



DANTHERM HRC 4

USER MANUAL

| en | da | de | es | fr | sl |



31023739

Rev. 1.1 - 2025-08-06

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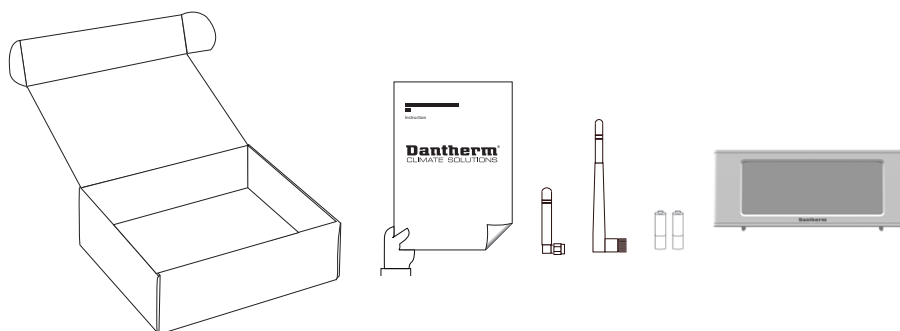
General description

Introduction This is the user manual for the HRC4 remote controller with part number 31023739.

This remote control is designed for the thoughtful homeowner who is dedicated to maintaining a comfortable indoor climate for both their home and its occupants. It communicates wirelessly with the ventilation unit's control panel, offering a range of up to 30 meters through walls and lightweight floors.

The remote can be placed on a shelf or mounted on the wall in areas such as the kitchen or living room, allowing residents to easily monitor and adjust the indoor environment for optimal comfort whenever needed.

Content The HRC4 remote control is supplied with this user manual, two antennas, and two AAA batteries. Use the antenna that matches your unit. The following pages show which antenna is compatible with each unit.



Functions The remote control allows users to manage and/or activate the following functions:

- Manual operation
- Weekly program mode
- Night mode
- Temperature control – cooling (via summer mode or built-in bypass)
- Automatic demand control based on relative humidity or VOC sensor (optional accessory)
- Fireplace mode

The remote control also displays the following information:

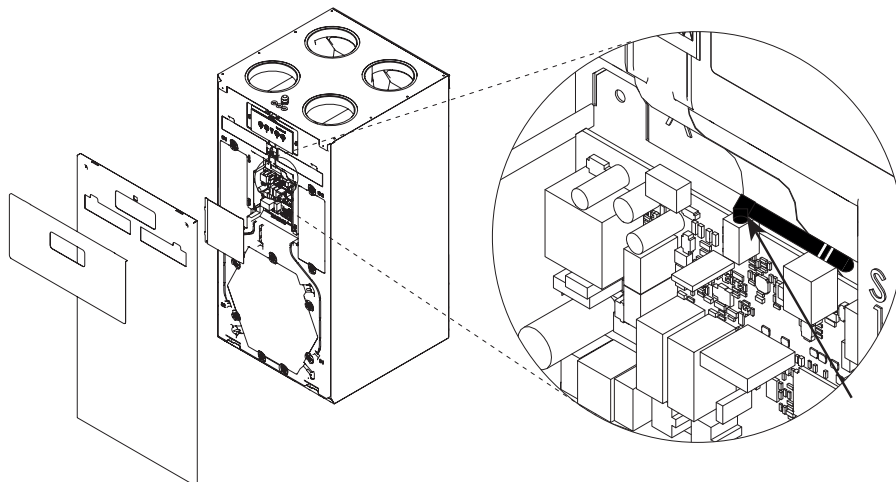
- Fan step
- Outdoor temperature, supply air temperature (into the house), exhaust air temperature (from the house), and room air temperature (measured by the remote control)
- Relative humidity in the exhaust air duct (house humidity)
- Air quality level in the house (requires optional external CO2 sensor)
- Remaining filter time
- Alarms and acoustic beeper

