

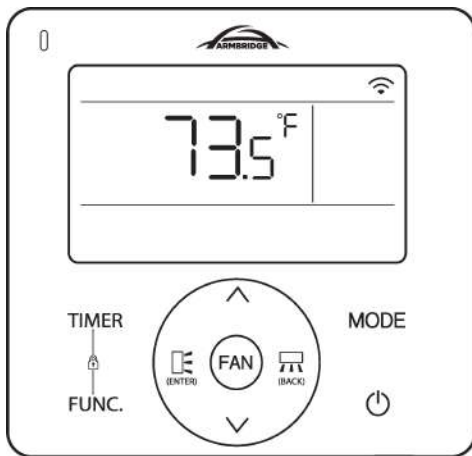


WIRED REMOTE CONTROLLER

Installation and Owner's Manual

MODELS:

AB-TS09CT-230VI
AB-TS12CT-230VI
AB-TS18CT-230VI
AB-TS24CT-230VI
AB-TS09DT-230VI
AB-TS12DT-230VI
AB-TS18DT-230VI
AB-TS24DT-230VI



IMPORTANT NOTE:

Please read this manual carefully before installing or operating your wired remote controller. Make sure to save this manual for future reference.

This manual gives detailed description of the precautions that should be brought to your attention during operation.

In order to ensure correct service of the wired controller, please read this manual carefully before using the unit.

For convenience of future reference, keep this manual after reading it.

All the pictures in this manual are for explanation purpose only. There may be slightly different from the wired remote controller you purchased (depend on model).

The actual shape shall prevail.

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1. Safety precaution



WARNING

- Please entrust the distributor or professionals to install the unit.
- Installation by other persons may lead to imperfect installation, electric shock or fire.
- Adhere to this installation manual.
- Improper installation may lead to electric shock or fire.
- Reinstallation must be performed by professionals.

Do not uninstall the unit randomly.

Random uninstalling may lead to abnormal operation, heating or fire of the air condition.

NOTE

- Do not install the unit in a place vulnerable to leakage of flammable gases. Once flammable gases are leaked and left around the wire controller, fire may occur.
- Do not operate with wet hands or let water enter the wire controller. Otherwise, electric shock may occur.
- The wiring should adapt to the wire controller current. Otherwise, electric leakage or heating may occur and result in fire.

1. Safety precaution

NOTE

- The specified cables shall be applied in the wiring. No external force may be applied to the terminal. Otherwise, wire cut and heating may occur and result in fire.

2. Installation accessory

Select the installation location

Don't install at the place where cover with heavy oil, vapor or sulfureted gas, otherwise, this product would be deformed that would lead to system malfunction.

Preparation before installation

1. Please confirm that all the following parts have been provided to you.

No.	Name	Qty.	Remarks
1	Wire controller	1	_____
2	Installation and owner's manual	1	_____
3	Screws	3	M3.5×25 (For Mounting on the Wall)
4	Wall plugs	3	For Mounting on the Wall
5	Screws	2	M4×25 (For Mounting on switch box)
6	Battery	1	_____
7	The connective wires group	1	Optional
8	Screw	1	M4×8(For Mounting the connective wire group)

2. Installation accessory

2. Prepare the following assemblies on the site.

No.	Name	Qty.(embedded into wall)	Specification (only for reference)	Remarks
1	Switch box	1	_____	_____
2	Wiring Tube(Insulating Sleeve and Tightening Screw)	1	_____	_____

Precaution of installing the wire controller

1. This manual provides the installation method of wired controller. Please refer to the wiring diagram of this installation manual to connect the wire controller with indoor unit.
2. The wired controller works in low voltage loop circuit. Forbid to directly contact the cable of high voltage above, like 115V, 220V, 380V, and don't wire this kind of wire in the said loop; wiring clearance between configured tubes should be at the range of 300~500mm or above.
3. The Shielded wire of the wired controller must be grounded firmly.
4. Upon finish the wire controller connection, do not employed tramegger to detect the insulation.

