



CLIMAV 2.0 BUILDING MANAGEMENT IMPROVED THERMOREGULATION SYSTEM

CLIMAV 2.0 BUILDING MANAGEMENT EXCELLENT COMFORT!

The definition of comfort is very clear: comfort is the condition of psycho-physical well-being, depending on the sensations of each individual, determined by temperature, humidity, noise and luminosity detected in the environment where it is located. Clearly the scope of this publication focuses on that part of the comfort called "thermohygrometric" where the type of heating/cooling system mainly affects.



SURROUND YOURSELF WITH THE NEW COMFORT

Climav 2.0 Building Management system is designed for any system regardless of its type and size, both for heating and cooling, or with regulation of different flow temperatures.

Temperature and humidity room probes communicate with the central system and can detect at any time different climate changes, thus self-regulating according to the temperature required.

HOW IT WORKS

Climav 2.0 Building Management thermoregulation system is ideal to manage radiant floor and/or ceiling systems operating both in summer and winter, thus guaranteeing the comfort required and significant energy savings.

High modularity enables the regulation system to control different types of building, from small size residential ones to commercial and service-providing buildings, integrating necessary energy supply with renewable energy sources and controlling different room variables (temperature, relative humidity, etc.) by means of controlled mechanic ventilation.

TIEMME thermoregulation system has a series of peculiarities:

- **Easy to install:** connections of system components via bus are easy and do not depend on specific logic sequences. This results in a significant reduction of wiring time.
- **Modularity:** the regulation system can be expanded, thus adjusting to specific system requirements and to potential updated configurations in the future.
- **Flexibility:** different types of regulation are available, thus allowing to use the system in a wide range of buildings and guaranteeing safety in the management of different system aspects.
- **Communication:** WEB management enables remote use of the system and remote control, diagnostics, and data storage both by the user and the maintainer.
- **Visibility:** the system comes with a wide range of temperature/humidity probes with built-in or external installation, all communicating with different room thermostats.





THE WORLD IS BECOMING SMARTER AND SMARTER

The world is constantly evolving along with the needs of people. Digital, smart and flexible home solutions are increasingly sought after and require a specific study from the early stages of design. Tiemme paves the way for this change and is actively developing a range of systems for Augmented Buildings, designed for those who design, build and live in them.



WHAT MAKES IT UNIQUE

USER-FRIENDLY TOUCH INTERFACE

The bright color display allows to manage in real time all the system functions for each room. Lightly touch the touchscreen to view the intuitive graphic interface and start interacting with the system.

TIME PROGRAMMING

The system perfectly integrates with your personal habits. The program of each room can be tailored to manage parameters and time slots.

MODULARITY

The system perfectly adjust to a house's specific requirements, with the possibility of future expansions if new configurations are developed. Climav 2.0 Building Management is the first system communicating with KNX and MODBUS protocol through an interface.



UNIQUE

Climav 2.0 Building Management has unprecedented quality compared with traditional regulations, like fixed point or traditional climate regulations. Climav 2.0 Building Management allows to control any climate aspect: heating, cooling, humidity management, ventilation control for air exchange. A superior comfort rooted in a correct use of energy and in the optimization of energetic and economic consumptions.

CONSUMPTION MONITORING

It allows you to constantly track the energy consumption of the generators installed, allowing you to identify any critical factors and allow for improvement.

CLIMAV 2.0 AND THE BUILDING AUTOMATION

The "Building Automation" refers to the integration of the technology within a plant for its management, responds to the growing need to design smart buildings to ensure **energy efficiency, quick maintenance and environmental sustainability**.



AN APP TO MANAGE YOUR HOUSE

View and control in real time your domestic well being in each room, while driving your car or working at the office, you only need to touch your smartphone's display. Tiemme made this possible with an app developed for their Climav 2.0 Building Management regulation system.

