

manufacturer of evaporative cooling towers

COOLWATER
TECHNOLOGIES

PRODUCT AND SERVICES GUIDE





COOL WATER TECHNOLOGIES is part of the Rosenwach family. Founded in 1866, Rosenwach has over 150 years of experience in providing cost-effective, innovative and professional products and services. Cool Water Technologies brings Rosenwach's four generations of commitment to the manufacture of advanced technology cooling towers. Cool Water Technologies installs, maintains, repairs and retrofits cooling towers made by Cool Water Technologies and all other manufacturers.

COOL WATER TECHNOLOGIES' EXPERTISE IS BUILT ON GENERATIONS OF WORK:

- Rosenwach installed, rigged, repaired and retrofitted hundreds of cooling towers. Rosenwach is the premier field assembler and installer of rigged towers.
- Through the 1970's, Rosenwach made wet deck for large refineries.
- During the 50's, 60's and 70's, Rosenwach was the largest manufacturer of wooden wet decks.

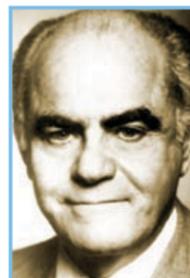
Today, Cool Water Technologies' technological advantage is built on the latest developments in controllers and real-time information systems. Our experience allows us to tailor the best made tower to your needs with the most advanced controls allowing the most efficient operation, making your tower easier to run. Most of all, Cool Water Technologies brings you the Rosenwach proven track record of service. Cool Water Technologies is on-time, knowledgeable, and cost-effective.



Harris



Julius



Wallace



Andrew



RTA SERIES
AXIAL FAN, INDUCED DRAFT
 Counter flow
 Direct Drive
 Medium to large HVAC
 Capacity 60 - 260 tons
 180 - 780 GPM
[Page 10](#)



RTCS SERIES
AXIAL FAN, FORCED DRAFT
 Cross flow
 Direct Drive
 Small HVAC
 Capacity 6 - 270 tons
 18 - 810 GPM
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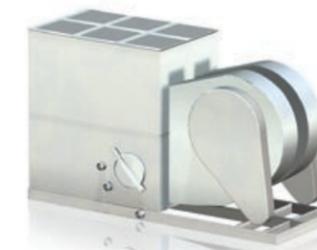
RT SERIES
AXIAL FAN, INDUCED DRAFT
 Cross flow
 Direct Drive
 Medium to large HVAC
 Capacity 200 - 1400 tons
 600 - 4200 GPM
[Page 11](#)



RTCH SERIES
CENTRIFUGAL FAN, FORCED DRAFT
 Counter flow
 Small HVAC
 Capacity 12 - 180 tons
 36 - 540 GPM
[Page 14](#)



RTC SERIES
AXIAL FAN, INDUCED DRAFT
 Cross flow
 Direct Drive
 Medium to large HVAC
 Capacity 120 - 440 tons
 360 - 1760 GPM
[Page 12](#)



RTCF SERIES
CENTRIFUGAL FAN, FORCED DRAFT
 Counter flow
 Small HVAC
 Capacity 16 - 280 tons
 48 - 840 GPM
[Page 15](#)



RTAC SERIES
AXIAL FAN, INDUCED DRAFT
 Closed circuit counter flow
 Direct Drive
 Medium to large HVAC
 Capacity 60 - 260 tons
 180 - 780 GPM
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DECADES OF SERVICE MEANS WE KNOW COOLING TOWERS INSIDE AND OUT

COOL WATER TECHNOLOGIES IS TECHNOLOGY ADVANCING THE INDUSTRY

We're on the job around-the-clock, seven days a week, ensuring that towers are kept at peak performance. From piping and filtration to electrical, tower management and BMS, we go the extra mile when it comes to service. Contact your Cool Water Technologies representative today at (866) 706-7072 or go online at coolwatertech.com.



COMPREHENSIVE

Massive Mixed Use Building, Lower Manhattan

CWT moved and installed two cells of a 1500 ton cooling system. Comprehensive piping upgrade was completed before deadline.



24-7-365

Premium 40-Story Midtown Office Tower, NYC

A CWT field installation added capacity to existing infrastructure with a minimally invasive presence and timely performance.



TRUST

Large Hotel, Westchester

This busy hotel did not want a crane on site and wanted noise minimized. Field installation was accomplished on time.



INGENUITY

National TV Network Studio

CWT teams worked day and night on a long holiday weekend during summer season to replace both cells of a 3000 GPM tower while the studio kept working.



EFFECTIVE

15000 GPM Power Plant, Bronx

CWT replaced entire splash bar wet deck, rebuilt valves and installed all new louvers and stainless steel casing, all on schedule.



SKILL

50-Story Office Tower

9000 GPM field installation of supplemental tower cells. CWT completed the job within a limited window on time.



HIGH SECURITY

Midtown Office Tower

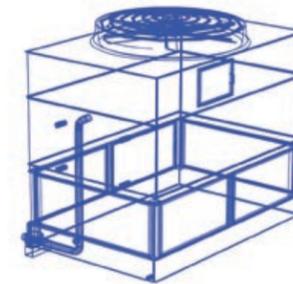
CWT installed unit under a highly regimented work procedure without disturbing occupants of a high security building on schedule.



EXPERIENCE

A-Class Office Building, Midtown

CWT cut louvers in bulkhead wall and replaced 3600 GPM tower one cell at a time while keeping the building on line.



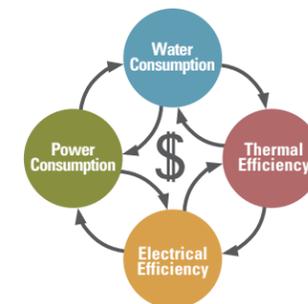
COMPUTER ASSISTED DESIGN & MANUFACTURING

CWT manufactures its towers and parts to exacting standards using state-of-the-art CAD specified plasma cutting. Our towers are pre-fit and adjusted.



MATERIALS

Using the best time-tested materials along with modern composite matrix casings and louvers means your tower is stronger, deterioration resistant and lighter while loads and stresses are reduced.



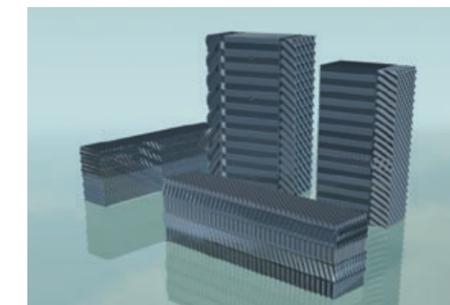
MODULAR

Results in 20% cost savings by optimizing the relationships between water consumption, thermal efficiency, electrical efficiency and power consumption.



iD CONTROL

iD cures the common VFD ills: heavy maintenance load, loss of performance, downtime, high operating costs and multiple units.



