



BOSCH

Operating instructions

Control

Air Room Control

ARCT

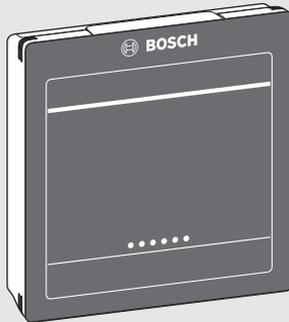


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1 Explanation of symbols and safety instructions

1.1 Explanation of symbols

Warnings

In warnings, signal words at the beginning of a warning are used to indicate the type and seriousness of the ensuing risk if measures for minimizing danger are not taken.

The following signal words are defined and can be used in this document:



DANGER

DANGER indicates that severe to life-threatening personal injury will occur.



WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in serious personal injury or danger to life.



CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor to moderate personal injury.

NOTICE

ATTENTION indicates that material damage may occur.

Important information



The info symbol indicates important information where there is no risk to people or property.

1.2 General safety instructions

Intended use

- ▶ Only use the product to control units for Air Flux VRF air conditioning systems (VRF = Variable Refrigerant Flow).

All other use is considered unsuitable. Any damage resulting from prohibited operations is excluded from liability.

Notices for the target group

This operation manual is intended for the user of a Air Flux VRF air conditioning system.

All instructions must be observed. Failure to comply with instructions may result in material damage and personal injury, including danger to life.

- ▶ Read and retain the operation manuals (outdoor unit, indoor unit, control unit, ERV ventilation unit, etc.) prior to operation.
- ▶ Observe the safety instructions and warnings.

Cleaning

- ▶ Wipe the casing with a damp cloth if necessary. Never use aggressive or caustic cleaning agents.

2 Product information

The ARC T Room Controllers VRF are room temperature-dependent control units for controlling up to 16 indoor units/ERV ventilation units.



Indoor units and ERV ventilation units are both subsequently referred to as "units" and the Room Controllers VRF are referred to as "control units".

The ARC T standard variant is intended for the regular use of air conditioning systems in commercial buildings (e.g. office buildings).

One to 16 units are controlled by one or 2 ARC T respectively. Depending on the software version of the control unit, the texts shown in the display may differ from the texts in these instructions.

The adjustment ranges and functional scope may differ from the information in these instructions, depending on the system configuration:

- Some functions are not available on system components of the older generation.
- The Auto Mode function may be restricted depending on the system configuration.
- Depending on the user interface and depending on the settings by your specialist, some functions are turned off.

3 Overview of symbols at the home screen



To change between the views:

- Use > and < or swipe on the screen.



Fig. 1 Controls

- [1] General informations and settings
- [2] Additional informations
- [3] Dropdown list of devices
- [4] Help
- [5] Next page
- [6] Switch ON/OFF devices
- [7] Outdoor temperature, date and time or info message
- [8] Error, warning or info message
- [9] Previous page



If the unit is switched off, the control unit display shows **AC OFF**. Settings can also be made using the keys.

Symbol	Meaning	Symbol	Meaning
	Language setting		General information and settings
	Master slave setting		Display theme setting
	Device scanning in progress		Successful device identification
	Help		Switch off screen
	Information message		New information message
	Error or warning		New error or warning
	Option to select all		Select all active
	Current room temperature		Current outdoor temperature
	Device on/off button		Switch on/off multiple devices
	Electrical heater is on		Key lock activ
	Display of fan speed level		
Eco/Comfopt mode			
	Indicates eco comfort feature		Eco level basic mode
	Eco level medium mode		Eco level high mode
	Sleep mode		Gym mode
	Concentration mode		Balanced mode
Operations modes			
	Cooling mode		Heating mode
	Dry mode		Fan mode
	Auto mode		Manual fan speed level
	Auto fan level		Auto swing of vertical louver
	Manual setting of vertical louver		Postion of vertical louver in angle 1 ... 5

Symbol	Meaning	Symbol	Meaning
	Individual louver selection and setting		Auto swing of horizontal louver
	No auto swing of horizontal louver		Time program is active
	Add switch point in time program		Edit option
	Copy		Return
	Arrow left/right		Plus/more and minus/less
	Return option from service menu		Device drop down list
Operation mode ERV			
	Energy recovery mode		Free cooling mode
	Auto mode		Bypass mode

Table 1

4 Views of the homescreen



To change between the views:

- Use > and < or swipe on the screen.



