



INNOVATION AND DIGITALISATION
IN YOUR HOME

Clivet Smart Living



Inspiring Solutions since 1989

Clivet has always invested in innovation and digitisation, making its solutions ever more efficient, linked up, and easy to monitor.



Clivet Smart Living is a complete package for managing the comfort and energy efficiency of individual homes, apartments and small businesses. It incorporates cutting-edge technologies, and focuses on the well-being of people in the settings where they live and work.

Ventilation and air quality



Real-time air quality monitoring for air exchange with heat recovery



Heating & air conditioning



You can set the ideal temperature in every room, managing up to 12 independent zones with heat fittings, fan coils and radiant panels



Energy management



With the use of Sinergy and a photovoltaic system, you can have a totally sustainable home, optimising energy use and always keeping an eye on consumption





CONTROL4 NRG lie at the heart of Clivet Smart Living

The system allows you to control all the interconnected parts to provide maximum comfort and efficiency, generating just the right amount of energy for every room when required, and to suit the particular needs of all the occupants.

- ✓ Comfort and well-being for the occupants
- ✓ Energy efficiency and low consumption
- ✓ Energy independence



The ideal solution for the residential sector is Clivet Smart Living, a system that combines energy management and comfort, and which includes:

- ✓ Heat pump for heating, cooling and domestic hot water production
- ✓ An air renewal and purification system with active thermodynamic recovery and electronic filtration
- ✓ Clivet Sinergy: the Clivet energy storage unit can be connected to photovoltaic panels, powering a system focused on comfort and supplying energy to every user, and so giving you a home that is totally reliant on renewable energy
- ✓ HID-TSmart thermostats in every zone/room
- ✓ Quiet, compact room terminals, with stylish design

Clivet Smart Living Solutions

PHOTOVOLTAIC PANELS*



Energy production through a photovoltaic system

SINERGY ESS



Electricity storage, to ensure maximum efficiency of independent supply during evening hours

HEAT PUMP



Smart modulation of the heat pump and domestic hot water tank charging based on the energy available from the photovoltaic system

GAS BOILER



AIR RENEWAL UNIT



Active thermodynamic recovery ventilation system to ensure the highest level of indoor air quality



CONTROL4 NRG

System energy assistant with electricity and thermal storage management. Remote automatic software updates to keep the system in line with new available functions



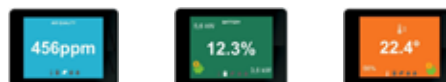
CLIVET EYE

Cloud solution for remote system control and management from a single App with display of energy levels produced and consumed by the home



SMART THERMOSTATS

These provide simple, intuitive and immediate access to the home system's main operating parameters (temperature and humidity, air quality, coil charge level, electricity produced by the photovoltaic system)



AIR QUALITY SENSOR

Acquisition of temperature, humidity, noise, VOC carbon monoxide, carbon dioxide and methane values



FAN COILS, RADIANT PANELS

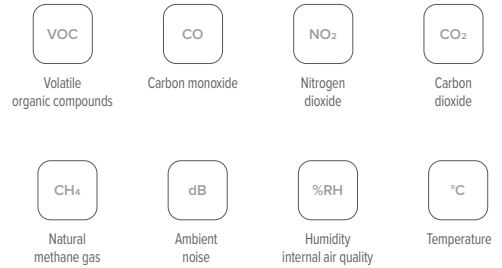
Quiet, efficient fan coils, with slimline design and EUROVENT certification



*not supplied by Clivet

The importance of air quality in inside space

To ensure a comfortable environment, the new **z-IAQ** sensor monitors air quality in real time, providing readings of the temperature and the levels of humidity, noise, VOCs, carbon monoxide, carbon dioxide and methane. CONTROL4 NRG can then constantly monitor the air quality based on the parameters acquired in the various zones and manage the fresh air to restore health and comfort in the various environments.



Relative

This latest advance in technology allows us to monitor the safety of our homes in real time. The z-IAQ sensor can tell us about the quality of the air we breathe, monitoring it for such things as a gas leak, a high level of CO₂, or the abnormal presence of carbon monoxide.



According to a report by the EEA (European Environment Agency), the vast majority of Europe's city-dwellers are exposed to levels of air pollutants which exceed the new guidelines issued by the World Health Organisation (WHO). In this context, indoor air quality has become increasingly important for people's health.

