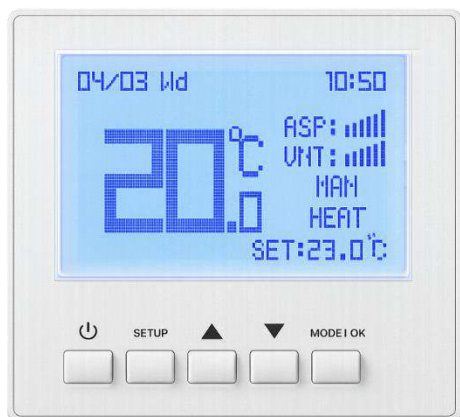


## HCP Series

Control Panels

20260417R1

Technical Catalogue



**HCP.2021** is a modern HVAC room control panel designed for heat recovery units, ventilation systems and various air conditioning applications requiring reliable and user-friendly room climate control functionality.

Featuring front push buttons, the device enables intuitive adjustment of temperature setpoint, fan speed, operating modes and weekly scheduling parameters. The integrated Modbus RTU Master communication infrastructure allows seamless connectivity with HVAC controllers and building management systems.

**HCP.2021** is developed to provide stable daily operation together with simplified commissioning and service access. Adjustable display parameters, configurable operating functions and flexible system settings make the device suitable for both residential and commercial HVAC applications.

Its compact wall-mounted structure and modern front design allow seamless adaptation to contemporary indoor environments while maintaining dependable operational performance and long-term reliability.

### Features

- Front Push Button Control
- Fan Speed & Temperature Control
- Weekly Scheduler Function
- Modbus RTU Master Communication
- Configurable HVAC Parameters
- Adjustable Display Settings
- Compact and Modern Design
- Residential & Commercial HVAC Compatibility

### Order Codes

HCP.2021

HVAC Room Control Panel

### Warnings



**Before installing and operating the device, carefully read the user manual and the instructions below.**

- The user is responsible for any damage, loss, or injury caused by improper use or failure to follow these instructions.
- Do not modify, disassemble, or attempt to repair the device.
- Ensure correct supply voltage before powering the device.
- Disconnect power before installation and wiring.

Failure to comply with these instructions may result in device malfunction and will void the warranty.

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### Technical Specifications

<b>Electrical Data</b>	Power Supply	5 VDC ±10%
	Power Consumption	1 W
	Connection	Terminal block, 1.5 mm <sup>2</sup>
	Communication	Modbus RTU Master (RS-485)
<b>Environmental Conditions</b>	Operating Temperature	0 ... +50°C
	Storage Temperature	-10 ... +60°C (without icing and condensation)
	Relative Humidity	Max. 90% RH (non-condensing)
<b>User Functions</b>	Display	LCD Display
	User Interface	Front Push Button Control
	Control Mode	Heating / Cooling / Ventilation
	Fan Control	Separate Aspirator & Ventilation Fan Control
	Weekly Program	Available
	Parameter Access	Available with Password
<b>Protection &amp; Standards</b>	Key Lock	Available
	Protection Degree	IP 20
	Standard	EN 60529
	Housing	PC Plastic Enclosure
	Color Options	White

### Enclosure Specifications

Mounting	Wall mounting
Dimensions	W86xH86xD22mm (Width x Height x Depth)
Visible Screen Area	W66×H46mm
Weight	128 g.

### Connections

The device must be installed and operated in accordance with applicable electrical regulations.

- Ensure that the power supply is disconnected before installation and wiring.
- Use appropriate cable cross-sections according to load and installation conditions.
- Do not route signal cables together with power cables.
- Protect the device from moisture, dust, and vibration.

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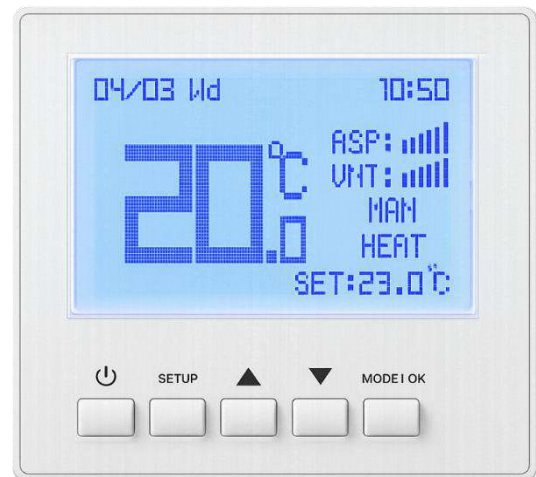
### User Interface & Operation

The main screen provides real-time monitoring of room temperature, operating mode and fan status. Users can easily adjust the set temperature and navigate device functions using the front touch buttons.

