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WFC03 Remote Control

Biasi WFC03 Remote Control Instruction Manual

Contents

Biasi WFC03 Remote Control

Product Specifications

- **Product Name:** Electronic Communicating Open Therm Device
- **Functions:** User interface for boiler control, programmable weekly thermostat
- **Compatibility:** Ready to communicate with WFC03 gateway for remote control via APP

Product Usage Instructions

User Interface

The display shows various symbols for different functions:

- Symbol descriptions include day of the week, time, heating enablement, and more.

Programming

The device allows programming for various settings:

- Day/Time settings
- Mode selection
- Automatic programming
- Special functions like vacation mode

Modifying User Parameters

Users can adjust various parameters:

- Temperature settings
- Program enabling/disabling
- Number of time slots
- System charging settings

Button Lock Function

The device has a button lock feature to prevent accidental presses.

Usage with WFC03 Gateway
Connect the device to the WFC03 gateway for remote control via the designated mobile application.

General Information
Additional general information about the product can be found in the user manual.

FAQ (Frequently Asked Questions):

Q: How do I set the temperature for heating?
A: Use the 'Set Temperature Heating' button to adjust the desired heating temperature.

Q: Can I program different temperatures for different days?
A: Yes, the device supports programming different temperatures for different days of the week.

In order to constantly improve its products, the manufacturer reserves the right to change the data provided in this documentation at any time and without notice.
This documentation is provided for information purposes and cannot be considered as a contract with third parties.
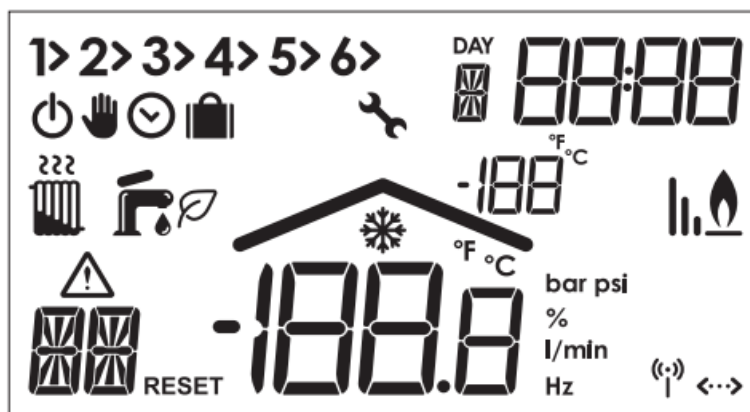
This manual replaces previous versions.
In order to constantly improve its products, the manufacturer, reserves the right to change the data provided in this manual at any time and without notice. Product warranty pursuant to Leg. Decree. no. 24/2002

Open Therm electronic device with user interface function for boiler control and weekly room Chrono-Thermostat. Ready to communicate with WFC03 gateway for remote control by APP.

USER INTERFACE

Display with active symbols

Meaning of the active symbols:

Symbol	Description
1> 2> 3> 4> 5> 6>	Heating time bands (The current one is followed by the arrow)
DAY	Day of the week (1 = Mon, ..., 7 = Sun)
88:88	Time
▥ + ♨	Heating enabled + demand on going
⊓ + ♦	DHW enabled + demand on going
✺	Fixed: Cooling enabled Blinking: demand on going
⌀	Economy function active for domestic hot water
⏻	Status e Program = Off
✋	Program = Manual
☉	Program = Automatic
🛍	Holly-day function active
▮,♦	Flame presence and level
⌂888	Room temperature
❄	Antifreeze function active
🔺	Presence of anomaly with code
⚒	Communication error (with boiler)
RESET	Boiler unlock request
((·))	Absent: Gateway not associated Fixed: Gateway associated and reachable Blinking: Gateway unreachable
⌂88	External temperature
<···>	Boiler communication present

Buttons

Only for devices with back-light, the first pressure of any button unlocks the keyboard and turns on then backlighting,the second pressure make an action.