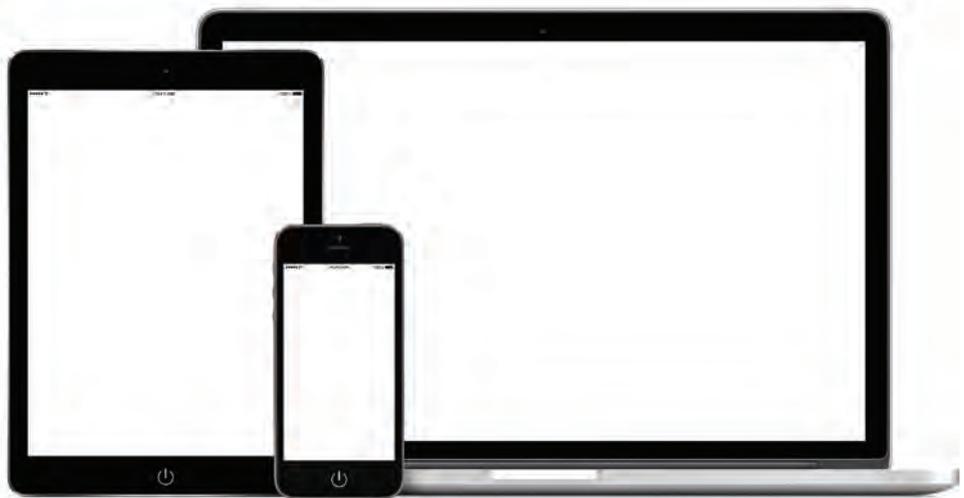




ZONE 3 🌡️ 19.0 °C

ZONE 4 🌡️ 18.0 °C

APP AVAILABLE FOR BOTH ANDROID AND IOS



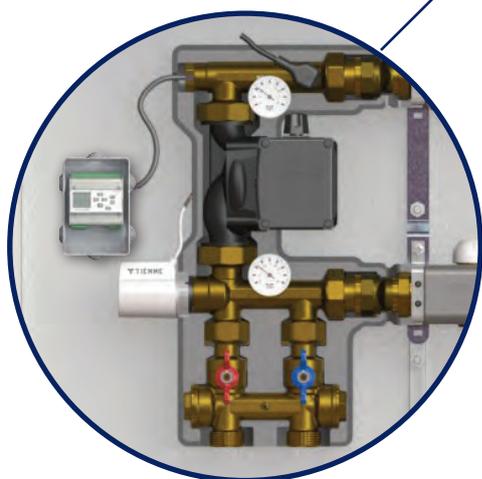
EXAMPLES OF ARRANGEMENTS

BASE SYSTEM

Example of small house managed with a climate compensation heating system.

BASE SYSTEM is made with a climatic RC_SA control, art. 5530M5 - 5530M6, and allows to manage:

- 1 mixing unit with analog or 3-point servomotor;
- compensation of flow temperature with external and internal probes;
- 1 thermal zone (room temperature probe).



1. Boiler
2. External probe
3. Radiant system collector equipped with mixing unit
4. Room temperature probe

SYSTEM COMPONENTS



RC_SA
5530M5
5530M6
Climate control



T_EXT
5530E
External probe



5530P
Fluid temperature probe



T_P
5530I9
Room temperature probe

EVO SYSTEM 1

Example of a heated flat.

EVO SYSTEM 1, created with a MHC BASIC master module, art. 5530M8, allows to manage:

- 1 heat generator for heating alone;
- 1 distribution unit with mixing function;
- 6 thermal zones (room temperature probes);
- External probe;
- Inflow probe.



1. Radiant system collector equipped with mixing unit
2. Room temperature probe
3. External probe
4. Boiler

SYSTEM COMPONENTS



MHC BASIC
5530M8
Master module



T_EXT
5530E
External probe



5530P
Fluid temperature probe



T_P
5530I9
Room temperature probe



CLIMAV 6000
5530V
Viewer



MPW22COM
5530M2COM
Power supply

 Module connection is made with a RS485 serial line.

EXAMPLES OF ARRANGEMENTS

EVO SYSTEM 2

Example of a flat heated/cooled with climate compensation and humidity control using a dehumidifier.

EVO SYSTEM 2, created with a MHC BASIC master module, art. 5530M1, allows to manage:

- 2 heat generators for heating or cooling alone;
- Distribution units with mixing function;
- 8 thermal zones (room temperature/humidity probes);
- External probe.
- Inflow probe.



