

# Hospitality

Comprehensive asset management  
& revenue enhancement capabilities



  
**Taco**  
*Comfort Solutions*<sup>®</sup>  
A Taco Family Company

As a global leader in **Comfort Solutions**, Taco has developed a unique and comprehensive program for the hospitality industry, designed to maximize guest comfort, and decrease operating costs.

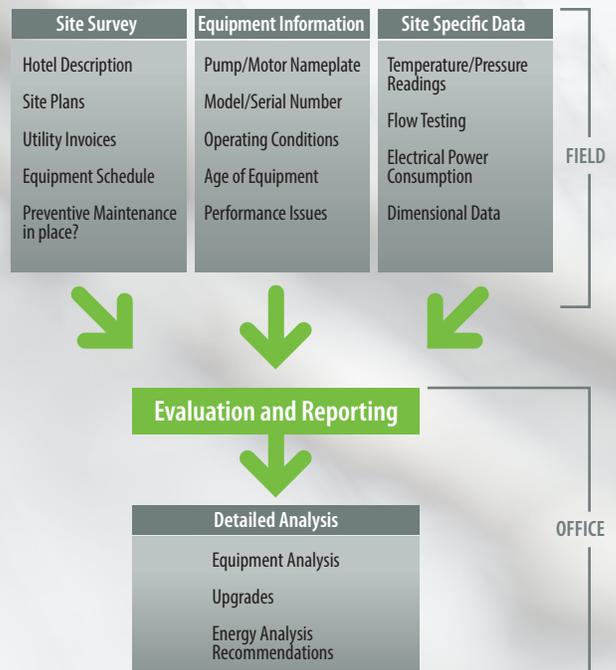
Taco Comfort Solutions takes a unique approach to the industry’s primary objectives of enhanced guest comfort, higher occupancy rates and revenue. We accomplish this by a variety of services to assist management in the analysis and optimized utilization of a property’s energy resources, mechanical equipment and capital improvement budget.

**Data Points to Help in Investment Analysis**

Taco has developed a multi-faceted program that provides a suite of services designed to analyze and assess a property’s overall system performance in meeting guest needs, while providing owners with concrete data to assess the viability of investing in system improvements or replacements. We can assist in engineering evaluations that quantify system efficiency levels, and provide professional guidance in the selection of products or services designed to improve property revenue.

Taco’s corporate team of application engineers, combined with an extensive national network of field service engineers, can help analyze a building’s performance through a comprehensive review of plumbing, mechanical and building control systems. More than a simple energy analysis, Taco’s services can also pinpoint common problems such as domestic hot water supply issues, guest room HVAC modernization, potential mold problems and system pumping. We can also provide air system analysis for recommendations on improving overall property efficiencies as well as enhancing guest comfort.

**Mechanical Systems Energy Analysis**





The image shows a modern hotel room. In the foreground, a bed is neatly made with white linens and several pillows. A dark headboard is visible behind the bed. To the right, a large window is covered with light-colored, sheer curtains. A unique, elongated, teardrop-shaped pendant lamp hangs from the ceiling, casting a warm glow. The walls are dark, and there is a framed picture on the wall above the headboard.

### **More Revenue from Your Property**

In today's competitive hospitality industry, deriving more revenue from a property is critical. This can be accomplished by increasing occupancy rates, decreasing expenses or a combination of these two key contributors that make up the "bottom line".

Taco has focused on both of these aspects of property ownership. Our team of experts can help you evaluate ways to increase guest comfort. Increased guest comfort results in repeat stays and higher occupancy rates.

In addition, significant operating savings result in improved financial results. It's the equivalent of higher occupancy rates. It's like adding rooms without making the investment in construction.

### **A Broad Range of Hospitality Services**

Taco does more than repairing or replacing equipment. We completely evaluate the key components that contribute to the guest experience.

## Services include:

### Comprehensive Engineering Analysis

**of Current Systems:** Our team of professionals can evaluate your energy usage for heating/cooling through a complete system audit.

In addition, we can analyze your current plumbing systems, hot water generation, recirculation systems, booster systems, and building energy management systems to determine if improvements can be made. Our detailed analysis will allow you to make intelligent investment decisions that will improve your property's performance.