The display shows:

- Current room temperature
- Set temperature
- Fan speed level
- Operating mode
- Date and time information

The touch buttons provide quick access to setup menu, mode selection and temperature adjustment functions.



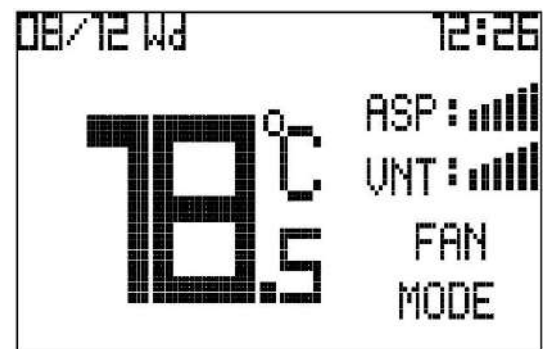
Button	Function
Power	Device On / Off
Setup	Access Settings Menu
▲	Increase Value / Navigate Up
▼	Decrease Value / Navigate Down
Mode / OK	Mode Selection / Confirm

### Operating Modes

The device supports multiple operating modes, allowing flexible HVAC operation based on system requirements. Modes can be selected directly via the touch interface.

- **Fan Mode** – Ventilation only (no heating or cooling)
- **Manual Heat** – User-defined heating operation
- **Manual Cool** – User-defined cooling operation
- **Auto Mode** – Automatically switches between heating and cooling operation.

The active operating mode is displayed on the main screen for easy monitoring.

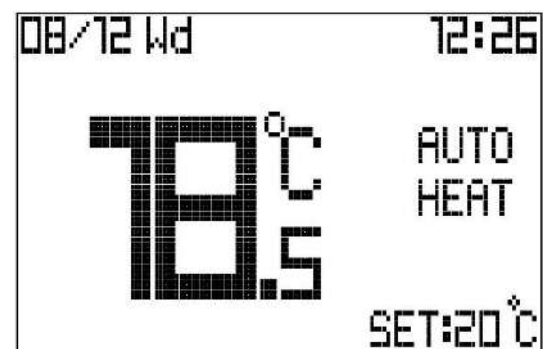


### Set Temperature Adjustment

The set temperature can be adjusted directly from the main screen when the device operates in heating or cooling mode.

Press the **Mode / OK** button once to activate the set temperature value. The temperature setting flashes on the display and can be adjusted using the **▲** and **▼** buttons.

The updated temperature value is automatically saved after adjustment.



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### Weekly Program

The HCP.2021 includes a weekly scheduling function for automatic HVAC operation during selected time periods.

Users can define separate start and stop times for each day of the week through the settings menu. The controller automatically manages system operation according to the programmed schedule.



The weekly program menu allows:

- Daily start and stop time adjustment
- Individual weekday programming
- Automatic scheduled operation
- Weekly timer activation and deactivation

When the weekly schedule is active, the clock icon appears on the main display screen.

#### Weekly Program Indicators

⏻ + Power Icon

**Weekly program is active and the device is operating.**

🕒 Clock Icon

**Weekly program is enabled.**

#### Notes

- Weekly schedule settings can be configured individually for each day.
- If the stop time is earlier than the start time, operation continues until the next programmed stop period.

### Date & Time Settings

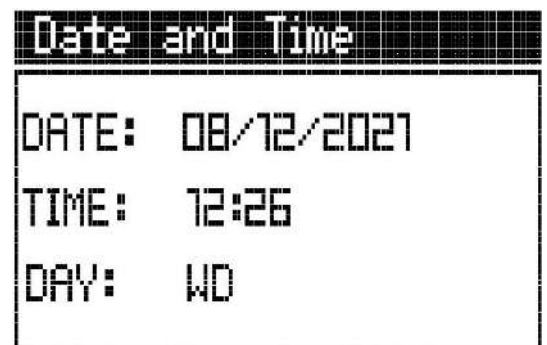
The device includes an integrated date and time setting function for weekly scheduling and time-based HVAC operation.

Users can configure:

- Date information
- Time information
- Day of the week

All settings are adjusted through the touch interface using the navigation and confirmation buttons.

Correct date and time configuration is required for accurate weekly program operation.



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### Language Selection

The device supports multiple language options for convenient user operation in different regions and applications.