3. Installation method

1. Wired remote controller structural dimensions

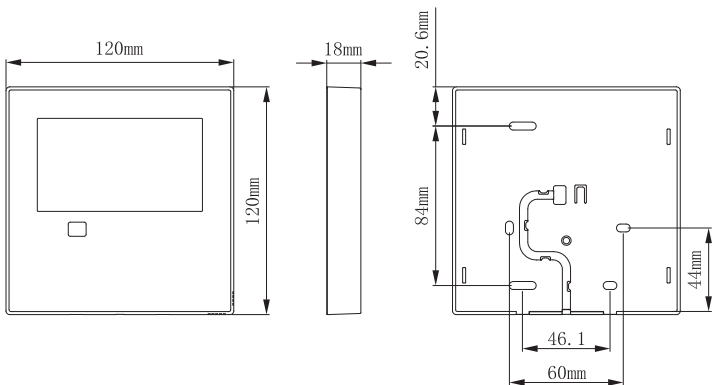


Fig 3-1

2. Remove the upper part of wired controller

- Insert a slot screwdriver into the slots in the lower part of the wired controller (2 places), and remove the upper part of the wire controller. (Fig.3-2)

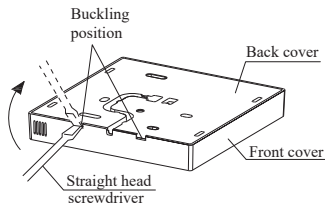


Fig 3-2

3. Installation method

NOTE: The PCB is mounted in the upper part of the wired controller.
Be careful not to damage the board with the slot screwdriver.

3. Fasten the back plate of the wired controller

- For exposed mounting, fasten the back plate on the wall with the 3 screws (M3.5×25) and plugs. (Fig.3-3)

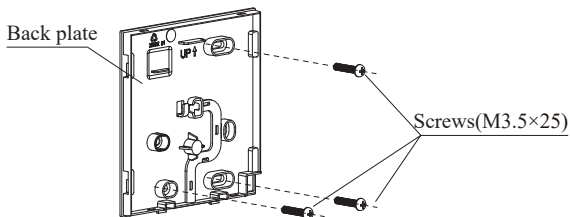


Fig 3-3

- Use two M4×25 screws to install the back cover on the 86 switch box, and use one M4×25 screw to fix to the wall.

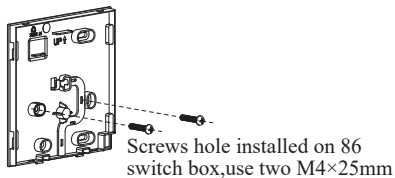


Fig 3-4

3. Installation method

NOTE: Put on a flat surface. Be careful not to distort the back plate of the wire controller by overtightening the mounting screws.

4. Battery installation

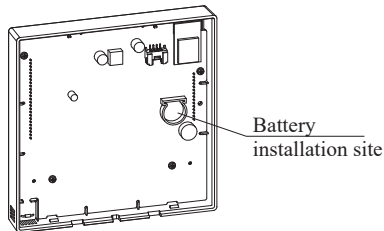


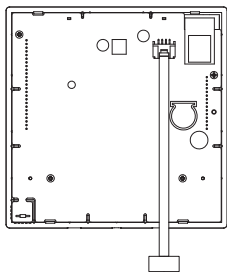
Fig 3-5

- Put the battery into the installation site and make sure the positive side of the battery is in accordance with the positive side of installation site.(See Fig.3-5)
- Please set the time corrected on the first time operation.
Batteries in the wire controller can time under power failure which ensure the time keep right. When the power restores, if the time displayed is not correct, it means the battery is dead and replace the battery.

3. Installation method

5. Wire with the indoor unit

A



B

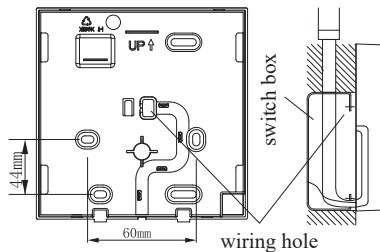


Fig 3-6

Notch the part for the wiring to pass through with nippers, etc.

NOTE: Do not allow water to enter the remote control.

Use the trap and putty to seal the wires.

