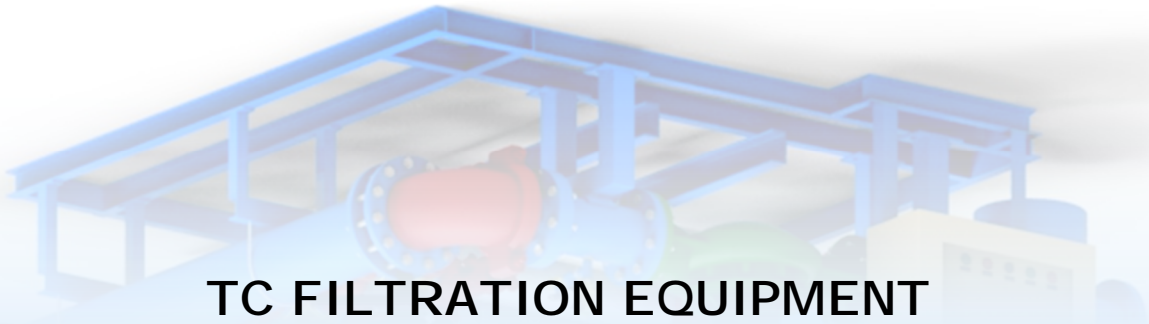
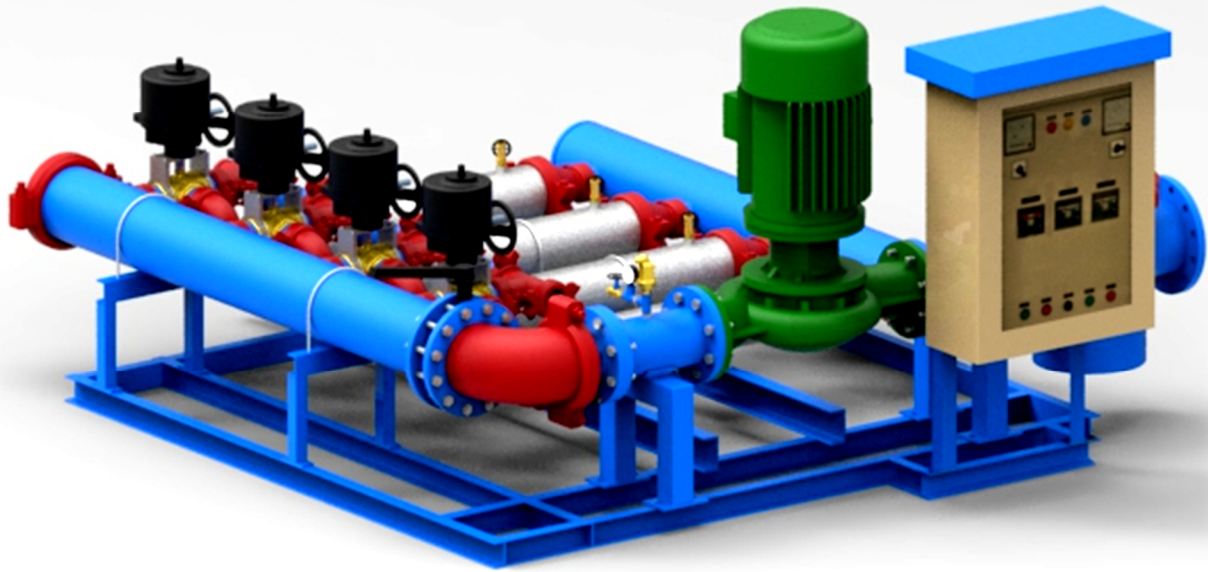