Installation

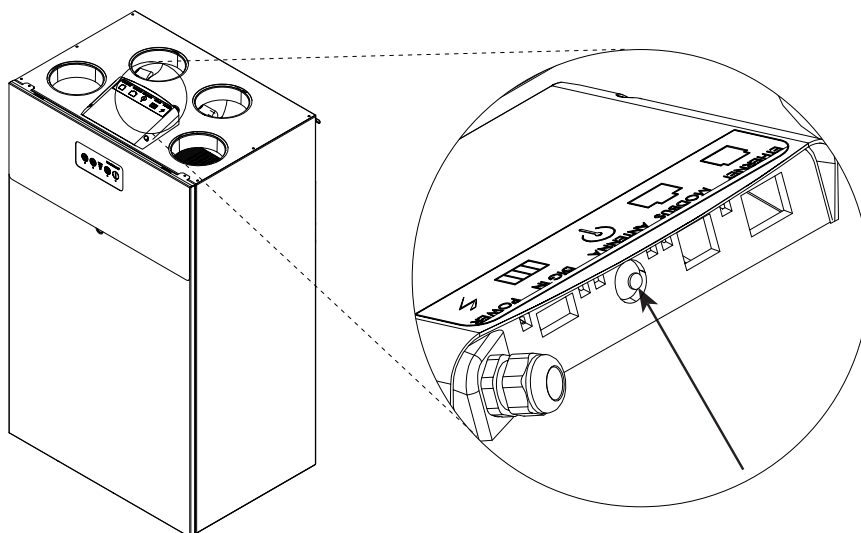
Mounting the antenna

For correct antenna installation and access to the installation location, refer to the main manuals of the ventilation units.

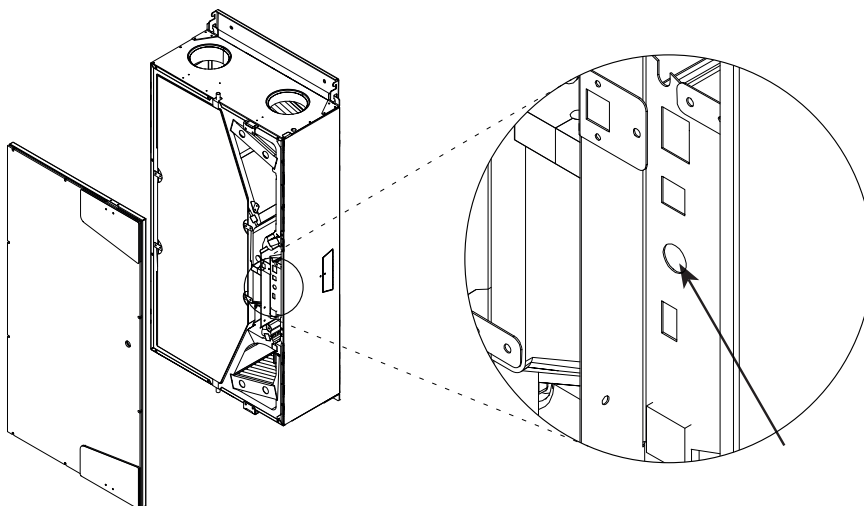
HCV 4X0



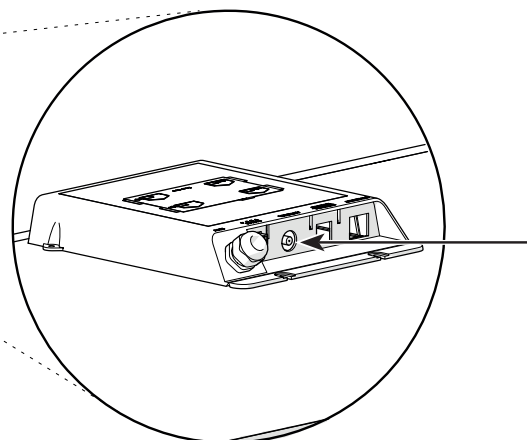
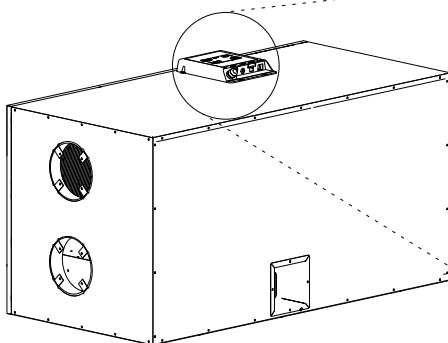
HCV 300-500-700



