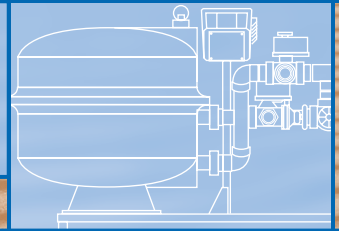




FOR SIDE-STREAM COOLING TOWER APPLICATIONS



The TowerGuard side-stream sand filter series represents Miller-Leaman's newest generation of self-cleaning cooling tower water filtration products.

The skid mounted TowerGuard filter system automatically removes particles introduced to your system from the air scrubbing

action of the cooling tower as well as particles present in the cooling tower make up water. Keeping your system free of these particles will reduce maintenance costs by keeping your cooling tower basin, heat exchanger tubes, and system piping clean. In addition, you will see an improvement in

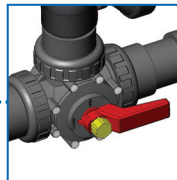
heat exchange efficiency resulting in lower energy costs. The TowerGuard utilizes a specialized granular filter media, providing particle removal efficiencies approaching 90% at the 10-micron level.

Available in a 44 GPM, 62 GPM, and 98 GPM model size, the TowerGuard filters come complete with a robust 2-piece fiberglass reinforced vessel rated at 50 PSI, a close coupled centrifugal pump with a built-in pump pre-strainer, and a TEFC motor, all mounted on a heavy-duty Type 304 stainless steel skid.

Miller-Leaman's compact, yet powerful Maxim backflush controller provides for complete control of the filter system, enabling the backflush cycle to be triggered manually, on differential pressure, or elapsed time.....



All TowerGuard systems offer the versatility of flushing with tower/source water or city/external water. This is accomplished by a turn of the backflush selector valve and a simple menu change in the Maxim controller.....



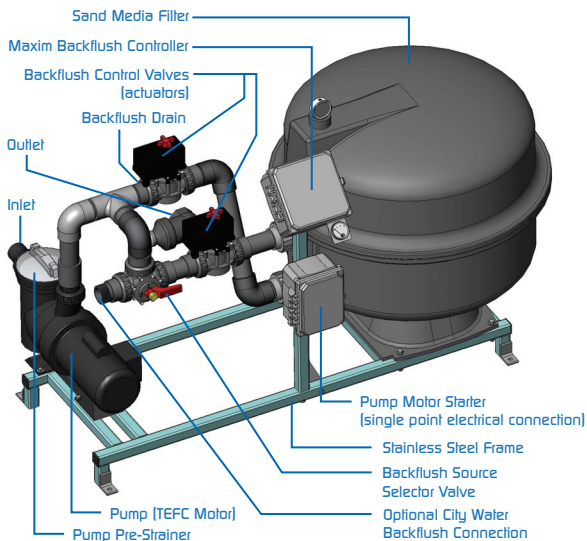
The skid mounted system arrives completely assembled, pre-wired with a single-point electrical connection, and loaded with sand. Our innovative TowerGuard systems are value engineered to deliver superior performance and long-term reliability.

SYSTEM FEATURES:

- Particle removal down to 10-micron
- Robust fiberglass reinforced polyester vessel
- Corrosion resistant, electrically-actuated PVC 3-way valves
- TEFC pump with built-in pump pre-strainer
- Single-point electrical connection
- State-of-the-art user-adjustable Maxim backflush controller
- Optional backflushing with source water or city water
- System arrives completely assembled, loaded with sand, and factory tested

TYPICAL APPLICATIONS:

- Schools/Universities
- Hospitals
- Office Buildings
- Hotels
- Government Buildings
- Industrial Facilities



FILTER OPERATION MODES

Filtration:

Influent contaminated water flows through the pump and enters the filter. Water is distributed evenly over the sand media bed. As it flows down through the sand media, suspended particles are captured. Filtered effluent water exits into the system outlet. As particles are captured, a “caking effect” is achieved throughout the sand bed which results in finer particle removal.

Backflush:

Once the Maxim controller initiates a backflush, the flow path is reversed through the filter by two 3-way valves. During backflush, the water is reversed through the media bed. The reverse flow of water causes the media bed to lift, allowing the captured particles to release and wash out the backflush drain pipe. Backflushing can be done with source water or city water.

FILTER COMPONENTS

- Vessel: Fiberglass Reinforced Polyester (FRP)
- Internal Distribution Piping: PVC
- Face Piping: Schedule 80 PVC
- Filter Media: Unigran-85 (10 micron)
(Other media options available)
- Pump: Close Coupled TEFC Motor, System Matched Centrifugal Pump with Pre-Strainer
- Control Valves: PVC 3-Way Valves, Electrically Actuated
- Skid: 1.5" Type 304 Stainless Steel, Welded
- Controller: Maxim Backwash Controller with User-Adjustable Backflush Frequency and Duration in a NEMA-4X Enclosure. (Additional input/output capabilities is optional.)
- Electric: Single Point Electrical Connection, 115 or 230 VAC Starter with Overload Protection and Reset Button

Model #	Flow Rate (GPM)*	Filtration Area (sq. ft.)	Max Pressure (PSI)	Inlet/Outlet Size and type	Backflush Line Size and Type	Optional City Water Line Size and Type	Pump HP	System Voltage/AMPS**
TG-20	44 GPM	2.2 sq. ft.	50 PSI	Inlet: 2" Pipe Outlet: 2" NPT(f)	2" NPT (m)	2" NPT (m)	3/4 HP	115 VAC (13 amps) or 230 VAC (6.5 amps)
TG-24	62 GPM	3.1 sq. ft.	50 PSI	Inlet: 2" Pipe Outlet: 2" NPT(f)	2" NPT (m)	2" NPT (m)	1 HP	115 VAC (16 amps) or 230 VAC (8 amps)
TG-30	98 GPM	4.9 sq. ft.	50 PSI	Inlet: 2" Pipe Outlet: 2" NPT(f)	2" NPT (m)	2" NPT (m)	2 HP	230 VAC (11 amps)

*Higher flow rate models available; contact factory for additional information.

**All systems come standard with single point electrical feed; electrical connection is at motor starter.



800 ORANGE AVENUE • DAYTONA BEACH, FLORIDA 32114
 PHONE: 386.248.0500 • FAX: 386.248.3033 • TOLL FREE 800.881.0320
 WWW.MILLERLEAMAN.COM • EMAIL: SALES@MILLERLEAMAN.COM



Made in the U.S.A.