*"Better Buildings. Better World"*



## **TC FILTRATION EQUIPMENT**

**HVAC Application**

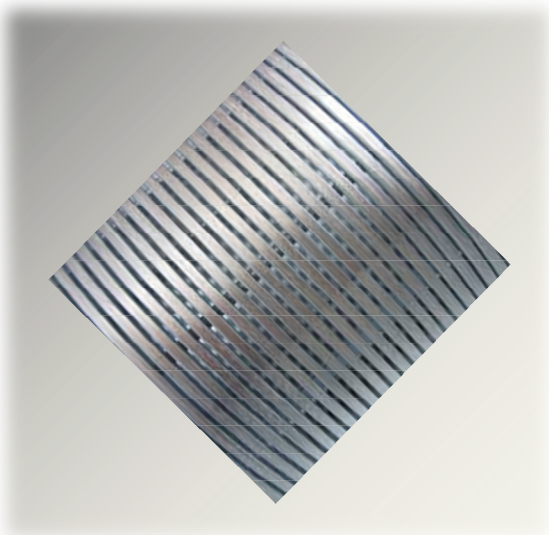
**2016 General Catalogue**

## FEATURES

- Mainly for water filtration
- Compact; space and weight saving design
- Large filtration surfaces
- Long service life
- Low pressure losses, saves in pump energy
- Stainless steel filters media
- PLC Control
- Backwashing either by time or pressure differential
- MODBUS communication



PLC Control



Filter media

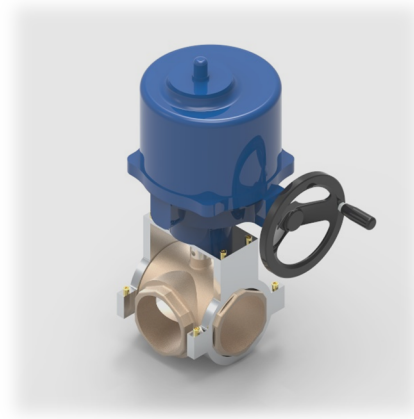
## MODULAR DESIGN

- Multiples of 250 gpm (16 lps)
- Each modules can be knockdown into components that can be manually carried through narrow door-ways to roof-decks
- Quick access with coupling type connections
- Excellent as retrofit to sand filters