1. Radiant system collector equipped with mixing unit
2. Room temperature and humidity probe
3. Dehumidifier
4. External probe
5. Boiler + heat pump
6. Room temperature probe

SYSTEM COMPONENTS



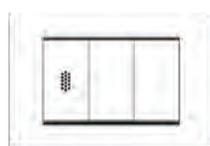
MHC
5530M1
Master module



T_EXT
5530E
External probe



5530P
Fluid temperature probe



T_P - TH_P
5530I9 - 5530I10
Room temperature and
room temperature/
humidity probes



CLIMAV 6000
5530V
Viewer



MPW22COM
5530M2COM
Power supply

 Module connection is made with a RS485 serial line.

EVO SYSTEM 3

Example of a flat heated/cooled with climate compensation, humidity control using a dehumidifier and controlled mechanical ventilation (CMV).
EVO SYSTEM 3, created with a MHC BASIC master module, art. 5530M1, allows to manage:



- 2 heat generators for heating or cooling alone;
- Distribution units with mixing function;
- 8 thermal zones (room temperature/humidity probes);
- External probe;
- Inflow probe;
- Slave SFDC module management (CMV control).



1. Radiant system collector equipped with mixing unit
2. Room temperature and humidity probe
3. Dehumidifier
4. CMV (SFDC module)
5. External probe
6. Boiler + heat pump
7. Room temperature probe

 Module connection is made with a RS485 serial line.

SYSTEM COMPONENTS



MHC
5530M1
Master module



SFDC
5530S7
CMV managed slave module



T_EXT
5530E
External probe



5530P
Fluid temperature probe



T_P - TH_P
5530I9 - 5530I10
Room temperature and room temperature/humidity probes



CLIMAV 6000
5530V
Viewer



MPW22COM
5530M2COM
Power supply

PRODUCT RANGE

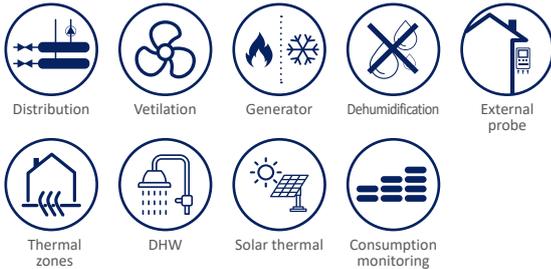
CLIMAV 6000 - VISOR



5530V

CLIMAV 6000 is a capacitive touchscreen visor bringing true innovation in building management. When connected to the master unit (MHC or MHC BASIC) allows the user to completely control the entire thermoregulation system. Linear minimalist design makes it suitable for any residential or working environment.

The 4:3 4.1" display allows to intuitively benefit from all the potential of a smart system. CLIMAV 6000 comes with an internal watch and a USB port for software updates. Available in white or black.



TECHNICAL SPECIFICATIONS

- Voltage: 12-24 Vac / Vdc
- Power consumption: 4 VA
- Internal fuse: 5 A delayed
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on the wall
- Display: graphic color TFT 4.1" display
- Programming: touchscreen
- Size (LxHxP): 122 x 88 x 18 mm

Code	Color
555 0101	<input type="checkbox"/> White
555 0336	<input checked="" type="checkbox"/> Black

MHC BASIC - MASTER MODULE



5530M8

MHC BASIC master module for system control. The module can control 6 thermal zones (Temperature and Temperature/Humidity), 1 energy source, 1 mixing unit with analog actuator and, optionally, a dehumidifier (replacing a thermal zone).



TECHNICAL SPECIFICATIONS

- Voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- Inlets:
 - 6 inlets for T and T+H room probes
 - 2 inlets (NTC) for external probe (T_EXT) and inflow probe (5530P)
- Outgoes:
 - 6 relays (1 per zone) to manage electro-thermal servo controls (a servo control can be replaced by a dehumidifier).
 - 1 0-10 V or 4-20 mA control (software-setting) to control the mixing system.
 - 1 relay to switch circulating pumps on/off
 - 1 relay to switch the power generator on/off (heating only or cooling only)
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

i To connect to the CLIMAV 6000 visor.

Code	Type
555 0344	-

MHC - MASTER MODULE



5530M1

Master module to use in Climav 2.0 Building Management thermoregulating system with CLIMAV 6000 visor. MHC module is one of the main components of the system and has a small view-only display and three led lamps signaling the operating status of the device. This module allows to manage 8 thermal zones/dehumidifiers, 4 distribution/mixing units with analog actuator and 2 power generators (heating only or cooling only). It is also possible to extend functions by connecting further slave modules via bus.



TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- Display: Graphic 16x2 line display, 3 LEDs (red, yellow, green), 3 buttons
- Inlets:
 - 8 inlets for T and T+H room probes
 - 2 inlets (NTC) for external probe (T_EXT) and inflow probe (5530P)
 - 1 digital inlet for switching season (summer/winter)
 - 3 impulsive inlets for consumption monitoring
- Outgoes:
 - 8 relays (1 per zone) to handle electro-thermal servo controllers
 - 4 0-10 V or 4-20 mA controls (software-setting) to control the mixing system
 - 4 relay to switch circulating pumps on/off
 - 2 relays to switch power generators on/off (heating only, cooling only or both)
 - 1 relay to signal season change
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

Code

555 0106

Type

-

SFDC - SLAVE MODULE



5530S7

SFDC slave module allows two control 2 fail coil units (without electronic elements) or a complete Controlled Mechanical Ventilation (CMV) unit (dehumidification, renewal, integration).



Ventilation

Dehumidification

TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- Inlets:
 - 1 request of bathroom renovation (free contact)
 - 1 unit anomaly (free contact)
- Outgoes:
 - 1 relay to switch summer/winter
 - 1 relay to request dehumidification
 - 1 relay to request renovation
 - 1 relay to request bathroom renovation (free contact)
 - 1 relay to turn unit on/off
 - 1 relay to request integration
 - 1 relay to request ventilation
 - 1 modulation of battery valve
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

i To manage CMV

Code

555 0119

Type

-

PRODUCT RANGE

SZC - SLAVE MODULE



5530S4

SZC slave module expands and integrate basic functions of MHC master module, allowing to manage 8 further thermal zones. Specifically, it enables the connection of 8 further Temperature and/or Temperature/humidity probes, and the control of electro-thermal servo controllers.



Thermal zones



Dehumidification

TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- 8 inlets for T and T+H room probes
- 8 relay outlets (1 per zone) to handle electro-thermal servo controllers
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

i For expansion of 8 thermal zones

Code	Type
555 0116	-

SBC - SLAVE MODULE



5530S5

SBC slave module expands and integrate basic functions of MHC master module, allowing to manage 3 further heating/cooling generators. Specifically, it can control their activation/deactivation, operation priority, set-point and alarms.



Generator

TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- Inlets
 - 3 inlets to activate generators
 - 3 generator alarms (free contact)
 - 6 inlets (NTC) for inflow/return generator probes
- Outgoes:
 - 3 relays to control generator activation
 - 3 relays for generator switchover
 - 2 inlets to activate generator setpoints
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

i To manage up to 3 heating/cooling generators

Code	Type
555 0117	-

SSCC - SLAVE MODULE



5530S6

SSCC slave module expands and integrate basic functions of MHC master module, allowing to manage the solar thermal system. Specifically, it allows to program 8 different patterns, manage system protections, accumulations and pumps.



Solar thermal

TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- Inlets:
 - 4 endswitches for motorized valves
 - 2 thermal protection inlets for solar thermal pumps
 - 9 inlets (PT1000) for temperature probes
- Outgoes:
 - 4 relays to control motorized valves
 - 2 relays to control solar pumps
 - 2 analog controllers for solar pumps
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

i To manage the solar thermal system

Code	Type
555 0118	-

SMC - SLAVE MODULE



5530S1

SMC slave module expands and integrate basic functions of MHC master module, allowing to manage 4 analog mixing valves. Specifically, it manages their (0-10 Vdc or 4-20 mA) control, setpoint temperatures and relevant pumps.



Distribution

TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- Inlets:
 - 4 inlets for circulation pumps (free contact)
 - 4 inlets for flow temperature probes (NTC)
- Outgoes:
 - 4 relays to turn circulation pumps on/off
 - 4 analog controllers (0-10 V or 4-24 mA) to modulate mixing valves
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

i As an expansion, 4 mixing valves with analog actuator

Code	Type
555 0114	-

PRODUCT RANGE

SMRC - SLAVE MODULE



5530S2

SMRC slave module expands and integrate basic functions of MHC master module, thus managing 4 mixing units with 3-point actuator or 2 twin circulating pumps, by means of 8 internal relays programming.