* Source: <https://www.eea.europa.eu/themes/air/urban-air-quality/european-city-air-quality-viewer>



ELFOFresh EVO

Better indoor air quality, and greater energy efficiency and comfort with the electronic filtration system and inverter technology.



Air renewal and purification

An innovative heat recovery system that will meet more than 85% of your home's heating requirements

Humidity control

Air purification with high-efficiency electrostatic filter

Management using CONTROL4 NRG system



Electricity and energy independence

The advanced control system allows you to maximise energy consumption and achieve energy independence for your home.

The operating principle is based on using two available forms of storage.

- ✓ Electricity storage, available with Clivet Sinergy
- ✓ Thermal storage, using the heat pump intelligently during sunlight hours

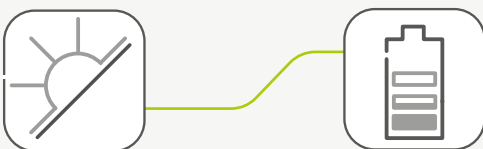
Electricity storage

Sinergy

It allows you to store electricity for use with electrical appliances

Modular electric tank system with inverter for combination with solar photovoltaic system, compact and stylish, ideal for residential installations.

- 5 kW single-phase 230Vac hybrid inverter
- Modular system with up to 4 storage tanks for capacities of 5/10/15/20 kWh
- Dual MPPT input for 6.2 kW photovoltaic system
- On-grid function and integrated 5 kW back-up output for connecting loads in the event of a power failure
- "Anti-islanding" protection system