WET DECK

CoolCore fill lasts longer, keeps its rated performance longer and resists corrosion and deposits better. When used with iD tower management and CWT integrated filtration, you may actually need a smaller tower to provide the same cooling.



GREEN

Higher efficiency means less power use and more efficient use of water, lowers cost of operation and results in a cleaner environment.



CONTINUAL FILTRATION

Full integration with high-efficiency filtration minimizes corrosion and deposits and lowers static pressure. Peak efficiency is maintained throughout the life of the unit. Filter is managed via iD and never becomes a headache.



FOOTPRINT

More effective management of your tower with modern technology means you worry less, have better cooling and save on costs - all at the same size or a smaller tower than existing models. CWT will further customize designs to customer specifications.



DIRECT DRIVE

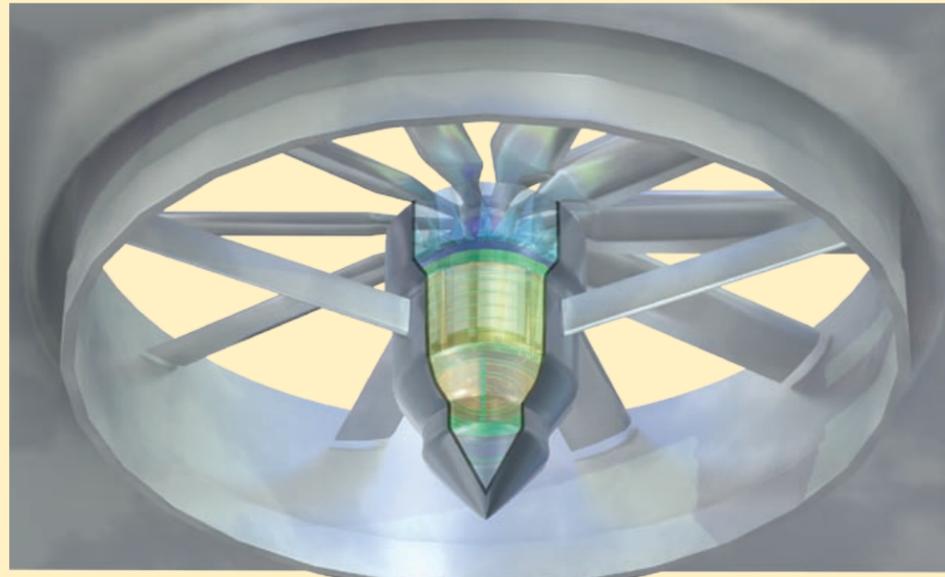
Direct Drive is more efficient than belts and pulleys, requires less maintenance and adjustment and results in less drive system failure.

DIRECT DRIVE IS MORE EFFICIENT

Direct Drive runs 7% more efficiently than belt driven. It requires less maintenance and is protected from corrosive elements.

FAN BELTS ARE A MAJOR SOURCE OF FRICTION

Fan belts lose 4 - 7% efficiency depending on the size of the motor. Add in maintenance, adjustment, replacement and stocking of replacements - belt drives cost a lot to operate. The iD Direct Drive uses half as many bearings, resulting in half as many bearing failures. Your iD Direct Drive will also last longer because there is no belt tension perpendicular to the shaft wearing out your bearings. You will have no belt dust and no belt noise. It's cleaner, quieter and overall a more stress free drive.



Start saving money today. Retrofit your existing belt drive tower.

An iD retrofit to your existing tower replaces outmoded belts and pulleys with the advanced direct drive component that minimizes wear and tear, simplifies maintenance, and saves you money by operating your tower more efficiently.

Say goodbye to: balancing, lubrication and adjusting belt tension.

The iD Retrofit is easy. Your tower will be back in service at a higher efficiency than from the original manufacturer and will continue running at lower stress points. Your savings start immediately!

ANTZ: ADVANCED NOZZLE TECHNOLOGY

ANTZ nozzles clean themselves. CWT offers standard replacement nozzles.

ANTZ nozzles are available for cross flow induced draft towers.

High quality standard replacement nozzles fit all manufacturers' towers, offering improved water flow.



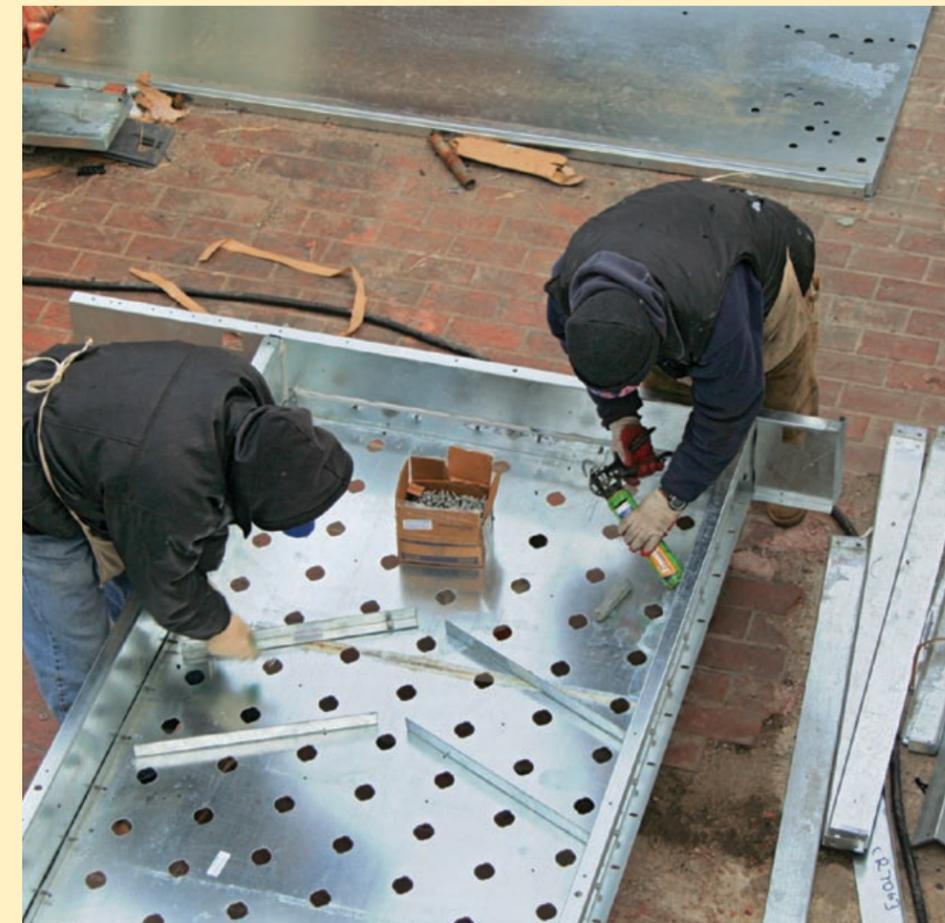
CONTROLS: iD IS THE CURE FOR VFD

iD matches VFD function but does much more. iD integrates up to 10 essential parameters to control your tower and works seamlessly with CWT's Direct Drive.

