

USER SHEET

MAIN SCREEN WITH CONTROLLED MECHANICAL VENTILATION (MVHR) UNIT

T Key

T User Menu

- Schedules
- Technical menu
- Informations
- Settings
- Date/Time
- Machine Info

T Operative Mode

- OFF The device is off
- Manual mode
- Away
- Schedule mode

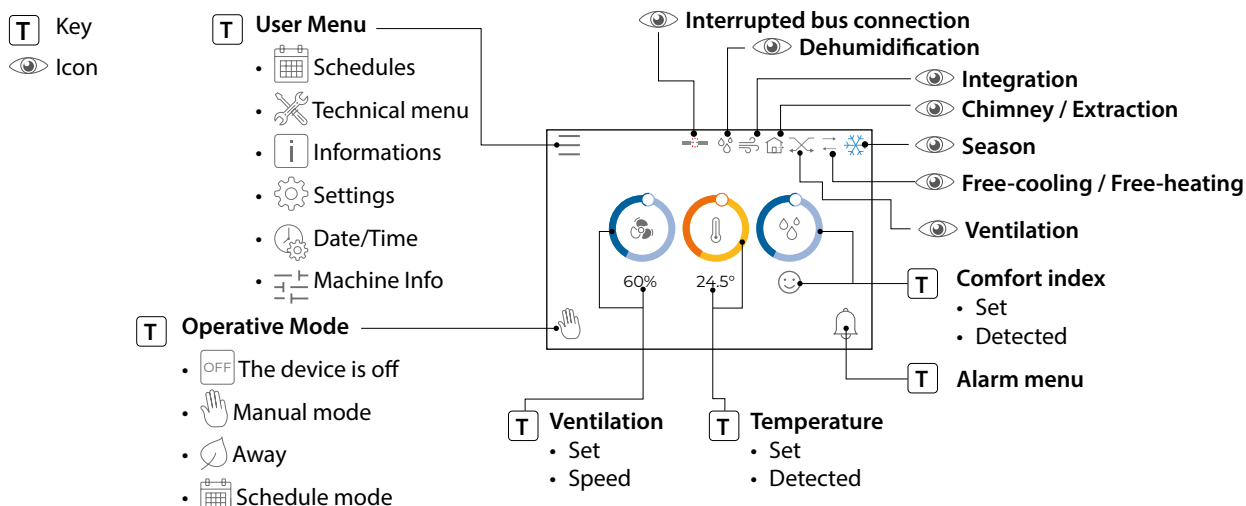
Model	Code
CoRe Air Control	7041477

STANDARD FUNCTIONS

Icon / Key	Description
<p>VENTILATION</p>	<p>The ventilation indication is specified in numerical form (value %) and is displayed in the circular indicator with a darker color. The desired value (Set) is indicated by the white dot placed on the indicator. The icon has 3 different display types, each of which represents the function or operating mode entered at that time:</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> 32% "Away" mode </div> <div style="text-align: center;"> 53% "Schedule" or "Manual" mode </div> <div style="text-align: center;"> 80% "Boost" function </div> </div>
<p>TEMPERATURE</p>	<p>The icon indicates the temperature detected in the room.</p>
<p>COMFORT INDEX</p>	<p>The icon indicates the Comfort Index measured in the room and represents the room air quality considering the relationship between the humidity and temperature measured. The emoticon displays the current situation:</p> <div style="display: flex; justify-content: center; gap: 20px;"> Minimum Sufficient Good Optimal Max </div>
<p>OPERATIVE MODE</p>	<p>Access to Operative Mode (see page 3).</p>
<p>ALARM MENU</p>	<p>Access to the Alarm menu; when the icon is red (🔴🔔) it indicates that a fault has been detected in the connected machine (see page 4).</p>
<p>SEASON</p>	 Set operating season: SUMMER (cooling mode).
	 Set operating season: WINTER (heating mode).
<p>FREE-COOLING / FREE-HEATING</p>	<p>The icon appears on the display when the Free-Cooling or Free-Heating functions are activated automatically. The Free-Cooling function is activated when it is necessary to introduce external air to cool the room, while the Free-Heating function is activated to introduce hot air and heat the room.</p>
<p>VENTILATION</p>	<p>The icon is displayed when the unit is switched on and indicates that the fans are running.</p>
<p>EXTRACTION</p>	<p>The icon appears when the function is activated. To be used when there is a momentary need to expel ambient air outside the building.</p>
<p>CHIMNEY</p>	<p>The icon appears when the function is activated. To be used when there is a momentary need to inject outside air inside the building (presence of fireplaces or extractor hoods).</p>
<p>INTERRUPTED BUS CONNECTION</p>	<p>The icon flashes when the R-Bus connection between the device and the connected unit is interrupted. Check the connection and contact service if the signal persists.</p>
<p>USER MENU</p>	<p>Access to user settings (see page 4).</p>