Heat storage

Surplus electricity can be used for

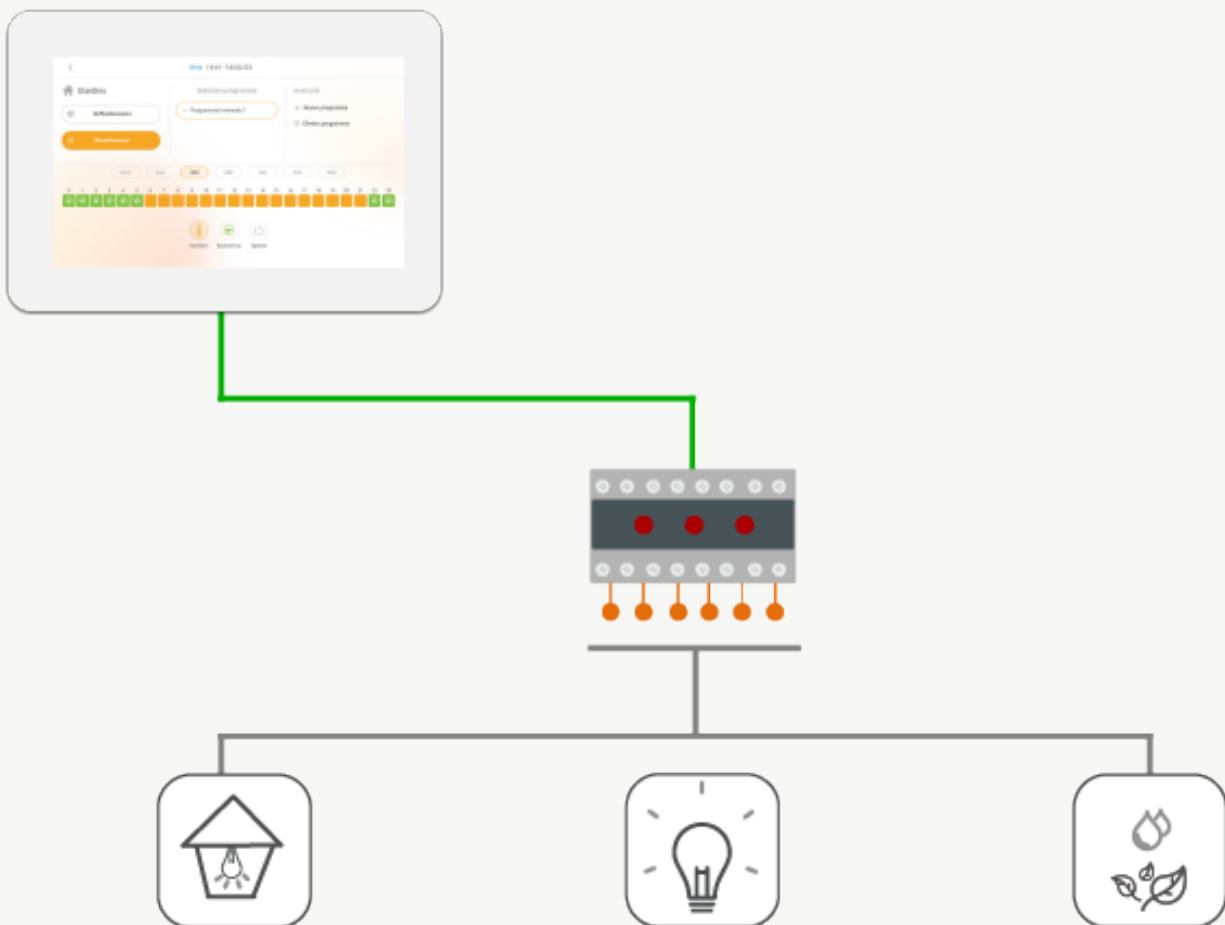
- ✓ Storing domestic hot water





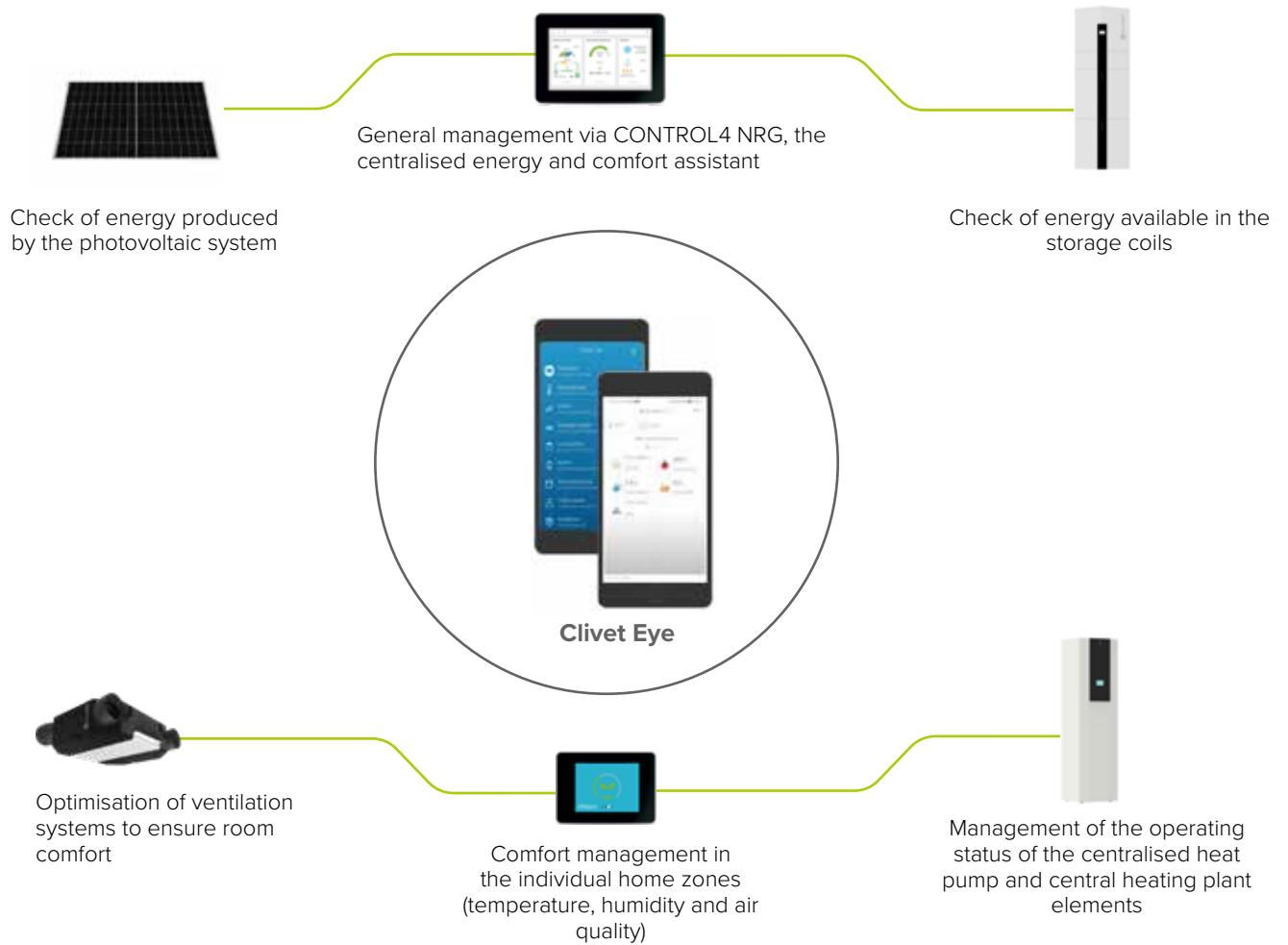
Management of lighting and small electrical loads