A SMARTER TOWER IS A MORE EFFICIENT TOWER

iD uses the latest embedded microprocessor technology to provide real time monitoring and control of the metrics that affect your tower.

Choose a fully integrated solution for complete tower management or the modular function you need.



MONITORS MULTIPLE DATA POINTS FOR OPTIMAL PERFORMANCE AND ENERGY CONSERVATION.

WIRELESS: we can monitor your tower in our central office.

PERMITS REMOTE OPERATION UP TO ONE MILE.

HANDLES MULTIPLE FANS.

INTEGRATES WITH BMS. iD is Backnet compatible.

ACTIVE DSP. Minimizes building wire and cable.

COMPATIBLE WITH ALL TYPES OF TOWERS.

FULLY INTEGRATED SYSTEM INCLUDES:
 Variable speed of fan (up to 4 motors)
 Make-up water shut off
 Hi-low levels in the cold water basin
 Temperature of the cold water basin
 Motor vibration
 Chemistry
 Turbidity
 Static pressure
 Tower efficiency

MODULAR SOLUTIONS ARE ALSO AVAILABLE. In cases where only a specific parameter is required, single modules provide exactly the functionality required.

LOW VOLTAGE.

ALL MODELS 'TALK' TO EACH OTHER.

SENSOR IS UL LISTED.

ALL MODELS RESIST SALT AIR CORROSION.

iD COMMUNICATES WITH THE CHILLER.



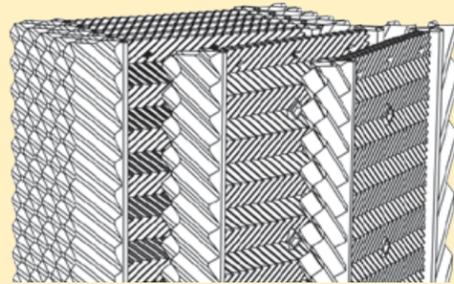
WET DECK: WHERE THE WATER MEETS THE AIR

CoolCore High Performance Fill keeps CWT towers at top performance. It spreads water for maximum heat transfer, minimizes drift and water loss and excessive power consumption.

We offer direct replacement styrene fill or CoolCore's composite matrix fill for CWT or other manufacturers' towers.

A complete fill solution for CWT and all manufacturers' towers.

CoolCore fill assures you of maximum cooling at installation and long term. Our fills are 0.15 mil, specified for the full range of water grades, with Vertical, Offset Vertical, Cross fluted and Herringbone configurations, in a full selection of sheet spacings, bottom supported packs and hanging sheets.



C-1 CROSS FLUTED COUNTER FLOW

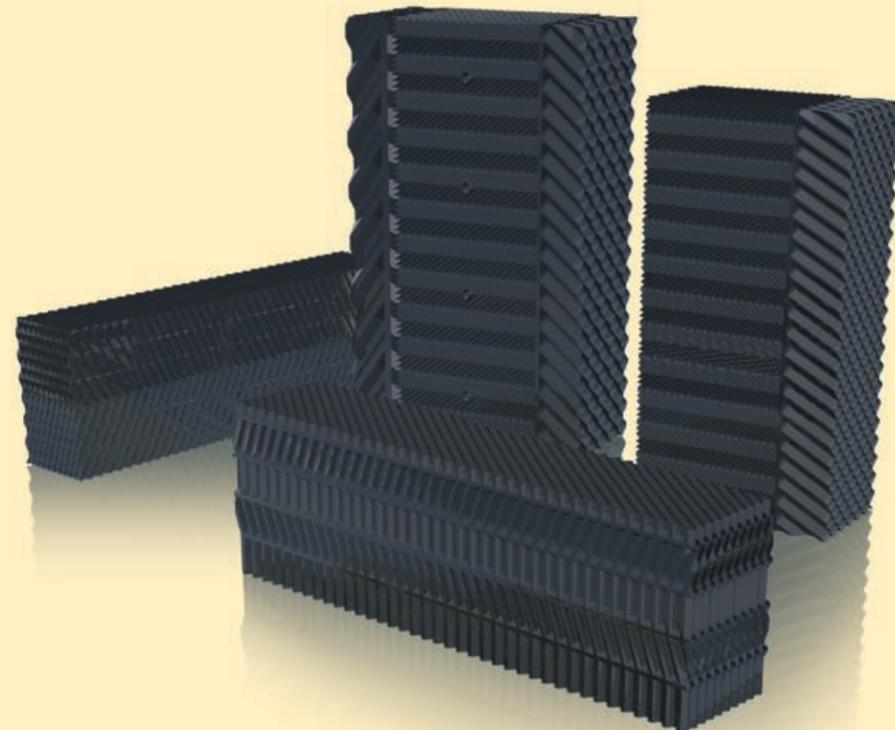
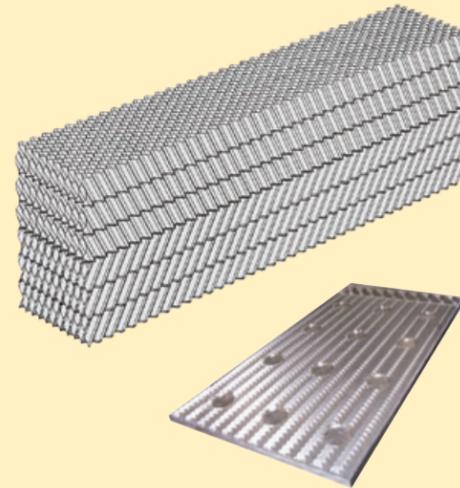
Provides maximum thermal performance where water quality is good.