Press and hold the **SETUP** button to enter the settings menu. Select the language menu using the ▲ and ▼ buttons and confirm with the **Mode / OK** button. The selected language is automatically saved after confirmation.

*Available language options may vary according to device configuration.*

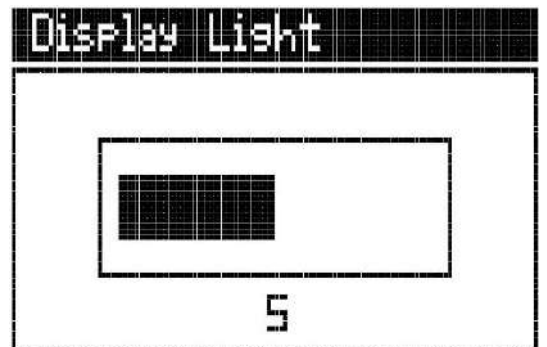


### Display Light Adjustment

The display light intensity can be adjusted through the settings menu for improved visibility under different indoor lighting conditions.

Press and hold the **SETUP** button to enter the settings menu. Select the display light menu using the ▲ and ▼ buttons. Adjust the brightness level using the touch buttons and confirm with the **Mode / OK** button.

The selected brightness value is automatically saved after adjustment.

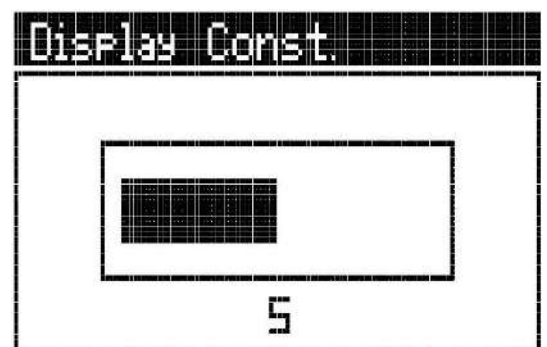


### Display Contrast Adjustment

The display contrast level can be adjusted through the settings menu to improve screen readability under different viewing conditions.

Press and hold the **SETUP** button to enter the settings menu. Select the display contrast menu using the ▲ and ▼ buttons. Adjust the contrast value using the touch buttons and confirm with the **Mode / OK** button.

The selected contrast setting is automatically saved after adjustment.

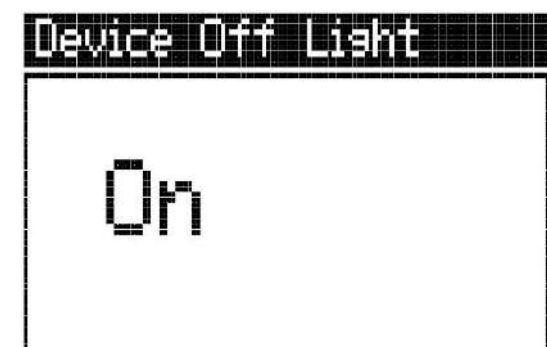


### Device On/Off Screen Light

The HCP.2021 allows the display backlight to remain active or turn off while the device is in **OFF mode**.

Press and hold the **SETUP** button to enter the settings menu. Select the device off light menu using the ▲ and ▼ buttons and choose the desired setting with the **Mode / OK** button.

The selected setting is automatically saved after adjustment.



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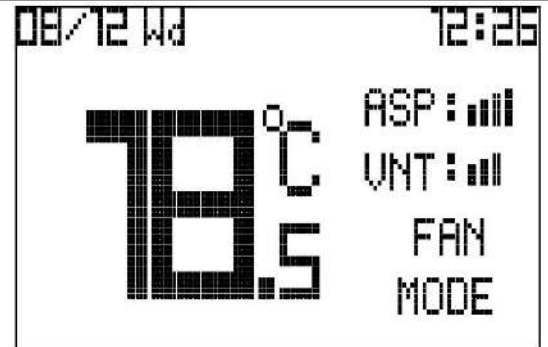
Technical Catalogue

### Fan and Ventilation Level Adjustment

The fan speed and ventilation level can be adjusted directly from the main screen when the device operates in manual or fan mode.

Press the **Mode / OK** button to select the desired adjustment parameter. The selected value flashes on the display and can be adjusted using the **▲** and **▼** buttons.

The updated operating level is automatically saved after adjustment.