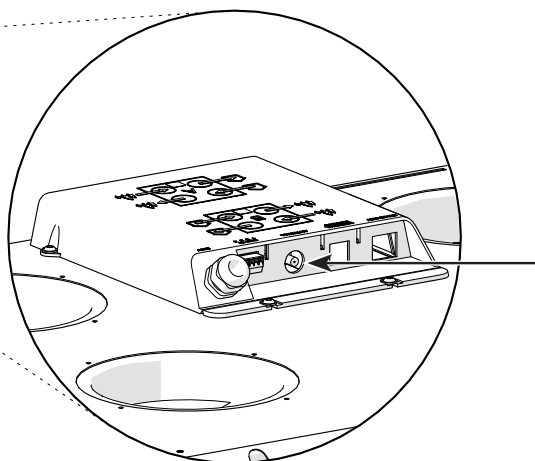
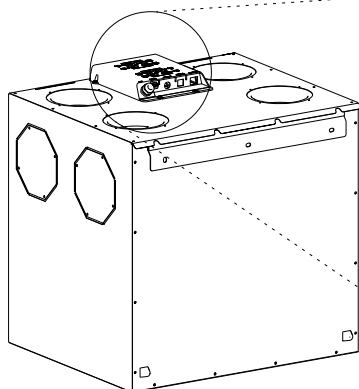
HCC (all variants)



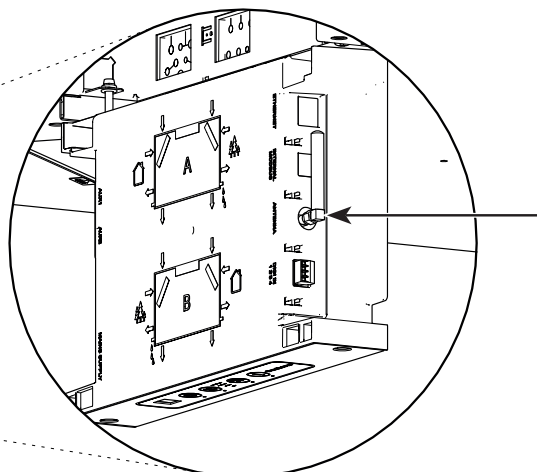
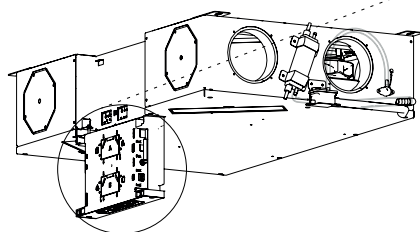
HCH (all variants)



RCV (all variants)

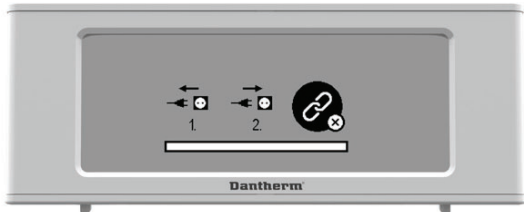
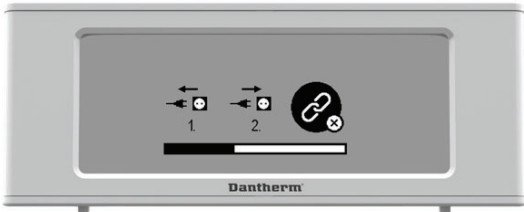
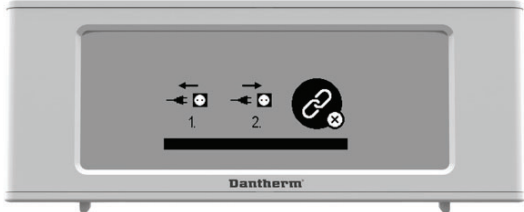


