

# **Operation manual**

Wall-mounted condensing boiler



D2CNL024A1AA

Operation manual Wall-mounted condensing boiler

English

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# 1 Introduction

# 1.1 About the unit

This Daikin unit is a wall-mounted gas-fired condensing boiler that can supply heat to central heating systems, as well as supply domestic hot water. Depending on settings, it is possible to use the unit solely for hot water or solely for central heating. Hot water supply type can be **instantaneous** or by means of a hot water **storage tank. Heating only** boilers do not supply domestic hot water. The type of the boiler can be recognized from the model name written on the identification label. See table below:

Model Type		Domestic hot water supply	Filling loop	
D2CNL024A1AA	D2CNL024	Instantaneous	Internal	

A control unit, which contains a user interface, controls the ignition, safety systems, and other actuators. User interaction is provided via that user interface, which is composed of an LCD screen and buttons which is located on the front cover of the unit.

## 1.2 About the documentation

The instructions contained in this document are intended to guide you through the operation of the unit. Damage caused by nonobservance of these instructions are not under the responsibility of Daikin.

- The original documentation is written in English. All other languages are translations.
- The precautions described in this document are written for users and cover very important topics, follow them carefully.
- Please read the instructions in the manual carefully, for your safety and health.
- Please keep this manual for future reference throughout the unit's period of use.
- Request the installer to inform you about the settings that he made to configure your system.

## 1.2.1 Meaning of warnings and symbols

## DANGER

Indicates a	situation	that	results	in	death	or	serious	inj	ur

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Indicates a situation that could result in death or serious injury.

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Indicates a situation that could result in minor or moderate injury.
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Indicates a situation that could result in equipment or property damage.

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Indicates useful tips or additional information.

# 2 Safety instructions

Always observe the following safety instructions and regulations.

# 2.1 Installation

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Installation, service, maintenance and repair of the boiler can only be carried out by suitably qualified competent persons, in accordance with the applicable legislation, regulations, rules and guidelines.

### MARNING

The unit may only be operated with its casing properly mounted. Otherwise, in unfavourable conditions, material damage or even injury or death can result.

### 

A discharge pipe must be connected to the condensate trap in order to prevent contact with the condensate.

In case your skin comes into contact with condensate, the contact location should be washed with plenty of water. Condensate liquid may NEVER be used for purposes of cleaning, watering plants, or drinking.

### 2.2 Smell of gas

### DANGER Æ

This is a gas unit. Gas leaks might lead to poisoning and explosions.

If you smell gas:

- Do not use any electrical switches, including light switches.
- · Do not use telephones in the affected area.
- Do not use naked flames, such as matches or lighters.
- Do not smoke.
- Turn off the main gas supply.
- · Open windows and doors.
- · Warn other people in the building.
- · Get out of the building.
- Inform your gas supplier, service agent or other competent person.

### 2.3 Modifications on the unit

### DANGER

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Malfunctions can lead to poisoning and explosions. Never put the safety devices out of operation, nor tamper with them so as to impair their function.

### CAUTION

An inappropriate modification may cause damage. Never tamper with the boiler or other parts of the system. Never attempt to perform maintenance or repair yourself. Call a qualified service agent.

### CAUTION

Do not use sprays, solvents, chlorinated cleaning agents, paint, and adhesives in the vicinity of the unit. These substances can cause corrosion, even in the flue system.

### DANGER ∕!∖

Do not damage or remove any seals on components. Only qualified persons are allowed to alter sealed components.

Do not make any modifications on:

- Boiler
- Gas, water or power supply
- Flue system

D2CNL024A1AA

### For the user 2.4

## CAUTION

Any misuse is forbidden. The manufacturer is not responsible for any malfunctions and/or damage that may occur due to misuse.

- Your unit is intended as a heater for central heating systems and for domestic hot water generation. Any other use is considered as "misuse"
- · If you are not sure how to operate the unit, contact your service agent.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall NOT play with the appliance. Cleaning and user maintenance shall NOT be made by children without supervision.

### CAUTION /!\

Do NOT rinse the unit. This may cause electrical shock or fire.

### NOTICE

- Do not place any objects or equipment on top of the unit
- Do not sit, climb or stand on the unit.

### WARNING <u>/i/</u>

If the supply cord is damaged, it MUST be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

### 3 Operation

### 3.1 User interface



#### LCD Screen g

#### 3.1.1 **Buttons**

The 6 buttons on the user interface have various functions according to different situations, which are stated in the table below:

Button/Dial	Function	Description
Mode / Enter / Reset	Mode	Change mode between summer, winter, central heating only and standby.
	Reset	Reset the lockout error.
Enter Passing on to menu structure		Passing on to the next level in the menu structure.
	Confirm	Confirmation of changes.
Menu / Back	Menu	Enter the menu function.
	Back	Go back to the parent menu.
	Cancel	Cancel changes.