Fig. 2 Controls

Pos.	Menu	Description
1	Eco Comfort	Automatic easy operation for energy saving and comfortable scenarios on all units
2	Set Temp.	Display and edit of set temperatur; display of room temperature
3	Fan Speed	Display and edit of fan speed
4	Mode	Display and edit of mode
5	Air Flow	Display and edit of vertical louvre
6	Air Flow	Display and edit of horizontal louvre
7	Time Program	Edit time program for all units

Table 2

5 Homescreen settings

Depending on the system configuration and control unit, not all menu items will be available for selection; see overview of main menu at the end of this document. Some functions are also only available to indoor units, others are only available to ERV ventilation units.



The control unit can be installed in such a way, that it switches the unit off under certain conditions and disables it. The unit is enabled for example, after the hotel card is inserted or all the doors and windows are closed. Depending on the setting made by the specialist, the unit can be switched on automatically or manually after it has been enabled. A delay can also be set for switching off the unit.



The control unit can be disabled through the central ACC MT/MT-1/MTL/MG.

5.1 Select device

- ▶ Tap drop-down list.
A list shows all connected devices.

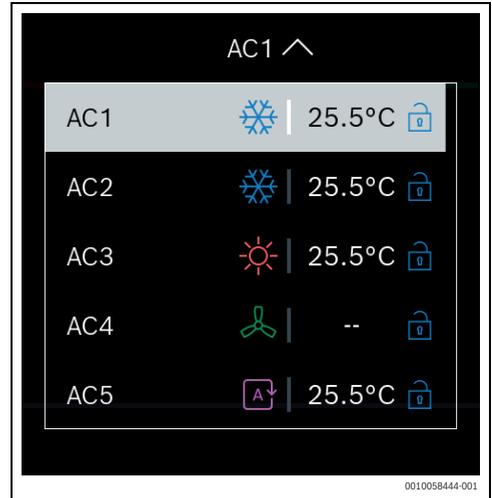


Fig. 3

- ▶ Select the desired device by tapping.
The selected unit will be highlighted.
- ▶ To close the drop-down list: tap ^.
The selected unit will be appearing on top. The parameters in home screen show the values of this device.

5.2 Set Eco Comfort



Eco Comfort function will automatically adjust many settings of units. Nevertheless, any setting can be changed by the customer. The **Eco** slider then will be adjusted accordingly. **Eco** setting is a general preference that you don't need to change often.

In **Comfort** operation **Balanced** is the default. The other 3 profiles last only for a certain period. After sleep profile it will be switched back to **Balanced**.

- ▶ Enter **Eco Comfort** in home screen.

- ▶ Set the settings by horizontal slider.

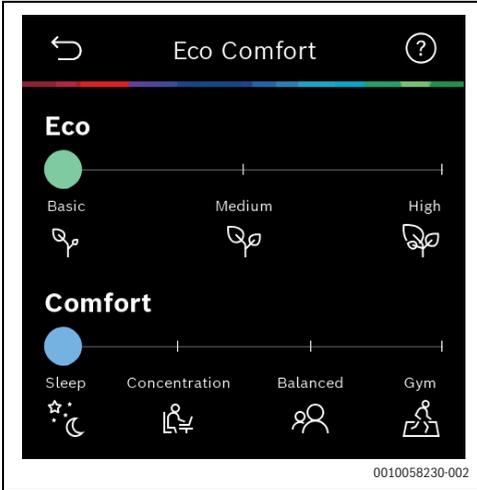


Fig. 4

	Profile	Description
Eco	Basic	Best performance
	Medium	Default, balance of energy saving and performance
	High	Save the most energy by adjusting the temperature and other system parameters.
Com- fort	Sleep	Comfortable sleep by adjusting the temperature, fan volume and humidity.
	Concentrati on	Ideal for studying and working by adjusting less noise and less distraction.
	Balanced	Default, for everyday activities
	Gym	Used for sports working by adjusting lower temperature and active air flow

Table 3

- ▶ To leave the window without saving : press ↵.

