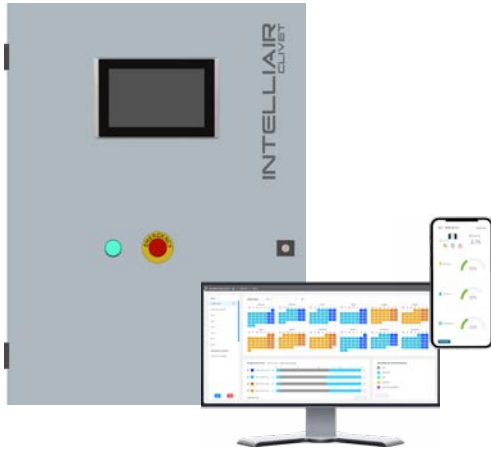


# INTELLIAIR

Optimisation system for centralised hydronic systems



- ✓ Local and remote visibility via dedicated Cloud platform
- ✓ Ventilation optimisation with air quality acquisition
- ✓ Advanced scheduler for the activation of energy profiles
- ✓ Diagnostic survey system for preventive maintenance management
- ✓ Integration with BMS/BAS for alarm notification and supervision

## Focus on comfort

INTELLIAIR is Clivet's specialised solution for the supervision and control of air conditioning systems in all applications where comfort and energy efficiency are paramount. Thanks to the integration with autonomous rooftop air conditioning units, a high level of consumption optimisation in air handling can be achieved while ensuring the utmost comfort in the rooms.

The INTELLIAIR supervision solution is perfect for:

- ✓ shopping centres
- ✓ multiplex cinemas, theatres, auditoriums
- ✓ commercial premises and areas
- ✓ Ho.Re.Ca sector

The high energy savings with INTELLIAIR are ensured by the automated management of independent areas, through the programming of targeted energy profiles to eliminate inefficiencies that can occur in centralised systems, without sacrificing comfort.

## Highly adaptable

INTELLIAIR consists of a pre-wired and pre-assembled hardware and software system inside a control box suitable for installation in a control room or dedicated technical room. A 10" touchscreen panel on the control box allows the operator to consult all pages containing information on the system to be monitored.

## Everything under control

Communication between INTELLIAIR, Clivet air conditioning units and field devices is via RS-485 serial line with RTU Modbus communication protocol, which simplifies wiring and ensures long operating distances. Furthermore, communication can be provided based on Ethernet protocol to extend the application range to Clivet units with TCP/IP Modbus communication protocol.

In addition to temperature and humidity control, comfort is even more advanced due to the full integration of high-tech sensors that monitor the air quality index for every single area.



TEMPERATURE



HUMIDITY



AIR QUALITY

### z-IAQ air quality sensors



VOC

Volatile organic compounds

CO

Carbon monoxide

NO<sub>2</sub>

Nitrogen dioxide

CO<sub>2</sub>

Carbon dioxide

CH<sub>4</sub>

Natural methane gas

dB

Ambient noise

%RH

Relative humidity

°C

Temperature

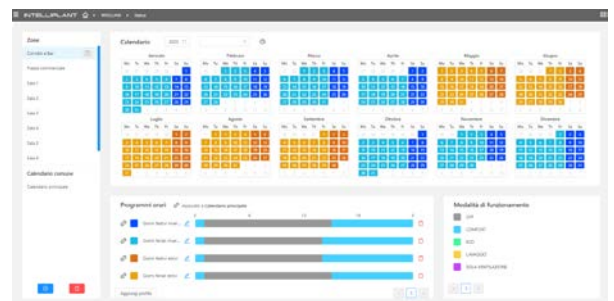
INTELLIAIR is designed to provide full compatibility with all BMS/BAS, thereby ensuring total transparency when viewing the system even by these systems.

INTELLIAIR provides an intuitive dashboard that easily displays all the information on the system's operating mode on cards that automatically adjust to the size of the screen on the local operator panel and on the remote interface.

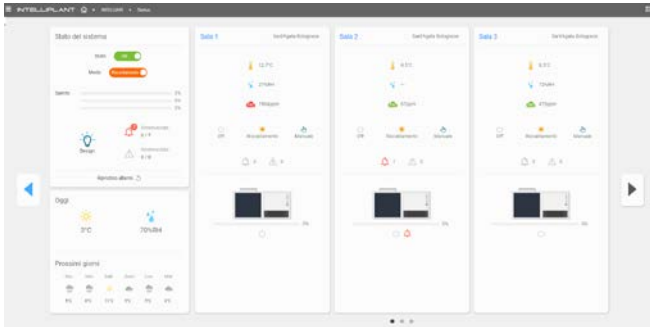
## Comfort planning

Programming is one of the most important features of INTELLIAIR for automatic system operation. With the scheduler, you can program the right comfort in the different zones of the building throughout the year so as to maintain their comfort independently of the others, thus eliminating the waste and inefficiency that can occur in centralised systems. The main features are:

- ✓ Daily/annual programming of temperature, humidity, CO<sub>2</sub> setpoints
- ✓ Sharing set-points with all the units belonging to that zone
- ✓ Maintenance planning



## From an overall view to the individual detail



The main system page provides direct access to the various zones and displays the following main information:

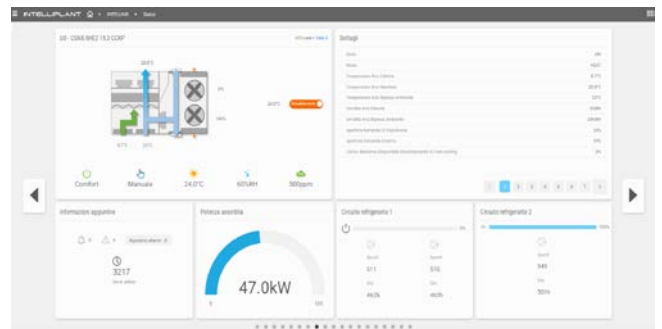
- ✓ operating status of the system and buttons for quick actions
- ✓ percentage and operating mode of single units, by area
- ✓ maintenance status following the preventive analysis of each individual unit
- ✓ priority and second-level alarms
- ✓ current day's weather and forecast for the next 7 days

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



Percentage and operating mode of single units, by area:

- ✓ 7-day scheduling of units connected to the area
- ✓ display and modification of the room temperature setpoint, relative humidity and air quality
- ✓ alarm status and specific warnings for the area
- ✓ room temperature, relative humidity and air quality trends over the last 12 hours



The following basic information is displayed for each unit:

- ✓ operating mode (heating / cooling / Auto) and performance of the unit
- ✓ operating status (comfort / Eco / off)
- ✓ current temperature, relative humidity and air quality values
- ✓ detailed component status (fans, compressors, etc.)