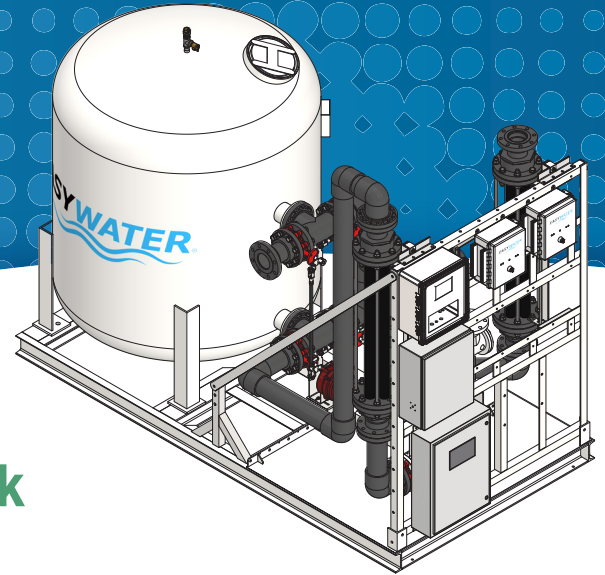


# CTF System

## COOLING TOWER TREATMENT SYSTEM



**An innovative way to reduce scale, corrosion, bacteria and Legionella risk in cooling towers**

### The 3 Major Problems in Cooling Tower Systems:

- 1 Limescale deposits in condenser tubes, piping and cooling tower fill
- 2 High corrosion rates
- 3 High bacteria counts, biofilm and the presence of Legionella

### How CTF Solves the 3 Major Problems in Cooling Tower Systems:

#### SEDIMENTSHIELD SUB-MICRON FILTRATION

- ▶ Utilizes EasyWater's sub-micron SedimentShield media, which is a proprietary blend of media that backwashes clean and does not harbor bacteria
- ▶ SedimentShield media has an expected life of 20+ years
- ▶ Removes over 99% of bacteria in the water
- ▶ Significantly reduces turbidity or cloudiness in the water, which increases the effectiveness of the UV system
- ▶ Sub-micron filtration results in cleaner sump basins (particles are not heavy enough to settle) and reduced Legionella risk
- ▶ Removal of bacteria through sub-micron filtration and UV, results in extremely low bacteria counts, minimal biocide and less corrosion

#### ULTRAVIOLET (UV) SYSTEM

- ▶ Kills bacteria on contact
- ▶ Minimizes the use of biocides, which lowers corrosion rates and saves money
- ▶ UV provides highly effective sanitization and is protected from deposits and performance loss by the SedimentShield filtration and No-Salt Conditioner

#### NO-SALT CONDITIONERS

- ▶ Dramatically reduces or eliminates anti-scalant chemicals
- ▶ Helps remove scale and biofilm in the system, as well as in the UV, which helps maintain the rated effectiveness of the UV
- ▶ Minimizes system biofilm, which reduces Legionella risk
- ▶ Breaks down the cell wall of bacteria
- ▶ Causes flocculation of particles in the water, increasing filtration effectiveness
- ▶ Removes insulating limescale and biofilm from chiller condenser tubes, which saves 5% to 45%+ energy

*“In less than 3 weeks of CTF treatment, the bacteria levels went from  $10^5$  to  $10^0$ , and Legionella from 1,790 to None.”*

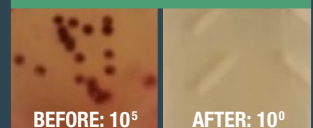
— Boca Raton Regional Hospital



#### Legionella Test Results

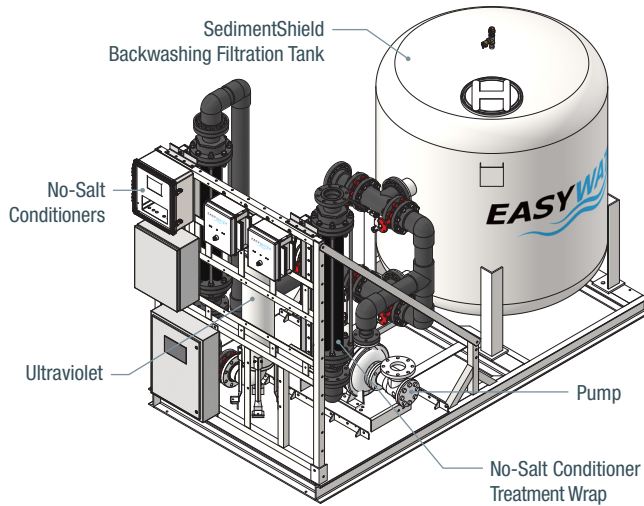
BEFORE	4/30/19	1,110 CFU/mL
BEFORE	5/10/19	1,790 CFU/mL
AFTER	6/24/19	NONE