- Pressure drop is minimized while maintaining thermal performance.
- Offered in a range of channel sizes to permit lower quality water, while maintaining very high thermal performance.

H-2 HERRINGBONE CROSS FLOW

A high quality hanging sheet fill available with integral drift eliminators and louvers.

- The herringbone design maximizes heat transfer.
- Available in all sizes and sheet spacings to use with any cooling tower and most water conditions.
- Easy installation; no separate purchase and installation of louvers and drift eliminators required.



STATE-OF-THE-ART FEATURES • EXCELLENT BUILD QUALITY

CWT towers are built to excel under the toughest conditions.

MATERIALS

Composite Matrix or Heavy Duty G235 (Z700 metric) galvanized steel construction casing and louvers are standard. Optional 304 Stainless Steel construction for extreme environments. UBC 1997, importance factor 1.0 and specified to Seismic Zone 2B conditions and 30 psf winds anchorage requirements.

CONSTRUCTION

The structural integrity of the framing and internal construction is optimized through expert installation by the experienced CWT team to satisfy the most demanding locations. Optional seismic and wind rated construction.

COLD WATER BASIN AND HOT WATER BASIN

Galvanized 235 Steel. Stainless Steel 304 welded pans are optional for extreme conditions. Easy-Clean Sloped Basin Design and adjustable non-ferrous make-up valve permit easy adjustment for trouble free control of the water level. The water outlet operates to ensure the unrestricted flow of water in the system with strainers of smaller tolerance than the distribution nozzles. The CWT anti-vortex design prevents air entering from the system. The water outlet connection is compatible with welded or mechanical coupling.

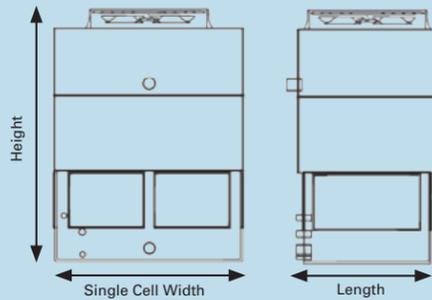
MAINTENANCE

Hinged Access doors are provided for convenient access to the plenum section for inspection or maintenance. Options include handrailing around the top of the tower, external ladder with safety cage to the base of the tower and to the top of the tower and an internal grated walkway with ladder leading to the motor and fan mechanism.



RTA SERIES

counter flow • induced draft • medium to high capacity
provides maximum cooling with cold weather tolerance



BASIC MEASUREMENTS

The RTA Series is available in sizes from 60 - 260 nominal tons (single cell) up to 520 nominal tons (double cell), 190 to 1600 GPM. All standard box sizes are available. Full range of standard sizes and footprint available in specification sheet. CWT will custom design and fabricate for sizes outside this range.

FIELD AND FACTORY INSTALLED



MODULAR DESIGN

The RTA Series is designed in modular sections to minimize weight and size and reduce crane installation costs.

VERTICAL DESIGN

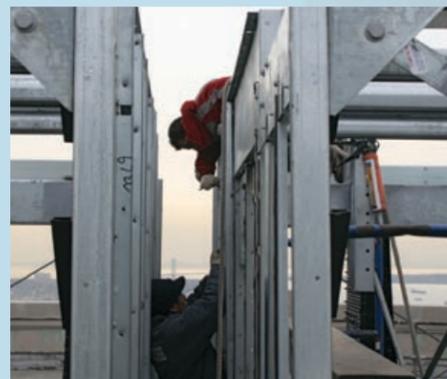
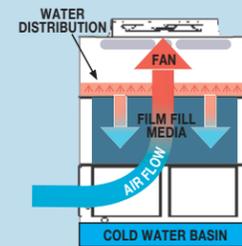
Air recirculation is minimized by vertical design.

ALL-SIDE ACCESS

Access to the cold water basin is on all four sides of the tower via quick release louvers panels.

NO-VORTEX STRAINER

Prevents turbulence and provides smooth water exit.



THESE TOWERS FEATURE:

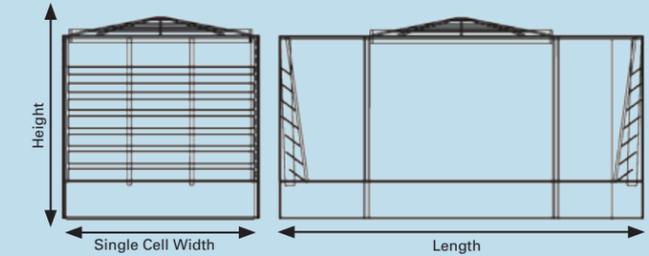
iD Intelligent Control

Direct Drive

Galvanized or stainless steel cold water basin

RT SERIES

cross flow • induced draft • medium to high capacity
provides maximum cooling with easy maintenance



BASIC MEASUREMENTS

The RT Series is available in sizes from 200 nominal tons (single cell) up to 1400 nominal tons (double cell), 600 - 4200 GPM. All standard box sizes are available. Full range of standard sizes and footprint available in specification sheet. CWT will custom design and fabricate for sizes outside this range.

FIELD AND FACTORY INSTALLED



MODULAR DESIGN

The RT Series is designed in modular sections to minimize weight and size and reduce crane installation costs.

FRAME CONSTRUCTION

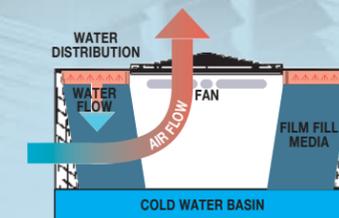
The RT Series is frame constructed for increased durability and longer service life.

ANTI-CLOGGING NOZZLES

Wet deck is equipped with large orifice anti-clogging nozzles.

STAINLESS STEEL SUCTION STRAINER

Standard stainless steel suction strainer is part of the Cool Water Technologies Total Protection Layer to eliminate corrosion and decay.



Intelligent Water Distribution System

Heavy Duty Construction: composite matrix, stainless steel and galvanized options

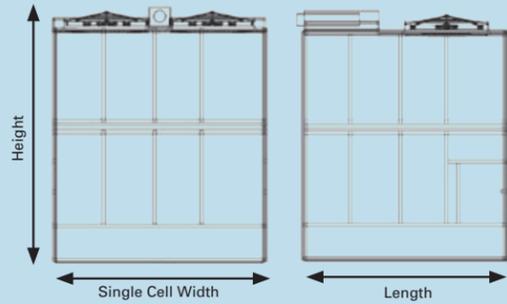
10 Year Motor and Drive Warranty

CoolCore Sheet and Block Fill offers superior heat transfer and withstands corrosion and biological attack

Factory tested in accordance to CTI standards

RTC SERIES

cross flow • induced draft • medium capacity
provides maximum cooling and easy maintenance with single-side flexibility



BASIC MEASUREMENTS

The RTC series is available in sizes from 120 - 440 nominal tons (single cell) and up to 880 nominal tons (double cell), 384 - 2640 GPM. All standard box sizes are available. Full range of standard sizes and footprint available in specification sheet. CWT will custom design and fabricate for sizes outside this range.

