

CASE STUDY: 140 First St Medical Labs



EasyWater Model CTF-425-S System installed for 140 First Street - Medical Labs

COOLING TOWER TREATMENT SYSTEM FOR LARGE MEDICAL LAB BUILDING

Project:	140 First Street - Medical Labs	
EasyWater Rep:	New England Sales Group	
Project Engineer:	AHA Consulting Engineers	
Location:	Cambridge, MA	
Scope of Work:	2800 ton Cooling Tower	
EasyWater Equipment:	Model CTF-425-S Skid System	



A view of the dirty water in the backwash tank from the CTF sub-micron filter



Dirty water and sediment in the tower basin prior to CTF Treatment

\approx **PROBLEM**

140 First St Medical Labs, located in the East Cambridge Market, is a six-story, 238,934 square foot medical building.

They were concerned with the proximity of the discharge drift from their cooling tower system to the HVAC outdoor air inlet to the building since the water droplets could contain legionella. Consequently, the engineer contacted EasyWater for a solution.

The EasyWater CTF System was recommended to minimize legionella risk and help control:

- Scaling in the cooling tower fill and chiller condenser tubes
- Biofilm
- Dirty turbid water
- High bacteria counts

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\approx SOLUTION



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No-Salt Conditioners

In March 2023, TG Gallagher Mechanical installed the EasyWater model CTF-425-S. It is a side stream treatment system, to manage scaling, corrosion, and bacterial concerns in the cooling tower system. On March 14th, an EasyWater technician performed the startup of the CTF System.

EasyWater's CTF-425-S Cooling Tower Treatment System is a three part solution:

- 1) An EasyWater SedimentShield, sub-micron backwashing filter for the removal of sediment and bacteria
- 2) An Ultraviolet chamber for bacterial sanitization
- 3) (2) EasyWater No-Salt Conditioners to prevent and remove hard water scale deposits, biofilm, and reduce bacteria. The No-Salt Conditioners have the added benefit of preventing the hot UV lamps from scaling.



SedimentShield backwashing filtration tank



Ultraviolet touchscreen display

\approx **RESULTS**

Within just three weeks, the cooling tower bacteria count went from over 10^3 (4700 CFU/mL) down to 10° . In addition, the cooling tower sumps and fill were free of scale, algae and biofilm.

The owners of 140 First St. Labs are very pleased with the treatment results of the CTF System and intend to implement it in more facilities.

	Aerobiology Laboratory Associates, A Pace'Laboratory A Pace'Laboratory A Certificate of Analysis NJ DEP ELCP Lab 04624		North Park Drive sauken, NJ 08109 8564861177
	EasyWater	Date Collected:	3/14/2023
V. C.	9850 Las Casas Dr. Fort Myers FL, 33919	Date Received: Date Analyzed:	3/15/2023 3/15/2023
	Project: 1 CHARLES STREET, CAMBRIDGE MA	Date Reported: Project ID:	3/17/2023 23009824
	Condition of Sample(s) Upon Receipt: Acceptable		Page 1 of 2
	Client Sample #: 1 Sample Location: COOLING TOWER BASIN	Lab Sample #:	23009824-001
C	Test 2056.10 Water, Non-Potable, Heterotrophic Plate Count, SM 9215: SOP 2.5 Results: 4700 CFU/mL Comments: Collected 3-14-23 at 10:00 am; Incubated 3-15-23 at 11:00 am		d Volume: 1 mL RL: 100 CFU/mL





(6) months later, bacteria dip slides continue to show 10° bacteria count and the sump and fill continue to be free of scale and biofilm



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