5.3 Set temperature

- ▶ Enter **Set Temperature** in home screen.
- ▶ Set the temperature by horizontal slide.



Fig. 5

- ▶ To confirm the setting for the currently selected unit: tap **Ok**.
- ▶ Possibly copy setting to other units (→ chapter 5.8).
- ▶ To leave the window without saving : tap ↵.

5.4 Set fan speed

- ▶ Enter **Fan Speed** in home screen.



Depending on the type of unit, 3 or 7 speeds can be selected.

- ▶ Set the fan speed by tapping.

-or-

- ▶ Activate **Auto fan speed**.

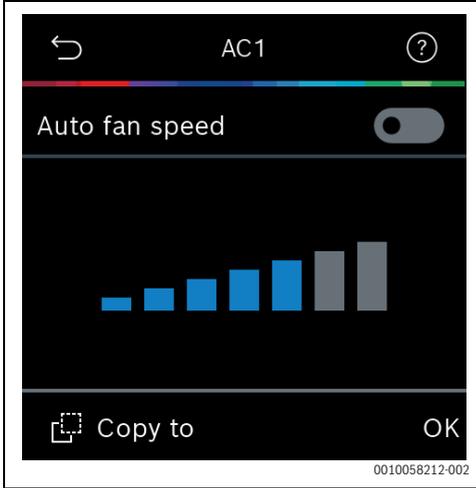


Fig. 6

- ▶ To confirm the setting for the currently selected unit: tap **Ok**.
- ▶ Possibly copy setting to other units (→ chapter 5.8).
- ▶ To leave the window without saving : tap ↶.

5.5 Set mode

- ▶ Enter **Mode** in home screen.
- ▶ Set the mode by horizontal slide.

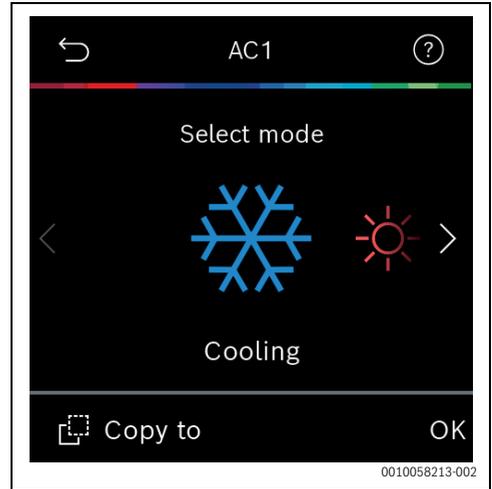


Fig. 7

- ▶ To confirm the setting for the currently selected unit: tap **Ok**.
- ▶ Possibly copy setting to other units (→ chapter 5.8).
- ▶ To leave the window without saving : tap ↶.

5.6 Set the vertical air flow



Only for setting. Status is not displayed here.

- ▶ Enter **Air Flow Vertical** in home screen.



Whether the louvers can be selected depends on the type of indoor unit.

- ▶ If possible, select the louvers on the left side of the display by tapping.
- ▶ Select the swing angle at the right side of the display by tapping.