FIELD AND FACTORY INSTALLED



MODULAR DESIGN

The RTC Series is designed in modular sections to minimize weight and size and reduce crane installation costs.

FRAME CONSTRUCTION

The RTC Series is frame constructed for increased durability and longer service life.

ANTI-CLOGGING NOZZLES

Wet deck is equipped with large orifice anti-clogging nozzles.

STAINLESS STEEL SUCTION STRAINER

Standard stainless steel suction strainer is part of the Cool Water Technologies Total Protection Layer to eliminate corrosion and decay.

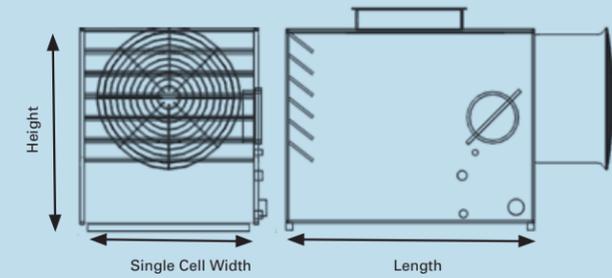


THESE TOWERS FEATURE:

- iD Intelligent Control
- Direct Drive
- Galvanized or stainless steel cold water basin

RTCS SERIES

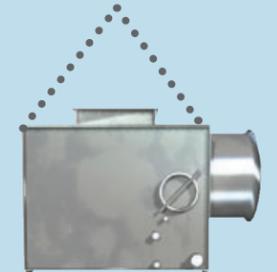
cross flow • forced draft • medium capacity
provides maximum cooling and easy maintenance with single-side flexibility



BASIC MEASUREMENTS

The RTCS Series is available in sizes from 6 - 270 nominal tons, 18 - 810 GPM. All standard box sizes are available. Full range of standard sizes and footprint available in specification sheet. CWT will custom design and fabricate for sizes outside this range.

FIELD AND FACTORY INSTALLED



ONE STOP INSTALLATION

May be installed completely assembled with mounted motor and make-up system.

FRAME CONSTRUCTION

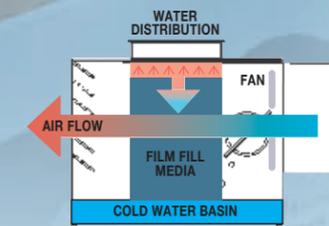
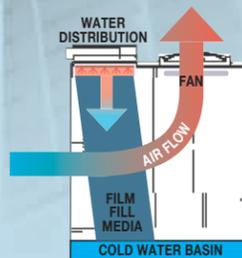
The RTCS Series is frame constructed for increased durability and longer service life.

ANTI-CLOGGING NOZZLES

Wet deck is equipped with large orifice anti-clogging nozzles.

STAINLESS STEEL SUCTION STRAINER

Standard stainless steel suction strainer is part of the Cool Water Technologies Total Protection Layer to eliminate corrosion and decay.



Intelligent Water Distribution System

Heavy Duty Construction: composite matrix, stainless steel and galvanized options

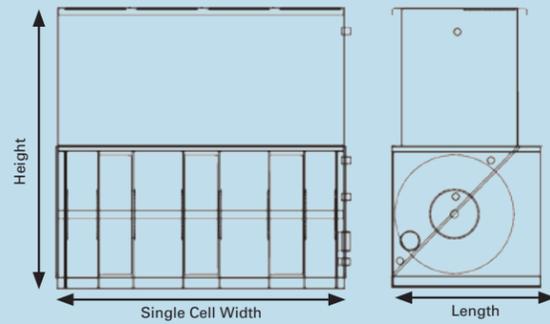
10 Year Motor and Drive Warranty

CoolCore Sheet and Block Fill offers superior heat transfer and withstands corrosion and biological attack

Factory tested in accordance to CTI standards.

RTCH SERIES

counter flow • forced draft • medium capacity
provides maximum cooling with indoor and outdoor flexibility



BASIC MEASUREMENTS

The RTCH Series is available in sizes from 12 - 180 nominal tons, 36 - 540 GPM. All standard box sizes are available. Full range of standard sizes and footprint available in specification sheet. CWT will custom design and fabricate for sizes outside this range.

FIELD AND FACTORY INSTALLED



MODULAR DESIGN

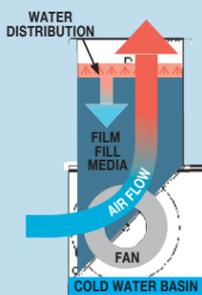
The RTCH Series is designed in modular sections to minimize weight, size and reduce crane installation costs.

SINGLE SIDE AIR INTAKE

Accommodates sound-sensitive locations.

CENTRIFUGAL FAN

Low sound and extra power overcomes static pressure for external ducting, permitting indoor use.

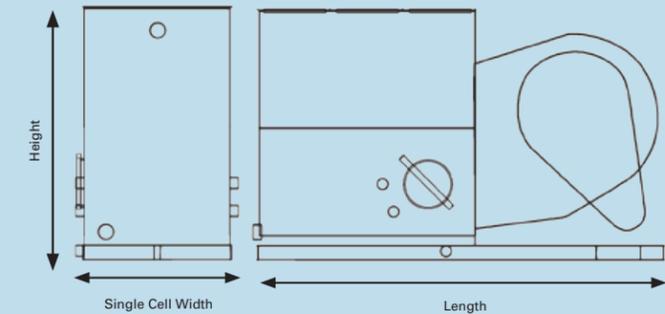


THESE TOWERS FEATURE:

- iD Intelligent Control
- Direct Drive
- Galvanized or stainless steel cold water basin

