

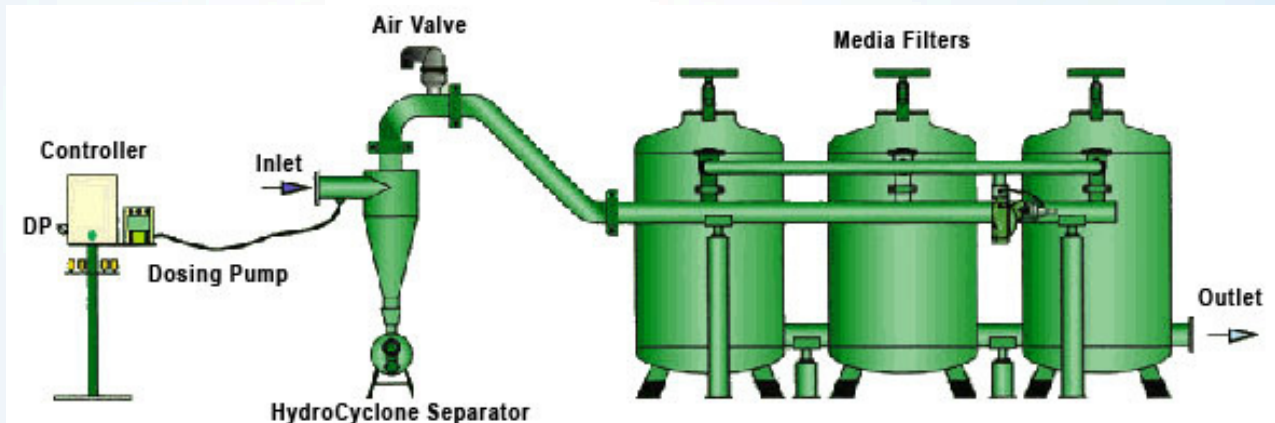


COEQUAL SERVICES



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Iron Removal Systems



Iron Removal Systems Diagram

Iron removal systems are designed to eliminate dissolved and particulate iron from water, typically using oxidation, precipitation, and filtration techniques. These systems are crucial for improving water quality, preventing staining, and reducing the negative impacts of iron on plumbing and appliances.

Importance:

- Metallic taste and unpleasant odour
- Rust stains on fixtures and laundry
- Damage to pipes, appliances, and water heaters

Processes:

1. Oxidation

- Converts soluble ferrous iron (Fe^{2+}) into insoluble ferric iron (Fe^{3+}) using:
- Aeration
- Oxidizing agents (e.g., chlorine, ozone, potassium permanganate)

2. Precipitation

- Ferric iron forms solid particles that settle out of water.

3. Filtration

- Removes iron particles using:
- Sand filters
- Activated carbon filters
- Iron-specific media (e.g.: Brim)

Media:

- Catalytic media that enhances iron oxidation
- Requires no chemicals if sufficient dissolved oxygen is present
- Long-lasting and low-maintenance

System Components & Features:

- Aeration Chambers
- Oxidizing Agents
- Filtration Vessels
- Backwashing Mechanism
- Regeneration Options

Benefits:

- Aeration Chambers
- Oxidizing Agents
- Filtration Vessels
- Backwashing Mechanism
- Regeneration Options



Iron Removal Systems

Turnkey Projects:

- Packaged Drinking Water Plant (PDWP)
- Carbonated Soft Drink Plant (CSD)
- Goli Soda Plant
- Sewage Treatment Plant
- Effluent Treatment Plant (ZLD)
- Flavoured Water Plant



THANK YOU



COEQUAL SERVICES

Our Valuable Clients



TATA (WWTP / STP)



Aachi Packaged Drinking Water (Chennai)



Bisleri (Avadi)



CHEVROLET

Chevrolet (ETP) (Avadi)



CRCL (STP)



Kalasalingam University (STP)



Vels Collage Of Medical (STP)



IRCTC Drinking Water Plant



Parry's Drinking Water Plant (Chennai)

INDIA SHOES PVT LTD

India Shoes Pvt Ltd (STP)



Smart Water (Bangalore)

SKR AQUA PACKAGED DRINKING WATER

SKR Aqua Packaged Drinking Water (Chennai)

ZAFLO PACKAGED DRINKING WATER

Zaflo Packaged Drinking Water (Malapuram)

MOTHER'S KITCHEN

Mother Kitchen (STP)

ZENITH KITCHEN

Zenith Kitchen (STP)

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