

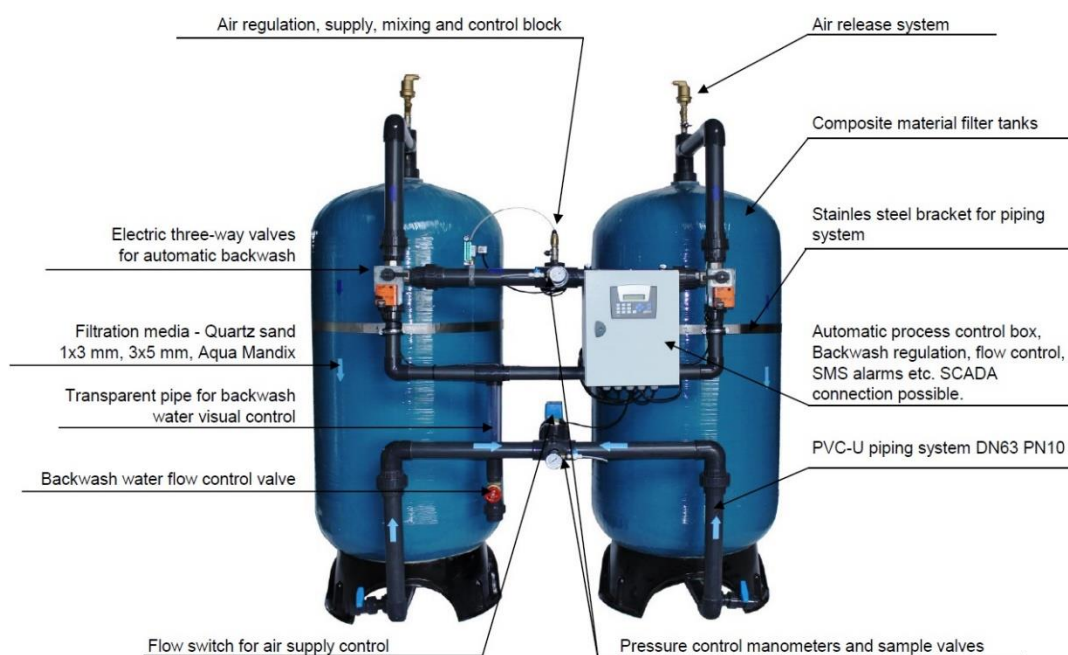
## EQUIPMENT WATEX FA-500-1000x2 TECHNICAL DATA

| Technical parameters of equipment        | Unit              | Model                                      |            |            |            |            |
|--|-------------------|--|------------|------------|------------|------------|
|  |                   | FA 500x2                                   | FA 600x2   | FA 800x2   | FA 900x2   | FA 1000x2  |
| Flow rate * Q <sub>nom</sub>             | m <sup>3</sup> /h | 3.5  | 4.7        | 7.3        | 10.5       | 14.3       |
| Flow rate ** Q <sub>max</sub>            | m <sup>3</sup> /h | 5.4  | 7.0        | 10.9       | 15.8       | 21.4       |
| The amount of water for regeneration *** | m <sup>3</sup>    | 0.74                                       | 0.97       | 1.52       | 2.19       | 2.98       |
| Minimum flow rate for rinsing            | m <sup>3</sup> /h | 5.6  | 7.3        | 11.4       | 16.4       | 22.3       |
| Container size (diameter)                | inches            | 21   | 24         | 30         | 36         | 40         |
|  | m                 | 0.53                                       | 0.61       | 0.76       | 0.91       | 1.02       |
| Container volume                         | liters            | 316  | 415        | 640        | 850        | 1100       |
| The amount of filtering material         | liters            | 200  | 281        | 416        | 562        | 720        |
| Dimensions                               |                   |  |            |            |            |            |
| Length                                   | m                 | 1.36                                       | 1.56       | 1.96       | 2.16       | 2.36       |
| Width                                    | m                 | 0.84                                       | 0.94       | 1.14       | 1.24       | 1.34       |
| Connection. In/out/drain.                |                   | D40 / DN32                                 | D50 / DN40 | D63 / DN50 | D63 / DN50 | D75 / DN65 |
| Height                                   | m                 | 2.40                                       |            |            |            |            |
| Treatment possibility                    |                   | Iron, manganese, turbidity, odor, color    |            |            |            |            |
| Container material                       |                   | FRP (fiberglass)                           |            |            |            |            |
| Filtering material                       |                   | Aqua Mandix, quartz sand 0.7x1.2mm, 3x5 mm |            |            |            |            |
| Filter piping                            |                   | PVC  |            |            |            |            |
| Valve type and drive                     |                   | Three-way ball valves BELIMO               |            |            |            |            |
| Operating pressure                       | bar               | 2-6  |            |            |            |            |
| Electric Connection                      |                   | 220V, 50Hz, 1 phase                        |            |            |            |            |
| Electricity consumption                  | W                 | 3 W  |            |            |            |            |

\* Filtration speed 8 m/h

\*\* Filtration speed 12 m/h

\*\*\* Backwash 8 min



## IRON REMOVAL FILTER WATEX FA DESCRIPTION

### APPLICATION

WATEX FA series filters are designed to purify water from turbidity, colorfulness, iron, manganese and odor for villages, cities and industrial enterprises. Mainly it is used for groundwater purification and for centralized water supply systems.

### OPERATING PRINCIPLE

FA filter operating principle is based on aeration and filtration. When water is aerated, iron, manganese and mechanical impurities form sediments, which can be filtered. Suspended solids are filtered through filtering media, which has been poured in to filter. Filters depending on pollution levels and water consumption have to be rinsed regularly. Filters after rinsing are regenerated and can purify water. Equipment consists from filter and compressor. The equipment is fully assembled in the factory and only has to be connected to water, sewage water system, electricity and it will be operational.

### ASSEMBLY CONNECTIONS

The system is equipped with two electric three way valves, which make the system simple and inexpensive in operation. Piping system is made from PVC pipes and fittings (Also available stainless-steel assembly connections). Filters can be rinsed in automatic mode as well as manual mode.

### PRESSURE TANK

Pressure filter tanks are made from fiberglass with inner PE coating that can hold pressure up to PN10.

### FILTER MATERIAL

For water purification filtering material Aqua Mandix and quartz sand with different grain size (0.7-1.2 mm and 3-5mm) is being used. Porous structure of Aqua Mandix provides a large active surface and provides efficient adsorption and accumulation of sediment. Aqua Mandix compared to other filtration materials is lightweight and consumes less rinse water.

### CONTROL UNIT

Filters are equipped with automatic control unit with LCD display, which can be used to change filter parameters like date, time, protection from access by unauthorized persons. The system is compatible with SCADA and GSM notification system, filter rinsing after volume of water consumed, the filtering material loosening blower or compressor can be added.

### AIR SUPPLY

For water aeration oil-free air compressor has to be installed. The system can be equipped with any manufacturers of oil-free compressor. The system has built-in air control unit. Air control system has built-in flow switch, which gives a signal to electromagnetic valve to open when water is flowing. Air is injected to water before the filters.

### SYSTEM MAINTENANCE

Filters will provide with good quality water if operating personnel will ensure proper air supply, and unnecessary air removal and regular rinsing processes. Water purification system does not require specific chemical admixtures that have to be refilled.