RTCF SERIES

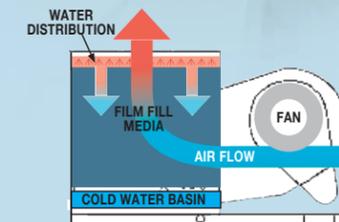
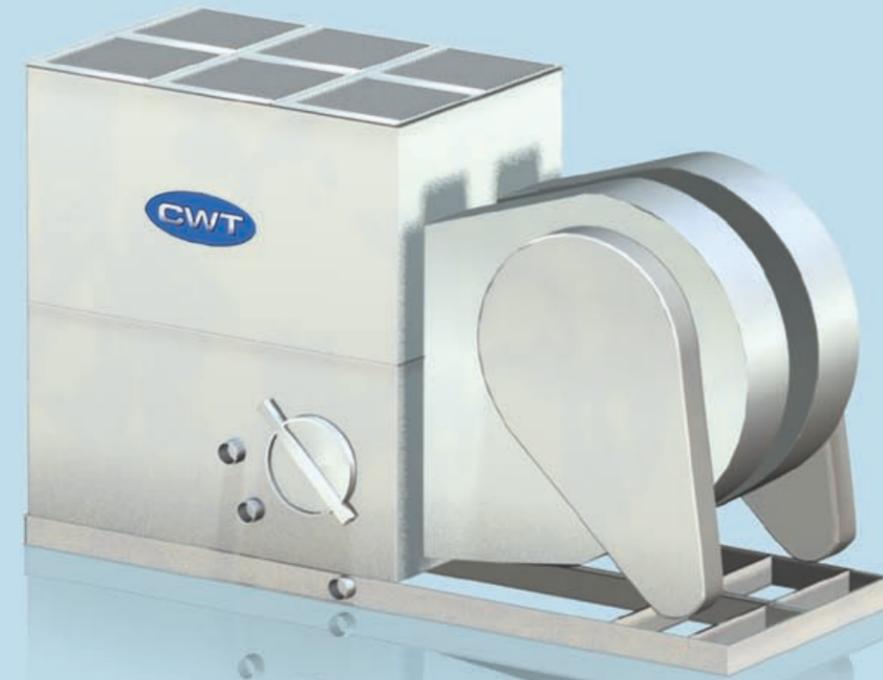
counter flow • forced draft • medium capacity
provides maximum cooling with indoor and outdoor flexibility in a different footprint



BASIC MEASUREMENTS

The RTCF Series is available in sizes from 16 - 140 nominal tons (single cell) and up to 72 - 280 nominal tons (double cell), 48 - 840 GPM. All standard box sizes are available. Full range of standard sizes and footprint available in specification sheet. CWT will custom design and fabricate for sizes outside this range.

FIELD AND FACTORY INSTALLED



MODULAR DESIGN

The RTCF Series is designed in modular sections to minimize weight, size and reduce crane installation costs.

CENTRIFUGAL FAN

Low sound and extra power overcomes static pressure for external ducting, permitting indoor use.

CIRCULAR ACCESS DOOR

Intelligent Water Distribution System

Heavy Duty Construction: composite matrix, stainless steel and galvanized options

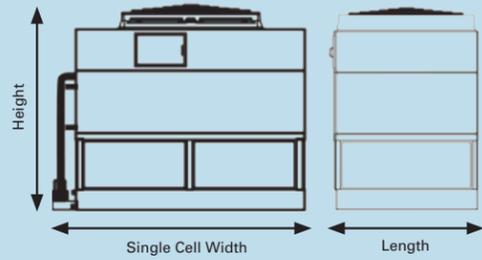
10 Year Motor and Drive Warranty

CoolCore Sheet and Block Fill offers superior heat transfer and withstands corrosion and biological attack

Factory tested in accordance to CTI standards

RTAC SERIES

closed circuit counter flow • induced draft
medium to high capacity offered in models with and without fill



BASIC MEASUREMENTS

The RTAC Series is available in sizes from 60 - 260 nominal tons, 180 - 780 GPM, with a range of weights, sizes and flows. Full range of standard sizes and footprint available in specification sheet.

FIELD AND FACTORY INSTALLED



MODULAR DESIGN

The RTAC Series is designed in modular sections to minimize weight and size and reduce crane installation costs.

ANTI-CLOGGING NOZZLES

Wet deck is equipped with large orifice anti-clogging nozzles.

VERTICAL DESIGN

Air recirculation is minimized by vertical design.

ALL-SIDE ACCESS

Access to the cold water basin is on all four sides of the tower via quick release louver panels.

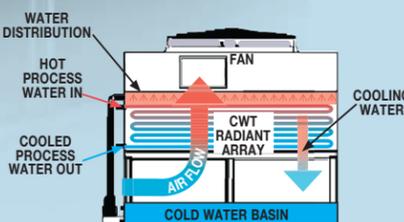
CWT RADIANT ARRAY

For maximum heat transfer with minimum air resistance and best durability in its class.



THESE TOWERS FEATURE:

- iD Intelligent Control
- Direct Drive
- Galvanized or stainless steel cold water basin
- Intelligent Water Distribution System
- 10 Year Motor and Drive Warranty



Heavy Duty Construction: composite matrix, stainless steel and galvanized options

CoolCore Sheet and Block Fill offers superior heat transfer and withstands corrosion and biological attack

Factory tested in accordance to CTI standards.



WATER, TOWER AND MEDIA CLEANING

Greenclean Chem 1 and Chem 2 clean your water, tower surfaces and media for optimal performance and lower power costs and water consumption.

GREENCLEAN CHEM 1 TREATS AND CONSERVES WATER

Chem 1 offers the double benefit of providing the water treatment you need to care for system machinery and in the process satisfying the government's goal of reducing the harmful environmental impact of your water treatment program.

Chem 1 incorporates advanced high strength bonding materials and custom formulates them to a single feed treatment. This extra-strong bonding ability allows us to operate cooling towers at 40-100 cycles of concentration. An increase in the cycles of concentration means a decrease in water consumption and reduced charges - a "win-win" situation for all concerned.

Cooling towers use millions of gallons of water. A large percentage of the water used is dumped into the environment as chemical-laden bleed wastewater. The advanced technology of WCS performs beyond the typical scale and corrosion inhibitor by removing existing scale deposits without system downtime. Consequently, using extremely high levels of concentration more efficiently uses water by reducing bleed water discharge; excessive bleed-off costs are a thing of the past.



GREENCLEAN CHEM 2 PREVENTS SEVERE SCALING AND FOULING OF TOWER AND FILTER MEDIA SURFACES.

GREENCLEAN

Your solution for cleaning tanks, cooling towers, piping and filtration media

THE CONVENIENT AND SAFE SOLUTION TO:

- Chlorine Residual Decline
- Elevated DBPs (TTHMs, HPC)
- Increased Turbidity
- Inefficient Inspections
- Coating Deterioration
- Increased Corrosion

Traditional cleaning methods are inefficient.