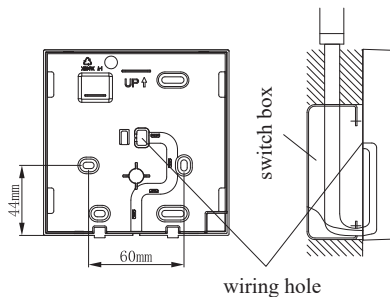
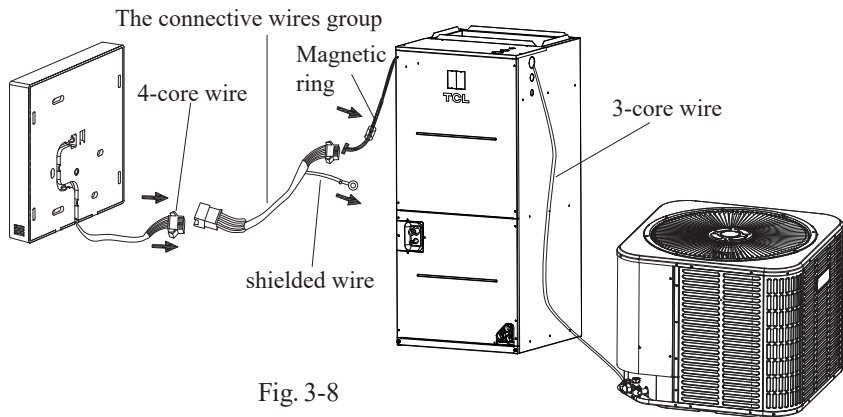


Fig 3-7

3. Installation method

6.Installation Diagram

Connect the wire from the master control board of the indoor unit to a connecting cable. Then connect the other side of the connecting cable to the remote control.



NOTE: Be sure to reserve a length of the connecting wire for periodic maintenance.

There is a connection lug at the end of shielded wire, the connection lug should be properly grounded.

3. Installation method

7. Reattach the upper part of the wire controller

- After adjusting the upper case and then buckle the upper case; avoid clamping the wiring during installation. (Fig 3-9)

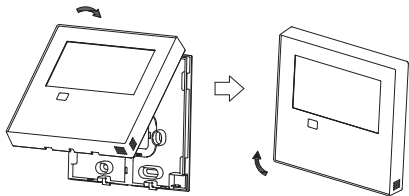


Fig 3-9

All the pictures in this manual are for explanation purpose only. Your wire controller may be slightly different. The actual shape shall prevail.

4. Specification

Input voltage	DC 5V/12V
Ambient temperature	-5~43°C(23~110°F)
Ambient humidity	RH40%~RH90%

Wiring specifications

Wiring type	Size	Total length
shielded vinyl cord or cable	0.5-1.25mm ²	≤50m(164')

5. Feature and function of the wired controller



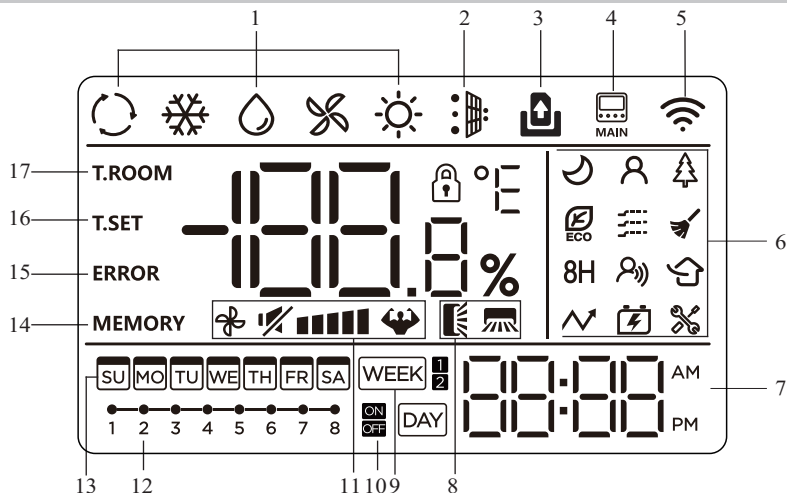
Feature:

- LCD display.
- Malfunction code display: it can display the error code, helpful for service.
- 4-way wire layout design, no raised part at backside, more convenient to place the wires and install the device.
- Room temperature display.
- Weekly Timer.

