedimentation nature of the filtration process, the mixture of Ironite and Defeman media is recommended for highly contaminated waters with high turbidity and unpleasant colour



TECHNICAL SPECIFICATIONS

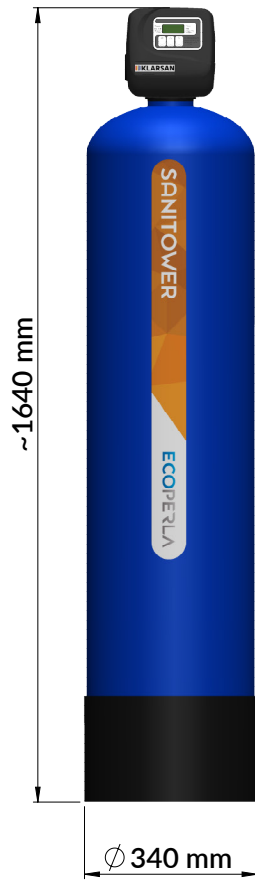
	S	M	L	XL
Control valve	Clack TC	Clack TC	Clack TC	Clack TC
Connection	1"	1"	1"	1"
Medium amount [L]	55	75	90	120
Nominal flow rate [m3/h]	0,9	1,0	1,2	1,6
Maximum flow rate [m3/h]	1,3	1,5	1,8	2,3
Required water flow during the rinsing process with the pressure of 3 bar [m3/h]	2,2	2,6	3,0	3,9
Operating pressure [bar]	3,0-6,0	3,0-6,0	3,0-6,0	3,0-6,0
Water consumption per rinsing [L]	310	360	420	550
Cylinder dimensions [inch]	12 x 48	13 x 54	14 x 65	16 x 65
Column width [mm]	320	340	380	420
Column height [mm]	1530	1640	1920	1940
Column depth [mm]	320	340	380	420
Electrical connection [V/Hz]	230/50	230/50	230/50	230/50

DIMENSIONS

S



M



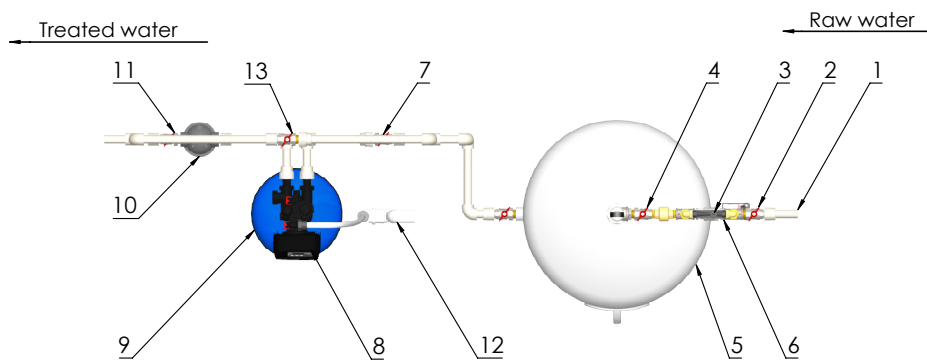
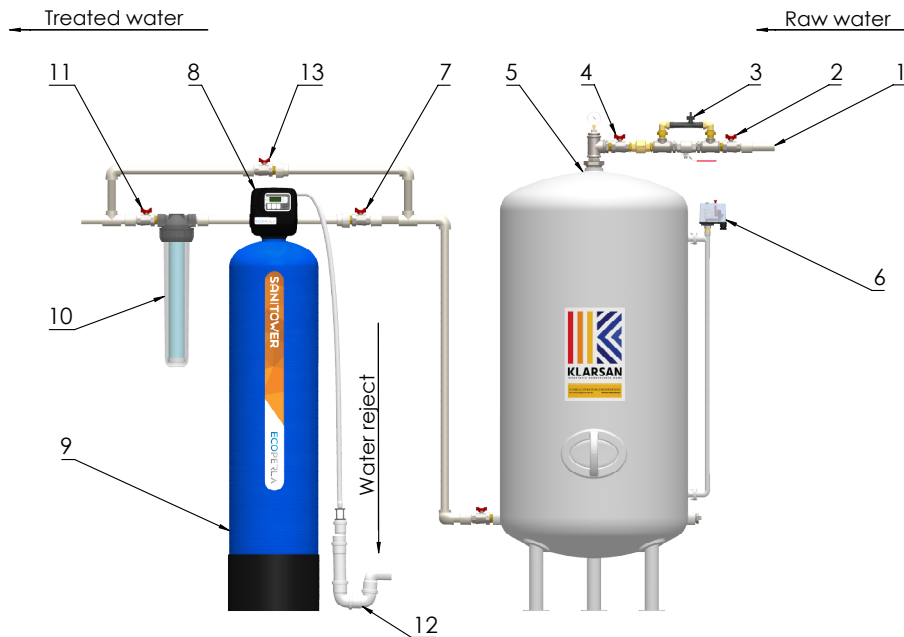
L



XL



ECOPERLA SANITOWER CONNECTION DIAGRAM



1.	Water inlet from the pump	8.	Control valve
2.	Shut-off valve	9.	Ecoperla Sanitower
3.	Aerator	10.	Mechanical water filter
4.	Shut-off valve	11.	Outlet valve from Ecoperla Sanitower
5.	Non-membrane hydrophore tank	12.	Drain to the sewage system
6.	Pressure switch	13.	Bypass valve
7.	Inlet valve to Ecoperla Sanitower		

NOTES

- Water aeration is necessary.
- Mechanical water filter should be used behind the system.
- The intensive rinsing process of the filtering medium requires increased capacity provided by the pump (data in the table) while maintaining normal operating pressure.
- It is also possible to connect the hydrophore from the side. This solution is used for small exceedances of iron and manganese in water that does not require very intensive aeration.