GREENCLEAN IS CERTIFIED FOR USE IN DRINKING WATER FACILITIES:

- Thoroughly removes surface deposits such as iron, manganese, fungi, algae and bacteria.
- Works on wood, steel, concrete and fiberglass.
- An NSF 60*-certified, spray-on and rinse-off application.
- Can be done on a regular maintenance schedule.

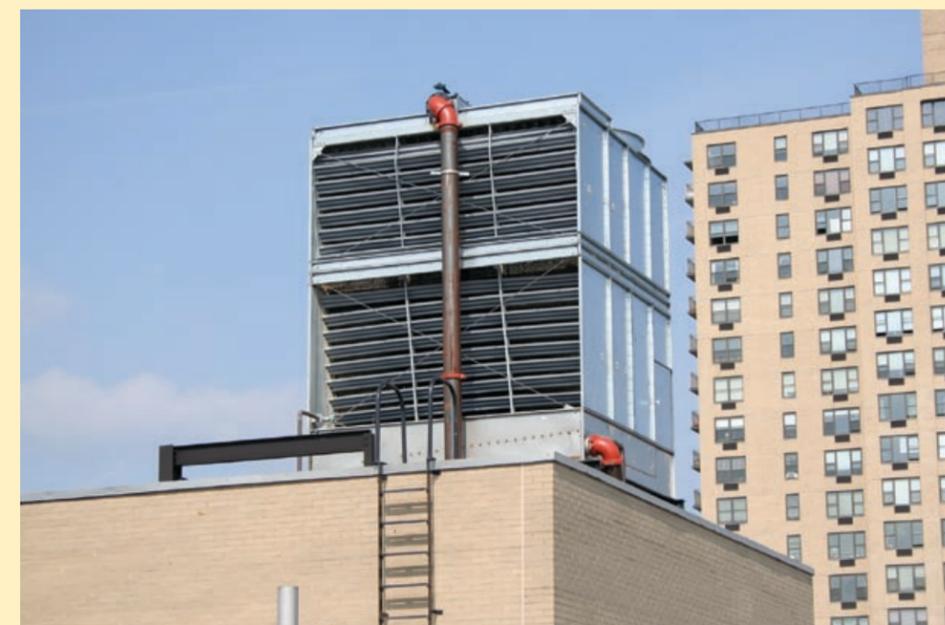


PLATE HEAT EXCHANGER SERVICES

Cool Water Technologies provides PHE's for new plant construction, expansion of existing production lines and replacement of existing units.

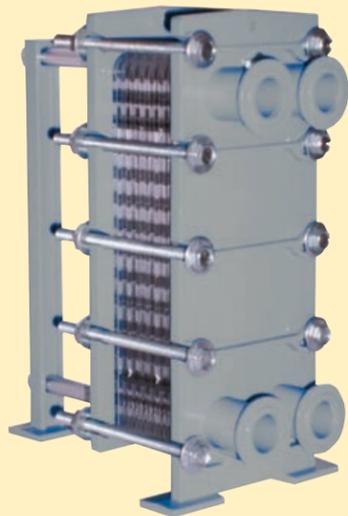
SINGLE SOURCE SERVICE

Cool Water Technologies technicians will evaluate your requirements and specify the exact size and capacity required. We set the standard in rapid delivery of new units. We will help you ensure that your facility is ready for the installation when the new units arrive.

ZYGLOW TESTED

WE HAVE PLATE HEAT EXCHANGER UNITS AVAILABLE FOR:

- Beverage Industry
- Industrial Production
- Ethanol Production
- Chemical Production
- Hotels, Hospitals & Commercial Buildings
- Refinery Applications
- Power Plants
- Steel Industry
- Many more



CLEANING: QUICK, COST EFFECTIVE AND RELIABLE

Ship your entire heat exchanger unit to us. We will remove, clean, Zyglow test and regasket your plates and frames. After reassembly, your unit will be hydrotested on each side.



OUR NON-ABRASIVE CLEANING PROCESS restores your plates by removing product buildup and water deposits.

PLATES ARE POWER-WASHED between each step in our refurbishment process.

EVERY PLATE IS TESTED WITH OUR ZYGLOW SYSTEM to ensure there are no cracks or pinholes. Early detection of plate defects eliminates cross-contamination concerns and saves you costly down-time.

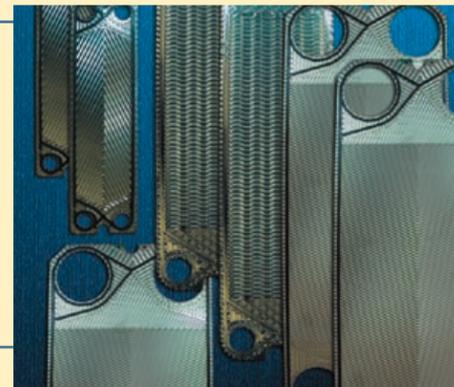
THE CLEAN AND TESTED PLATES ARE FITTED WITH NEW GASKETS. We carefully select the proper adhesives for your needs and ensure trouble free service by cleaning and preparing each gasket individually prior to bonding.

THE PLATES ARE THEN HEAT CURED at over 300 degrees Fahrenheit in our large ovens, assuring a tight bond between the gasket and plate.

FIELD SERVICE

As a part of our scope of service, we offer a range of different service contracts meeting your specific needs. This includes:

- Site surveys
- Trouble shooting
- Emergency field service
- Programmed field service



FILTER SERVICES

Cleaner water means a cleaner tower, cooler water and significant savings. CWT provides the best clean water solutions in the field.

SELF-CLEANING LOW MAINTENANCE LOW WATER CONSUMPTION NO MEDIA REQUIRED

CWT Spin Clean brings disc filtration technology to the cooling tower industry. Disc filtration technology uses specially designed grooved discs to create valleys between each disc to trap solids. Cleaning is accomplished when the discs are separated and water is backflushed through them, removing the solids. The process can be automated and consumes low water and low energy.

- Uniquely efficient
- Precise particle separation
- Innovative filter design captures and stores large amount of solids
- Low energy and water consumption
- Long-term operation with minimal maintenance
- Operation is easy and requires no filter media replacement
- Continuous flow during backwash
- Corrosion free
- Scalable modular system
- Can be used where backwash filters get blocked



CWT SPIN CLEAN FILTERS

SUB-MICRONIC CLEANING SCALABLE INSTALLATIONS SELF-CLEANING LOW MAINTENANCE

CWT media filter is the most innovative filter available today. Total fluidization of the media during backwash allows more thorough cleaning of the media and allows Pep to use finer grains, taking retention to sub-micronic levels.