Meaning of the buttons:

Symbol	Description
▥ 🮲 ®	OFF / only DHW / heating / cooling / RE-SET (unblocking)
✋ ☉	Automatic/Manual program
Ⓟ	Hourly programming
☉^{DAY}	Time and day setting
▥	Heating temperature adjustment
🮲	DHW temperature adjustment
İP	User information/Settings
🧳	Holiday function/Copy
—	Value decrease
+	Value increase

PROGRAMMING

Day / Time

1. Press the button ☉^{DAY} to set the day. The number aside the word DAY will start flashing.

2. With buttons + and – set the current day of the week (day 1 = Monday, …, day 7 = Sunday).

3. Press again button ☉^{DAY} to confirm and set the hour.

4. Modify the value with buttons + and – , press again ☉^{DAY} to set minutes.

5. After setting also the minutes using + and – , press again ☉^{DAY} to confirm everything and exit.

Mode

STATUS: OFF / ONLY DHW / HEATING / COOLING

1. OFF – To switch off the boiler, press the button ▥ 🮲 ® until the icon ⏻ is displayed. See also the Holly-day function to program the OFF state for a specific period of time. In any case, if the room temperature decrease below 5°C,the heating is automatically switched on again for the Antifreeze function. The production of domestic hot water depends on the type of boiler connected.

2. Only DHW – To switch off the heating while maintaining the domestic hot water function, press the button ▥ 🮲 ® until icon 🮲 is displayed. In any case, if the room temperature decrease below 5°C, the heating is automatically switched on again for the Antifreeze function.

3. Heating – To switch on heating, press the button ▥ 🮲 ® until icons ▥ and 🮲 . are displayed. Whatever controlled unit will deliver hot water.

4. Cooling – To switch on cooling, if controlled unit is enable to this function, press the button ▥ 🮲 ® until

icons and are displayed. Whatever controlled unit will deliver hot water.

PROGRAM: AUTO/MAN/TEMP. MANUAL

Press the button to change heating program from Automatic to Manual (for heating, cooling or domestic hot water only if enable).

1. **Automatic** – When the display shows symbol the active programme is Automatic and the Chrono-Thermostat will work according to the set weekly programme displaying the time bands in the upper part of the screen. Press the button to change the program from Automatic to Manual and vice versa.

2. **Manual** – When display shows symbol the set value is fix. Use the button + and – to change the value by increments of 0,1 °C. To increase/decrease the set it is necessary to keep pressed + for increase and – for decrease.

3. **Temporary Manual** – When Automatic program is active,it is possible to change temporary (only for heating and cooling) the set of current time band simply pressing on buttons + and – , as indicated in the Manual program.

   The symbol will flash to indicate the new temporary situation which will end when the following time band starts.

HEATING – DOMESTIC HOT WATER TEMPERATURE ADJUSTMENT

1. Heating – Press the button : the display shows the current heating circuit water temperature setting, adjustable using the buttons +and – , in steps of 1°C.

2. DHW – Press the button : the display shows the current domestic hot water temperature setting, adjustable using the buttons + and -, in steps of 1°C.

Press any button to exit the menu.

Automatic Program
The automatic program allows you to set up to 6 time bands per day and the corresponding room set temperatures between 7.0°C and 32.5°C, in steps of 0,1°C, from 00:00 to 23:59 in steps of 10 min, from day 1 (Mon) to day 7 (Sun).

Note: only DHW scheduling (if enable) show Economy (EC) or Comfort (CO) levels instead of temperature.
By default the device will follow the following preset program:

HEATING

MONDAY – FRIDAY					
1	2	3	4	5	6
06:30	08:00	12:00	14:00	18:00	22:30
21°C	18°C	21°C	18°C	21°C	16°C

SATURDAY – SUNDAY					
1	2	3	4	5	6
08:00	10:00	12:00	14:00	18:00	23:00
21°C	21°C	21°C	21°C	21°C	16°C

COOLING (if enable)

MONDAY – FRIDAY					
1	2	3	4	5	6
06:30	08:00	12:00	14:00	18:00	22:30
26°C	28°C	26°C	28°C	26°C	27°C

SATURDAY – SUNDAY					
1	2	3	4	5	6
08:00	10:00	12:00	14:00	18:00	23:00
26°C	26°C	26°C	26°C	26°C	27°C

DHW (if enable)

MONDAY – FRIDAY					
1	2	3	4	5	6
08:00	10:00	12:00	14:00	18:00	23:00
CO	CO	CO	CO	CO	CO

Automatic preset program change

1. Press the button ⓟ to enter in program menu.
2. Press buttons + and – to move from HEATING to COOLING or DOMESTIC HOT WATER.
3. Press the button ⓟ to confirm and start changing.