RCC (all variants)



Pairing

Before use, the remote control must be paired with the ventilation unit. Follow the steps below to pair the wireless remote control with the unit:

Step	Action
1	Disconnect the power to the ventilation unit.
2	Open the battery compartment on the remote control and insert the included 2 x AAA batteries.
3	The HRC4 automatically enters pairing mode and begins searching for a ventilation unit. The following screen appears when pairing mode is activated: 
4	Reconnect the power to the ventilation unit. The unit and remote control will attempt to connect for the next 60 seconds. During pairing mode, the display shows a timer progress bar.  If pairing is successful, the main screen will appear, displaying the ventilation unit's data. If pairing times out without success, the device will remain on the Pairing Mode screen.  Press the Pairing button  again for 1 second to start new pairing.

Multiple Remote Controls for One Unit

Up to 5 remote controls can be connected to one ventilation unit. All have equal access—any change to settings will override previous ones. Each HRC4 can be paired with only one unit.

Display information

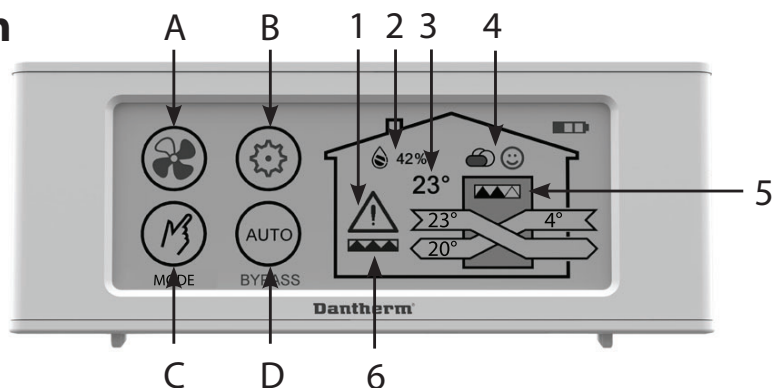


Fig. 1: HRC4 display with indications of the icons

Display description

The following table explains the symbols and buttons on the remote control. The symbols indicate the mode the unit is in and are also buttons that can be pushed to access functions. If a symbol/button is greyed out, it means that the function is not available.

Display area	Icon	Function
Operating programs		Fan - shows current fan speed. Push the symbol/button to change fan speed
		Settings - access to HRC4 settings
	 Mode	Operation mode - shows currently selected mode. Push the symbol/button to select different modes
	 Bypass	Bypass - Auto, Manual or Summer mode. Push the symbol/button to change bypass mode.
Battery		Battery level indicator
Operating information		Shows level (%) of humidity
		Air quality indicator (optional sensor)
		Air quality smiley (optional sensor)
		Alarms
		Wireless connection symbol
		Duct symbols
		Filter indicator
	23°	Measures temperature where remote is

Energy-saving feature

The remote control includes an automatic energy-saving feature that turns off the display at night between 00:00 AM and 6:00 AM. However, the display can be reactivated by pressing anywhere on the display.