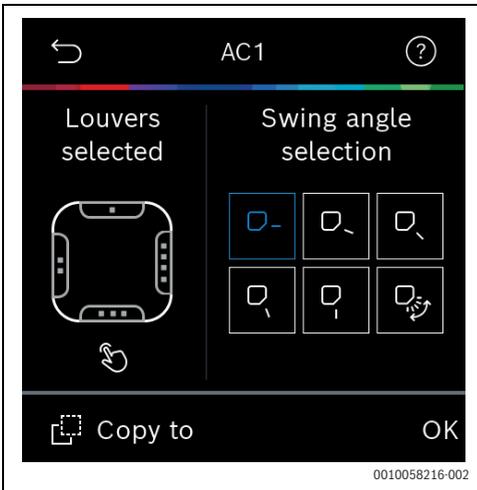


Fig. 8

- ▶ To confirm the setting for the currently selected unit: tap **Ok**.
- ▶ Possibly copy setting to other units (→ chapter 5.8).
- ▶ To leave the window without saving: tap ↶.

5.7 Set horizontal air flow

- ▶ Enter **Air Flow Horizontal** in home screen.
- ▶ Select **Swing** or **Swing Off** by tapping.

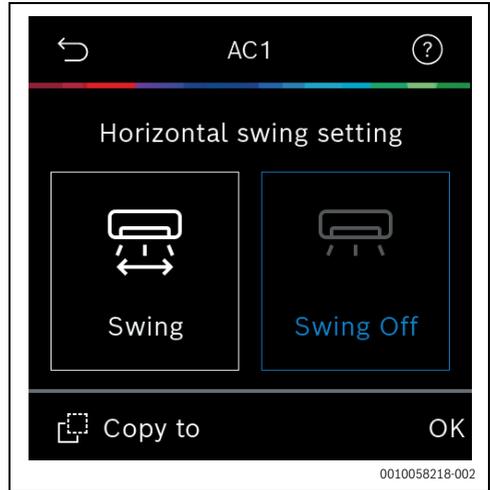


Fig. 9

- ▶ To confirm the setting for the currently selected unit: tap **Ok**.
- ▶ Possibly copy setting to other units (→ chapter 5.8).
- ▶ To leave the window without saving: tap ↶.

5.8 Copy settings

- ▶ To replicate the configuration quick to another unit: tap **Copy to**.

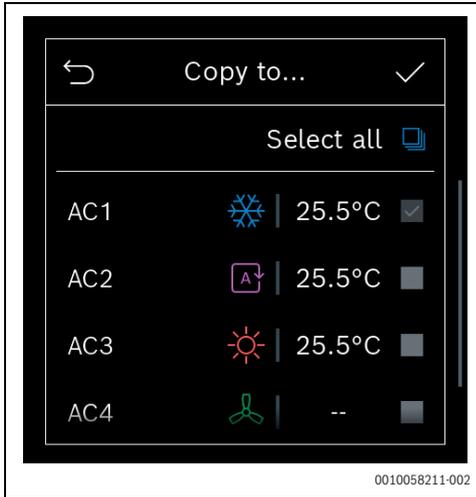


Fig. 10

- ▶ To select: tap a unit.
- ▶ To confirm the setting: tap ✓.
- ▶ To leave the window without saving : tap ↶.

5.9 Set time program



Up to three different time programs can be set, maximum one time program can be activated at a time.

A time program is always defined for a complete week.

All time programs are valid for all units.

Manual adjustment on device during the time program is possible. The time program will be resumed at the next time switching point.

- ▶ Enter **Time Program** in home screen.

Select time program

- ▶ Tap drop-down list.
- ▶ Select time program.



The names of the time programs can be changed with .



Fig. 11

- ▶ To leave the list: tap ^.

Set switching point

- ▶ Tap a day.