   Note: when the program is changed the device displays first the time band 1 of day 1. Use buttons + and – to select one of the 6 time bands, use the button ⓥ DAY to change the days of the week.

4. Press the button ![IP] to move between starting time, temperature set and time bands.

5. Press buttons + and – to change start time by increments of 10 minutes.

6. Press the button ![IP] to change temperature set.

7. Press buttons + and – to change the temperature by increments of 0,1°C. In the case of DHW programming, is possible to change from ECONOMY (EC) e COMFORT (CO).

8. Press the button ![IP] to go back to time bands.

9. Press buttons + and – to move to the next/previous time band (the selected time band is followed by the arrow).

10. Wait 60 seconds to exit or press any other button.

   After having set the program for one day of the week, it is possible to copy it on the next days:

11. Use button ![DAY] to select the day of the week to copy.

12. Press button ![bag] to copy the settings of the selected day of the week to the next day.

Special Functions

Holiday function
Is used to switch off heating or cooling (the deactivation of the domestic hot water depends on the type of controlled unit connected) from 1 hour to 45 days, adjustable in steps of 1 hour. At the end of the function the previous settings are activated. If the room temperature decrease below 5°C, the heating is automatically switched on again for the Antifreeze function.

Activation and setting of Holiday function:

1. Press button ![bag] . The symbol ![bag] starts flashing and the hours and minutes become -00:01, which is the time remaining before the end of the Holiday function.

2. Press buttons + and – to extend the time remaining until the end of the Holiday function in 1 hour increments (-00:01 means 1 hour; -45:00 means 45 days). By keeping the button pressed the time and days will change rapidly.

3. During the Holiday function the display will continue to show the time remaining until the end of the function.

To turn off Holiday function press the button ![bag] .

USER PARAMETER EDITING

- Press the button ![IP] for 3 seconds to access user parameters menu.
- Press any other button to exit.

CU – Sliding temperature – Heating compensation curve

Note: default point set is 0.

Installing the external probe to the boiler the heating system temperature is adjusted according to the outside

weather conditions.
In particular, as the external temperature increases the system delivery temperature decreases according to a specific compensation curve.

The compensation curve can be set from 1 to 10 according to the following graph:
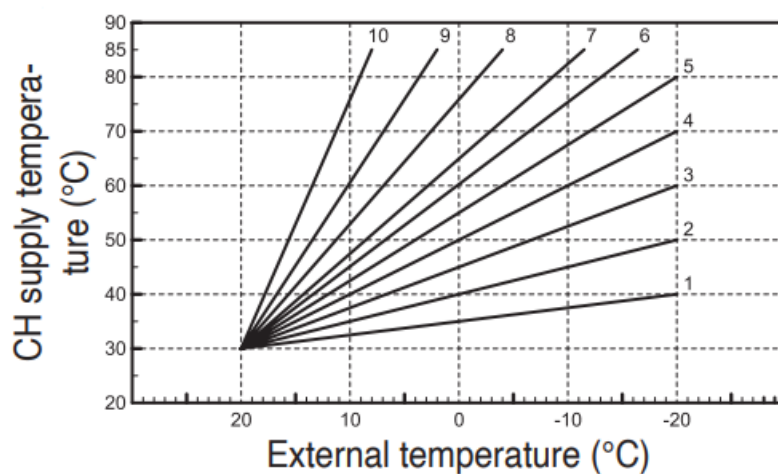
1. Press the button ⓘP for 3 seconds until CU is showed.

2. Press buttons + and – to change the value.

Set the compensation curve to 0 to disable Sliding Temperature adjustment.

Sliding temperature – Heating parallel curve offset

Note: default point set is 30°C.