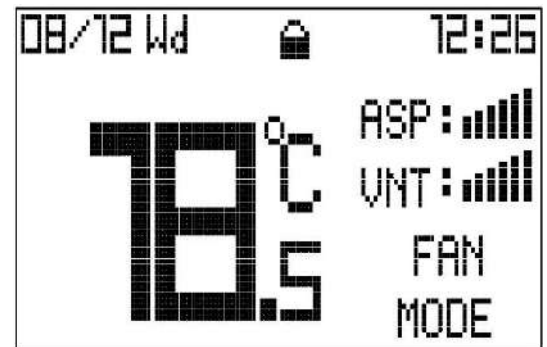


### Key Lock Function

The HCP.2021 includes a key lock function to prevent unauthorized parameter or setting changes during normal operation.

Press and hold the **SETUP** and **▼** buttons simultaneously for 5 seconds to enable or disable the key lock function.

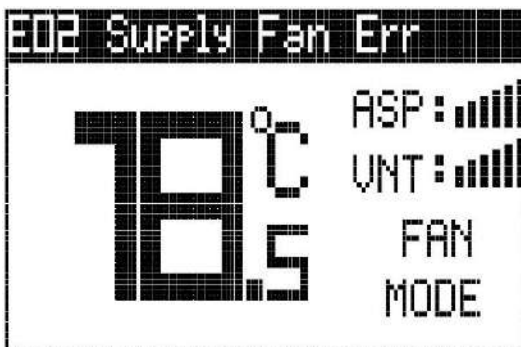
*When key lock is active, the lock icon appears on the display.*



### Fault Reset Function

When a fault condition occurs, the related fault code is displayed on the main screen.

Press and hold the **SETUP** and **▲** buttons simultaneously to reset the active fault condition. After a successful reset operation, the device returns to normal operating mode.



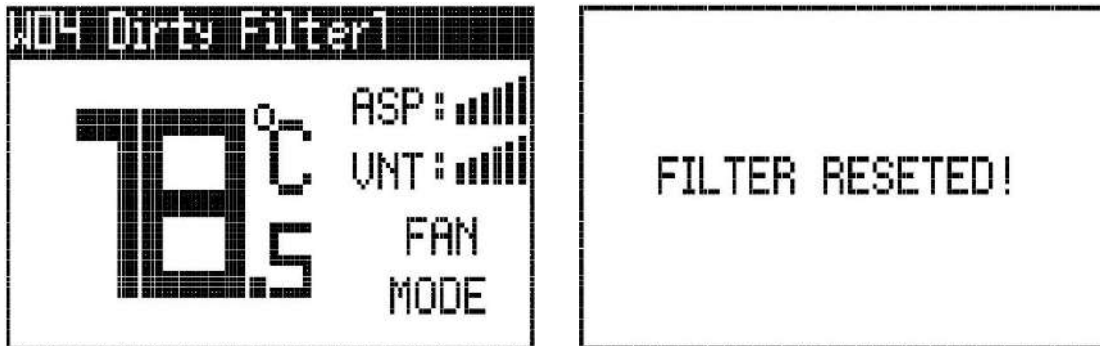
## HCP Series

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### Filter Warning Reset



The HCP.2021 supports time-based filter warning monitoring for ventilation system maintenance applications.

When a filter warning is displayed on the screen, the warning can be reset after filter maintenance is completed by pressing the **SETUP** and **Mode / OK** buttons simultaneously.

#### Notes

- Filter warning duration can be configured through service parameters.
- Instant filter operating time can be monitored from the parameter menu.

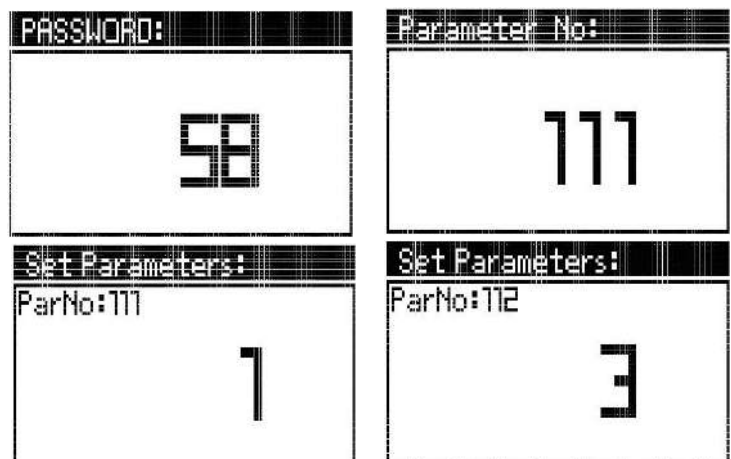
### MODBUS-RTU Configuration

The HCP.2021 supports Modbus RTU communication for integration with HVAC controllers and building automation systems.