**Guest Room HVAC Efficiency Update:** Utilizing the latest in technology, we can improve the guest experience by providing high efficiency components to recondition existing fan coil units and water source heat pumps. This process helps significantly reduce operating costs while improving guest comfort, lowering room noise levels and eliminating odors.

**Instant Hot Water:** Enjoy instant hot water comfort while avoiding a major renovation. The Hot-LinkPlus-e™ system installs easily into existing plumbing with a tank water heater. No dedicated hot water return line is needed! The system combines the ECM high-efficiency 006e3™ hot water circulator with the award-winning SmartPlug Instant Hot Water Control® and Hot-Link® Valve for maximum comfort & efficiency. Choose the TacoGenie® for applications in need of an extra boost to get hot water to the fixtures. Install the motion-activated TacoGenie under the most remote kitchen or bath fixture to enjoy instant hot water and increased savings.



### Leak Detection & Protection:

Use the LeakBreaker® or LeakBreaker featuring eLink™ to detect leaks around water heaters throughout the facility. When a leak is detected, the valve will close, protecting your facility from potential damage. The LeakBreaker featuring eLink will also send sms and email messages alerting facility managers of issues.





**Property A**  
Heating Pump Application

	Before	After
# of Pumps	2	2
Output Power	10 HP	5 HP
Energy Use	305,464 kWh	116,177 kWh
<b>Energy Savings (%)</b>	<b>61.97%</b>	
<b>Energy Savings (\$)</b>	<b>\$26,500</b>	
<b>CO2 Savings (Metric Tons)</b>	<b>171.68</b>	

Data collected over 570 Days of Operation

**Property B**  
Booster Pump Application

	Before	After
# of Pumps	2	2
Output Power	15 HP	5 HP
Energy Use	463,132 kWh	164,395 kWh
<b>Energy Savings (%)</b>	<b>64%</b>	
<b>Energy Savings (\$)</b>	<b>\$41,823</b>	
<b>CO2 Savings (Metric Tons)</b>	<b>270.95</b>	

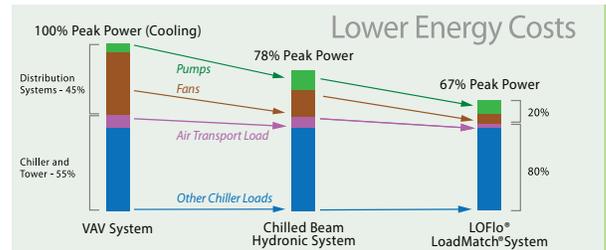
Data collected over 862 Days of Operation



Taco booster system installation shown.

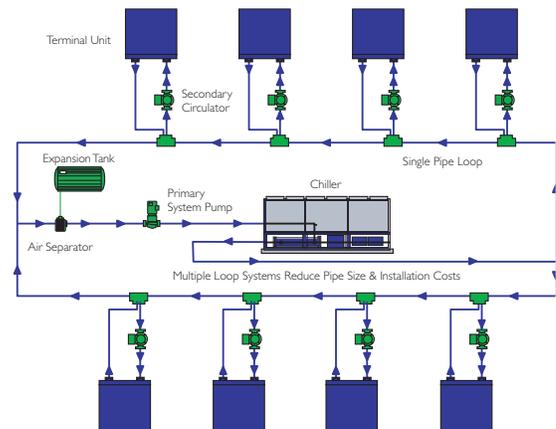
**LOFlo® injection pumping**

The Taco LOFlo System is used in hydronic heating and cooling systems to significantly reduce the flow of water. Typically used in radiant panel (ceiling, wall or floor) and chilled beam (passive and active) applications, the technology significantly reduces pump flows and pipe sizes for reduced energy consumption and lower first costs. The LOFlo System also provides precise control of supply water to the terminal, e.g. chilled beam, and precise control of room temperatures.