Once the Compensation curve has been set, parallel curve offset can be adjusted from 20 to 40 as shown in the following graphs:
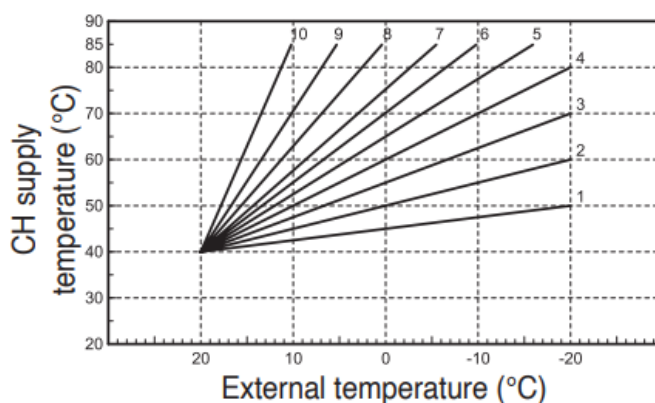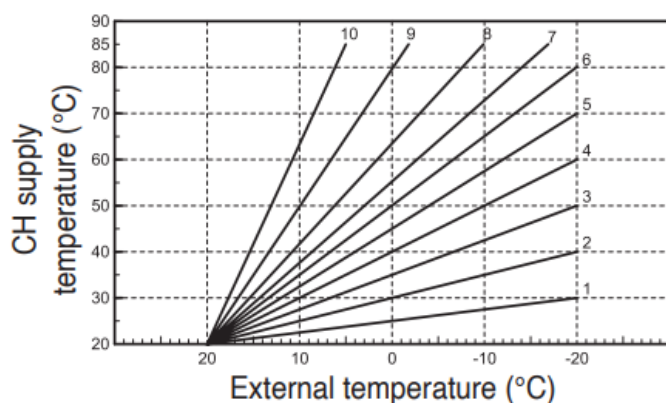
1. Press the button ⓘP for 3 seconds until CU is showed.

2. Press again ⓘP until OF is showed.

3. Press buttons + and – to change the value.

P1 – Enable DHW programming

To set the weekly automatic programme proceed as described in the section "AUTOMATIC PROGRAM". During the COMFORT level, the boiler will maintain the domestic hot water set; during the ECO level, showed on the display by the symbol ⌀ , the production of domestic hot water depends on the type of boiler connected. Refer to the boiler instructions.

Attention: Make sure the remote control is set to HEATING mode with AUTOMATIC program.

Note: default point set is 0 = Deactivated.

Program setting:

1. Press the button 🅿 for 3 seconds until CU is showed.

2. Push the button 🅿 2 times to switch on P1.

3. Press buttons + and – to change the value:
   - 0 = Disabled. Always Comfort.
   - 1 = Enabled only for HEATING and COOLING mode.
   - 2 = Always enabled.
   - 3 = Disabled. Always Economy.

P2 – Pre-heating function
Important: this function is active only if heating automatic mode has been selected.
When this function is enabled, the device makes the boiler starting before the set hour, in order to reach comfort temperature the soonest even from the very beginning of the time slot (not before 00:00). It is also possible to set a fixed pre-heating slope, in this way, the device considers as comfort temperature adding 3° to set temperature, thus the boiler does not switch off when the set is reached. During the pre-heating function the room temperature °C symbol flashes. The function ends when the difference between the programmed room temperature and the actual one is less than 0,5°C.

Note: default point set is 0 = Deactivated.

Function setting:

1. Press the button 🅿 for 3 seconds until CU is showed.

2. Push the button 🅿 3 times to switch on P2.

3. Press buttons and to change the value:
   - 0 = Deactivated
   - 1 = Automatic pre-heating
   - 2 = Fixed pre-heating slope.

P3 – Number of time bands
The Automatic programme manages 6 points, each of them associated to an hour and a temperature. Each point matches to the beginning of a new time band. If necessary they can be reduced to a minimum of 2.

Note: default point is set to 6.

Function setting:

1. Push the button ![icon] for 3 seconds until CU is showed.

2. Push the button ![icon] 4 times to switch on P3.

3. Press buttons and to change the value.

P4 – Heating minimum temperature
Setting the minimum heating circuit water temperature by step of 1°C.

1. Push the button ![icon] for 3 seconds until CU is showed.

2. Push the button ![icon] 5 times to switch on P4.

3. Press buttons and to change the value.

P5 – System filling
This function manages the operation mode of the electric device for filling the water circuit in certain boiler models.

Attention: Set the boiler control to manual filling. In manual mode, if the sensor installed in the boiler detects insufficient pressure, the bar icon will flash on the display; press the button ![icon] to activate the special solenoid valve. During manual or automatic system filling the bar icon will become fixed.
Once the nominal pressure is restored, the remote control will return to the normal display.

Note: default point set is 0 = Deactivated.

Function setting:

1. Push the button ![icon] for 3 seconds until CU is showed.

2. Push the button ![icon] 6 times to switch on P5.

3. Press buttons + and – to change the value.

P6 – Temperature measurement unit (°C/°F)

Note: default point is set to 0 =°C.