## APPLICATIONS

Applications other than in the HVAC industry

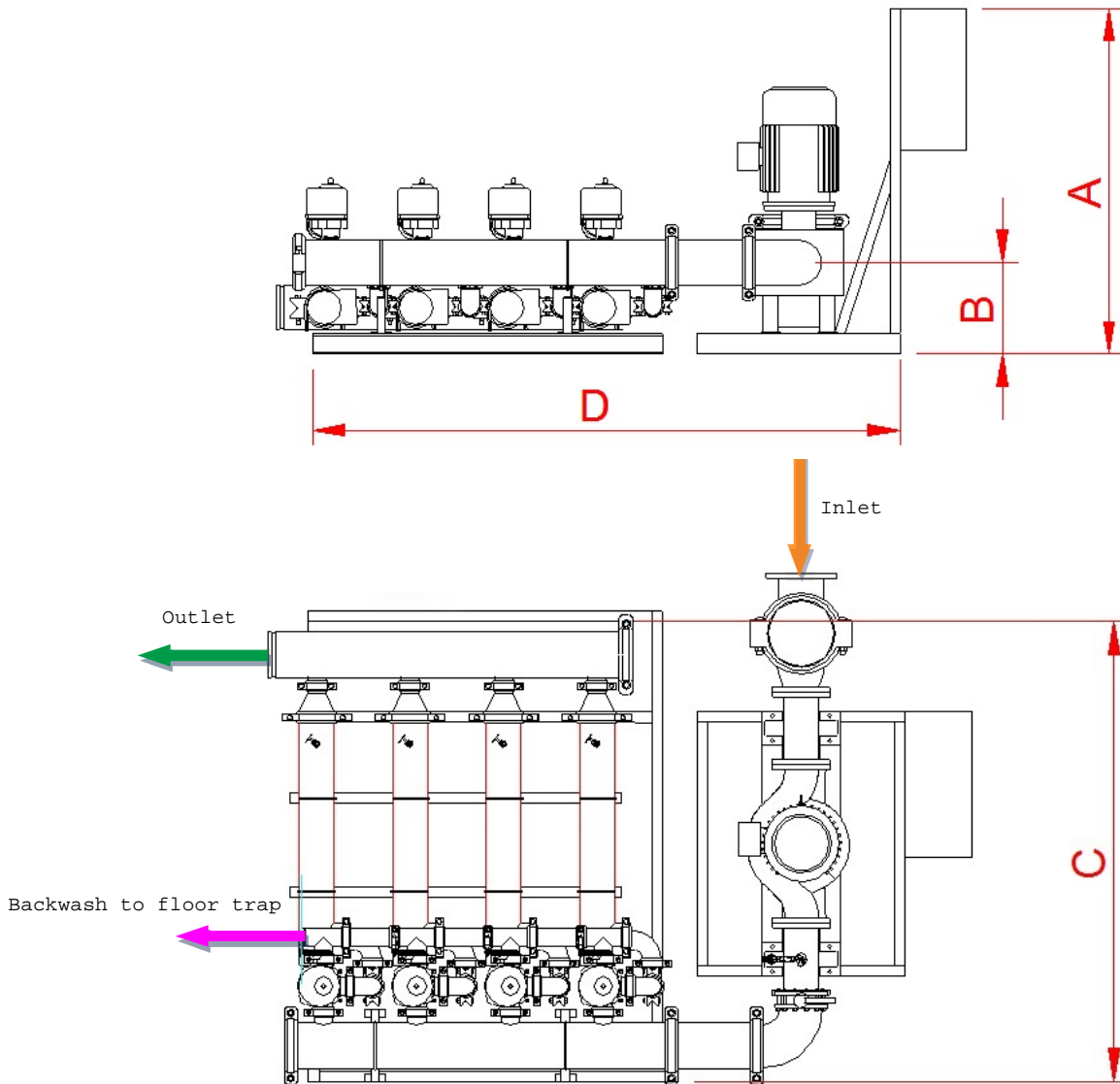
- Beverage industry
- Power Plants
- Chemical Industry
- Water filtration



Control valve

## CAPACITIES/DIMENSIONS

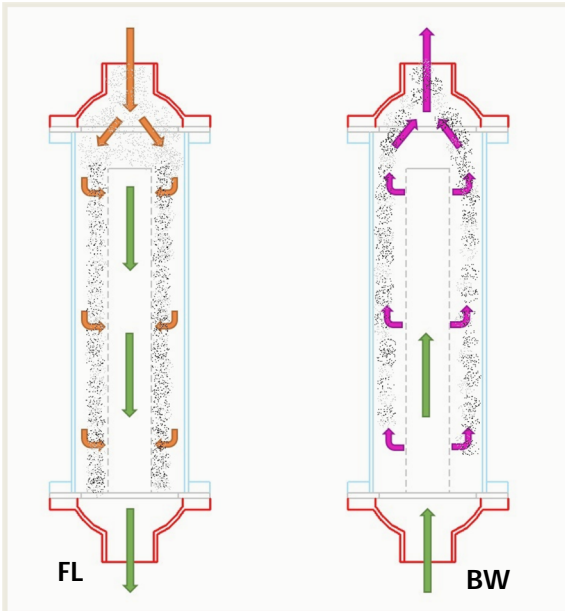
| Model | Module | Flow (USgpm) | Inlet/Outlet Connection (inches) | Backwash Connection (inches) | A, mm (approx.) | B, mm (approx.) | C, mm (approx.) | D, mm (approx.) | Wet Wt, Tons (approx.) |
|-------|--------|--------------|----------------------------------|------------------------------|-----------------|-----------------|-----------------|-----------------|------------------------|
| TC1   | 1      | 250          | 4                                | 3                            | 1700            | 420             | 2200            | 1200            | 2.5                    |
| TC2   | 2      | 500          | 4/5                              | 3                            | 1700            | 420             | 2200            | 1750            | 3.2                    |
| TC3   | 3      | 750          | 8                                | 3                            | 1700            | 450             | 2200            | 2250            | 3.6                    |
| TC4   | 4      | 1000         | 8                                | 3                            | 1700            | 450             | 2300            | 2700            | 4.0                    |
| TC5   | 5      | 1250         | 8                                | 3                            | 1700            | 450             | 2300            | 3150            | 4.4                    |
| TC6   | 6      | 1500         | 10                               | 3                            | 1700            | 450             | 2350            | 3600            | 4.8                    |
| TC7   | 7      | 1750         | 10                               | 3                            | 1700            | 450             | 2350            | 4050            | 5.2                    |
| TC8   | 8      | 2000         | 10/12                            | 3                            | 1700            | 450             | 2400            | 4500            | 5.6                    |
| TC9   | 9      | 2250         | 12                               | 3                            | 1700            | 515             | 2400            | 5000            | 6.0                    |
| TC10  | 10     | 2500         | 12                               | 3                            | 1700            | 515             | 2400            | 5500            | 6.4                    |
| TC11  | 11     | 2750         | 12                               | 3                            | 1700            | 515             | 2400            | 6000            | 6.9                    |
| TC12  | 12     | 3000         | 12/14                            | 3                            | 1700            | 515             | 2500            | 6600            | 7.5                    |



