
PACKAGED WATER SOFTENERS



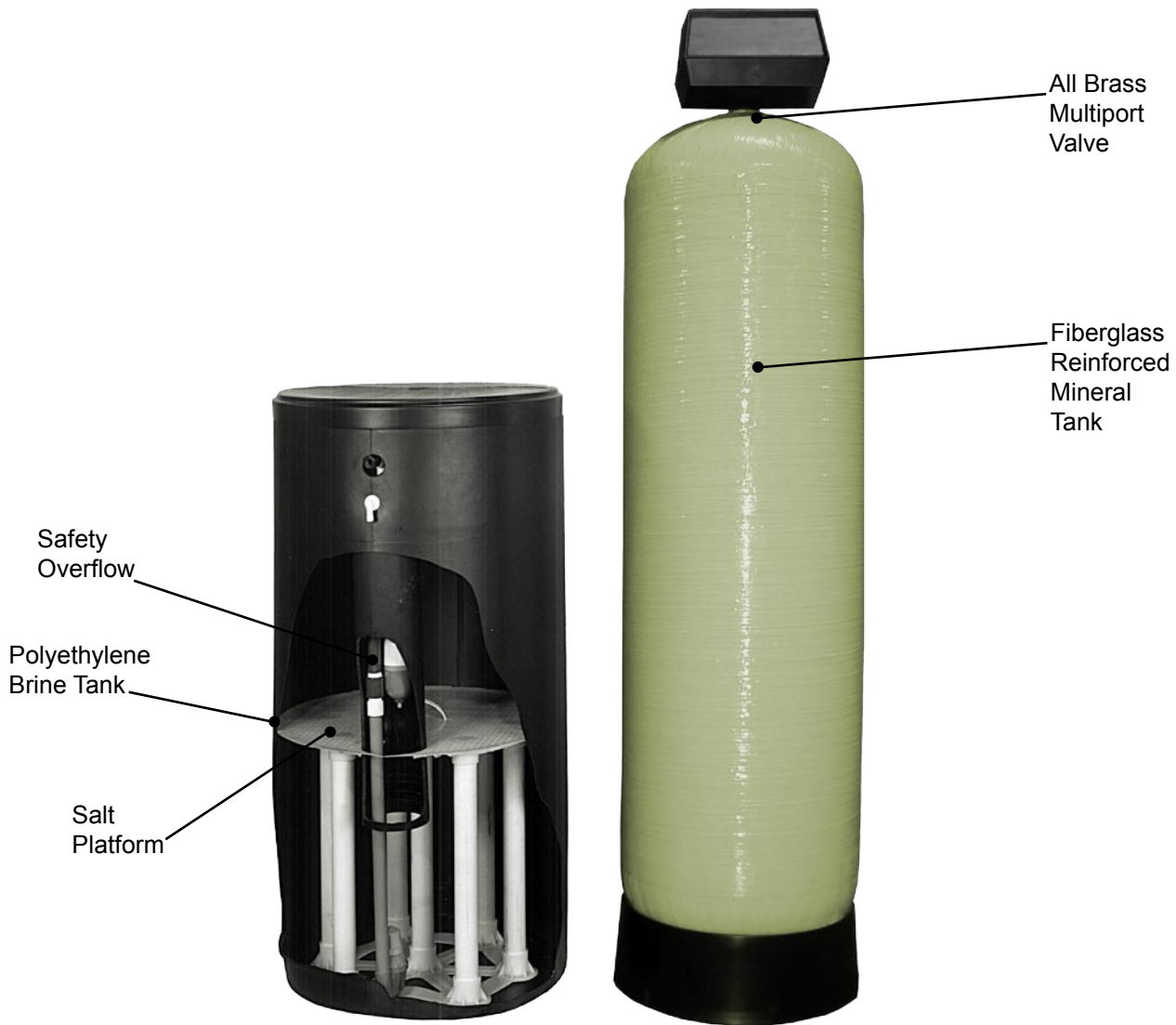
OPTIONAL: Preloaded, skid mounted, prepiped and prewired



For Applications Such As

Apartments - Boiler Water Treatment - Motels - Schools - Nursing Homes
Office Buildings - Condominiums - Factories - Hospitals - R/O Pre-treatment

Quality Products for Quality Water



MARLO MGT SERIES SOFTENERS OFFER:

Simplicity

Uncomplicated straightforward valve and brine system design coupled with rugged corrosion resistant tank construction ensures years of "trouble-free" field operation.