The versatility provided by the multiple zone module allows you to activate electrical loads such as outdoor lights or watering systems, also setting times for them to switch on and off.



Improve your comfort

The Sinergy storage system is Clivet's solution for storing the electricity produced by the photovoltaic system during daylight hours and using it to power the air-conditioning and domestic hot water production system during the night or in the event of a grid power failure. Combined with the CONTROL4 NRG energy assistant, the Sinergy series of electric accumulators ensures maximum self-consumption and energy independence in the home.



CONTROL4 NRG: the evolution of ELFOControl³ EVO

The new hardware and software release makes it possible to change from managing the air-conditioning system to managing the comfort and energy in the home or office: it integrates the solar photovoltaic system, simplifies and improves management via the App and introduces numerous other new features. In addition, it is still fully compatible with previous versions of ELFO CONTROL, making retrofitting a very viable solution.



The correct sizing of the systems, together with favourable climatic conditions, allows CONTROL4 NRG to manage home comfort and domestic hot water production storage completely free of charge, thereby achieving the goal of an energy-independent home.

Simultaneous management of up to 12 different climate zones

The living areas are pre-treated according to the availability of electricity produced by the photovoltaic system in order to prevent electricity consumption peaks on the grid due to the heat pump switching on typically during the night, thus using the Sinergy electricity storage to supply the domestic users.



At the right comfort for each area

Fast control for every area, or use of automatic programming or manual control that can be set at any time.



Improve your comfort

Clivet Eye for remote monitoring

Improve your comfort level and save energy. With the Clivet Eye App and the CONTROL4 NRG energy assistant, you can view details of heat pump consumption and the various electrical loads - such as household appliances; as well as production by the photovoltaic system.

Overall system view



Display of the status of all devices connected to CONTROL4 NRG

Climate zone management



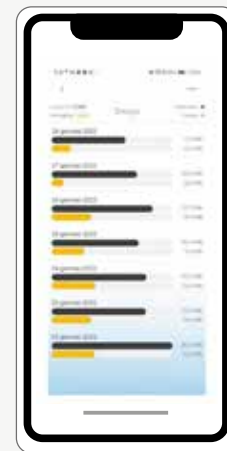
Management of the 12 independent zones, with the option of changing the temperature and setting the "energy saving" function, as well as the option of switching the zone on and off

Scheduler



Allows you to schedule comfort in different zones of the house from the App

Energy page










Designed to display the energy data of the last 7 days. Data are acquired by the electricity meters located in the system for the photovoltaic system

Smart controller

CONTROL4 NRG

Energy assistant for Clivet Smart Home



- 
 7.0" high definition touch screen
- 
 Stylish frame in black or white
- 
 Direct communication with Clivet Cloud
- 
 Communication with Clivet Smart Living Devices
- 
 Wi-Fi
- 
 Ethernet
- 
 Modbus RTU

Versions

S-W	Ethernet port, no Wi-Fi connectivity. White color
S-B	Ethernet port, no Wi-Fi connectivity. Black color
WIFI-W	Ethernet port and Wi-Fi connectivity. White color
WIFI-B	Ethernet port and Wi-Fi connectivity. Black color

Physical

Product part number	CONTROL4 NRG
Installation	Wall mounted by using mounting box (included)
Operating temperature	-5~45°C
Operating humidity	5~90 %RH
Network interface	Wi-Fi 2.4GHz/ Ethernet
Max consumption	10 W
Connecting cables	+/- power supply RJ-45 Ethernet port Serial EIA-485 connection 1x USB 2.0

Display Panel	7.0" capacitive touch screen
Resolution	800x480
Power supply	12 Vcc
Colour	White / Black
Dimensions	Dimensions = 193 x 132 x 53 mm (L x W x D) Recessed = 192 x 132 x 5 mm (L x W x D)
Weight	1260g (with accessories)
Structure	PS

A brand new home page

All the information about the system is provided on one page, from the battery charge level to the operating status of the heat pump.

