

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

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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, shutoffs, 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)

SAFE WATER TECHNOLOGIES, INC.
 996 BLUFF CITY BOULEVARD, ELGIN, IL 60120 USA
 TELEPHONE 847 888 6900 • FACSIMILE 847 888 6924
 E MAIL: info@swtwater.com • WEB SITE: www.swtwater.com



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