



DESIGN ENVELOPE

IPC 9521

Integrated Plant Control
System for water cooled
chiller plant automation

SOLUTION OUTLINE

FILE NO: 90.156
DATE: SEPTEMBER 2019

SUPERSEDES: 90.156
DATE: JANUARY 2015

KNOW THE PERFORMANCE OF YOUR CHILLER PLANT

MINIMIZE YOUR COSTS

Large and small scale facilities can both benefit from fully automated HVAC systems. Buildings with fully automated systems deliver better comfort along with improved operating efficiencies and reduced costs. A smart choice of integrated control equipment can help you:

Reduce system installed cost

Future-proof to enable upgrades at minimum incremental cost

Minimize data point costs related to BMS reporting

Qualify your project for utility rebate programs and corporate sustainability initiatives

Save energy with variable primary flow or all variable speed chiller plant automation in new or retrofit projects

Meet and exceed energy efficiency requirements (LEED, BREAM, ASHRAE)

Surpass expectations for occupant comfort

Improve system reliability and minimized downtime

Reduce water consumption

Access to Active Performance Management module, plus on-board chiller plant diagnostics make servicing easier

STANDARD CONFIGURATIONS SUPPORT APPLICATIONS WITH NON-IDENTICAL CHILLERS

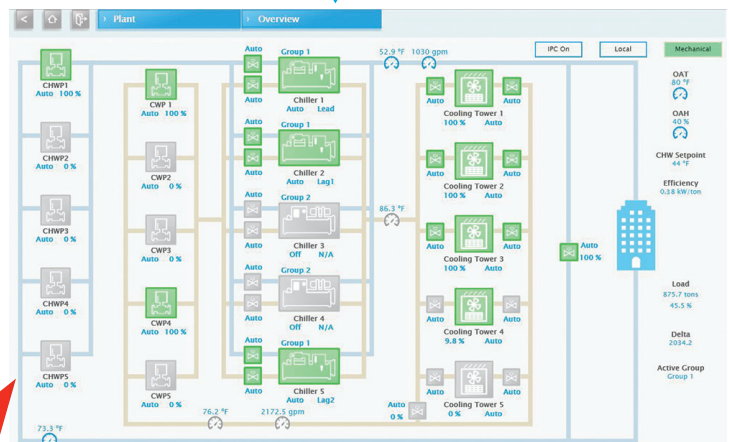
Full automation of up to five water cooled chillers and cooling towers



ADVANCED INTEGRATION

The latest advances in demand based technology allow you to make the most of the available equipment efficiencies in new and existing HVAC systems. With Armstrong's **Design Envelope Integrated Plant Control System (IPC) 9521** we've standardized the best of these technologies into a solution that will enhance the success of your future HVAC projects.

PRE-ENGINEERED FOR MULTIPLE PLANT CONFIGURATIONS



The Armstrong Design Envelope IPC 9521 automation system leads the market with a complete feature set in an affordable package. The user parameters can be easily updated as plant configuration changes and requirements evolve.

Better overall performance of the entire chiller plant, and up to 45% energy savings, including drift management services, relative to a traditional variable speed chiller plant



FEATURES

Embedded sequences for:

- All-variable plant configuration
- Chiller plant automation and optimization
- With variable-speed cooling tower operation

Plant automation capabilities for a variety of water cooled chiller plant configurations with up to five chillers.

Patented Parallel Sensorless Control optimizes equipment staging

User-friendly interface and pre-defined communication settings for plant equipment.

Secure remote access for view and operation of your HVAC system.

Hot-swap master control enables upgrades and new settings without a restart of the system.

Easy upgraded options such as ECO*Pulse™ subscription, TowerMax or OPTI-VISOR™ energy optimization

Display and log performance indicators such as heat balance and energy efficiencies in accordance with Green Mark requirements.

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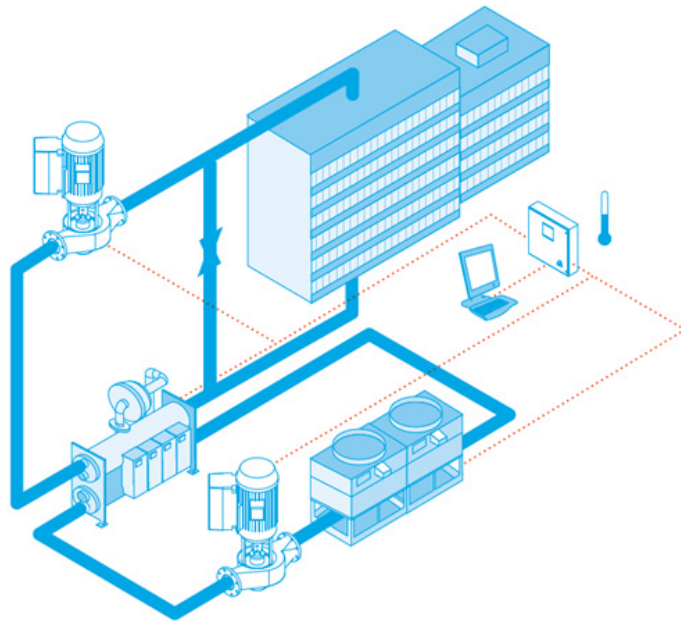
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