Distribution

TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- 8 relay outlets to open/close 3-point mixing valves or 8 relays to turn 2 twin pumps ON/OFF
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

i To manage 4 mixing valves with 3-point actuator or twin circulating pumps

Code	Type
555 0154	-

SACS - SLAVE MODULE



5530S3

SACS slave module expands and integrate basic functions of MHC master module, allowing to manage the domestic hot water storage system. Specifically, it manages storage temperature and safety, domestic hot water flow temperature, the Legionella prevention cycle, and any integration with electrical resistor.



DHW

TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Relay capacity: 6 A 250Vac
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (6 modules)
- Inlets:
 - 1 inlet for safety thermostat for domestic hot water tank (free contact)
 - 1 inlet for thermal protection of recirculation pump
 - 1 inlet for thermal protection of resistors
 - 4 inlets (NTC) for storage (top and bottom) flow and return probes
 - 1 inlet (NTC) to manage generator priority
- Outgoes:
 - 1 relay to switch recirculation pump on
 - 2 relays to switch electrical resistors on
 - 1 outlet with powered Legionella prevention cycle
 - 2 relays to control 3 point mixing valves
 - 1 outlet to control domestic hot water mixing valve
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

i To handle domestic hot water production system

Code	Type
555 0115	-

SKNX - SLAVE MODULE



5530S10

Bus domotics SKNX adapter allows to interface between communication protocols widely employed automated environments. SKNX module enables the interaction between several building subsystems, by operating on KONNEX bus networks. To be coupled with GATEWAY module.



KNX building automation



TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (2 modules)
- Ports:
 - RS232 standard for interfacing with GATEWAY module
 - Bus KNX connection (signal + power supply)

 To communicate with Konnex networks

Code	Type
555 0320	-

GATEWAY - SLAVE MODULE



5530S11

GATEWAY slave module allows to remotely manage the entire advanced Climav 2.0 Building Management thermoregulation system, by using the APP (available for both Android and IOS). Moreover, it is needed for interfacing with MODBUS-based external systems and, with SKNX module, with KONNEX systems.



Remote control



KNX building automation

Modbus® 

TECHNICAL SPECIFICATIONS

- Inlet voltage: 12-24 Vac / Vdc
- Power consumption: 7 VA
- Protection category: IP40
- Protection class: II
- Operating room temperature: 0 ÷ 40 °C
- Relative humidity of operating environment: Up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Shell: Plastic ABS
- Installation: on DIN track (2 modules)
- Ports:
 - WiBus on 485 network for interfacing with CLIMAV visor
 - RS232 standard for interfacing with KNX, MODBUS
 - Ethernet RJ45 10/100 Mb

 For remote communication with Climav 2.0 Building Management system

Code	Type
555 0346	-

PRODUCT RANGE

MPW22COM - POWER SUPPLY UNIT



5530M2COM

230/24 Vac power supply unit to feed the entire Climav 2.0 Building Management thermoregulation system.

TECHNICAL SPECIFICATIONS

- Inlet voltage: 100 ÷ 230 Vac / 50 ÷ 60 Hz
- Output voltage: 24 Vdc
- Power consumption: 45 W
- Electronic protections: thermal, overcharge, short circuit
- Protection category: IP20
- Protection class: II
- Operating room temperature: -10 ÷ 60 °C
- Relative non-condensed humidity: <95 °C
- Storage temperature: 0 ÷ 60 °C
- Shell: ULP4V-0 fireproof thermoplastic
- Installation: on DIN track (4 modules)
- Size (LxHxP): 70 x 90 x 66 mm (4 DIN modules)

Code	Type
555 0338	-

RC_SA - CLIMATE CONTROL



5530M5 5530M6

RC_SA climate control allows to control fluid medium temperature in heating and climate regulation systems, by controlling a mixing valve with proportional or 3-point servomotor.

DESCRIPTION

The control enables the following management modes of fluid medium temperature:

- climate compensation by installing an external probe;
- climate compensation by installing an external and a room probe;
- compensation by analyzing system return temperature (only in heating mode).

Depending on connected devices, it is possible to control one or two different thermal zones and switch any neutral air dehumidifier on.