Communication parameters can be configured through the service parameter menu. Authorized users can adjust device communication settings such as Modbus address and baud rate according to system requirements.

#### Supported baud rate options:

- 1200 bps
- 2400 bps
- 4800 bps
- 9600 bps
- 19200 bps
- 38400 bps
- 57600 bps



#### Notes

- Default service password: **58**
- Default Modbus Address Parameter: **111**
- Default Baud Rate Parameter: **112**
- Communication format is fixed as **8 Data Bits, No Parity, 1 Stop Bit**
- All Modbus parameters are stored as signed integer values



#### Warning

Parameter changes in the service menu should only be performed by authorized technical personnel. Incorrect communication settings may interrupt Modbus communication or device operation.

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### Fault List

Code	Description
E0001	Aspirator Fan Fault
E0002	Ventilation Fan Fault
E0004	Electric Heater Fault
E0008	Aspirator Airflow Fault
E0016	Ventilation Airflow Fault
E0032	Compressor Fault
E0064	Low Pressure Fault
E0128	High Pressure Fault
E0256	Fire Alarm Fault
E0512	Phase Fault
E1024	VRF Fault
E0099	Panel Communication Fault

### Warning List

Code	Description
W01	Disabled by Building Automation System
W02	Boost Mode
W04	Filter 1 Dirty
W08	Filter 2 Dirty
W16	Defrost Mode
W32	Frost Thermostat
W64	Emergency

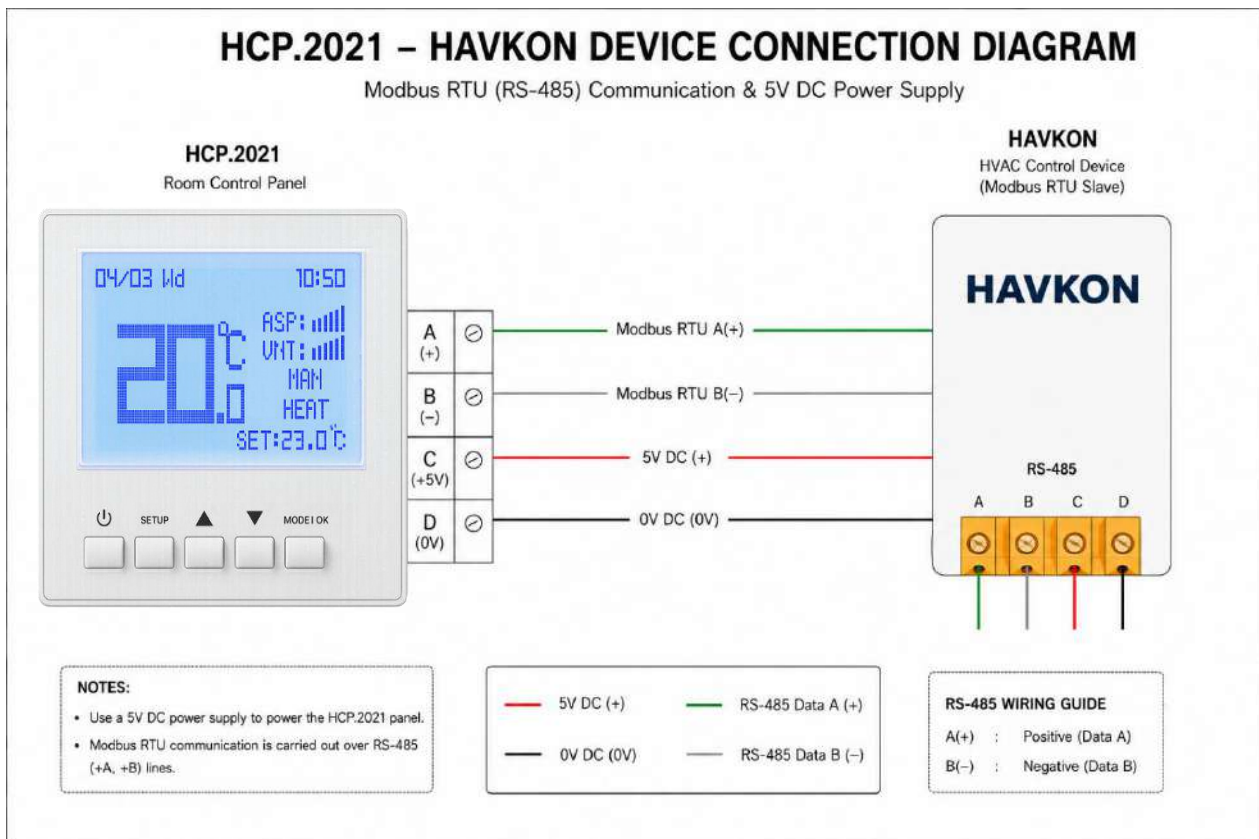
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### Wiring Diagram



