

# Clean Master®

Long-Term Care Master



## Features & Benefits



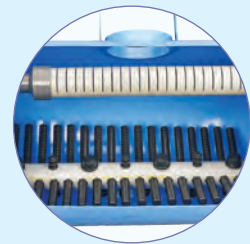
### Unique Manifold Design

Unique design of manifold for single tank unit facilitates flushing with filtered water.



### High Quality Silica Sand as Media

Filtration media is crushed silica sand/quartz gravel of particle size 1 mm to 2 mm (0.039 to 0.078 inch)



### Innovative Candle Assembly

Innovative Candle assembly provided to pass filtered water in system



### Standard Pure Polyester / Epoxy coating for Protecting from Corrosion

Coated up to 150 micron thick deep blue colored pure Polyester powder on outer surface & Epoxy coating from inner side for protection against corrosion and weather effects



### Various Connection Options Available

Threaded connection, Flanged (universal) connection or Easy Fix™ connection available



### Various Options for Backwash

Available in manual, semi automatic or fully automatic backwash options

# Clean Master® – Gold

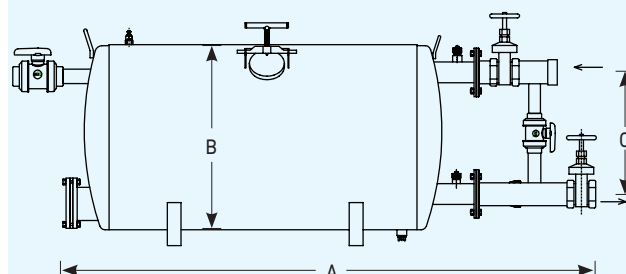
## Additional Features

- Manufactured from mild steel as per international fabrication standards.
- Designed for uniform distribution of incoming raw water over the media bed which ensures very effective filtration & backwash.
- Effective filtration of 75 micron (200 mesh).
- High filtration efficiency due to uniform grade of filtration media (silica sand / quartz gravel) and specially designed outlet candles.
- Maximum pressure rating 10 kg/cm<sup>2</sup> (142 psi).
- Clean-Master can also be supplied with stainless steel body.
- Optional multi tank modules for higher filtration capacities available.

## Applications

- For filtration of water in micro irrigation systems to prevent clogging due to physical and biological impurities.

## Dimensional Specifications



Nominal Flow Rate		A		B	C
		Manual	Semi/Fully Automatic		
m <sup>3</sup> /hr	gpm	mm	mm	mm	mm
25	95	1520	1880	500	310
40	151	1990	2340	500	310
50	189	1935	2505	600	370

## Technical Specifications

Nominal Flow Rate		Connection		Flow per unit area	Back Wash Flow	Quantity of Media		Gross Weight			
		Inlet/Outlet	Back Wash / By Pass					Manual		Semi / Fully Automatic	
m <sup>3</sup> /hr	gpm	inch	inch	m <sup>3</sup> /hr/m <sup>2</sup>	m <sup>3</sup> /hr	kg	lbs	kg	lbs	kg	lbs
25	95	2"	1½"	64	16	150	330	74	162.8	100	220.0
40	151	2½"	1½"	70	24	180	396	100	220.0	143	314.6
50	189	3"	2"	70	32	300	660	142	312.4	146	321.2

## Clean Pressure Drop Chart

Size inch	K	m	Pressure Drop(kg/cm <sup>2</sup> ) w.r.t. Flow (m <sup>3</sup> /hr)												
			5	10	15	20	25	30	40	50	60	70	80	90	100
2"	0.03502	0.072	0.05	0.07	0.10	0.15	0.21	0.31	0.63	1.30	2.69	-	-	-	-
2½"	0.02578	0.047	0.03	0.04	0.05	0.07	0.08	0.11	0.17	0.27	0.43	0.69	1.11	1.769	2.829
3"	0.0253	0.037	0.03	0.04	0.04	0.05	0.06	0.08	0.11	0.16	0.23	0.33	0.48	0.695	1.004

Governing equation,  $h = k e^{m \chi}$ ;  $h$  = Pressure drop (kg/cm<sup>2</sup>);  $\chi$  = Flow rate (m<sup>3</sup>/hr);  $K$  = Pressure drop constant;  $m$  = Flow constant (for  $k$  &  $m$  values refer table)

Note: Filters are tested under standard laboratory test conditions.

## Ordering Specifications

CM	XXX	X	X
	Flow (m <sup>3</sup> /hr)	No. of Units	Type of backwash manifold
	025; 040; 050	S-Single	O - Without manifold
	050; 080; 100	D-Duplex	M - Manual Backwash
	120; 150	T-Triplex	S - Semi Auto. Backwash
			F - Fully Auto. Backwash

Example: CM080DS - This code represents Clean-Master® having flow rate of 80 m<sup>3</sup>/hr, Duplex unit with semi automatic backwash type manifold.

Note

- Clean-Master® - single tank unit manual backwash option is also available with economical plastic manifold please specify code as CM025SMP instead of CM025SM
- Clean-Master® of any other flow capacity or end connections can be supplied On demand.