It will also inform you if you are in a state of energy self-sufficiency, making it easier to make full use of your energy savings.



ELECTRICAL SYSTEM SECTION

- Production of the photovoltaic system
- Power consumption
- Entry/withdrawal from the network
- Sinergy charge/discharge level



SYSTEM SECTION

- Renewing the air in the rooms
- Heating / cooling the house
- Storing domestic hot water

ENERGY SECTION

- Heat pump efficiency
- Tips to improve your energy consumption and behaviour

Smart thermostat

HID-TSmart

HID-TSmart provides simple, intuitive and immediate access to the system's main operating parameters. Combined with CONTROL4 NRG, you can acquire different types of information from all the electrical elements such as temperature, humidity, electricity consumption, electricity produced by the photovoltaic system, and the Clivet Sinergy electricity storage charge level.



3.5-inch full colour touch screen with no physical keys



Integrated temperature and humidity sensor



Option of configuring up to 5 operating contexts



Modern gesture navigation for moving between contexts and setting parameters



Modbus RTU



Communication with CONTROL4 NRG

General

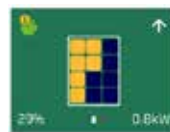
Device name	HID-TSmart	Communication protocol	Modbus RTU
Installation	Wall-mounted with mounting box	Connecting cables	Power supply +/-, Serial EIA-485
Operating temperature	-5~45°C	Display Panel	3.5-inch
Operating humidity	5~90%	Resolution	320*240
Power supply	12V cc	Temperature sensor	0 ~ 50°C, Accuracy ± 0.5°C
Typical consumption	65 mA	Buzzer	Yes

Versions

HTSBWX	White HID-TSmart thermostat with temperature sensor
HTSBXX	Black HID-TSmart thermostat with temperature sensor
HTSPWX	White HID-TSmart thermostat with temperature and humidity sensor
HTSPBX	Black HID-TSmart thermostat with temperature and humidity sensor

Features

Colour	White/Black
Dimensions	Outside dimensions: 112 x 77 x 18 mm (LxWxD)
Materials	Bottom Cover: PC, Top Cover: ABS+PC



Scroll across to move between "context" screens



Scroll up/down to change temperature setting

Indoor air quality sensor

Z-IAQ

Wall Air Quality Detector is an air quality monitor that provides real-time reading of temperature, humidity, noise, VOC, carbon monoxide, carbon dioxide, methane



High-precision sensors



Real-time values



Detection



Modbus RTU



Communication with CONTROL4 NRG

General

Device name	Z-IAQX
Installation	Wall-mounted with mounting box
Operating temperature	-10~55°C
Operating humidity	≤95% (non-condensing)
Power supply	12V direct current
Max consumption	≤100mA
Detection type	VOC, CO, CO ₂ , NO ₂ , CH ₄ , ambient noise, relative humidity and temperature

Features

Colour	White
Dimensions	110 x 70 x 28 mm (LxWxD)
Weight	172g
Coating	PC,ABS

Room sensor

HID-UR

Temperature and humidity sensor, installed in rooms without attachment to any thermostat.



Temperature and humidity sensor



In wall with adapter for civil series RJ45



Communication with CONTROL4 NRG



Modbus RTU

Features

Colour	Semi-transparent
Dimensions	22 x 45 x 50 mm (LxWxD)
Materials	Bottom Cover: PC, Top Cover: ABS+PC

General

Model name	HID-URX
Installation	To use with RJ-45 Keystone adapter
Operating temperature	-5~45°C
Operating humidity	5~90%
Power supply	12V cc
Max consumption	25 mA

Communication protocol	Modbus RTU
Connecting cables	12V power supply terminals RS-485 bus terminals (A-, B+)
Temperature sensor	-10 ~ 50°C, Accuracy ± 0.5°C
Humidity sensor	0 ~ 100% RH, Accuracy ± 5% RH

Electricity energy meters

M1NRGX

Single-phase electricity meter for monitoring the energy consumption and the energy produced by photovoltaic system



