



ENERGY MONITORING SYSTEM

ENERGY SAVING POTENTIAL IN CHILLERS

Chillers are the biggest contributor to energy costs in HVAC

**E-MOS™ - Your Plug and Play Solution
makes chiller performance more visible**

Energy Monitoring System (E-MOS™) is the most effective and reliable system that automatically records specific power consumption of chillers in most accurate way 24 x 7.

Save atleast 20% to 40% in chiller energy use. E-MOS™ will continuously collect, analyze and report on chiller operating data through the internet facility integrated in E-MOS™ system and connected to cloud-based server. The critical information collected at server can be used to manage energy and operating costs on routine basis and this significantly helps in improving the performance potential of chiller.



Cloud-based,
Real-time
Measurement



Multiple
User Access



Automatic
Email Alerts



Easy Dashboards
To Make Equipment
Performance
More Visible



Detailed Data
Generation And
Analysis Reports



Trend Report
Generation



Compatible With
Any Building HVAC
System And Lowers
Lifecycle Costs



1-Control Panel 2-KWH Meters 3-6-PT100 7-Flow Meter 8-Chilled Water Outlet 9-Chilled Water Inlet

E-MOS™ has highly efficient magnetic flow-meters installed in each chiller to measure instant flow. Temperature Sensors (PT100) are installed in inlet and outlet of the Evaporators and Condensers. Instant data values from the Flow-meters and temperature sensors are sent to the Control Panel through communication cables. Individual KWH meter is installed to measure the instant electrical power consumption of each chiller and values are recorded in control panel. The data collected from Flow-meters, Temperature Sensors, KWH meter is collated in specialised Control Panel to calculate specific power consumption of chillers in iKW/TR. These values are automatically retrieved and updated for real time, average day/monthly trend analysis and report generation on i-cloud server.

ENERGY PERFORMANCE:

TRH & KWH consumption & averages cumulative data for daily, monthly & yearly, along with generation and consumption benchmarking

EQUIPMENT PERFORMANCE:

- TRH of individual chiller vis-a-vis design/benchmark
- KWH of individual chiller vis-a-vis design/benchmark
- Delta Temperatures for Chilled water & Condenser water
- Efficiency of Chilled water pumps
- Cooling Tower effectiveness

CET Enviro offers a range of innovative technologies that optimize and maintain heat transfer performance in large scale cooling systems such as commercial HVAC, Water-Cooled Chillers, Cooling Tower, Commercial buildings, industrial companies, Power Plants, Oil and Gas Industries. These products help to reduce power bills, water consumption and eliminate the use of harsh chemicals. CET Enviro has full-fledged Sales, Marketing and Service teams in India to provide timely and effective services to its customers and has its own manufacturing base.

Check out our other environment friendly technologies

- Automatic Condenser Cleaning System (ACCS™)
- Condenser Onload and Tube Cleaning System (COLTCS)
- Scale and Bio Removal Technologies (SBR™)