Low Maintenance

MGT Series Softeners are fabricated using high quality components to minimize maintenance requirements. If the need for service should arise, all valves, distributors, and operational components are easy to reach. All components are standard and readily available from stock.

Fully Automatic Operation

Standard integral time clock controller can be preset to initiate regeneration automatically at desired time intervals. If softened water usage increases unexpectedly, simply depress the manual regeneration lever and the unit will regenerate automatically and return to service without having to reset the time clock.

Over the years, Marlo has built a reputation as an industry standard for high quality water treatment systems and equipment.

Marlo MGT Series Softeners reflect that overall commitment to excellence, and are fabricated using field tested designs with a proven record of service reliability.

Designed for "Multiple Applications"

Marlo MGT Series Water Softeners are designed to fit the requirements of many types of commercial and industrial applications.

Operating Specifications:

Pressure Range - 25 to 125 psi.
 Temperature - Up To 110 °F
 Electrical Rating - 120V / 60Hz
 220V / 50Hz
 (Available on request)

Check with factory for other operating conditions.



3/4" Valve



1 " Valve with meter option



3" Valve



1 1/2" Valve with meter option



2" Valve with meter option

5 Cycle, Motor Driven Control Valve:

Marlo MGT Softeners utilize motor driven, corrosion resistant, all brass multiport control valves. These valves offer reliable operation and do not depend on water pressure for initiation of regeneration thereby eliminating problems caused by fluctuating water pressure. All four regeneration cycles (backwash, brining, slow rinse and brine tank refill) are fully adjustable. Single units offer an automatic bypass during regeneration for uninterrupted service.

Automatic Backwash Control:

Marlo MGT Softeners utilize a patented self-adjusting flow control to maintain accurate backwash flow rates regardless of line pressure fluctuations. This control is factory installed and requires no field adjustment.

Choice of Single, Twin, or Triple Softener Systems:

Marlo MGT Softeners are available in conventional single, twin, triple system designs. If your application requires an uninterrupted flow of soft water, we recommend a twin or triple system.

Optional Meter Operation:

Should the demand for soft water fluctuate often, you may specify an optional reset water meter which initiates regeneration on a "gallons used" basis. You may select a conventional auto-reset water meter or an electronic demand type meter.

Optional Alternating Operation:

Marlo MGT Twin Alternating Softener systems are designed to assure you of a fully regenerated softener on standby, ready to go when the unit on-line exhausts. This is accomplished by the use of a sequencing stager which takes the exhausted unit out of service, and puts the freshly regenerated standby unit on stream. When the exhausted unit is fully regenerated, it is put on standby, ready to go on stream when the service unit exhausts. There is never an interruption of the soft water supply. Triple Alternating, Parallel or Additive Flow Operational systems systems are also available with one (1), two (2) or three (3) vessels on-line at any given time.

Optional Skid Mounted, Prepiped, and Prewired:

Marlo MGT softener mineral tanks can be mounted on a steel skid and supplied with factory installed interconnecting piping and wiring. This will ensure quick "trouble free" installation and reduce installation costs.

Tough Corrosion Resistant Mineral Tanks:

MGT series mineral tanks are constructed of fiberglass reinforced polyester. All tanks are designed and built for 150 psi working pressure.

Tough Corrosion Resistant Brine Tanks:

Rigid, polyethylene brine tanks with dust tight covers are completely corrosion resistant and stand up well to everyday physical abuse.

High Platform Salt System:

Marlo's exclusive high platform salt system keeps brine clean and, therefore, allows the use of most grades of salt. Salt mushing and bridging are virtually eliminated because only an essential amount of salt is moistened for each regeneration.

Timed Filled Brining:

Motorized "timed-fill" control valve with automatic flow control affords accurate salt settings which can be easily adjusted by a salt setting dial on the softener control. No repositioning of plugs or removal of salt is necessary in order to vary salt dosages. Model MGT-15 thru MGT-120 are equipped as standard with a safety valve to prevent brine tank overflow. It is available as an option on all other models.

High Capacity Resin:

Marlo utilizes virgin high capacity polystyrene, sulfonated resins of uniform size for maximum hardness removal and salt efficiency.