Installation on
DIN bar



Communication with
CONTROL4 NRG



Modbus RTU

General

Model name	M1NRGX	Max consumption	100 mA
Installation	DIN rail	Communication protocol	Modbus RTU
Operating temperature	-5~45°C	Connecting cables	12V power supply terminals RS-485 bus terminals (A-, B+)
Operating humidity	5~90%		
Power supply	12V cc		

M3NRGX

Three-phase electricity meter for monitoring the energy consumption and the energy produced by photovoltaic system



Installation on
DIN bar



Communication with
CONTROL4 NRG



Modbus RTU

General

Model name	M1NRGX single-phase version M3NRGX three-phase version	Max consumption	50 mA
Installation	DIN rail	Communication protocol	Modbus RTU
Operating temperature	-5~45°C	Connecting cables	12V power supply terminals RS-485 bus terminals (A-, B+) 3x "split-core" current transformers are included
Operating humidity	5~90%		
Power supply	12V cc		

Modules for zone management

BMZRX

Module for managing up to 6 HID-UR thermostats and 6 shut-off valve control outputs supplying radiant panels, radiators or heated towel rails and generic input/output functionality.



Installation on
DIN bar



Communication with
CONTROL4 NRG



Modbus RTU

General	
Device name	BMZRX
Installation	DIN rail
Operating temperature	-10~55°C
Operating humidity	≤95% (non-condensing)
Power supply	230 Vac
Typical consumption	≤100mA

Features	
Colour	White/grey
Dimensions	157 x 90 x 60 mm (LxWxD) 9 DIN modules
Outputs	6 x relay 5A
Inputs	6 x potential-free contacts 2 x temperature sensors
Weight	172g
Coating	PC,ABS

EMRSX

Mixing unit control module for managing a section of the circuit at a different temperature to that of the main system.



Installation on
DIN bar



Communication with
CONTROL4 NRG



Modbus RTU

General	
Device name	EMRSX
Installation	DIN rail
Operating temperature	-10~55°C
Operating humidity	≤95% (non-condensing)
Power supply	230 V ca
Typical consumption	≤100mA

Features	
Colour	White/grey
Dimensions	105 x 90 x 60 mm (LxWxD) 6 DIN modules
Outputs	2 x relay 5A 1 x 0-10V output
Inputs	1x temperature probe
Weight	172g
Coating	PC,ABS

Clivet: the Company

ALWAYS READY
FOR THE FUTURE

**INSPIRING
SOLUTIONS**

In over 30 years of working on the design, manufacturing and distribution of air conditioning and handling systems, combining high efficiency with minimal environmental impact, Clivet has developed solutions to ensure sustainable comfort and the well-being of people and the environment. Designing and developing year-round air conditioning solutions with innovative technologies are part of Clivet's DNA, which means the company has always been ready for the future.

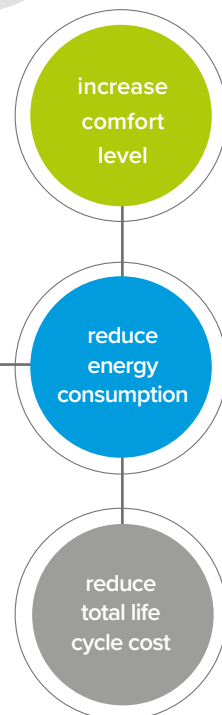


**COMFORT
FOR THE PLANET
& PEOPLE**

OUR VALUES FOR THE SECTORS

IN THE RESIDENTIAL, COMMERCIAL
AND INDUSTRIAL SECTORS

Increasing comfort, saving energy and providing customers with the best value for the entire life cycle of the system: these are the values that inspire our systems for the residential, services and industrial sectors.

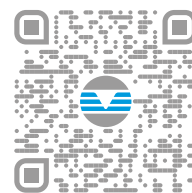


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Images may vary depending on the system layout.
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Clivet, in compliance with Regulation 517/2014, informs that its products
contain or function with the use of fluorinated greenhouse gases

FOR OVER 30 YEARS WE HAVE BEEN OFFERING SOLUTIONS TO ENSURE SUSTAINABLE COMFORT AND THE WELL-BEING OF PEOPLE AND THE ENVIRONMENT

www.clivet.com

MideaGroup
humanizing technology



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