Function:

- Mode: choose Auto - Cool - Dry - Fan - Heat - Emergency Heat
- Fan speed: Mute /Low/Med-low/Med/ Med-high/High speed/Turbo/Auto
- Timer ON/OFF
- Temp setting
- Weekly timer
- Follow me
- 24-hour System
- 12-hour System
- Auto-restart(on some models)
- Child Lock
- LCD display
- Clock
- Panel function(on some models)

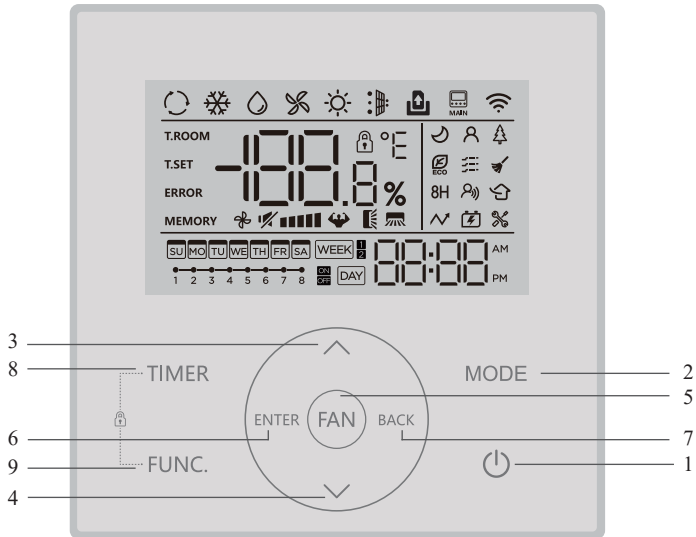
6. Name on the LCD of the wired controller



- | | | |
|--------------|------------------|-------------------------|
| 1. MODE | 7. CLOCK | 13. WEEK |
| 2. DUST FULL | 8. SWING | 14. POWER-DOWN MEMORY |
| 3. DOOR CARD | 9. WEEK TIMER | 15. ERROR |
| 4. MAIN IDU | 10. TIMER ON/OFF | 16. TEMPERATURE SETTING |
| 5. Wi-Fi | 11. FAN SPEED | 17. ROOM TEMPERATURE |
| 6. FUNCTION | 12. TIMER TASK | |

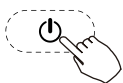
NOTE: Some of the display icons are only available on specific models, please refer to the purchased model for details.

7. Name of button on the wired controller




1. [ON/OFF] button
2. [MODE] button
3. [UP] button
4. [DOW] button
5. [FAN SPEED] button
6. [ENTER] button
7. [BACK] button
8. [TIMER] button
9. [FUNC.] button

8. Explanation of buttons



1. [ON/OFF] button

Press the button “A dashed-line button with the word “MODE” and a hand icon pointing to it.

2. [MODE] button

Press the button “MODE” to change the air conditioner running modes cyclically: AUTO→COOL→DRY→FAN→HEAT→Emergency Heat.


NOTES:

In heating mode, when the outdoor temperature is less than 35.6°F, the air conditioner will automatically turn on the auxiliary heating when the set temperature of the air conditioner minus the indoor temperature is greater than 37.4°F.



Lower Raise

3. [/

Press the button “A dashed-line button with the word “FAN” and a hand icon pointing to it.

4. [FAN SPEED] button

Press the button “FAN” to change the fan speeds cyclically: Mute →Low speed→Medium-low speed→Medium speed→Medium-high speed→High speed→Turbo→Auto speed.



5. [ENTER] button

When setting the function, press the button “ENTER” to confirm the function selection.



6. [BACK] button

When setting the function, press the button “BACK” to return to the previous setting.

7. [FUNCTION] button



Press the button “FUNC.” for function selection; the current function icon to be selected will blink; at the moment, you can click the button “^” or “v” to switch to the next function; if the icon is lighted up permanently, it means that the function is activated; otherwise, it means that the function is inactivated.

- 1) SLEEP: When the icon “☾” blinks, if you click the button “ENTER”, you can activate or inactivate the sleep function;
- 2) HEALTH: When the icon “⚕” blinks, if you click the button “ENTER”, you can activate or inactivate the health function;
- 3) ECO: When the icon “🌱” blinks, if you click the button “ENTER”, you can activate or inactivate the energy conservation function;
- 4) GENTLE: When the icon “🌀” blinks, if you click the button “ENTER”, you can activate or inactivate the gentle air flow function;
- 5) SELF-CLEANING: When the icon “🧹” blinks, if you click the button “ENTER”, you can activate or inactivate the self-cleaning function (in the state of power-off);
- 6) 8H: When the icon “8H” blinks, if you click the button “ENTER”, you can activate or inactivate the 8-heating function;
- 7) GENERATOR: When the icon “⚡” blinks, if you click the button “ENTER”, you will access the generator gear selection interface; you can click the button “v” or “^” to select the target gears: OF→L1→L2→L3, if you click the button “ENTER” at the moment, you will confirm the target gear and the icon “⚡” will be lighted up permanently; if you select the gear “OF”, the generator function will be inactivated and the icon “⚡” will be not displayed;
- 8) PARAMETER SETTING: When the icon “⚙️” blinks, if you click the button “ENTER”, you will access the parameter setting interface; after that, the timer zone will blink and display the current device function code, and the temperature zone will blink and display the corresponding device function parameter.