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
MAIN SCREEN WITH AIR HANDLING UNIT (AHU)





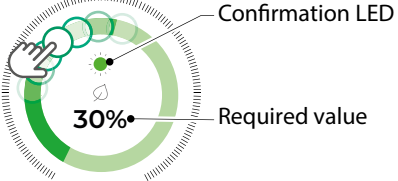

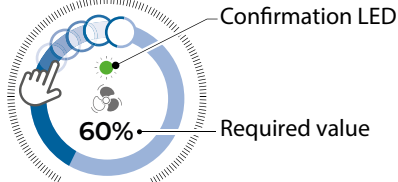
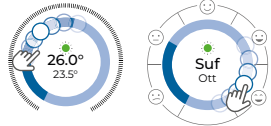
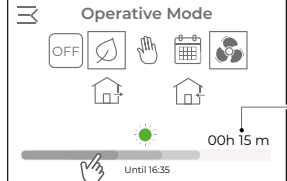
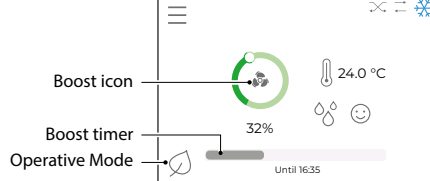


STANDARD FUNCTIONS

Icon / Key	Description
<p>VENTILATION</p>	<p>The ventilation indication is specified in numerical form (value %) and is displayed in the circular indicator with a darker color. The desired value (Set) is indicated by the white dot placed on the indicator. The icon has 3 different display types, each of which represents the function or operating mode entered at that time:</p>
<p>TEMPERATURE</p>	<p>The temperature is indicated in numerical form in the lower part and highlighted in the circular indicator with a darker colour. The desired value (Set) is indicated by the white dot placed on the indicator. If the set season is Summer the icon is blue/blue, while if the set season is Winter, the icon is yellow/orange.</p>
<p>COMFORT INDEX</p>	<p>The Comfort Index represents the quality of the ambient air considering the relationship between detected humidity and temperature. The area with darker coloring in the circular indicator and the emoticon display the detected situation, while the white dot indicates the desired value (Set). The meaning of emoticons is as follows:</p>
<p>OPERATIVE MODE</p>	<p>Access to Operative Mode (see page 3).</p>
<p>ALARM MENU</p>	<p>Access to the Alarm menu; when the icon is red (🔴🔔) it indicates that a fault has been detected in the connected machine (see page 4).</p>
<p>SEASON</p>	<p>Set operating season: SUMMER (cooling mode).</p> <p>Set operating season: WINTER (heating mode).</p>
<p>ANTI-FREEZE</p>	<p>The icon flashes when Antifreeze mode is working (activated by CoRe MCT 010).</p>
<p>FREE-COOLING / FREE-HEATING</p>	<p>The icon appears on the display when the Free-Cooling or Free-Heating functions are activated automatically. The Free-Cooling function is activated when it is necessary to introduce external air to cool the room, while the Free-Heating function is activated to introduce hot air and heat the room.</p>
<p>VENTILATION</p>	<p>The icon indicates how the fans work; it appears when the "Away", "Schedule" or "Manual" modes are active.</p>
<p>EXTRACTION</p>	<p>The icon appears when the function is activated. To be used when there is a momentary need to expel ambient air outside the building.</p>
<p>CHIMNEY</p>	<p>The icon appears when the function is activated. To be used when there is a momentary need to inject outside air inside the building (presence of fireplaces or extractor hoods).</p>

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INTEGRATION		The icon on the display, represented in three different colours, indicates the different activity status:
	  	<p>Not active Cooled air supply Heated air supply</p>
DEHUMIDIFICATION		The icon on the display, represented in two different colours, indicates the different activity status:
	 	<p>Not active Active</p>
INTERRUPTED BUS CONNECTION		The icon flashes when the Bus connection between the device and the connected unit is interrupted. Check the connection and contact service if the signal persists.
USER MENU		Access to user settings (see page 4).
