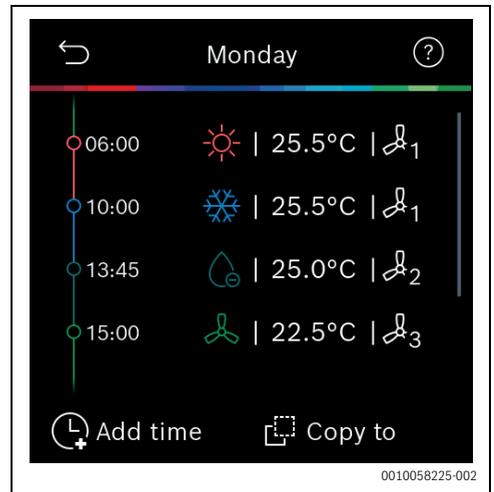


Fig. 12

- ▶ Tap switching point and adjust settings.

•or•

- ▶ Tap **Add time** and define new switching point.

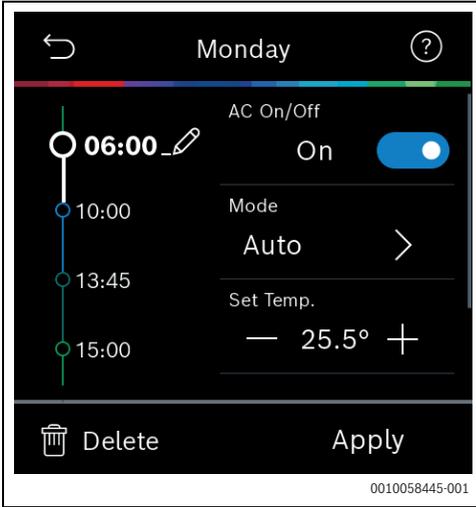


Fig. 13

- ▶ To save a switching point: tap **Apply**.
- ▶ To delete a switching point: tap **Delete**.

Copy settings of one day to other days

- ▶ Tap **Copy day**.



Fig. 14

- ▶ Tap desired days.
- ▶ To confirm the setting: tap ✓.
- ▶ To leave the window without saving: tap ↶.

5.10 Switch units ON/OFF

- ▶ Press  in home screen.

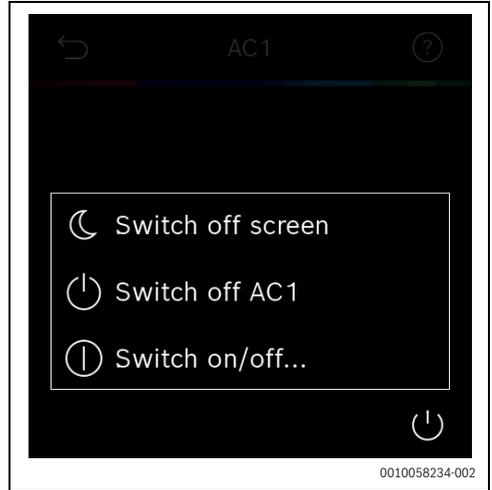


Fig. 15

- ▶ Use  to switch off the display, e. g. at night.
- ▶ Use  to switch on/off the current selected unit.
- ▶ Use  to switch on/off multiple units.



Fig. 16

- ▶ To leave the window: press ↶.

5.11 Standby screen

After 30 seconds without user presence the display switches to standby screen.

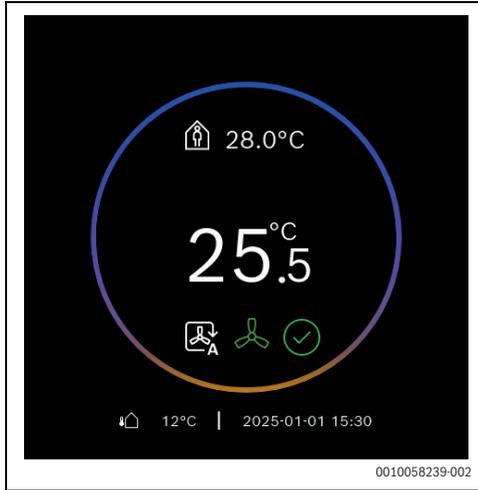


Fig. 17 Display in standby

After 5 minutes without user presence the display switches off.

To switch on the display:

- ▶ Approach the display or tap on it.
The display shows the standby screen.
- ▶ Tap on display.
The display shows the home screen.

