

# WATER FILTRATION PLANT

## **A] DUAL MEDIA FILTERS:-**

Ionex DMF are similar to pressure sand filter one additional media one additional media Anthracite for better filtration results.

### Salient Features :-

- High Velocities
- Lower backwash flow rate
- Dirt removing capacity is 5 times than that of sand filter.
- Lower pressure drop across the beds.

### Applications :-

Most suitable for Boiler feed water, Potable water, process water etc.

- Pharmaceuticals
- Breweries
- Petroleum
- Fertilizers
- Textile
- Swimming Pool

Since Anthracite contains 60% carbon and has lower silica content DMF is more suitable for pre-treatment of Boiler feed water.

### Technical Specifications:-

Model	IDMF-3	IDMF-4	IDMF-5	IDMF-6	IDMF-8	IDMF-10	IDMF-12	IDMF-14	IDMF-16
Max Flow M3/hr	1.5	2.5	4.5	5.6	10	15	22	30	40
Max Flow M3/hr	0.3	0.5	0.9	1.0	2.0	3.0	4.5	6.0	8.0

Model	IDMF-18	IDMF-20	IDMF-22	IDMF-24	IDMF-24
Max Flow M3/Hr	50	60	70	90	90
Max Flow M3/Hr	10	12	14	18	18

### **Operations:-**

- Various types of filter beds are available depending on operating requirements.
- As water passes downward through from filter bed & suspended matter trapped & accumulated on the beds.
- These foreign matter leads to head loss and it is indication for need of backwash and this is accomplished by an upward flow of water and finally the filter bed is down rinsed.

## **BI ACTIVATED CARBON FILTERS:-**

Ionex ACF activated carbon adsorb chlorine, odour, colour & dissolved organic matter present in water, producing odour less & organic free treated water.

### Salient Features :-

- Low initial cost
- Deliver high quality treated water
- Sustenance to flow fluctuation.
- Lower pressure drop across the beds.

### Applications :-

- Potable water.
- Oil Removal
- ETP
- Chemical Plant
- Swimming Pool
- Boiler feed.

### Technical Specifications:-

Model	IACF-3	IACF-4	IACF-5	IACF-6	IACF-8	IACF-10	IACF-12	IACF-14
Max Flow M3/Hr	1.5	2.5	4.5	5.6	10	15	22	30
Max Flow M3/Hr	0.3	0.5	0.9	1.0	2.0	3.0	4.5	6.0

Model	IACF-16	IACF-18	IACF-20	IACF-22	IACF-24
Max Flow M3/Hr	40	50	60	70	90
Max Flow M3/Hr	8.0	10	12	14	18



### **Operations:-**

Water passes through filter beds and all impurities are adsorbed by activated carbon media.

After duration of operation carbon is cleaned by backwashing by upward flow of water & finally bed is down rinsed.



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