INTELLIPLANT CORE

Optimisation system for centralised hydronic systems

✓ Monitoring and control of hydronic chiller units, reversible heat pumps and multifunctional units

✓ Workload distribution: The heating and cooling load is equally distributed between the various units, making the most of their operation in partial load mode.

✓ Centralised management: Professional multi-site cloud platform for unified and simplified control. This allows the various systems to be monitored and managed from a single interface

System manager

The INTELLIPLANT system allows you to efficiently and continuously manage the hydronic units on the local operator panel and on the remote interface on a computer, smartphone or tablet. INTELLIPLANT CORE consists of a main control panel that manages the connection to the various hydronic units (chillers, reversible heat pumps and multifunctional units) equipped with both serial and Ethernet communication. Thanks to the values acquired in real time from the system, advanced control logics enable efficient management of thermal loads based on real system demand, constantly monitoring the system conditions and selecting unit activation, either based on the most performing activation sequence or by balancing the operating hours.

✓ Monitoring and control of hydronic chiller units, reversible heat pumps and multifunctional units

✓ Primary circuit management of 2-pipe and 4-pipe systems with Clivet air source units with integrated hydronic unit

✓ Integration with BMS/BAS through open protocols

✓ Management of operating parameters such as temperature and seasonal mode change

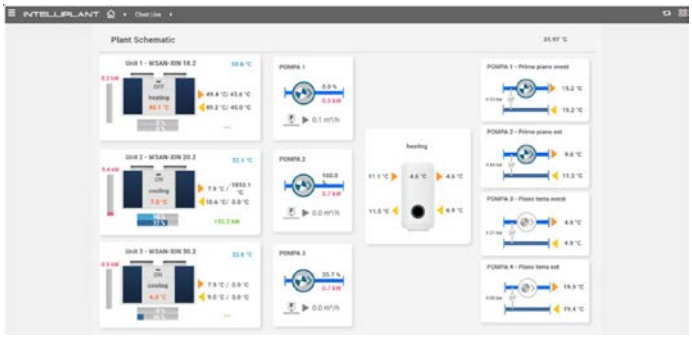
✓ Scheduled and manual system switch-on

Management, safety and professionalism

The INTELLIPLANT CORE system ensures centralised multi-site monitoring via a cloud platform that adheres to data protection privacy levels in accordance with the most stringent interpretations of the GDPR (Global Data Protection Regulation).
Aimed at operators such as facility managers, system operators and plant managers.

Graphic interface

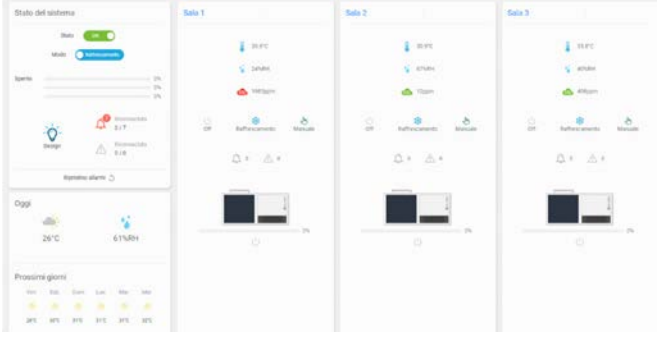
Plant schematic



The page offers a customised graphic representation where each area can be checked:

- ✓ operation status;
- ✓ real-time values of key operating parameters such as temperature and humidity;
- ✓ presence of alarms that must be promptly reported to the system supervisor/manager

Plant dashboard



The main page of the system provides an overview with reports for all areas:

- ✓ system operational status and quick action buttons;
- ✓ percentage and mode of operation of individual units, broken down by areas;
- ✓ maintenance status resulting from the preventive analysis of each individual unit;
- ✓ priority and second-level alarms;
- ✓ current day's weather and forecast for the next 7 days;

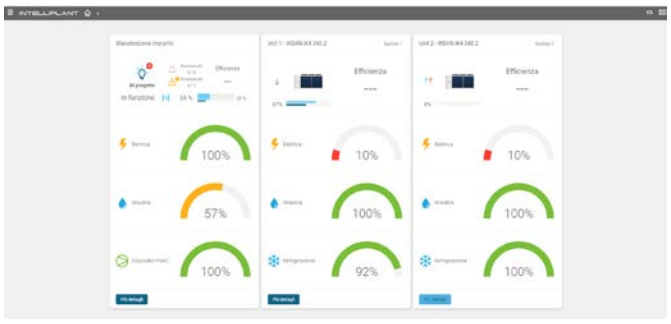
In detail, the user can access all parameters specific to the area or individual units and their operating parameters.

Unit

The following basic information is displayed for each unit:

- ✓ graphical model of the unit with dynamic representation of the operating state;
- ✓ operating status of the unit and buttons for quick actions;
- ✓ details of component status (fans, compressors, etc.);
- ✓ list of parameters and their values in real time.

Predictive maintenance



INTELLIPLANT helps to develop the concept of maintenance from traditional "scheduled routine maintenance" to the more advanced idea of "condition based maintenance", i.e. maintenance customised per event according to its operational status, applicable to the most significant situations affecting refrigeration thermal unit components.

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