Fully Packaged:

All Marlo softeners are fully factory assembled and tested before shipment. Each unit is shipped on wooden pallets to eliminate damage during shipment.

MGT SERIES SOFTENER SPECIFICATIONS

| Catalog Model Number | Grains Capacity and Salt Dosages (Lbs.) | | Pipe Size | Service Flow Rates | | Backwash Flow Rate | Resin Load | Tank Sizes | | Salt Storage Capacity | Dimensions Ins. | | | | |
|----------------------|---|----------------|-----------|--------------------|-------|--------------------|------------|------------|---------|-----------------------|-----------------|-------------|---------------|-------|---------------------|
| | | | | Continuous | Peak | | | Softener | Brine | | Length Single | Length Twin | Length Triple | Width | Height ^③ |
| | Max. | Min. | In. | ① GPM | ② GPM | GPM | Cu. Ft. | In. | In. | Lbs. | | | | | |
| MGT - 15-¾ | 15,000 7.5 | 10,000 3 | ¾ | 7 | 10 | 1.2 | 0.5 | 7 x 44 | 18 x 33 | 290 | 31 | 44 | 57 | 18 | 52 |
| MGT - 30-¾ | 30,000 15 | 20,000 6 | ¾ | 10 | 14 | 2.0 | 1.0 | 9 x 48 | 18 x 33 | 290 | 33 | 48 | 63 | 18 | 48 |
| MGT - 30-1 | | | 1 | 14 | 19 | | | | | | | | | | 48 |
| MGT - 45-1 | 45,000 22.5 | 30,000 9 | 1 | 15 | 20 | 3.0 | 1.5 | 10 x 54 | 18 x 40 | 320 | 34 | 50 | 66 | 18 | 62 |
| MGT - 45-1½ | | | 1½ | 18 | 28 | 3.5 | | 13 x 54 | | | | | | | 62 |
| MGT - 60-1 | 60,000 30 | 40,000 12 | 1 | 16 | 21 | 3.5 | 2.0 | 12 x 52 | 18 x 40 | 320 | 36 | 54 | 72 | 18 | 60 |
| MGT - 60-1½ | | | 1½ | 28 | 39 | | | 13 x 54 | | | | | | | 60 |
| MGT - 60-2 | | | 2 | 33 | 49 | | | | | | | | | | 65 |
| MGT - 90-1 | 90,000 45 | 60,000 18 | 1 | 17 | 22 | 5.0 | 3.0 | 14 x 65 | 18 x 40 | 270 | 38 | 58 | 78 | 18 | 73 |
| MGT - 90-1½ | | | 1½ | 31 | 42 | | | | | | | | | | 73 |
| MGT - 90-2 | | | 2 | 39 | 54 | | | | | | | | | | 78 |
| MGT - 120-1 | 120,000 60 | 80,000 24 | 1 | 18 | 23 | 6.0 | 4.0 | 16 x 65 | 24 x 40 | 550 | 46 | 68 | 90 | 24 | 73 |
| MGT - 120-1½ | | | 1½ | 34 | 46 | | | | | | | | | | 73 |
| MGT - 120-2 | | | 2 | 47 | 64 | | | | | | | | | | 78 |
| MGT - 150-1 | 150,000 75 | 100,000 30 | 1 | 18 | 23 | 8.0 | 5.0 | 18 x 65 | 24 x 40 | 500 | 48 | 72 | 96 | 24 | 74 |
| MGT - 150-1½ | | | 1½ | 37 | 51 | | | | | | | | | | 74 |
| MGT - 150-2 | | | 2 | 61 | 80 | | | | | | | | | | 79 |
| MGT - 180-1 | 180,000 90 | 120,000 36 | 1 | 19 | 24 | 12.0 | 6.0 | 21 x 62 | 24 x 50 | 650 | 51 | 82 | 113 | 24 | 71 |
| MGT - 180-1½ | | | 1½ | 41 | 54 | | | | | | | | | | 71 |
| MGT - 180-2 | | | 2 | 63 | 81 | | | | | | | | | | 76 |
