



TRANE[®]

Metering solutions

Measure, calibrate and upgrade

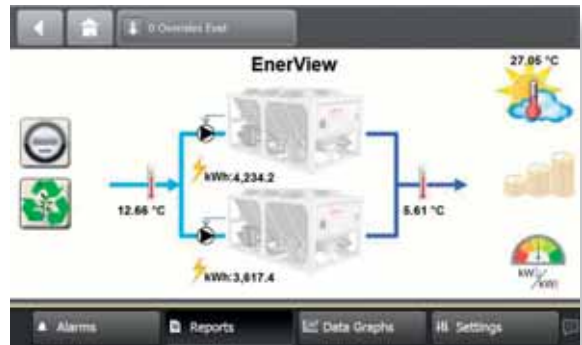


Monitor, manage and reduce costs

Every business wants to reduce its operating costs and its environmental footprint. Because chiller plants are significant consumers of electrical power, monitoring and assessing their performance is a key step towards improving system efficiency to manage their running costs.

By tracking energy usage, Trane metering solutions make Energy Conservation Measures possible, which will reduce the cost to the business and the impact on the environment.

- Measure
- Rate
- Understand
- Correct



Basic energy metering

The basic solution consists of a measuring device and a meter featuring a display.

The measuring device uses split-core technology to permit installation on existing plants with no interruption to the power supply. The meter displays the energy consumption and the instantaneous kW input.



Only one measuring device is needed for commercial cooling systems. Even in three phase applications, one device is sufficient as mechanical loads such as chillers or pumps are balanced (the power drawn by each of the three phases is considered to be equal).

Energy metering by OptiPlant

Trane **OptiPlant** (or Trane Chiller Sequencer) also offers optional metering capabilities to measure the energy consumption of each chiller. The user can navigate relevant plant data using the intuitive touch screen display.

In the case of two chiller plants for which no control is required, Trane **EnerView** provides a prepackaged stand-alone solution.



Trane EnerView benefits

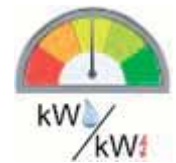
- Constant monitoring of energy consumption including the impact of any energy conservation measures.
- Benchmarking of how energy is being consumed.
- Traceability of plant operation including system temperature trends, plant cooling production, energy usage and plant efficiency over 7 days.
- 52-week history of plant energy usage.



Trane **EnerView** meters the energy consumption of each chiller and calculates the cooling capacity produced by the plant. An on-screen dashboard shows the daily, weekly and yearly consumption and cooling capacity.

Efficiency of the chiller plant

Trane **EnerView** measures and calculates the cooling load on the chiller plant. It is then compared against the energy consumption. A gauge on the screen displays the instantaneous efficiency of the chiller plant.



Trending

Trane **EnerView** stores the last 7 days of data and displays three graphs:

- Electrical consumption against cooling load.
- System efficiency against outdoor air temperature.
- Active chilled water set point, actual flow and return chilled water temperatures against outdoor air temperature.



The electrical consumption can be analyzed against the performance of the chiller plant.

Trane metering solutions - making your building better for life.



For more information visit trane.com