\*Design , material and dimensions are subject to change without prior notice.

## MODE OF OPERATION

### FILTERS



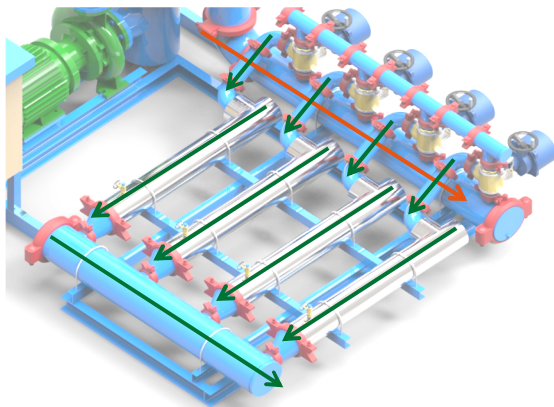
Note: FL-Filter cycle, BW-Backwash cycle

#### FILTRATION CYCLE

Cooling tower water enters the shell and flow outside to inside (FOTI) of the filter element. Debris collects outside the surface of the filter allowing only clean water.

#### BACKWASHING CYCLE

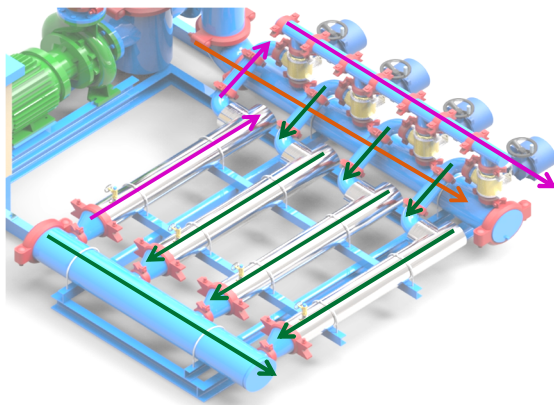
Backwashing is triggered by either time or differential pressure. The flow direction is reversed to flow inside to outside (FITO) of the filter element. This will cause the dirt on the filter element surface to dislodge and flow out to the drain side.



### SYSTEM

#### FILTRATION CYCLE

Cooling tower water flows through the header and flow to each cartridge. Debris collects outside the surface of the filters allowing only clean water to the cooling tower.



#### BACKWASHING CYCLE

The TC is programmed to backwash each cartridge one by one, thereby allowing uninterrupted operation. The flow direction is reversed on each cartridge through the automatic valve. The dirty water coming from the filter cartridge will flow out through the common drain pipe.