- Flows to 178 GPM per vessel
- Single and multiple vessel systems
- Particle retention to 0.5 micron
- 90 second backwash cycle
- 100% media fluidization during backwash
- Patented fluidization system
- Patented vessel geometry facilitates backwashing and minimizes dead areas in vessel



CWT MEDIA FILTERS

COOL WATER TECHNOLOGIES OFFERS EXCHANGE PROGRAMS, INVENTORY MANAGEMENT AND TECHNICAL ASSISTANCE:

- Comprehensive Refurbishment and Leak Detection Services
- Emergency Services Available
- Plate Pack Exchange Services
- On-site Removal and Re-installation of plate packs, optional Hydro-Testing
- New and Used Plate Inventory
- Exclusive US Distributor of Thornhill, UK Gaskets
- Comprehensive Gasket Inventory Available
- Innovative Maintenance Program
- PHE Consulting and Analysis

RESTORATION SERVICES

Rebuild your tower for as little as 1/3 the cost of a new tower. Write off costs immediately as a maintenance expense. Recover lost cooling capacity and regain your cost efficiency.



CWT guarantees maintaining your tower's designed thermal performance. Your tower may exceed its original performance while running cheaper with new technologies such as Cool Water Technologies' iD.

THE BEST WORKFORCE AVAILABLE

All skills and crafts are represented, so all your tower needs are available, from sheet metal work to comprehensive piping improvement, demolition and cleaning, protective coatings, thermal assessment, and replacement or improvement of tower controls.

THE BEST TECHNICAL BASE AVAILABLE

Cool Water Technologies is continually inventing and improving tower performance, design and function. We are a fast moving company that realizes that innovation is the key to better service.

THE BEST KNOWLEDGE BASE AVAILABLE

We maintain an extensive database of years of cooling tower work. That means proven solutions are at your fingertips.

SPECIAL PARTS FABRICATION

CUSTOM FITTINGS ARE NO PROBLEM

We make the full range of specialty parts including custom fittings according to your specifications.



PARTS DEPARTMENT

CWT provides specification state-of-the-art replacement parts for induced draft towers and forced-draft centrifugal towers at highly competitive prices.



PILLOW BEARINGS

- Supplied complete with all necessary hardware including shims, flingers and installation instructions
- Optional extended lube line
- Sizes to match all manufacturers' towers



FORCED AIR FAN ASSEMBLIES

- Replace your corroded housing or the entire fan
- Complete with all necessary housing to match any forced air tower
- Galvanized or stainless steel



CWT STRAINERS

- Long lasting construction of 304 gauge stainless steel (corrosion resistant) or galvanized steel
- Anti-cavitating design
- CWT stocks Strainers for all popular towers
- CWT will custom design and fabricate strainers as needed



SOLID AND SHAFTS

- Steel or stainless steel
- Available separately or in Shaft Kits complete with bearings, bushings, hardware, rust inhibitor and installation instructions



MOTORS

- Epoxy surface coating
- Triple dipped and baked windings
- 5 or optional 10 year warranty
- Double sealed bearings



MECHANICAL AND MOTORIZED BUTTERFLY VALVES

- Epoxy coating
- Extended neck for piping insulation
- Sizes 12 - 36"
- Compatible with all major manufacturers' towers
- Primary and secondary seals



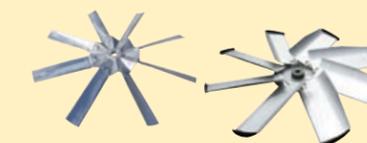
BUSHINGS

- To fit all drive systems
- Corrosion resistant finish



WHEELS

- To fit all sizes of all towers



FANS

- Aluminum Airfoil Blade
- Adjustable pitch
- Available in all diameters



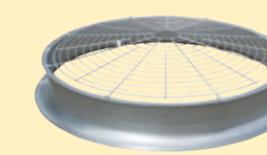
SHEAVES

- Aluminum-impervious to moist air environment
- Individually Balanced



POWERBAND AND V BELTS

- Overspecified to 150% of motor horsepower
- Neoprene with polyester cords



INDUCED DRAFT FAN SCREENS

- Galvanized or stainless steel
- Fits all induced draft models

WARRANTY

CWT 10 YEAR/NDL

The CWT towers, Direct Drive, CoolCore and iD control systems are warranted against wear and tear (save for Acts of God / natural disasters) for a period of ten (10) years provided United Tower (the CWT service department company) cleans and maintains the tower annually at an additional charge. CWT and related companies are not responsible for property or consequential damages that may arise as a result of this work.



THERMAL PERFORMANCE GUARANTEE

COOL WATER TECHNOLOGIES GUARANTEE OF THERMAL PERFORMANCE

Cool Water Technologies unequivocally guarantees the thermal performance of its equipment as shown on the certified drawings, when the equipment is installed in accordance with good engineering practice. If after installation and start-up there is any question regarding thermal performance of the equipment, at the

owner's request, Cool Water Technologies will send its engineers to the jobsite to conduct a performance test. This test may be observed by the owner and the consulting engineer or their authorized representatives. If the results of the evaluation show the equipment to be deficient, Cool Water Technologies will make the necessary repairs or alterations

to correct the deficiency at no cost to the owner. If the equipment is found to be performing in accordance with its certified drawing, the owner is expected to reimburse the company for its costs associated with this performance test.

COMPANY SERVICE OVERVIEW



INSTALLATION

Four generations of New York installation experience equalling thousands of installations, repairs and retrofits.



MAINTENANCE

Experience with all major manufacturers' towers and custom installations.



RESTORATION

Making old towers better than new with state-of-the-art Cool Water Technologies parts.



MANUFACTURING

With a 40,000 square foot facility, we are the only tower manufacturer that makes our own advanced controls, wet deck and towers in a quality controlled, in-house setting. Since our towers are locally manufactured in New York, Tri-State area customers pay no long distance freight charges.



TOWER CONTROL SYSTEMS

The latest DSP Smart-Tower feedback systems keep your towers running optimally, preventing problems before they occur.



40-25 Crescent Street, Long Island City, NY 11101
Tel: (718) 729.4900 • Toll Free: (866) 706.7072 • Fax: (718) 482.0661
coolwatertech.com