| MGT - 210-1 | 210,000 105 | 140,000 42 | 1 | 18 | 23 | 12.0 | 7.0 | 21 x 62 | 24 x 50 | 600 | 51 | 82 | 113 | 24 | 71 |
| MGT - 210-1½ | | | 1½ | 39 | 52 | | | | | | | | | | 71 |
| MGT - 210-2 | | | 2 | 60 | 77 | | | | | | | | | | 76 |
| MGT - 240-1 | 240,000 120 | 160,000 48 | 1 | 22 | 30 | 15.0 | 8.0 | 24 x 72 | 24 x 50 | 550 | 54 | 90 | 126 | 24 | 81 |
| MGT - 240-1½ | | | 1½ | 42 | 55 | | | | | | | | | | 81 |
| MGT - 240-2 | | | 2 | 74 | 97 | | | | | | | | | | 86 |
| MGT - 240-3 | | | 3 | 120 | 170 | | | | | | | | | | 89 |
| MGT - 270-1 | 270,000 135 | 180,000 54 | 1 | 20 | 28 | 15.0 | 9.0 | 24 x 72 | 24 x 50 | 500 | 54 | 90 | 126 | 24 | 81 |
| MGT - 270-1½ | | | 1½ | 42 | 55 | | | | | | | | | | 81 |
| MGT - 270-2 | | | 2 | 71 | 94 | | | | | | | | | | 86 |
| MGT - 270-3 | | | 3 | 117 | 160 | | | | | | | | | | 89 |
| MGT - 300-1 | 300,000 150 | 200,000 60 | 1 | 18 | 26 | 15.0 | 10.0 | 24 x 72 | 24 x 50 | 450 | 54 | 90 | 126 | 24 | 81 |
| MGT - 300-1½ | | | 1½ | 41 | 55 | | | | | | | | | | 81 |
| MGT - 300-2 | | | 2 | 68 | 91 | | | | | | | | | | 86 |
| MGT - 300-3 | | | 3 | 114 | 150 | | | | | | | | | | 89 |
| MGT - 450-1½ | 450,000 225 | 300,000 90 | 1½ | 45 | 62 | 25.0 | 15.0 | 30 x 72 | 30 x 48 | 590 | 66 | 108 | 150 | 30 | 88 |
| MGT - 450-2 | | | 2 | 84 | 105 | | | | | | | | | | 93 |
| MGT - 450-3 | | | 3 | 160 | 213 | | | | | | | | | | 96 |
| MGT - 600-2 | 600,000 300 | 400,000 120 | 2 | 87 | 110 | 35.0 | 20.0 | 36 x 72 | 39 x 48 | 1250 | 81 | 129 | 177 | 39 | 91 |
| MGT - 600-3 | | | 3 | 185 | 250 | | | | | | | | | | 94 |
| MGT - 750-2 | 750,000 375 | 500,000 150 | 2 | 115 | 145 | 35.0 | 25.0 | 42 x 72 | 39 x 60 | 1700 | 87 | 141 | 195 | 42 | 96 |
| MGT - 750-3 | | | 3 | 200 | 268 | | | | | | | | | | 99 |
| MGT - 900-2 | 900,000 450 | 600,000 180 | 2 | 105 | 135 | 35.0 | 30.0 | 42 x 72 | 42 x 60 | 2000 | 90 | 144 | 198 | 42 | 96 |
| MGT - 900-3 | | | 3 | 165 | 225 | | | | | | | | | | 99 |
| MGT - 1050-2 | 1,050,000 525 | 700,000 210 | 2 | 120 | 155 | 55.0 | 35.0 | 48 x 72 | 42 x 60 | 1700 | 96 | 156 | 216 | 48 | 99 |
| MGT - 1050-3 | | | 3 | 213 | 280 | | | | | | | | | | 102 |
| MGT - 1200-2 | 1,200,000 600 | 800,000 240 | 2 | 125 | 160 | 55.0 | 40.0 | 48 x 72 | 42 x 60 | 1700 | 96 | 156 | 216 | 48 | 99 |
| MGT - 1200-3 | | | 3 | 205 | 275 | | | | | | | | | | 102 |

(1) At a 15 psi pressure loss. (2) At a 15 psi pressure loss. (3) Add 24" min. additional clearance for loading media.



2227 South Street
P.O. Box 044170
Racine, WI 53404-7003
Ph. (262) 681-1300
Fax (262) 681-1318
www.Marlo-Inc.com