You can change the device function code by clicking the buttons “ \wedge ” and “ \vee ”; if you click the button “ENTER”, it means that you have selected the target function, and then you can set the function parameter.

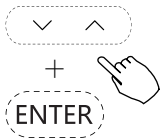
At the moment, the temperature zone will blink and display the current function parameter and you can change it by clicking the button “ \wedge ” and “ \vee ”, and then you can click the the button “ENTER” for confirmation, and then you can click the button “ \odot ” to exit from the parameter setting.

Device Function Code	Device Function	Device Function Parameter	Remarks
P6	Degree Fahrenheit/ Celsius display	F-C	C: Degree Celsius display F: Degree Fahrenheit display
PA	Ambient/Set temperature display	00-01	00: Set temperature 01: Ambient temperature
PD	Wired controller button Buzzer switch	ON-OFF	ON: Buzzer on OFF: Buzzer off
A8	Maximum backlight luminance	30~100	Percentage of maximum backlight luminance
B3	Dust full reminding	ON-OFF	ON: Dust full reminding function on OFF: Dust full reminding function off
B4	Clock display setting	12-24	12: 12-hour system display 24: 24-hour system display
Pn	Auxiliary heating activation conditions setting	-22°F~86°F	Set the temperature value to enable the auxiliary heating, which value is the outdoor ambient temperature
B6	Set whether the auxiliary heating can be automatically turned on in heating and automatic mode	ON-OFF	ON: Enable by default OFF: Off by default



8. Real-time timer setting

- 1) If you press and hold the button “TIMER” for more than 2 seconds, the timer zone will blink and display the day of the week;



2) You can select the day of the week by clicking the button “^” or “v” and then you can click the button “ENTER” for confirmation;

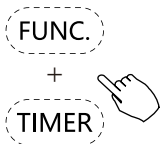
3) You can set the hour value by clicking the button “^” or “v” and then you can click the button “ENTER” for confirmation;

4) You can set the minute value by clicking the button “^” or “v” and then you can click the button “ENTER” for confirmation;


5) You can quickly adjust the value by pressing and holding the button “^” or “v”;

6) You can go back to the previous parameter setting by clicking the button “BACK”.

If the indoor unit is connected to the Wi-Fi network, the wired controller will automatically synchronize the current time without the need for manual clock setting.



9. Auxiliary functions

CHILD LOCK: If you simultaneously press and hold the button “FUNC.” and the button “TIMER” for more than 3 seconds, you can activate or inactivate the child lock function; after the child lock function is activated, the icon “” will be lighted up permanently.

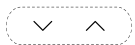
10. TIMER functions

1) Timer function selection

(1) Click the button “TIMER” to access the timer function selection interface.



(2) Click the button“^” or “v” to change different types of timer functions as well as blink and display the selected items: TIMER ON, TIMER OFF, WEEK TIMER 1 and WEEK TIMER 2; After selecting the target timer function, you can click the button “ENTER” for confirmation and access the timer function setting interface.

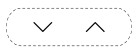


The WEEK TIMER 2 allows the setting of the power-on mode, the temperature value and the fan speed.

2) TIMER ON/OFF function setting

(1) After you access the timer on/off function setting interface, the timer zone will blink;

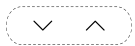
(2) You can adjust the hour value of the timer by clicking the button “^” or “v” and then you can click the button “ENTER” for confirmation;



(3) You can adjust the minute value of the timer by clicking the button “^” or “v” and then you can click the button “ENTER” for confirmation and then exit from the timer function setting interface.

3) WEEK TIMER 1 function setting

(1) After accessing the WEEK TIMER 1 function setting interface, you need to first select the timer task, and then the timer task icon will blink;



(2) You can click the button“^” or “v” to select the target timer task from 1 to 8; the selected timer task icon will blink and then you can click the button “ENTER” to confirm the timer task selection;



FUNC.