#### Bacteria Dip Slide Results



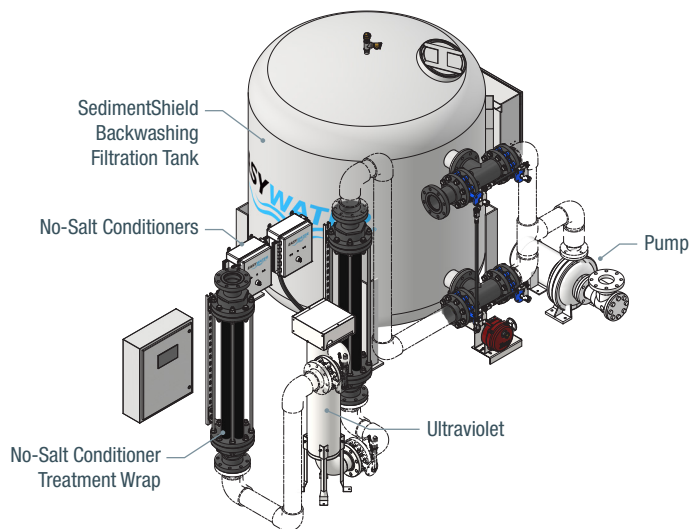
## SKID-MOUNTED

Pre-plumbed and  
pre-wired on a steel skid



## INDIVIDUAL COMPONENTS

Individual components  
are plumbed and wired  
on site



Model #	Cooling Tower Tons <sup>1</sup>	Cooling Tower GPM <sup>2</sup>	Steel Tank Dim	Sidestream GPM
CTF-12-S	80	240	12" x 60"	12
CTF-25-S	167	500	18" x 60"	25
CTF-50-S	333	1,000	24" x 60"	50
CTF-75-S	500	1,500	30" x 65"	75
CTF-100-S	667	2,000	36" x 65"	100
CTF-150-S	1,000	3,000	42" x 65"	150
CTF-185-S	1,233	3,700	48" x 72"	185
CTF-235-S	1,567	4,700	54" x 72"	235
CTF-300-S	2,000	6,000	60" x 72"	300
CTF-360-S	2,400	7,200	66" x 72"	360
CTF-425-S	2,833	8,500	72" x 72"	425
CTF-500-S	3,333	10,000	78" x 72"	500
CTF-580-S	3,867	11,600	84" x 72"	580

Model selection can vary based on water quality and system volume.

Options such as stainless tanks, piping and skids along with dual pumps and various control options are available upon request. Contact EasyWater or local rep for more information.

<sup>1</sup> Total cooling tower tons based on peak load. <sup>2</sup> Total cooling tower GPM based on 3gpm/ton.

Model #	Cooling Tower Tons <sup>1</sup>	Cooling Tower GPM <sup>2</sup>	Filtration Tanks	Sidestream GPM
CTF-12	80	240	12" x 54" FRP	12
CTF-20	133	400	16" x 65" FRP	20
CTF-35	233	700	21" x 62" FRP	35
CTF-50	333	1,000	24" x 72" FRP	50
CTF-75	500	1,500	30" x 72" FRP	75
CTF-75	500	1,500	30" x 65" Steel	75
CTF-100	667	2,000	36" x 72" FRP	100
CTF-100	667	2,000	36" x 65" Steel	100
CTF-150	1,000	3,000	42" x 72" FRP	150
CTF-150	1,000	3,000	42" x 65" Steel	150
CTF-185	1,233	3,700	48" x 72" Steel	185
CTF-200	1,333	4,000	2 - 36" x 72" FRP	200
CTF-235	1,567	4,700	54" x 72" Steel	235
CTF-300	2,000	6,000	60" x 72" Steel	300
CTF-300	2,000	6,000	2 - 42" x 72" FRP	300
CTF-350	2,333	7,000	66" x 72" Steel	350
CTF-425	2,833	8,500	72" x 72" Steel	425
CTF-450	3,000	9,000	3 - 42" x 72" FRP	450
CTF-500	3,333	10,000	78" x 72" Steel	500
CTF-580	3,867	11,600	84" x 72" Steel	580
CTF-600	4,000	12,000	4 - 42" x 72" FRP	600

Model selection can vary based on water quality and system volume.

Options such as stainless tanks along with dual pumps and various control options are available upon request. Contact EasyWater or local rep for more information.

<sup>1</sup> Total cooling tower tons based on peak load. <sup>2</sup> Total cooling tower GPM based on 3gpm/ton.