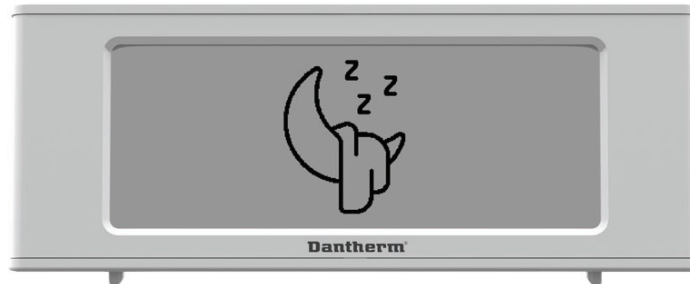


Fig. 2: Energy-saving feature

Operating information

The display shows various operating information according to the actual operation mode. Two different screens are shown, depending on whether the unit is running in HEAT RECOVERY MODE or BYPASS-COOLING mode.

Ducts

The ducts show if the bypass is closed or open, or if the unit is in Summer mode.

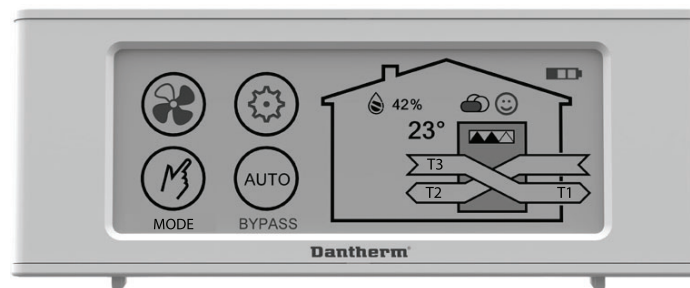


Fig. 3: Closed bypass

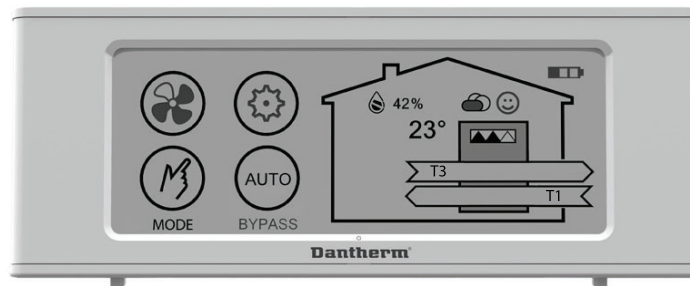


Fig. 4: Open bypass

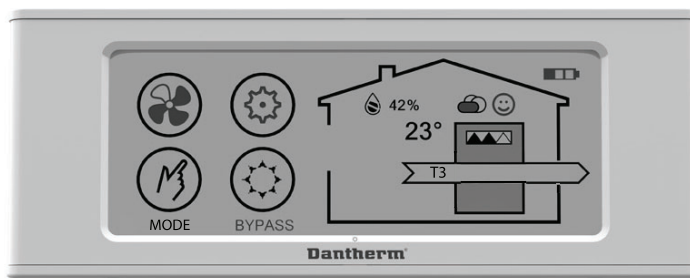


Fig. 5: Summer mode - with open window as displayed here

The unit always operates in **Heat Recovery Mode**—indicated by crossing air channels on the display—unless the conditions for **Bypass Cooling Mode** are met, in which case parallel air channels are shown.

Note: Recovery Mode is used for both heat recovery and cooling recovery, depending on the temperature conditions.

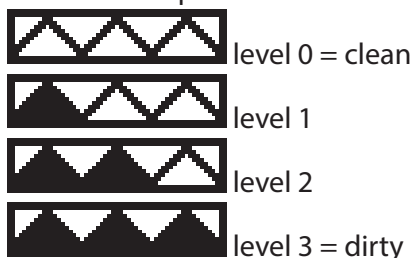
Temp.	Description
T1	Outdoor temperature, measured in the outdoor duct of the unit.
T2	Supply air temperature, measured in the supply air duct of the unit.
T3	Extract air temperature, measured in the extract air duct of the unit.

Room temperature

Current temperature (3) where remote control is located i.e. in the dwelling where the unit is installed.

Filter indicator

The number of black triangles in the filter symbol (5) indicates the amount of filter lifetime used. When all triangles are filled and the filter symbol starts flashing, it is time to replace the filters.



