

INTELLIPLANT

Optimisation system for centralised hydronic systems



- ✓ INTELLIPLANT is the innovative technological solution designed to optimise the central heating/cooling plant of medium and large capacity systems, ensuring efficiency and reliability in any application, from comfort applications to more complex applications for industrial processes that require continuity of operation under any operating condition.
- ✓ INTELLIPLANT optimises centralised systems by using the control algorithms of the devices which are involved in the production and distribution of thermal energy, as well as an advanced diagnostics survey engine which makes it possible to determine their state of maintenance.

Control and optimisation

INTELLIPLANT identifies the best activation sequence for units by starting them according to their performance curves, fulfilling the energy requirements of the system with minimum power consumption. INTELLIPLANT also optimises pumping units to ensure the distribution of fluids through the primary and secondary circuits by managing the variable flow-rates while reducing energy consumption.

The benefits from these control strategies are:

- high system efficiency levels
- reduction of waste from the over-production of energy
- better stabilisation of the system with reduced thermal and mechanical stress on the units.

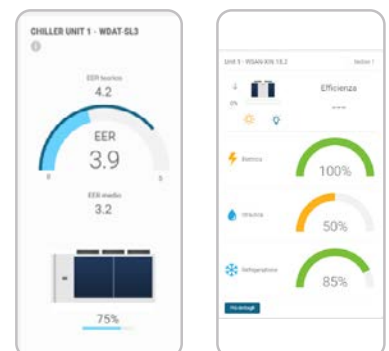


Preventive diagnostics

INTELLIPLANT evolves the concept of maintenance, from conventional scheduled maintenance to "Condition Based Maintenance", i.e. maintenance tailored to each specific system based on its operating status.

The benefits from this model are:

- reduction of the amount of interventions and field trips
- better management of maintenance personnel
- lower maintenance costs
- reduction of system downtime due to sudden failures
- increased system productivity
- longer service life of thermal energy generation and distribution devices.



Energy under control

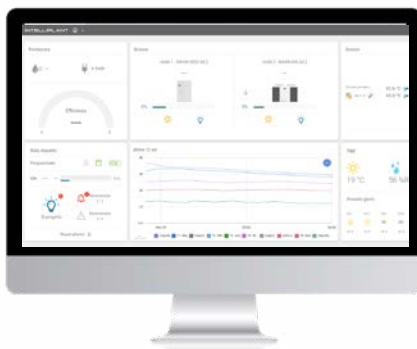
INTELLIPLANT has dedicated pages and reports to allow the plant's energy consumption to be monitored and controlled, with functions to:

- ✓ analyse and normalise the energy consumption of the devices in the plant
- ✓ identify critical issues and eliminate waste
- ✓ increase the level of comfort
- ✓ increase the continuity of system operation
- ✓ promote activities to increase the overall efficiency of the systems.



Functions and features

Clivet's Cloud-based service offers the option of remotely connecting to the INTELLIPLANT system and accessing its functions from any PC, smartphone and tablet with a web browser, without needing to install a dedicated APP.



System dashboard



Unit dashboard

INTELLIPLANT provides the user with a wide range of graphical pages that combine the most significant plant and unit operating parameters to ensure total control of mechanical systems both locally and remotely.

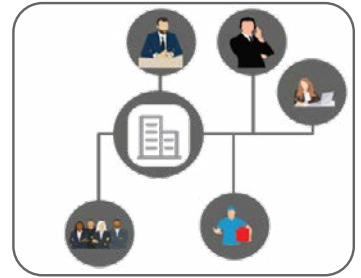
All of the pages can be viewed on a PC or smart device.

The main pages include:

- ✓ System dashboard, with the most significant general system operating data
- ✓ Unit dashboard, with all the operating variables of the individual units
- ✓ Energy dashboard, with system and individual unit efficiency indices
- ✓ Maintenance dashboard, with operating values of system components and their operating status
- ✓ Commissioning page, to facilitate system start-up and calibration operations.

INTELLIPLANT is a solution for all professionals involved in the design, management and operation of technological systems:

- ✓ HVAC system consultants and designers
- ✓ Building and Facility Managers
- ✓ Energy Managers
- ✓ ESCO
- ✓ Service Managers and maintenance technicians
- ✓ Builders and installers
- ✓ System investors and owners



INTELLIPLANT is a flexible, modular and expandable solution to better meet the most stringent structural, application and installation requirements in full compliance with safety standards and regulations.