OPERATIVE MODE

Key	Description
	The air handling unit is switched off.
STANDARD FUNCTIONS	<p>Away: allows you to set the operation at a reduced speed (Economy). When this mode is active (recognizable by the icon  and the green color of the circular indicator), tapping the display leads to the edit screen, where you can adjust the fan speed, by moving the cursor, with a range of flow from 10% to 50%. The setting is confirmed when the green LED light blinks three times, after which the device automatically returns to the Home screen.</p> <div style="text-align: center;">  </div>
	<p>Manual: when the mode is active (recognizable by the icon  on the Home screen), ventilation management is completely manual. Touching the display takes you to the edit screen, where, by the cursor, can adjust the fan speed in a range from 0% to 100%. The setting is confirmed by the green LED blinks three times, after which the device returns to the Home screen.</p> <div style="text-align: center;">  <div style="display: inline-block; vertical-align: middle; margin-left: 20px;">  <p>Temperature and Comfort Index are manually adjustable, also in connection with an AHU machine.</p> </div> </div>
	<p>Schedule mode: the system work with the activated hourly/dayli programs (see page 7).</p>
	<p>Boost: temporarily increases the speed of the air flow with a range of flow between 10% and 100%. It can be used in combination with the Manual, Away or Programming functions, and is adjusted by the timer (maximum activity time 2h). Once the time set has expired, the device will return to the default settings of the active Operation mode. Example: operative mode Away + Boost:</p> <div style="display: flex; justify-content: space-around;"> <div style="text-align: center;">  <p>Boost timer</p> </div> <div style="text-align: center;">  </div> </div>
	Extraction: The unit only activates the extraction fan and deactivates the supply fan. This function must be disabled by the user.
	Chimney: the unit only activates the inlet fan and deactivates the extraction fan. This function must be disabled by the user.

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USER MENU

Option and configurations that can be personalised by the user to adapt the operation of CoRe AIR CONTROL to their needs.

Key	Description
	Access to settings of hourly/daily programs.
	Settings reserved for the service center or technician; password-protected access.
	Scan the QR code to access the device's web documentation 
	Zone Name: device name (assigned with the CoRe Connect) SW Vers.: software version ID: device's network address Group: grouping of devices when several AHUs or MCTs are present Mode: Operating mode set: 0 = Off / 1= Manual / 2= Schedules / 3=Away Season: 0= Winter / 1= Summer Humidity: relative humidity and absolute humidity detected Dew Point: current dew point value List of connected devices: HUB, TRM, AHU, MCT, PRB, MIO
	Touch Tone: On <input type="checkbox"/> Off <input type="checkbox"/> Language: IT  / EN  / ESP  Season: Winter  Summer  Standby Auto: automatic screen switch-off for inactivity Standby theme: Auto → light theme active from 10:00 to 17:00 / dark theme active from 17:01 to 9:59 Light → light theme always active Dark → dark theme always active Backlight: screen lighting intensity Standby Backlight: illumination intensity when the screen is switched off for inactivity Set T. Away Summer: set Temperature in Away mode in the Summer season (0,0 to 39,9 °C) Set T. Away Winter: set Temperature in Away mode in the Winter season (0,0 to 39,9 °C) Set I.C. Away Summer: set Comfort Index in Away mode in the Summer season (Min to Max / OFF) Set I.C. Away Winter: set Comfort Index in Away mode in the Winter season (Min to Max / OFF)
	Click on the icon, select the values for hours, minutes, day, month, year, and use the keys   to change the system values. While editing, the value will be highlighted in grey. Click on the key  to confirm and exit.
	Detection of the following data: Input Temp., Outdoor Temp., Indoor Temp., Expulsion Temp., Input Speed, Expulsion Speed; counting of filter working time and time remaining for maintenance. Reset Filters: use to reset filter alarms. Give OK to confirmation prompt.

