

Water Treatment System

Water Treatment System for mineral or drinking Water

Widder Industrial group's water treatment system is the result of practical experiences and non-stop R&D of widder technical engineers.

The water treatment normally starts from passing of row water through the Sand filter and Active Charcoal filter tanks then water should pass the disc filter and then enters the pre-treatment reservoir tank using about 3 bar primary pressure.

The water will be sucked into the UV chamber by booster pump system then inserted into the micro filtering system after adding the ozone gas which is the last season of Widder's water treatment system.

The 10- 25 m³/h water treatment systems are available.

How to work and Advantages

- Pressured Raw water passes the sand filter by Getting sprinkled from shower on top of Layers of grained sand For separation of suspended particles in the water.

- After passing from sand filter, the water inter the active charcoal filter by Getting sprinkled from shower on top of charcoal then Color and smell of the water have been absorbed by passing it.

- Then the water should pass the disc filter to be stored in pre-treatment water tank.

- The water is sucked into the UV. Rows, from pre-treatment tank which microbes and their spores will be destroyed by UV Lite when passing this device.

- The Ozone generator which is mounted nearby the water treatment system injects O₃ into the water when pumping it to the micro filters also destroying microbes and preventing their spore growth in the bottles.

- In the last step, the 3 units of different Micro filters will separate the Micron particles form water.

- Treated water should be directly transferred to the filling machine by stainless steel pipe without any storing.

- The pre-treatment system filters are fascinated with flashing system which help clean up the sand and charcoal filters.

- Cleaning the disc filter is easy either and disassembling and assembling of it takes a few minutes.

- The micro filter elements should be replaced time to time as per row water situation.



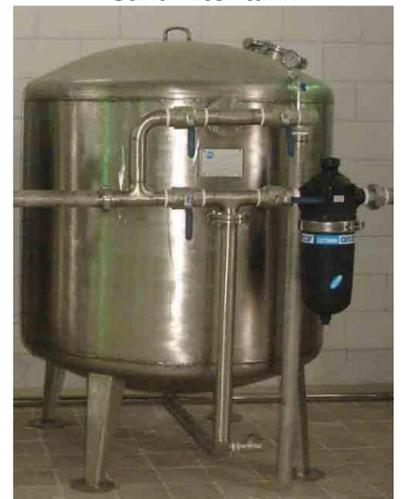
Stainless steel filters tanks of sand and active charcoal and also polycarbonate disc filter with related piping system



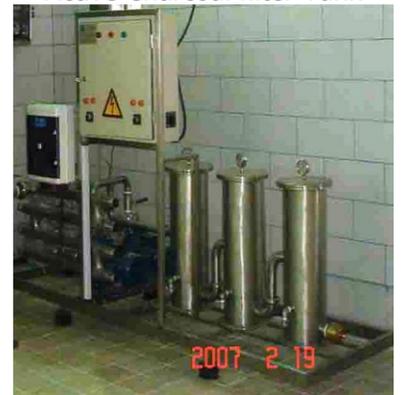
Stainless steel pre-treatment tank and UV pipe rows, buster pump and Micro filter cylinders



Sand filter tank



Active Charcoal filter Tank



Stainless Steel chase which mounted UV+ Buster pump+ Micro filters & Control box



Micro filter cylinders

Technical Descriptions of Widder's Water Treatment system

Description	20 m2	10 m2
Nominal Output	20 m2/h	10 m2/h
Power of Three-phase electric engine	2.2 KW	1.5 KW
Electric engines Brand	European	European
Pumps Brand	European	European
Interface	Analog	Analog
Controller	Analog	Analog
Power supply	Switching	Switching
Main voltage	380 V AC. 50 Hz.	380 V AC. 50 Hz.
Power consumption	15 A	10 A
Infrared system	UV cartridge x 8	UV cartridge x 4
System material	Stainless steel 316	Stainless steel 316
System dimensions LxWxH	550x350x310Cm	500x300x210Cm
Ozone generator	Local brand	Local brand
Input water pressure	3 bar	3 bar
Volume of pre-treatment reservoir	10 m2	5 m2
Filters	Sand-Active charcoal-Disk filter & Micro filters	Sand-Active charcoal-Disk filter & Micro filters