RH indicator

Percent of relative/absolute humidity (2) in dwelling

Percent of relative humidity (RH)	Description	Image
< 24 %	Very dry air, fan step 1	
25 - 34 %	Dry air, fan step 1	
35 - 65 %	Comfort air, fan step 1-3	
> 65 %	Humid air, fan step 3	

The filling level of the drop symbol indicates whether the relative humidity in the house is within a comfortable range for both the residents and the home.

The unit must be in AUTO mode to regulate according to relative humidity (RH%).

Air quality

Current air quality (4) in the dwelling

Air quality	Image
Level 0	
Level 1	
Level 2	
Level 3	

Alarms

Alarms (1) will be displayed and an audible beep will sound. The HRC4 will warn when battery level is low, when the filter needs to be cleaned/replaced and when there is a connection issue.

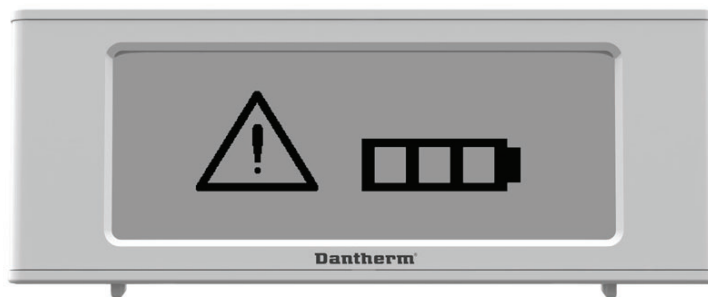


Fig. 6: Low battery alert

Replace the battery in your HRC4 remote control.

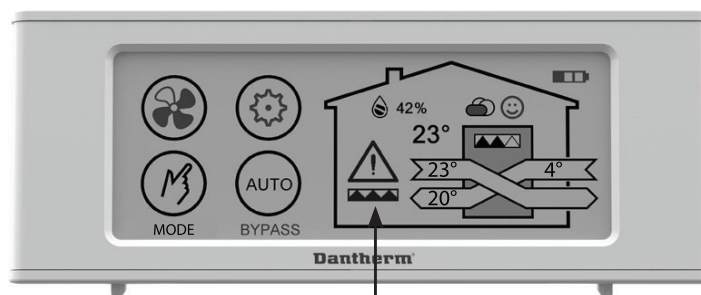


Fig. 7: Dirty filter alert

Clean or replace the filter in your unit and reset the filter alarm (6) on your ventilation unit by pressing the alarm button while the filter alarm is displayed.

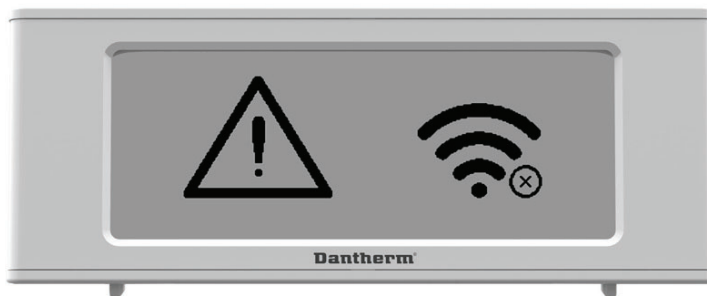


Fig. 8: Connection alert

This symbol will show when the HRC4 remote control has lost connection with your ventilation unit. Enter pairing mode by pressing the wireless connection icon.

Other alarms

Other alarms will display with their alarm code. It is not possible to reset alarms with the HRC4.

#	Alarm
E1	Extract fan error
E2	Supply fan error
E3	By-pass error
E4	T1 sensor error
E5	T2 sensor error
E6	T3 sensor error
E7	T4 sensor error
E8	T5 sensor error
E9	Humidity sensor error
E10	T1 < -13°C
E11	T2 < +5°C
E12	Fire alarm
(E13)	Communication alarm (warning symbol ⚠)
E14	Fire alarm, external
E15	Digital input active
E16	FPC Fail (accessory) Only active if the accessory "Fire Protection Controller" is connected to the unit.