ALARM MENU




















When the icon is red, it indicates that a fault has been detected on the connected machine. Click on the icon and access the alarm description screen:

Key	Alarm description	Note	Reset
	Temp. Sensor Alarm for Air Supply Air (SUP)		Automatic
	Temp. Sensor Alarm for Fresh Air Inlet (IN)		Automatic
	Temp. Sensor Alarm for Stale Air Extraction (EXT)		Automatic
	Temp. Sensor Alarm for Exhaust Air (OUT)	Machine lock (only with winter season set)	Automatic / Manual, machine reset (only with machine lock)
	Inlet fan alarm	Machine lock	Manual, machine reset
	Exhaust fan alarm	Machine lock	Manual, machine reset
	Filter warning (90 days of use)	Before resetting the filter counters, clean or replace the filters	User menu -> Machine info -> Filter reset
	Filter alarm (still 10 days of use by warning filters)	Machine lock	User menu -> Machine info -> Filter reset

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TECHNICAL MENU

Settings reserved for the the service centre or technician; password-protected access.

Key	Description
 Calibrations	Allows the sensors in the device to be adjusted if abnormal temperature and humidity values are detected.
 Advanced Cmd	<p>Pairing  : pairing of CoRe Air Control to the smartphone to connect it to the app.</p> <p>Hard reset  : reset to factory settings, all configurations and programmes will be deleted.</p>
 Machine Par.	<p>V1 Away: default ventilation speed in Away mode V2 Comfort: default ventilation speed in Schedule mode V3 Boost: default ventilation speed with active Boost function Boost Default: setting the default time of the Boost timer Type Alarm Filters: OFF / HH (hours) / RPM Time Warning Filters: days of working time before servicing the filters Filter alarms: useful days for filter maintenance before machine locking FreeC. Temp. Set: 25 °C default temperature for activation of Free-Cooling FreeH. Temp. Set: 24 °C default value for activation of Free-Heating</p>
 Temperature	<p>Allows you to determine which season to set the temperature request function for activation of the radiant system and fancoil:</p> <p>never active  - Winter  - Summer  - Summer/Winter </p> <p>Temp. Hysteresis: min. 0,1 °C max 1 °C</p>
 Dehumidification	<p>Allows you to determine in which season to set the Dehumidification request function:</p> <p>never active  - Winter  - Summer  - Summer/Winter </p> <p>Humidity Hysteresis: min. 0,1 g/kg max 3 g/kg</p>
 Integration	<p>Allows you to determine in which season to set the Integration request function:</p> <p>never active  - Winter  - Summer  - Summer/Winter </p> <p>Integration Delta: min. 0 °C max 9,9 °C</p>