Temperature setting:

1. Push the button ![icon] for 3 seconds until CU is showed.

2. Push the button ![icon] 7 times to switch on P6.

3. Press buttons + and – to change the value:
   - 0 = °C
   - 1 = °F.

P7 – Correction of room temperature reading
It is possible to correct the room temperature reading between -2°C and +2°C by steps of 0,1°C.

Note: default point is set to 0.

Setting of reading correction:

1. Push the button 𝐈𝐏 for 3 seconds until CU is showed.

2. Push the button 𝐈𝐏 8 times to switch on P7.

3. Press buttons + and – to change the value.

P8, P9 – Phone contact input (GSM)
Normal Remote Control operation is ensured as long as the telephone contact remains open. The closing of this contact,indicated on the display with the symbols , can be used to force the Remote Control to switch off heating or to set the room temperature to a preset fixed value.

P8 – note: default point is set to 0 = Heating switched OFF.

P9 – note: default point is set to 20°C.

Function setting:

1. Push the button 𝐈𝐏 for 3 seconds until CU is showed.

2. Push the button 𝐈𝐏 9 times to switch on P8.

3. Press buttons + and – to change the value:
   - 0 = to switch off heating when the contact is closed
   - 1 = to adjust room temperature to a preset fixed value (by means of parameter P9) when the contact is closed.
4. Push the button to switch on P9.
5. Press buttons + and – to change the value (only if parameter P8 is set to 1).

OT – Type of communication protocol Open Therm
Parameter reserved for qualified person.

Parameter setting:

1. Push the button 𝐈𝐏 for 3 seconds until CU is showed.

2. Push the button 𝐈𝐏 11 times to switch on OT.

3. Press buttons + and – to change the value:
   - 0 = Standard
   - 1 = OEM
   - 2 = B&P.

FS – Nax heating setting and DHW setting
Enabling/disabling the reading of the heating and DHW setpoint.

Note: default is 0 = reading and writing.

Parameter setting:

1. Press the button $\mathbb{P}$ for 3 seconds until CU is showed.

2. Push the button $\mathbb{P}$ 12 times to switch on FS.

3. Press buttons + and – to change the value:
   - 0 = reading and writing
   - 1 = only writing.

D1 – CONTRAST
Only for versions with backlight.

To change the display contrast.

Parameter setting:

1. Press the button $\mathbb{P}$ for 3 seconds until CU is showed.

2. Push the button $\mathbb{P}$ 13 times to switch on D1.

3. Press buttons + and – to adjust the contrast.

D2 – Lighting duration
Only for versions with backlight.

To change the backlight duration.

Parameter setting:

1. Press the button $\mathbb{P}$ for 3 seconds until CU is showed.

2. Push the button $\mathbb{P}$ 14 times to switch on D2.

3. Press buttons + and – to modify its duration in seconds.

KEY LOCK FUNCTION

From unlocked keypad it is possible to activate the lock by pressing the two buttons [icon] and [icon] simultaneously for about 3 seconds. When the lock is activated, "LK" will appear briefly.
From this moment the keypad will be locked and at each action "LK" will be shown to indicate keypad lock in progress.

To unlock the keypad press the two buttons [icon] and [icon] simultaneously again for 3 seconds.

After unlocking, "UL" will appear briefly.

USE WITH GATEWAY WFC03

Note: the WFC03 gateway is not included in the package but is an accessory to be purchased separately.
This gateway only works with the RC22OTRF (knowable by the icon in the label placed inside the case back).

By associating the WFC03 gateway with RC22OTRF, and installing WFC03 in the home WLAN network, it is possible to manage the room temperature and the operation of the controlled unit remotely via APP.
APP is available on the APPLE Store or Play Store.
To know how associate and remove the zone/remote to the gateway and for WLAN installation, refer to the APP itself where there is a guided procedure.

GENERAL INFORMATIONS

The remote control can provide the user with information on boiler status.