User menu
User menu

**Operating
parameters and
settings**

The remote control offers various modes, allowing you to adjust the ventilation to suit different needs.

Selectable symbols	Nonselectable symbols	Description
		Fan step selection
		Settings
		Operation mode
		Bypass mode

Fan step selector The first symbol in the upper left corner (A) on the HRC4 display represents the fan step selector. There are five fan step levels, starting at 0, which indicates that the fan is off, up to level 4, which represents the highest possible speed. If a fan button is greyed out, it means that the function is not available.



Fig. 9: Fan step level 0 - 4

Settings

On the Settings Screen (B), the user can view the settings for **Night Mode** and the **Filter Alarm Timer**. Additionally, **Pairing Mode** can be activated by pressing the **Pairing Mode** button for 10 seconds and **Night Mode** can be activated by pressing the **Night Mode** button. Adjust the settings for **Night Mode** and **Filter Alarm** in **PC TOOL** or the **Dantherm app**. Settings cannot be changed on the remote control.

Symbols	Description
	This symbol indicates that night mode is activated. Push the button to deactivate Night Mode .
	This symbol indicates that Night Mode is not activated. Push the button to active Night Mode .
	The timer under the Filter Alarm Timer indicates days until recommended replacement of filter.
	This Pairing Mode symbol indicates that the remote is connected to the unit.
	When the Pairing Mode symbol has a cross instead of a check mark, it means that the remote is not connected to the unit. This symbol indicates that the remote is searching for a unit.
	This Pairing Mode symbol indicates that the remote has no connection to the unit.

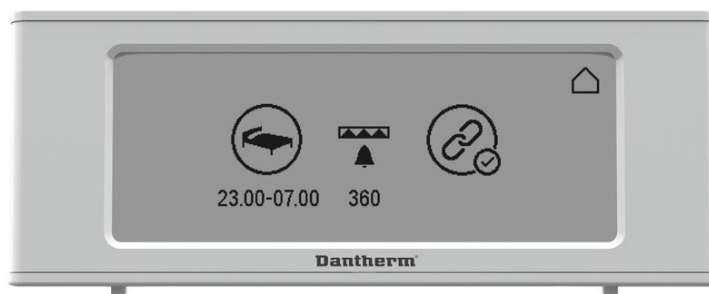


Fig. 10: Settings menu

If no button is pressed, the display will return to the main screen after 30 seconds. Press the Home-icon in the upper right corner to return to the main screen

Operation mode In **Operation Mode (C)**, the user can select between four different modes, incl. Auto, Manual, Week Program and Fireplace.

Symbols	Description
	AUTO mode In AUTO mode, the unit automatically adjusts between fan steps 1 to 3 to ensure the air exchange matches the actual demand in the house. It maintains a comfortable air quality by monitoring relative humidity and VOC (Volatile Organic Compounds) levels. • If humidity levels are high, the ventilation demand increases, and the unit adjusts to fan step 3. • If humidity levels are low, the unit reduces operation to fan step 1. • In case of high pollution levels (VOC), the AUTO mode increases the unit to fan step 4.
	Manual Operation In Manual mode, the user must adjust the fan step manually whenever the air change requirement changes. Fan steps from 0 to 4 are available. Steps 0 and 4 remain active for only 4 hours, after which the unit automatically returns to step 3.
	Week Program In Week Program mode, the unit provides a variable air exchange tailored to the selected family profile (P1, P2, P3, etc.). To change the week program number, use the Dantherm app or PC TOOL with Installer or Admin login. The Week Program can only be activated or deactivated by pressing the Week Program button in Operation mode.
	Fireplace Function The fireplace function is designed to create overpressure in the house, allowing the fireplace to be lit without issues. This overpressure is achieved by reducing extraction while maintaining the supply at fan step 3. To activate or deactivate the function, press the fireplace button. The display will highlight the fireplace symbol, indicating that the fireplace mode is active for 7 minutes. The countdown will then begin (FP07...FP01), and once the 7 minutes have passed, the unit will automatically return to the previous operation mode. Note: The fireplace function cannot be activated if the outdoor temperature (T1) is lower than -13°C. This can be resolved by installing a preheater.

