

# INDUSTRIAL FILTRATION SYSTEMS



## METALEASE™ FILTRATION SYSTEMS WITH STEEL TANKS

### SWT MetalEase™ Filters with STEEL TANKS (FDA Lined & Primed), Aquamatic Diaphragm Valves, Time Initiated Backwash

Part Number	Recommended Flow Range GPM (LPM)	Flow Rate Superior GPM (LPM)	Flow Rate Standard GPM (LPM)	Flow Rate Peak GPM (LPM)	Flow Rate @ 5 PSI Drop GPM (LPM)	Bed Surface Area Sq. Ft.	Backwash Rate GPM (LPM)	Tank Size Inches	Diaphragm Valve Size
MESC15P-2460	15-45 (57-170)	15 (57)	30 (114)	45 (170)	30 (114)	3.1	60 (227)	24 x 60	1.5" Composite
MESC20P-2460	30-63 (114-239)	15 (57)	30 (114)	63 (239)	30 (114)	3.1	60 (227)	24 x 60	2" Composite
MESC15C-3060	25-75 (95-189)	25 (95)	50 (189)	75 (284)	40 (152)	4.9	100 (379)	30 x 60	1.5" Cast Iron
MESC15P-3060	25-75 (95-189)	25 (95)	50 (189)	75 (284)	50 (189)	4.9	100 (379)	30 x 60	1.5" Composite
MESC20C-3060	50-100 (189-379)	25 (95)	50 (189)	100 (379)	60 (227)	4.9	100 (379)	30 x 60	2" Cast Iron
MESC20P-3060	50-100 (189-379)	25 (95)	50 (189)	100 (379)	50 (189)	4.9	100 (379)	30 x 60	2" Composite
MESC20C-3660	35-105 (133-398)	35 (133)	70 (265)	105 (398)	60 (227)	7.0	140 (530)	36 x 60	2" Cast Iron
MESC20P-3660	35-105 (133-398)	35 (133)	70 (265)	105 (398)	70 (265)	7.0	140 (530)	36 x 60	2" Composite
MESC25C-3660	70-125 (265-474)	35 (133)	70 (265)	125 (474)	70 (265)	7.0	140 (530)	36 x 60	2.5" Cast Iron
MESC30C-3660	70-140 (265-530)	35 (133)	70 (265)	140 (530)	70 (265)	7.0	140 (530)	36 x 60	3" Cast Iron
MESC30P-3660	70-140 (265-530)	35 (133)	70 (265)	140 (530)	75 (284)	7.0	140 (530)	36 x 60	3" Composite
MESC20P-4260	45-145 (170-549)	50 (189)	95 (360)	145 (549)	90 (341)	9.6	195 (738)	42 x 60	2" Composite
MESC25C-4260	45-125 (170-474)	50 (189)	95 (360)	125 (474)	90 (341)	9.6	195 (738)	42 x 60	2.5" Cast Iron
MESC30C-4260	95-192 (360-727)	50 (189)	95 (360)	192 (727)	100 (379)	9.6	195 (738)	42 x 60	3" Cast Iron
MESC30P-4260	45-145 (170-549)	50 (189)	95 (360)	145 (549)	100 (379)	9.6	195 (738)	42 x 60	3" Composite
MESC20P-4860	65-145 (246-549)	65 (246)	125 (474)	145 (549)	100 (379)	12.6	255 (965)	48 x 60	2" Composite
MESC25C-4860	65-120 (246-455)	65 (246)	125 (474)	120 (455)	125 (474)	12.6	255 (965)	48 x 60	2.5" Cast Iron
MESC30C-4860	120-200 (455-758)	65 (246)	125 (474)	200 (758)	140 (530)	12.6	255 (965)	48 x 60	3" Cast Iron
MESC30P-4860	120-230 (455-871)	65 (246)	125 (474)	230 (871)	140 (530)	12.6	255 (965)	48 x 60	3" Composite
MESC30C-5460	80-205 (303-777)	80 (303)	160 (606)	205 (777)	160 (606)	15.9	320 (1211)	54 x 60	3" Cast Iron
MESC30P-5460	80-300 (303-1137)	80 (303)	160 (606)	300 (1137)	160 (606)	15.9	320 (1211)	54 x 60	3" Composite
MESC40C-5460	160-318 (606-1205)	80 (303)	160 (606)	318 (1205)	160 (606)	15.9	320 (1211)	54 x 60	4" Cast Iron
MESC30C-6060	100-205 (379-777)	100 (379)	200 (758)	205 (777)	175 (663)	19.6	395 (1495)	60 x 60	3" Cast Iron
MESC30P-6060	100-300 (379-1137)	100 (379)	200 (758)	300 (1137)	195 (739)	19.6	395 (1495)	60 x 60	3" Composite
MESC40C-6060	200-400 (758-1515)	100 (379)	200 (758)	400 (1515)	195 (739)	19.6	395 (1495)	60 x 60	4" Cast Iron



