The OPAFLO Fe is a compact unit for iron removal, containing one oxidation tower (OPATOUR™) and two filters OPAFLO™ for suspended solids removal.

Flow rates:
from 25 to 100 m³/h per unit

Features & Benefits
• Modular; compatible with other Veolia standard units
• French ACS certification
• Housed in a rain-proof metallic shell

OPAFLO™ Fe
• Oxidation realized by online compressed air injection
• Pozzolan as media to ensure a good performance of oxidation
• Filtration with sand, or sand and anthracite, after the oxidation to retain the oxidized iron (as a precipitate Fe³⁺) and the turbidity of raw water

OPAFLO™ Fe Bio
• Catalysis of iron oxidation by autotrophic bacteria
• Bacteria selected among the most efficient
• Reproducing phenomenon of a catalytic nature
• Combination of oxidation and filtration stages in one unit (even if the pH is below 7)

Applications
• Iron removal in drinking water through two different methods
• Chemically: with oxidizing agents such as ozone, potassium permanganate or by simple aeration (OPAFLO™ Fe)
• Biologically: through iron bacteria (OPAFLO™ Fe Bio)

Related Services
• Local after-sales service for preventative and corrective maintenance program
• Tailor-made design according to project
System Dimensions & Performances

<table>
<thead>
<tr>
<th>Filter Model</th>
<th>Total Flowrate (m³/h)</th>
<th>Number of Filters</th>
<th>Flow per Filter (m³/h)</th>
<th>Filter Diameter (mm)</th>
<th>Filter Shell Height (mm)¹</th>
<th>Filtration Speed (m/h)</th>
<th>Contact Time (min)</th>
<th>Total Empty Weight (kg)²</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPAFLO 1215</td>
<td>20</td>
<td>2</td>
<td>10</td>
<td>1200</td>
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<td>17420</td>
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</table>

¹Indicative shell height given for a 1000mm media height
²Estimated weight for information only

Note: For the OPAFLO Fe, the design of oxidation tower is custom-made.

Efficient Filtration process

- Lined steel filter, French ACS certification or stainless steel lining
- 304L Stainless steel manifold
- Electrical or pneumatic valves
- Differential pressure control
- Operating pressure from 0 to 16 bars
- Equipment size and weight depending each design size
- Several levels of automation available

Options

- Pneumatic valves with air compressor instead of electric valves
- Remote process control; PLC
- Inlet flow regulation valve
- Backwash skid with pump and air blower
- Turbidity control
- Thermal insulation
- Disinfection system
- Pipe work in 316 L stainless steel

For higher flow rates or other processes, consult your local Veolia Water Technologies representative.

Visit our website: www.veoliawatertechnologies.com