Operation Mode also has four functions that are programmable in PC TOOL and the Dantherm App. It is not possible to select them on the display of the remote.

Symbols	Description
	Away Mode Away Mode can be activated during periods when the home is unoccupied and there are no activities generating a need for ventilation. In Away Mode, the unit operates at a minimum ventilation rate—running at fan speed 1 for two-thirds of the time and at fan speed 0 for the remaining one-third. All other functions, including any connected heating or cooling coils, continue to operate normally. The function is deactivated automatically after 28 days, after which the unit returns to the most recently selected program. Warning! <i>Remember to deactivate the Away Mode as soon as the home is occupied again. Otherwise, moisture damage may occur, and the indoor climate may deteriorate due to insufficient ventilation!</i>
	Night Mode In Night mode, the unit operates at fan speed 1. This function can be used together with Auto, Manual, or Weekly Program modes. Setting and deactivating the Night Setting is done in PC TOOL and the Dantherm App.
	Installer Mode The unit is in Installer Mode when this symbol is shown on the display.
	Off Defrost or entire ventilation unit is off when this symbol is shown on the display.

Bypass mode

The final symbol out of the four selectable icons is the bypass mode (D). Press it to select between Auto, Manual and Summer mode. Bypass mode is a control mode that overrides the default or automatic programs, allowing the user to:

- Apply custom or test settings
- Run outside the usual schedule, limits, or safety constraints (if permitted)

Symbols	Description
	Auto Mode – Demand-Controlled Bypass Bypass Opening Conditions: Indoor temperature > 24°C Outdoor temperature > 15°C Bypass Closing Conditions: Indoor temperature < 22°C Outdoor temperature < 14°C Automatic Bypass Cooling The system features built-in automatic bypass cooling, typically active during summer. When the outdoor temperature is above 15°C but still lower than the indoor temperature, the system automatically activates bypass cooling. This ensures effective cooling without requiring manual intervention.
	Manual Mode – Manually Controlled Bypass Bypass Activation Condition: Outdoor temperature must be above 9°C. Manual Bypass Cooling Manual bypass cooling is useful during spring or autumn when cooling is needed and the outdoor temperature is between 9°C and 15°C. In this range, the system can bypass the heat recovery unit to provide cooling using outdoor air. To activate manual bypass cooling, press the Manual Mode button. The unit will then operate in cooling mode for 6 hours. After this period, it will automatically revert to heat exchanger mode with automatic bypass cooling enabled. Note: The display will indicate parallel air channels (signifying that heat recovery is bypassed), and the bypass damper will open if the outdoor temperature condition is satisfied.
	Summer Mode In summer mode, the ventilation unit operates using only the exhaust fan, creating negative pressure inside the house. This draws in fresh air through open windows, helping to cool the indoor environment naturally.

Annex

Week programs

Code	Family profile
P 1	Family with kids, both parents work outside the home during the day
P 2	Family with kids, one parent works outside the home during the day
P 3	Family with kids, both parents spend their day in the home
P 4	Small family/couple without kids, both work outside the home during the day
P 5	Small family/couple without kids, both work outside the home at night
P 6	Small family/couple without kids, both work at night during the weekend
P 7	Single person, works outside the home during the day
P 8	Single person, works outside the home at night
P 9	Single person, works outside the home during the weekend
P 10	Single person, always at home
P 11	Custom program (programmed in PC-tools)