TECHNICAL MENU



Technical menu

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GUIDE TO SCHEDULE MODE

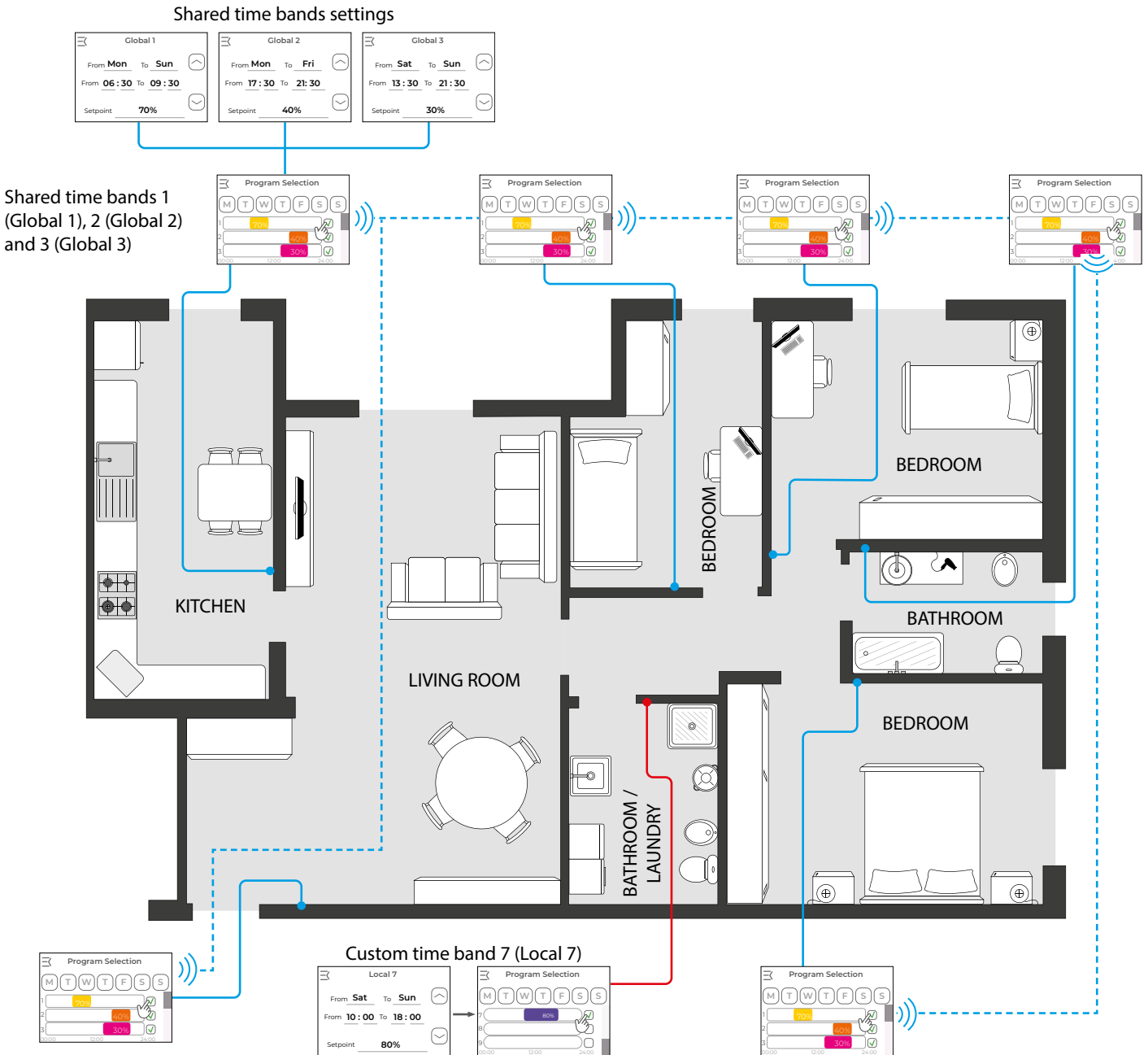
In Schedule mode the device works with the active program set. Nine time/day bands are managed: six can be shared between all devices and three are own for each device. For each band must be defined the days, the programming start and end times, and the Setpoint. With the connection to a controlled mechanical ventilation unit (MVHR), it is possible to program only the Ventilation function. However, if the connected unit is an air handling unit (AHU), it is possible to program time bands for the Ventilation function, for Temperature and Comfort Index adjustment.

To access programming: User menu → Schedules 

PLANNING OF SCHEDULE

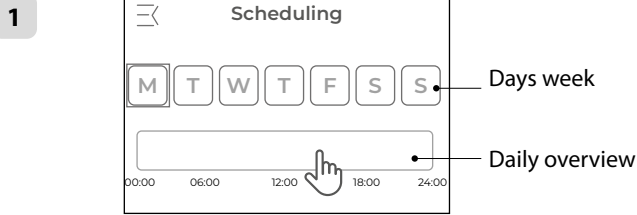
Nine time/daily bands are available: the first 6 bands (called Global 1, Global 2, Global...6) can be shared between all CoRe Air Control devices, while the bands 7 to 9 (called Local 7, Local 8 and Local 9) can be customized for each device. To use the shared time bands, just define the settings on the first device, then these will be automatically communicated to the other terminals; now simply enter in the Schedule menu of each device and do the activation. For devices that require different programming, you will need to use bands 7-8-9 of each device and set specific time schedule.

-  - Time bands are active only when they are enabled with the confirmation check (green tick)
- If shared time bands (1 to 6) are changed, they are automatically updated on all devices
- The enabling or disabling of all time bands (1 to 9) are independent for each device
- If time overlaps occur between the programmed and active time bands, priority will be given to the band with the highest number (9-8-7...)
- In case no programming is scheduled, Away mode will be temporarily activated and the Temperature and Comfort Index set points established in the User Menu Settings will be operative.

