

for removal of turbidity and suspended particles



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### APPLICATIONS

- ☞ Potable Water
- ☞ Iron Removal
- ☞ Cooling Water Circuits
- ☞ Swimming Pools
- ☞ Chemical Filtration
- ☞ Boiler Plant Condensates
- ☞ Effluent Plant Filtration

### Advantages

- ☞ Low Initial Cost, long term operation and maintenance savings
- ☞ Delivers high clarity treated water, consistently
- ☞ Immune to normal fluctuations and operates at low pressure drops across filter media
- ☞ Does not require highly skilled personnel for operation and maintenance
- ☞ Wide range of capacities

Bisineer has a range of the latest design packaged pressure sand filters. Bisineer pressure sand filters have a proven track record of high performance.

These compact, high efficiency filters have been designed for eliminating turbidity and suspended particles present in feed water, with minimal pressure drop. The filters are highly effective and when properly operated, will produce sparkling, clear water.

### OPERATION

As the water passes downward through the filter bed, suspended matter is trapped and accumulated on the bed. As this foreign matter gradually accumulates loss of head occurs, indicating the need for cleaning the bed by backwashing. This is accomplished by an upward flow of water which expands and loosens the bed, releasing accumulated material to the waste stream. The filter bed is then down rinsed. Thus compacting the bed before returning to normal operation

### CONTROLS

Two types of control valves are offered. Standard control is the valve nest, consisting of five individual valves. For simplified

operation, a singly control valve for filter operation is available. Both types can be supplied with complete automatics.

### FILTER BEDS

Various types of filter beds are available, depending on operating requirements. Standard materials are either sand and gravel or anthracite or both as in case of dual media filters. Treated manganese dioxide as filtering media is used for iron removal.

### ACCESSORIES

**Alum feeder:** When the turbidity of raw water is so finely divided that the filter bed alone does not provide adequate filtration, then an alum feeder is provided. Alum reacts with alkalinity in the water to form a floc or precipitate.

**Loss of head indicator:** These indicators signal when backwashing is necessary. The unit has provision of two separate gauges for indicating differential pressures.

**Backwash flow rate Indicator:** An orifice plate is provided for flow rate indication during backwashing (optional).

**Air Blower:** For precipitation of iron before filtration.

### Registered Works

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