



SAVINGS AND RELIABILITY



echnology developments in cooling systems for large scale industrial applications present great opportunities for savings in energy and water. To improve the efficiencies of cooling tower systems, Armstrong offers Integrated Tower Control, an advanced cooling automation system that optimizes the operation of multiple variable speed pumps, fans and cooling towers or fluid coolers for maximum efficiency.





Operating efficiency of pumps and fans provides energy savings, approximately 5 to 20% compared to a constant flow tower configuration and 2 to 3% water savings

KEY BENEFITS

Improved system stability

Reduced energy costs

Simplified tower automation and easy integration for improved system reliability

Real-time flow metering accuracy and diagnostics to better understand your tower performance

KEY APPLICATIONS

ITC can boost the efficiency of heat rejection systems in a wide range of applications, including:

Data centres	Paint processes
Automotive manufacturers	Injection molding
Heat pump applications	Air compressors
Condenser cooling	Ammonia compressors

PERFORMANCE VALUE

A rmstrong's demand-based Design Envelope technology and Parallel Sensorless pump staging combine to provide a robust control scheme with feed-forward energy optimization algorithms that reduce the heat rejection load on the cooling tower system.

Cooling system performance management

Full automation of the entire cooling system with multiple control modes

Immediate adjustment to changes in cooling requirements

Access via intuitive touchscreen at the unit or remotely via internet connection

Compatibility for onboard diagnostics, data downloads, online troubleshooting and remote access for support



Improved System Reliability

High performance in your heat rejection system depends on accurate flow data to optimize the evaporative process. The ITC draws flow data from the installed Design Envelope pumps, which provide far better accuracy and reliability than other flow data sources.

Reliable, factory programmed and tested solution provides single source of responsibility for system control and intelligent pumps

For automation of the cooling tower process, flow readings from Design Envelope pumps are more reliable than measurements from a flow meter.

Reduced Installed Cost – Equipment & вмз Connections

Easy configuration saves on commissioning time

Single point connection to BMS

Design Envelope pumps eliminate the need for flow meters and pressure sensors, plus related installation and commissioning labour. If the ITC must be connected to a BMS system, only one connection point is required.



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