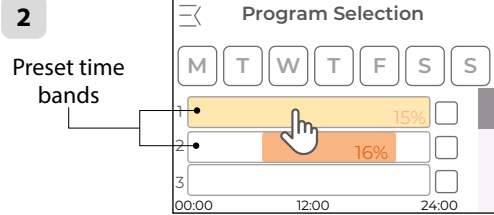


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SETTING OF THE SCHEDULE MODE



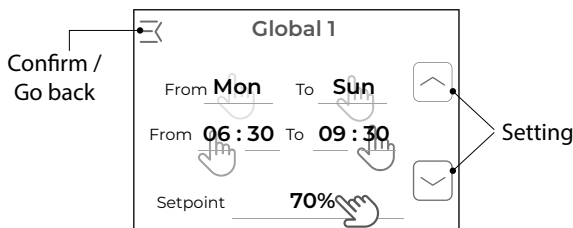
From the main screen it is possible to view the set time-program for each day of the week. By selecting the day, any active time bands will be indicated by different colours in the daily overview below. To access to the Program Selection, click on the band in the daily overview.



The device is supplied with two preset (but not active) time programs, highlighted in different colours. Click on the first band to access the Programming.

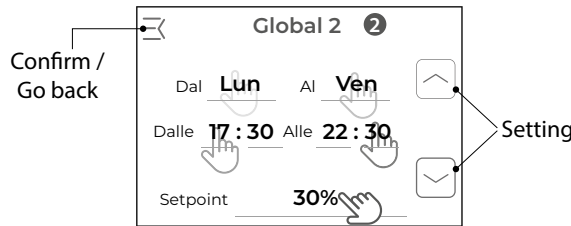
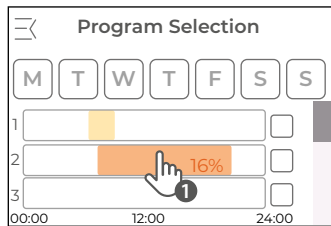
3 EXAMPLE OF HOURLY / DAILY SCHEDULES

The diagram below represents an example of scheduling that will be active from Monday to Sunday, with a daily time interval between 06:30 and 09:30; during this period, ventilation is at 70% (Setpoint).

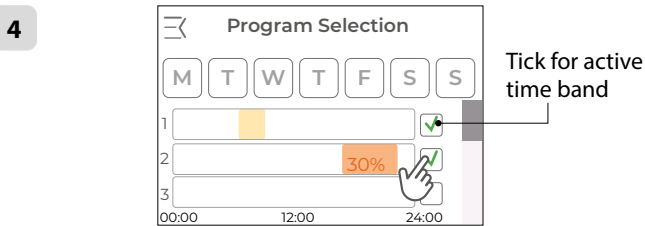


To change the data, first select the value, then use the "Setting" keys \uparrow \downarrow to change it. During the change phase, the selected value will be highlighted in grey. After completing the settings, press the key \leftarrow to confirm and return to the previous screen.

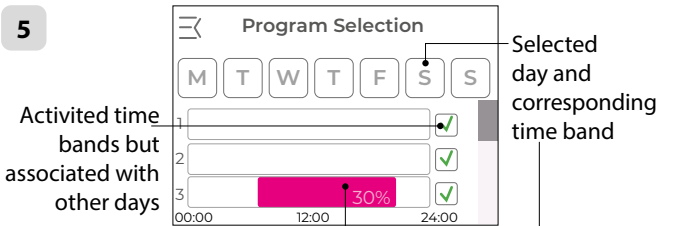
To add another hourly schedule, tap on time band number 2 (step 1) and enter the new programming (step 2).



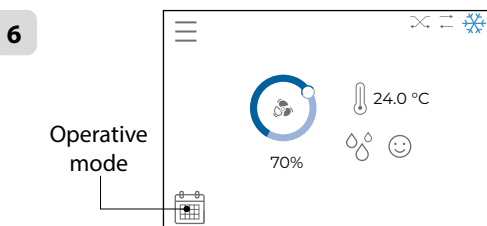
Modify the days, time and Set Point, using the "Settings" keys \uparrow \downarrow . Once the settings are complete, press the key \leftarrow to confirm and return to the previous screen. To scheduling other time bands, select the next ones and repeat the operations.