6 Informationen und Grundeinstellungen



Menus may not be displayed depending on the system configuration.

6.1 General information

To enter the menu:

- ▶ Tap  and select **General information**.

Menu item	Description
Room temperature	Display current room temperature
Outside temperature	Display outdoor temperature
Humidity	Display current room humidity
CO2 concentration	Display current CO ₂ concentration
Filter clean reminder	Display the pollution degree of the filter or number of hours, until the next filter check is required. ¹⁾
Rem. reset filter check	Reset the pollution degree or number of hours.
Current faults	Display currently pending faults.
Overview of indoor units	Display the address and type of every indoor unit detected.
Overview of outdoor units	Display the address and type of every outdoor unit detected.
Manual	QR code to open and download the digital installation instructions.

- 1) The specialist is able to set in the service menu, whether and how soon a reminder appears.

Table 4 General information

6.2 Controller setting

To enter the menu:

- ▶ Tap  and select **Controller setting**.

Menu item	Description
Language	Language of the texts displayed
Date and time	
Date	The date can be set in this menu. The current day of the week is also determined based on this date; this affects the schedules.

Menu item	Description
Date format	The format of the date can be set in this menu (dd.mm.yyyy, mm/dd/yyyy, yyyy-mm-dd)
Time	The time of the day can be set in this menu. All schedules run according to this time.
Autom. time changeover	Activate or deactivate the automatic changeover between summer and winter time.
Time correction factor	Allows users to adjust the internal time clock.
Theme setting	Switch between white theme and black theme
Display brightness	Change the brightness.
Reset factory sett.	Restore to factory settings.

Table 5 Controller setting

6.3 System setting

To enter the menu:

- ▶ Tap  and select **System setting**.

Menu item	Description
Available operating modes already specified by central control unit	<p>Block/unblock of operating modes. Only unblocked operating modes are visible in the Mode setting of Home screen. At least one operating mode has to be unblocked.</p> <p>Available operating modes: Cooling mode Auto mode Heating mode Fan Mode Dry Mode</p> <p>If ARC T is connecting to ERV ventilation devices, the following operating modes are available: Energy recovery Bypass Autom. mode Free cooling</p>
Eco Comfort	Switching On/Off of Eco Comfort
Absence optimization	<p>Sets the behavior for shorter absences.</p> <p>Manual: when absence is detected, the room temperature is set to the defined temperature limit settings.</p> <p>Smart: intelligent temperature control based on learned building and user behavior.</p>
Set duration of sleep mode	Defines the duration of Sleep mode.

Menu item	Description
Away mode	<p>Sets a temperature band for longer absences (holiday). If the room temperature departs from the temperature band, heating or cooling will be started.</p> <p>Upper temp. limit Lower temp. limit: Temperature limits for the temperature band.</p>
Dry mode setting	Sets the set value of the humidity of Dry Mode .
Turbo Cool	Switches fast cooling on/off. The room is cooled down as quickly as possible for the next 30 minutes.
Turbo Heat	Switches fast heating on/off. The room is heated up as quickly as possible for the next 30 minutes.
Increase fan speed	Increase fan speed for 15 minutes.
Electr. boost. heat. ERV	Sets behaviour of the electric booster heater of the ERV ventilation unit.
Auto	Switches on if required, depending on the outdoor temperature.
On	Switches on if required, irrespective of the outdoor temperature.
Off	Always switched off
AC rename	Rename air conditioner indoor unit
AC Lock	Lock/unlock air conditioner indoor unit within ARC T
Keylock	Activates/deactivates key lock.

Table 6 System setting

7 Old electrical and electronic appliances



Electrical or electronic devices that are no longer serviceable must be collected separately and sent for environmentally compatible recycling (in accordance with the European Waste Electrical and Electronic Equipment Directive).

To dispose of old electrical or electronic appliances, you should use the return and collection systems put in place in the country concerned.

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