**LoadMatch® System**

A LoadMatch® system is the marriage of two old ideas wrapped around a new technology. The old ideas are single pipe distribution and primary-secondary pumping. The new technology consists of the use of maintenance-free wet rotor circulators. The primary distribution system is a single pipe loop; the secondary distribution system is a decoupled secondary piping loop for each terminal unit in the system. The wet rotor circulator provides the specified flow to each terminal unit at all times. Every LoadMatch® system can provide both heating and cooling capabilities in single-pipe circuits, using common terminal units. The desired heating/cooling mode is chosen at the thermostat and the corresponding circulator is automatically selected.



### Significant Cost Savings with Guestroom HVAC Efficiency Update Program

Based on an actual case study, our modernization program met all of our clients' program goals. First, a 500 room hotel saved \$1.3 million dollars by updating an existing system as opposed to installing new equipment. In addition, room air flow increased while noise decibels decreased significantly and supply air temperatures dropped by over 5% resulting in lower costs for air conditioning.

#### 500 Room Hotel

New Unit:	\$3,500
Fan Coil Modernization	\$900
<b>Cost Savings:</b>	<b>\$1,300,000</b>

Equipment: **IEC MPY12BDG**

	CFM	Supply Air Temp.	Decibels
Before	508	59.0 F°	67.3
After	580	56.2 F°	59.0
	 72 cfm	 5% decrease	 8.3dB decrease

## Building Controls Analysis

Our engineering analysis also extends to your property's control systems. In many cases, outdated control systems lead to unnecessary maintenance costs and poor system performance. A Taco Comfort Solutions engineering specialist can assist in determining the feasibility of upgrading or replacing your current control system.

Taco's industry leading Clarity<sup>3</sup>™ control platform can provide powerful control options for any property and can be integrated into existing building controls through our GCE integration platform. This means seamless integration with most control manufacturers and advanced building analytics. Clarity<sup>3</sup> by Taco's Innovative Energy Solutions helps building owners find, learn, and act. Rely on Taco to help you take control of your building. Choose the system that is simple to use, narrowing the focus to what you truly need. Easy to use dashboards make reporting easy to understand enabling owners to act on reliable information. Clarity<sup>3</sup> open protocol integration capability means that you are no longer tied to proprietary systems or single source suppliers. You'll get an objective analysis of the most cost effective way to improve your building automation system.

## Implementation Logistics

Our services are delivered on budget and on time with minimal occupant disruption. As part of a renovation or stand alone refurbishment, Hospitality services are conducted in coordination with your facilities team, and designed to minimize building down time.

## The Guest Experience

Experience has shown that improving room comfort has long lasting benefits. Our modernization program reduces noise levels, improves air quality, eliminates room odors, and prevents the formation of mold which can lead to expensive remediation efforts. Guests are treated to improved facilities that lead to repeat stays.



## Owner Benefits

In addition to improved occupancy, owners benefit from reduced operating costs, longer equipment life and significantly improved Trip Advisor scores from satisfied guests.

Taco's Hospitality Program: A partnership that lasts for the life of your building. At Taco, we take the role of trusted advisor seriously. That's why our program is more than just products. It's a commitment to your success.

### ***A commitment that includes:***

- Design support from the top professionals in the industry.
- Training from Taco University. Our staff of professional engineers has trained over 10,000 HVAC system specialists.
- Customized training programs for your staff at our world headquarters or remote customer site incorporating best practices in guest comfort, maintenance and energy optimization.
- Training on the latest technologies in chiller application and other advanced HVAC equipment.

Contact us to discover why Taco's Hospitality Program is a partnership designed specifically for the hospitality industry. We're here to serve you.



Taco is a third generation family owned American manufacturer of quality hydronic components and comfort systems. Based in Cranston, RI. Taco manufactures electronic controls, scalable, compatible web-based building monitoring and management controls, valves, tanks, pumps, heat exchangers, high efficiency variable speed drives, ECM pumps and circulators and ancillary products. Our LoadMatch® and LOFlo® single pipe comfort systems are recognized as the most efficient, cost effective hydronic systems on the market.

Taco is a people company that understands the value of solid working relationships backed with design assistance and support for the life of the system. We are here before, during, and after your project to help you bring your systems up to peak efficiency as quickly and economically as possible. We do business with a personal touch because we believe that your personal success is as important as the success of the project.

**For more information, please contact:**

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