TECHNICAL SPECIFICATIONS

- Power supply: 85 ÷ 230 Vac 50/60 Hz or 24 Vac
- Consumption: 5 W
- Protection fuse: 1 A
- Graphic display: 1.8" color
- Size: no. 6 modules to be installed on DIN bar
- Keyboard programming: 7-key board
- Inlets:
 - Combined thermostat inlet:
 - Inlet for remote summer-winter switching
 - ON/OFF remote inlet
 - Climav 2.0 Building Management system room probe
 - 5530 external probe
 - 5530P inflow probe
 - 5530P return probe
- Outgoes:
 - 1 ON/OFF contact to switch the pump on
 - 1 ON/OFF contact to control the dehumidifier
 - 1 ON/OFF contact to switch the thermal zone on
 - 0-10 V to control proportional servomotor
 - 2 ON/OFF contacts to control 3-point servomotor
- Size (LxHxP): 105 x 95 x 60 mm (6 DIN modules)

 For system climate regulation

Code	Power supply
Art. 5530M5	
555 0302	85-230 Vac
Art. 5530M6	
555 0304	24 Vac

T_EXT



5530E

Temperature and humidity external probe
Used in Climav 2.0 Building Management thermoregulation system to compensate in climate regulation.

TECHNICAL SPECIFICATIONS

- Resistance: 10Kohm at 25 °C
- Protection class: II
- Shell: Plastic ABS
- Installation: on the wall
- Protection category: IP54
- Measuring range: -40 ÷ +110 °C
- External environmental temperature: 15 ÷ 55 °C
- External relative humidity: up to 85 % at T=25 °C
- Storage temperature: 0 ÷ 60 °C
- Relative storage humidity: no condensation
- Size: 74 x 109 x 59 mm

Code	Type
555 0145	-

5530P

NTC 10KΩ @ 25°C, 6 mm diameter temperature probe



Code	Type
555 0149	-

T_G



5530E2

Wall installation temperature environmental probe

TECHNICAL SPECIFICATIONS

- Size (LxHxP): 120 x 80 x 20 mm

 To be placed in each room and connected to Climav 2.0 Building Management system.

Code	Color
555 0140	<input type="checkbox"/> White
555 0342	<input checked="" type="checkbox"/> Black

TH_G



5530E1

Wall installation temperature/humidity environmental probe

TECHNICAL SPECIFICATIONS

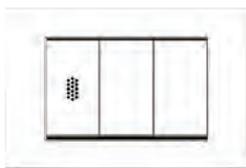
- Size (LxHxP): 120 x 80 x 20 mm

 To be placed in each room and connected to Climav 2.0 Building Management system.

Code	Color
555 0139	<input type="checkbox"/> White
555 0340	<input checked="" type="checkbox"/> Black



T_P

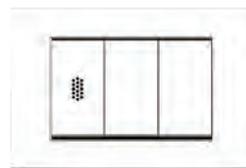


553019
In-built temperature
environmental probe.

- i** To be placed in 503 box. Signal the civil series employed (e.g., Vimar Idea, Piana, Bticino Light, Light Tech, etc.) to Tiemme's technician, so as to match the house's aesthetic features.
- i** To be placed in each room and connected to Climav 2.0 Building Management system.