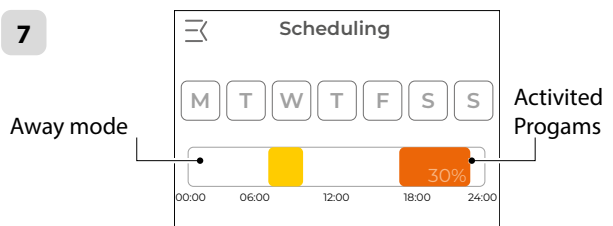
When the scheduling is complete, in the screen of Program Selection, are shown the coloured bands wich representing the time-programs. To activate a time-program, touch the box on the right, and a green tick will be appear. Select the day boxes on the top and for each day a week, it can see the corresponding schedule.



At the end of the operation, all active time bands will be shown. By selecting a day of the week, the associated band will be coloured. The green tick without the coloured band indicates that the scheduling is active on different days than the selected one.



When scheduling of the time bands are complete, return to the Home screen using the key \leftarrow . Enter the operating mode menu and activate Schedules mode by touching the icon .



By accessing the Scheduling screen, for each selected day, it will be possible to view the corresponding active time bands. Each schedules is identified with a different colours for better reading. For time bands not included in the schedules (white), the device will operate in Away mode (see parameters in the User Menu).

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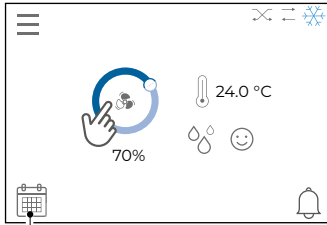
TEMPORARY MANUAL MODE OPERATING

The Temporary Manual Mode is activated from the Schedule mode and allows to change the ventilation or temperature managed by the respective current time bands.

This mode is controlled by a timer and is automatically deactivated by reverting to the active schedule time slot.

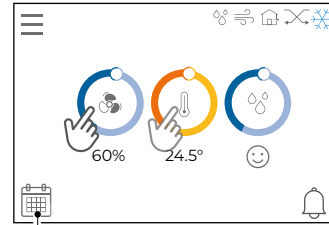
1

Home screen with MVHR



Schedule mode

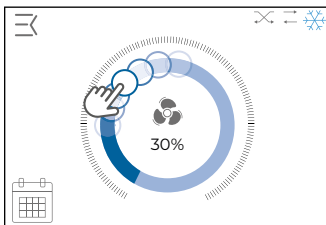
Home screen with AHU



Schedule mode

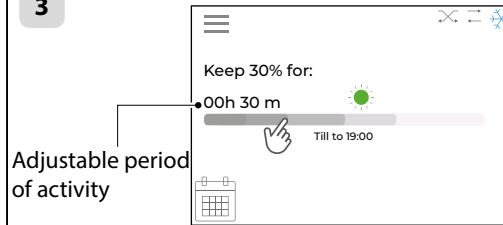
When Schedule mode is on, click the Ventilation or Temperature icon on the Home screen of your device. **The Comfort Index cannot be changed manually with the active programming mode.**

2



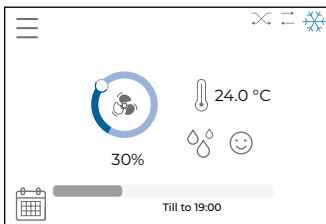
Change the value using the cursor.

3



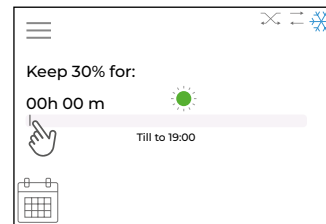
After choosing the new Set will appear the timer, which can be easily adjusted via the slider (limit Maximum 4 hours). The setting is confirmed when the green LED light flashes 3 times, after which the device automatically returns to the Home screen.

4



The timer indicates the activity period of the set manual change. The programme automatically switches off at the preset time, and the settings from the active schedule will be restored.

5



To turn off the Temporary Manual mode, click on the timer and move the cursor back and reset the remaining time (00h 00m). The setting will be confirmed when the green LED blinks 3 times, then the device will return to the Home screen in Schedule operative mode.

This document may be subject to change. Through the QR-Code you can check the latest available update. Manual changes are prohibited.

