

Features and Benefits

Feedforward Adaptive Control

The Tracer chiller controller allows the system designer to explore energy saving strategies and allows the centrifugal chiller to be used in ways that were never thought possible.

Feedforward Adaptive Control

Feedforward is an open-loop, predictive control strategy designed to anticipate and compensate for load changes. It uses evaporator entering-water temperature as an indication of load change. This allows the controller to respond faster and maintain stable leaving-water temperatures.

Soft Loading

The chiller controller uses soft loading except during manual operation. Large adjustments due to load or setpoint changes are made gradually, preventing the compressor from cycling unnecessarily. It does this by internally filtering the setpoints to avoid reaching the differential-to-stop or the current limit. Soft loading applies to the leaving chilled-water temperature and current-limit setpoints.

Multi-Objective Limit Arbitration

There are many objectives that the controller must meet, but it cannot satisfy more than one objective at a time. Typically, the controller's primary objective is to maintain the evaporator leaving-water temperature.

Whenever the controller senses that it can no longer meet its primary objective without triggering a protective shutdown, it focuses on the most critical secondary objective. When the secondary objective is no longer critical, the controller reverts to its primary objective.

Fast Restart

While the inlet guide vanes are closing, the controller will allow the centrifugal chiller to restart and going to a posttube operational mode. If the chiller shuts down on a nonlatching diagnostic, the diagnostic has 30-60 seconds to clear itself and initiate a fast restart. This includes momentary power losses.

Building Automation and Chiller Plant Control

For a preprogrammable and flexible building automation and chiller plant control, Trane has developed the Tracer Summit™. It can control the operation of the complete installation: chillers, pumps, cooling towers, isolating valves, air handlers and terminal units. Trane can undertake full responsibility for an optimized automation and energy management for the entire chiller plant.

The main functions are:

- **Chiller sequencing:** equalizes the number of running hours of the chillers. Different control strategies are available depending on the configuration of the installation.
- **Control of the auxiliaries:** includes input/output modules to control the operation of the various auxiliary equipments (water pumps, valves, cooling towers, etc.)

- **Time of day scheduling:** allows the end user to define the occupancy period, i.e. time of the day, holiday periods and exception schedules.
- **Optimization of the start/stop time of the installation:** based on the programmed schedule of occupancy and on the historical record of the behavior of the temperatures, calculates the optimal time of start and stop of the installation to get the best compromise between energy savings and comfort of the occupants.
- **Soft loading:** the soft loading function minimizes the number of chillers that are operated to satisfy the building morning pull down, thus preventing an overshoot of the actual capacity required. Unnecessary starts are avoided and the peak current demand is lowered.



Trane Adaptive Control Manuals

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Direct Digital Control for Building HVAC Systems Michael J. Coffin, 2012-12-06 Since the publication of the first edition in 1992 the HVAC industry has gone through enormous changes As simple digital systems have given way to more complex systems demand for information on how these systems operate how they are best applied and how they communicate with other building control systems has grown rapidly Direct Digital Control for Building Systems Second Edition is thoroughly updated and expanded to include coverage of the architecture of modern digital control systems distributed intelligence networked systems communication protocols the technologies and issues concerning interoperability the latest application strategies and defensive techniques for designing and specifying control systems Numerous illustrations throughout help keep the subject highly accessible and hardware software and systems applications are described in the most universal terms possible This thoroughly revised second edition also contains a full section on BACnet standard and Echelon s LonWorks technology their meaning applications and future implications An up to date appendix is provided Insights on emerging technologies in intelligent control systems and what

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SECTION 4 OCCUPANT COMFORT Criterion 10 Visual Comfort Criterion 11 Thermal and Acoustic Comfort Criterion 12 Indoor Air Quality

VOLUME 4 239 PAGES

SECTION 5 WATER MANAGEMENT Criterion 13 Water Demand Reduction Criterion 14 Wastewater Treatment Criterion 15 Rainwater Management Criterion 16 Water Quality and Self Sufficiency

SECTION 6 SOLID WASTE MANAGEMENT Criterion 17 Waste Management Post Occupancy Criterion 18 Organic Waste Treatment

VOLUME 5 93 PAGES

SECTION 7 SUSTAINABLE BUILDING MATERIALS CRITERION 19 Utilization of Alternative Materials in Building

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Energy Management Association of Energy Engineers, 1981

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1. Understanding the eBook Trane Adaptive Control Manuals
 - The Rise of Digital Reading Trane Adaptive Control Manuals
 - Advantages of eBooks Over Traditional Books
2. Identifying Trane Adaptive Control Manuals
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Trane Adaptive Control Manuals
 - User-Friendly Interface
4. Exploring eBook Recommendations from Trane Adaptive Control Manuals
 - Personalized Recommendations
 - Trane Adaptive Control Manuals User Reviews and Ratings
 - Trane Adaptive Control Manuals and Bestseller Lists
5. Accessing Trane Adaptive Control Manuals Free and Paid eBooks
 - Trane Adaptive Control Manuals Public Domain eBooks
 - Trane Adaptive Control Manuals eBook Subscription Services
 - Trane Adaptive Control Manuals Budget-Friendly Options
6. Navigating Trane Adaptive Control Manuals eBook Formats

- ePub, PDF, MOBI, and More
- Trane Adaptive Control Manuals Compatibility with Devices
- Trane Adaptive Control Manuals Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Trane Adaptive Control Manuals
 - Highlighting and Note-Taking Trane Adaptive Control Manuals
 - Interactive Elements Trane Adaptive Control Manuals
- 8. Staying Engaged with Trane Adaptive Control Manuals
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Trane Adaptive Control Manuals
- 9. Balancing eBooks and Physical Books Trane Adaptive Control Manuals
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Trane Adaptive Control Manuals
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Trane Adaptive Control Manuals
 - Setting Reading Goals Trane Adaptive Control Manuals
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Trane Adaptive Control Manuals
 - Fact-Checking eBook Content of Trane Adaptive Control Manuals
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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