Code	Civil line
555 0327	upon request

TH_P

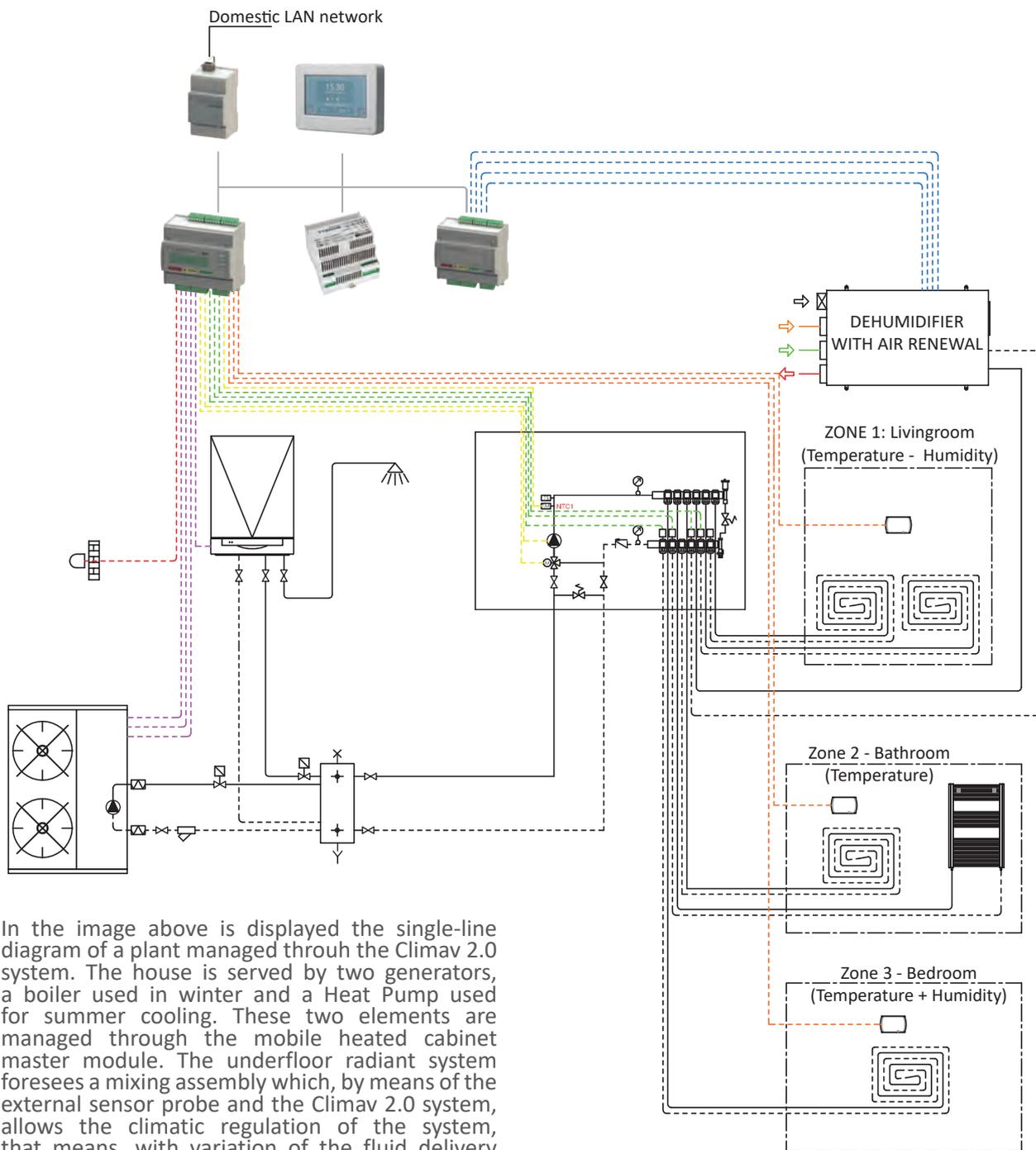


5530110
In-built temperature/
humidity environmental
probe.

- i** To be placed in 503 box. Signal the civil series employed (e.g., Vimar Idea, Piana, Bticino Light, Light Tech, etc.) to Tiemme's technician, so as to match the house's aesthetic features.
- i** To be placed in each room and connected to Climav 2.0 Building Management system.

Code	Civil line
555 0329	upon request

CLIMAV 2.0 BUILDING MANAGEMENT SINGLE-LINE DIAGRAM



In the image above is displayed the single-line diagram of a plant managed through the Climav 2.0 system. The house is served by two generators, a boiler used in winter and a Heat Pump used for summer cooling. These two elements are managed through the mobile heated cabinet master module. The underfloor radiant system foresees a mixing assembly which, by means of the external sensor probe and the Climav 2.0 system, allows the climatic regulation of the system, that means, with variation of the fluid delivery temperature according to the external / internal climatic factors. In the apartment there is also a controlled mechanical ventilation unit (VMC), which combined with the specific fluid delivery management module allows our thermoregulation to keep the humidity in the environment under control, to manage renewal, recirculation and freecooling. Moreover, through the GATEWAY module (optional) it is possible to easily control the comfort of your home through the use of the CLIMAV App.



TIEMME RACCORDERIE S.p.A.

Via Cavallera, n. 6/A - 25045 Castegnato (BS) - Italy
Tel. +39 030 2142211 - Fax +39 030 2142206
info@tiemme.com



Customer Service Fax +39 030 2142254
customerservice@tiemme.com

www.tiemme.com



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