Each press of the button allows the cyclic display of the following information:

- **T1 –** Heating circuit delivery water temperature
- **T2 –** Domestic hot water temperature
- **T3 –** Heating circuit eturn water temperature (boilers with sensor only)
- **T4 –** Delivery water temperature setpoint calculated by the remote control
- **P5 –** Actual burner power
- **F6 –** Actual fan speed (condensing boilers only)
- **F7 –** Actual DHW flowrate (instant hot water boilers with flowmeter only)
- **P8 –** Actual system pressure (boilers with pressure sensor only)
- **P9** – Rate request for cooling calculated by the Remote (if the controlled unit is enabled to function)
- **M –** Device model
- **V –** Device software version.

FAULTS

- **E91 =** communication error with the boiler
- **E92 =** room temperature reading probe not working
- **E93 =** external temperature reading probe not working
- **AXX =** anomaly XX of the boiler not unlockable
- **FXX =** anomaly XX of the unlockable boiler.

RESTORING FACTORY SETTING

Important: with this procedure the device parameters will be restored to the factory set values, except for the time and day setting.

To reset user setting will be necessary to push the buttons + and – together for 10 seconds (the message RE flashing is displayed).

PRODUCT DATASHEET
According to 811/2013 Rule, the class of temperature controller and contribution to seasonal space heating energy

efficiency in % are the following:

Class	Contribution	Description
V	+3%	Chronothermostat.
VI	+4%	Chronothermostat combined with the external probe; installed on boiler equipped with modulating burner
VIII	+5%	Zone manager kit combined with 3 Chronothermostat; installed on boiler equipped with modulating burner

The RC22OTRF remote controls are compliant with: – 2014/53/EU (RED) (Electromagnetic Compatibility Directive) RC22OTRF must comply to the above-mentioned Directive,so CE mark is printed on the user manual:

WARNING
Wiring must conform to technical norms, specifically:

- the electrical conductors for connecting the remote control to the boiler must go through small channels different from those of the mains (230 V), as they are fed at a low safety voltage.
  The installation of the device must be carried out ONLY by qualified person.

Warning: disconnect the power to the boiler before carrying out installation.
In no case can the manufacturer be held responsible if the warnings and instructions given in this booklet are not followed.

INSTALLATION

1. Choose the most appropriate place for installation in order to guarantee the correct device functioning. It is recommended to install the device at a height of approx. 150 cm from the floor, in a place away from doors, windows or heat sources that could affect the room temperature.
2. Remove the front of the Chrono-Thermostat by rising with a screwdriver inside the hole below.

3. Fix the back of the Remote Control to the wall with the set of screws supplied.
4. Connect the device to the boiler with the OT (COM) terminal,for Open Therm communication, as indicated on the label located inside the back, using a non-polarized bipolar cable < 50 m (Recommended section:

2×0.75mm2).

Note: AUX (IN) input can be connected to a free contact, with a non-polarized bipolar cable < 10 m, of auxiliary remote control devices (GSM, IoT, Home Automation, Zone, …). Closing it allows the start of pre-established states, programs and sets that can be set via parameters. Closing it allows, only for HEATING MODE, the start of pre-established states, programs and sets that can be set via parameters. If WFC03 is connected for remote manage by APP the AUX input doesn't work.

5. Refit the front of the Chrono-Thermostat making sure to centre it on the rear part.

Once ended the above indicated procedure, it will be possible to connect the power to the boiler.

REMOTE CONTROL DISPOSAL AND RECYCLING

Please observe the regulations currently in force regarding recycling or disposing of the REMOTE.
For electronic appliances specifically, please see Directive 2012/19/EU and ANNEX IX of the Italian Decree transposing this Directive, DL49/14.

The crossed-out wheeled bin symbol on the appliance or packaging indicates that the product must be collected separately from other waste at the end of its useful life.

The user must take the appliance – at the end of its lifecycle to a suitable separate collection facility for electrical and electronic waste, or return it to the retailer when purchasing a new appliance of the same type.
By taking the appliance to a suitable collection facility for correct recycling, treatment or environmentally compatible disposal, you are helping to prevent any damage to the environment and human health and to promote the reuse and recycling of the materials used to make the appliance.
Users disposing of the product illegally will be fined as per the regulations in force.

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www.biasi.it – www.saviocaldaie.it
www.tradesa.com – www.biasigroup.hu

Documents / Resources

Biasi WFC03 Remote Control [pdf] Instruction Manual
WFC03 Remote Control, WFC03, Remote Control, Control

References

- **Home | Biasi Caldaie**
- **biasigroup.hu**
- **Home | Savio Caldaie**
- **User Manual**