# INDUSTRIAL FILTRATION SYSTEMS



## METALEASE™ FILTRATION SYSTEMS WITH STEEL TANKS

### SWT MetalEase™ Filters with STEEL TANKS (FDA Lined & Primed), Aquamatic Diaphragm Valves, Time Initiated Backwash

Part Number	Recommended Flow Range GPM (LPM)	Flow Rate Superior GPM (LPM)	Flow Rate Standard GPM (LPM)	Flow Rate Peak GPM (LPM)	Flow Rate @ 5 PSI Drop GPM (LPM)	Bed Surface Area Sq. Ft.	Backwash Rate GPM (LPM)	Tank Size Inches	Diaphragm Valve Size
MESC30C-6660	120-200 (455-758)	120 (455)	200 (758)	200 (758)	180 (682)	23.8	480 (1817)	66 x 60	3" Cast Iron
MESC30P-6660	120-240 (455-909)	120 (455)	240 (909)	240 (909)	225 (852)	23.8	480 (1817)	66 x 60	3" Composite
MESC40C-6660	240-400 (909-1515)	120 (455)	240 (909)	400 (1515)	240 (909)	23.8	480 (1817)	66 x 60	4" Cast Iron
MESC30C-7260	140-205 (530-777)	140 (530)	205 (777)	205 (777)	180 (682)	28.2	565 (2139)	72 x 60	3" Cast Iron
MESC30P-7260	280-400 (1061-1515)	140 (530)	280 (1061)	400 (1515)	250 (947)	28.2	565 (2139)	72 x 60	3" Composite
MESC40C-7260	280-400 (1061-1515)	140 (530)	280 (1061)	400 (1515)	280 (1061)	28.2	565 (2139)	72 x 60	4" Cast Iron
MESC60C-7260	280-564 (1061-2137)	140 (530)	280 (1061)	564 (2137)	280 (1061)	28.2	565 (2139)	72 x 60	6" Cast Iron

**System** is unassembled (for shipping purposes) and includes all necessary valves, tank, grades of media, underbedding, internal distributors/strainers, drain line flow controls, and the clock/timer/stager assembly mounted into a control box. External piping is not included. Customer may want to consider system additions of pressure gauges, sample cocks, vacuum breakers, flex connectors, bypass valves, shut-offs, etc.

**Cast Iron Valve** available connections: (FPT: 1.5 inch, 2 inch, 2.5 inch, 3 inch); (Flanged: 3 inch, 4 inch, 6 inch)

**Plastic Valve** available connections: (MPT: 1.5 inch); (Male Spigot Weld: 1.5 inch, 2 inch); (Female Socket Weld: 2 inch); (Flanged: 2 inch, 3 inch)

**Recommended Service Flow Rates/Ranges** are based on the sq.ft. of the tank/filter bed. Slower flow rate per sq.ft. = Better Filtration

- 5 to 10 gpm/sq.ft. = Superior filtration (20 to 40 micron nominal) with less than 5 to 10 psi pressure drop
- 10 to 15 gpm/sq.ft. = High quality filtration (40 to 100 micron nominal) with up to 10 to 20 psi pressure drop
- 15 to 20 gpm/sq.ft. = Utility filtration only (no micron rating estimate) with up to 25 to 30 psi pressure drop

**System Flow Rates** as listed are based on pressure drop curves of less than 2 psi drop through the service valves.

**Backwash Rates** for proper bed cleaning are best achieved at 20 to 25 gpm per sq.ft. However, allow backwash variations to as low as 15 gpm/sq.ft. for valve sizes, pipe sizes, pump sizes, water availability, and unique applications.

**Backwash Rates** allow up to 5 psi loss through the backwash valves.

**Backwash Flow Restrictors** are included and can be provided to accommodate any desired backwash flow rates.

**Valve Sizes and Tank Size Pairings** for special flow rates and backwash rates may be substituted at customer request or are application dependent.

**Operating Pressure:** 100 psi (7 bar)

**Maximum Temperature:** 140°F (60°C)