#### Notes

- Do not route communication cables together with power cables.
- Recommended maximum communication distance is 50 meters.
- Use minimum 4 × 0.50 mm<sup>2</sup> communication cable.

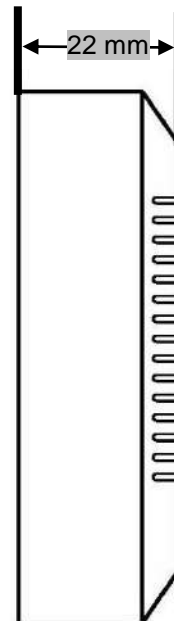
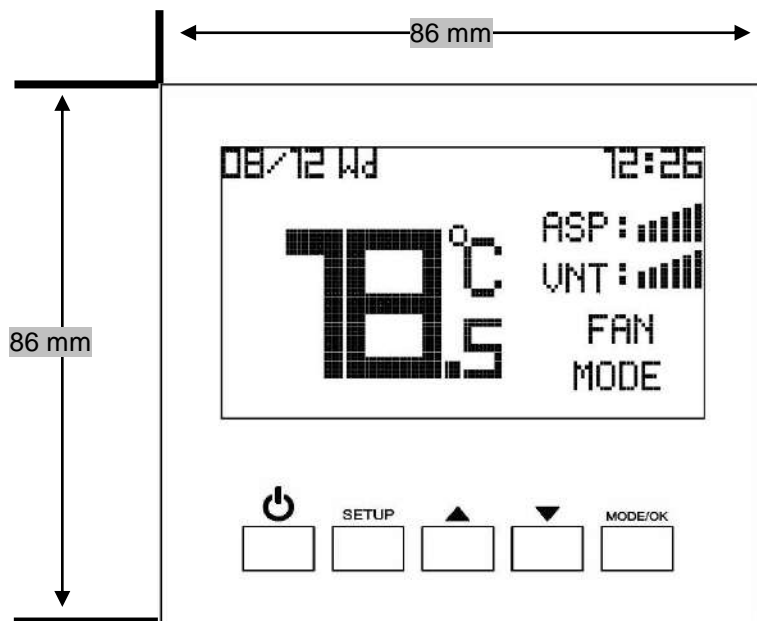
**HCP Series**

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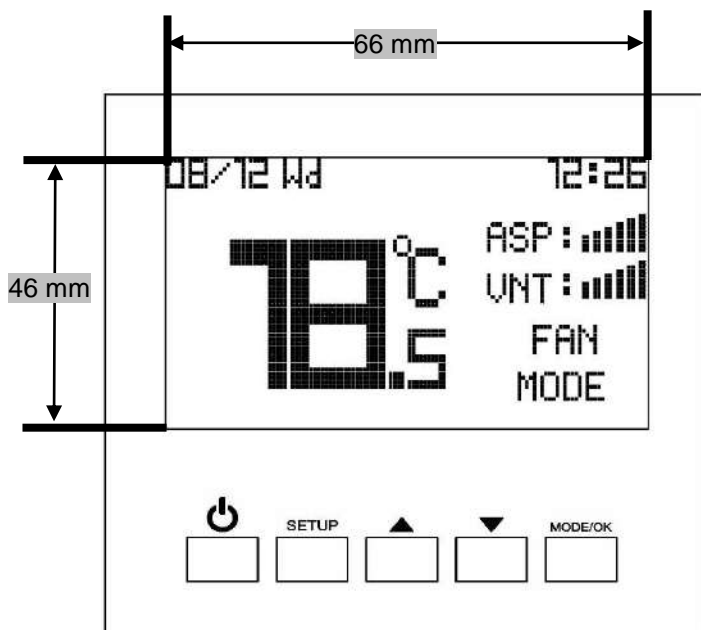
Technical Catalogue

**Dimensions**



Weight: 128 g.

**Visible Screen Area**



**Recommended Installation Height**