(3) You can click the button “^” or “v” to select the date of the week timer from Sunday to Saturday; after you click the button “FUNC.”; if the temperature zone displays “ON”, it means that the current date setting has gone into effect; after you click the the function button “FUNC.” again, if the temperature zone displays “OFF”,it means that the current date setting has not gone effect; after that, you can click the button “ENTER” for confirmation;



^ v

(4) You can click the button “^” or “v” to switch between Day on and Day off, and then you can click the button “ENTER” to confirm the timer on/off setting;



ENTER

(5) You can click the button “^” or “v” to set the hour value of the timer and then you can click the button “ENTER” for confirmation;



⏻

(6) You can click the button “^” or “v” to set the minute value of the timer and then you can click the button “ENTER” for confirmation;

(7) Repeat steps (2) to (6) to set other tasks of the WEEK TIMER 1;

(8) After completing the timer setting operations, you can click the button“⏻”to exit from the timer setting.

NOTES:



BACK

1. On the WEEK TIMER 1 function setting interface, you can click the button “BACK” to return to the previous setting.



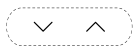
TIMER

2. In Step (1), if you press and hold the button “TIMER” for more than 2 seconds, you can clear the settings of the WEEK TIMER 1.

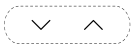
3. In Step (2), if you press and hold the button “TIMER” for more than 2 seconds, you can clear the settings of the current task.

4) WEEK TIMER 2 function setting

(1) After accessing the WEEK TIMER 2 function setting interface, you need to first select the timer task, and then the timer task icon will blink;

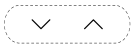


(2) You can click the button “^” or “v” to select the target timer task from 1 to 8; the selected timer task icon will blink and then you can click the button “ENTER” to confirm the timer task selection;



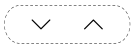
(3) You can click the button “^” or “v” to select the date of the week timer from sunday to saturday;

after you can click the button “FUNC.”; if the temperature zone displays “ON”, it means that the current date setting has gone into effect; after you click the function button “FUNC.” again, if the temperature zone displays “OFF”, it means that the current date setting has not gone into effect; after that, you can click the button “ENTER” for confirmation;



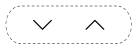
(4) You can click the button “^” or “v” to switch between Day On and Day Off, and then you can click the button “ENTER” to confirm the timer on/off setting;

When the timer is switched to Day On, you can set the power-on mode, the temperature and the fan speed.



When the mode icon blinks, you can click the button “^” or “v” to change the mode and then you can click the button “ENTER” for mode confirmation;

When the temperature icon blinks, you can click the button “^” or “v” to set temperature value and then you can click the button “ENTER” for temperature confirmation;



When the fan speed icon blinks, you can click the button “^” or “v” to set change the fan speed and then you can click the button “ENTER” for fan speed confirmation;

When the timer is switched to Day Off, you can directly go to Step (5);

(5) You can click the button “^” or “v” to select the hour value of the timer and then you can click the button “ENTER” for confirmation;



(6) You can click the button “^” or “v” to select the minute value of the timer and then you can click the button “ENTER” for confirmation;

(7) Repeat step (2) to (6) to set other tasks of the WEEK TIMER 2.

(8) After completing the timer setting operations, you can click the button “⏻” to exit from the timer setting.



NOTES:

1. On the WEEK TIMER 2 function on setting interface, you can click the button “BACK” to return to the previous setting.

2. In Step(1), if you press and hold the timer button “TIMER” for more than 2 seconds, you can clear the settings of the WEEK TIMER 2.

3. In Step(2), if you press and hold the timer button “TIMER” for more than 2 seconds, you can clear the settings of the current task.



DISPOSAL GUIDELINE

This appliance contains refrigerant and other potentially hazardous materials. When disposing of this appliance, the law requires special collection and treatment. **DO NOT** dispose of this product as household waste or unsorted municipal waste.

When disposing of this appliance, you have the following options:
Dispose of the appliance at designated municipal electronic waste collection facility.

When buying a new appliance, the retailer will take back the old appliance free of charge.

The manufacturer will also take back the old appliance free of charge. Sell the appliance to certified scrap metal dealers.

Disposing of this appliance in the forest or other natural surroundings endangers your health and is bad for the environment. Hazardous substances may leak into the ground water and enter the food chain.



NOTE:

The design and specifications are subject to change without prior notice for product improvement. Consult with the sales agency or manufacturer for details.



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