

# Calloway

## QUARTERLY

### Tyco **HEAT TRACING** Offers Multitude of Commercial Solutions

Calloway Engineered Systems is pleased to announce that as of April 2008 it represents Tyco Commercial Heat Tracing Products throughout Georgia. This is a natural progression for Calloway Engineered Systems, who has been representing Tyco TraceTek systems for several years. As former regional sales representative for Raychem which was bought out by Tyco in 1999, Caroline Calloway already has many years of experience with Raychem heat tracing products. Below is a summary of the product applications that Calloway Engineered Systems can now assist you with:

#### Hot Water Temperature Maintenance

Raychem's HWAT® system is a simple, reliable alternative to recirculation systems. In many cases, HWAT is more cost effective in terms of materials cost, operating costs, and water usage. Calloway Engineered Systems can help you determine if this alternative is the right choice for your application.

#### Roof & Gutter De-Icing

For facilities concerned with ice build-up or even standing water on roofs or in gutters, Raychem IceStop® is an excellent precautionary design measure. Its low operating temperature makes it safe for all roofing materials, including modern membrane roofs.

#### Freezer Frost Heave Prevention

Frozen soil beneath floors of cold rooms or freezer rooms can lead to costly structural damage.

Tyco offers two products that help facilities avoid this problem, Raychem Raysol® and Pyrotenax MI heating cables. These products are installed under the freezer floor insulation to prevent damage.

#### Pipe Freeze Protection and Flow Maintenance

Raychem XL-Trace self-regulating heating cable offers a cost effective solution for facilities in need of freeze protection for water and sprinkler pipes. It also keeps grease and fuel lines free flowing. Because XL-Trace® is self-adjusting in re-

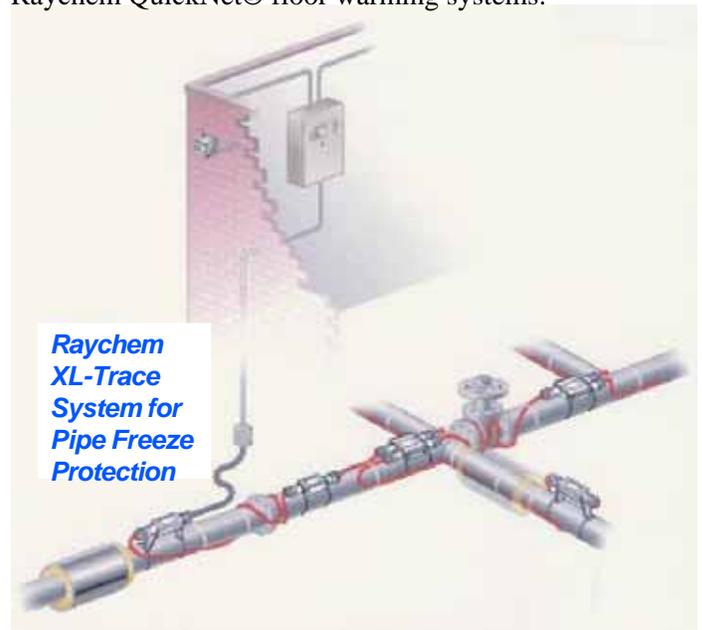
sponse to ambient temperatures, energy consumption is kept to a minimum.

#### Surface Snow Melting & Anti-Icing

Keeping outside surfaces free of ice and snow is non-negotiable for many facilities. Pyrotenax MI and Raychem ElectroMelt snow melting systems keep sidewalks, stairways, driveways, parking garage ramps, loading docks, store entryways, and other areas free of snow and ice accumulation. Pyrotenax MI provides constant wattage while ElectroMelt is self-regulating so it automatically adjusts power output in response to concrete temperatures. Calloway Engineered Systems can help determine which is the most cost effective solution for you.

#### Floor Heating

Commercial facilities such as hotels and garages often have unique heating needs which can only be met with localized floor heating. Tyco offers multiple solutions in this category so that no matter how small or large the application, there is a product to meet your client's needs. Floor heating products include Pyrotenax MI, Raychem RaySol, and the Raychem QuickNet® floor warming systems.



## New Modulex A Perfect Fit for **HIGHRISE** Installations

The latest enhancements to AERCO's Modulex line of condensing boilers make this uniquely versatile product accessible to a whole new application market: high rise buildings.

Recent updates, which comply with the very latest ASME codes for aluminum boilers, include a higher working pressure (up to 92 psig) and larger water inlet/outlet connections (2-12" NPT). As a result, the Modulex boiler, which combines between two and seven independent, 151,000 BTU/hr. thermal modules, is now very well suited for high rise applications, such as dormitories, hotels, condominiums, etc.

The Modulex is an attractive hydronic heating option for both new and retrofit applications. In existing retrofit applications the Modulex has been shown to increase boiler system efficiency by over 20%. (See the August issue of *Consulting-Specifying Engineer*). This is largely due to the high efficiency of the Modulex, as high as 96%. The built in 3:1 turn-down ratio of *each thermal module* results in a highly incremental firing rate so the boiler precisely matches load without cycling or temperature overshoot. Available in six different sizes, the Modulex offers precise modulation capabilities from 6:1 to 23:1 turndown.

### Redundancy Without the Extra Equipment

Because of the modular design, the Modulex enables engineers to specify equipment that provides back up without having to specify a lot of additional capacity. Each module has its own controller, fan, modulating gas valve, electronic ignition, modulating burner, and flow temperature sensor.



### What's **NEW** AERCO About Modulex Boilers?

- Maximum allowable working pressure is 92 psig.
- Two relief valve options are available: 90 psig and 50 psig
- Larger water manifolds (2-1/2" NPT round pipes compared to 2" square pipes result in lower water pressure drops.
- Increased manifold sizes, for improved flow balancing. This eliminates the need for a reverse-return configuration of water manifolds inside the boiler, so the supply and return water manifold are both straight pipes.

So, if one module fails or requires servicing, the other modules in the unit continue to operate so system load is maintained.

Each Modulex unit is also equipped with a Boiler Communications Module that supports full interoperability to Building Automation Systems via Modbus protocol to make remote communications and control possible. This includes a remote alarm contact to notify customers of faults detected within any of the boiler's thermal modules. In addition, the BCM automatically takes over operation of the boiler should the boiler's master controller stop working.

### Something **ELSE** to Think About...

Centralized heating systems, such as

those used on school or hospital campuses are often problematic to upgrade, particularly if distribution piping has become damaged. The Modulex offers an excellent retrofit for these facilities because it frees a facility from the expense, inefficiency, and upkeep of an old, leaking distribution system. At the same time, its small size, makes it easy to locate when decentralizing a boiler system. Available with low NOx emissions, it is also the perfect solution for facilities concerned with lessening their environmental impact.

For more information about the Modulex boiler, contact Caroline Calloway, or go to [www.AERCO.com](http://www.AERCO.com).