# **3 Operation**

Button/Dial	Function	Description		
CH+ / CH-	User	Central heating temperature setpoint.		
	interaction level	This is either the central heating flow temperature, the room temperature, or the virtual room temperature, depending on the system configuration.		
	Menu level	Selection of info, user, service menu.		
DHW+ / DHW-	User interaction level	Domestic hot water temperature setpoint.		
	Menu level	<ul> <li>Selection parameter index.</li> </ul>		
		<ul> <li>Change parameter values.</li> </ul>		

## 3.1.2 LCD screen

LCD screen is the monitor of the user interface. You can see the boiler operation mode, setpoints, information about actuators and menu parameters on this screen.

The LCD screen has a sleeping function. After one minute of noninteraction with the user interface, the screen darkens. Pressing any button or rotating any dial awakens the display.

When you interact with the user interface, the LCD screen will show the home screen of the active operation mode and the related setpoint, depending on the system configuration (see "3.3.3 Possible operation modes" [ $\flat$  4]).

### Status icons

Meaning of icons that appear on the LCD screen:

lcon	Description	
OFF	Operation mode: Standby mode	
<i>∛</i> ¶	Domestic hot water operation enabled	
<b>(</b> )	Domestic hot water comfort mode is enabled	
<b>III</b> .	Central heating operation enabled	
Î	Room temperature	
0~	Outdoor sensor connection	
Central heating ECO mode enabled		
▲ Flame		
í	Info menu	
Ø	User settings menu	
JS.	Service settings menu	

# 3.2 Operating the unit

## 3.2.1 To switch the unit ON

- 1 Connect the unit to the main power supply.
- 2 Select an operation mode by pressing the "Mode" button shortly.

Usage of the unit is explained in following parts of this manual.

## 3.2.2 About the low water temperature function

The low water temperature function is a safety function that takes place at first central heating operation after each power supply interruption and at first central heating operation after each 90 days. When this function is active, boiler operates according to a defined set value for around 15 minutes and the ① icon blinks. After this function is ended, normal operation goes on.



## INFORMATION

Low water temperature function is a safety function and it cannot be disabled.

# 3.3 Basic usage

## 3.3.1 About the home screen

It is the screen that is displayed after activating the LCD screen with one of the buttons. You can use the home screen to read out settings that are meant for daily use. What you can see on the home screen depends on your system configuration.

The following home screens may be possible:

- Central heating set temperature
- · Virtual room temperature (with outdoor sensor)
- Domestic hot water set temperature
- System pressure (at standby mode)

## 3.3.2 To select the operation mode

The operation mode can be changed by pressing the "Mode" button.



b Summer modec Winter mode

d Central heating only mode

## 3.3.3 Possible operation modes



# **3 Operation**

Operation mode	Description
Standby mode 0FF	<ul> <li>Both central heating and domestic hot water operation modes are disabled.</li> </ul>
bar	<ul> <li>The protection functions such as frost protection are still active at standby mode.</li> </ul>
	• The home screen shows the system pressure, as well as the <b>0</b> F icon.
Summer mode	<ul> <li>Only domestic hot water operation mode is enabled. Central heating operation mode is disabled. The boiler will only produce heat for domestic hot water.</li> </ul>
	<ul> <li>The domestic hot water setpoint, and the <i>n</i> icon is shown on the home screen.</li> </ul>
	<ul> <li>The A is shown if domestic hot water operation is active.</li> </ul>
Winter mode	<ul> <li>Both domestic hot water operation mode and central heating operation mode are enabled. The boiler can produce domestic hot water, as well as produce heat for central heating.</li> </ul>
	<ul> <li>The central heating temperature setpoint (which setpoint is shown depends on the system configuration; see "3.3.5 Possible central heating operation modes" [▶ 6], and the II icon, as well as the II icon are shown on the home screen. When domestic hot water operation is active, domestic hot water setpoint is shown on the home screen.</li> </ul>
	<ul> <li>The <i>n</i> is shown and <i>n</i> icon is shown if domestic hot water operation is active.</li> </ul>
	<ul> <li>The is shown and icon is shown if central heating operation is active.</li> </ul>

## 3.3.4 Changing temperature setpoints

Temperature setpoints can be changed with the CH+, CH-, DHW+ and DHW- buttons.

# To change the central heating temperature setpoint

1 Push CH+ or CH- buttons while you are at the home screen. The setpoint screen will appear as shown below and the setpoint can be adjusted by pushing CH+ or CH- buttons. **Note:** The *t* icon means you are at the setpoint screen.



2 To apply changes done, wait for 3 seconds or press the "Enter" button. Pressing the "Cancel" button cancels the changes done.

## To change the domestic hot water setpoint

1 Push DHW+ or DHW- buttons while you are at the home screen. The setpoint screen will appear as shown below and the setpoint can be adjusted by pushing DHW+ or DHW-buttons. **Note:** The *t* icon means you are at the setpoint screen.



2 To apply changes done, wait for 3 seconds or press the "Enter" button. Pressing the "Cancel" button cancels the changes done.

## NOTICE

To be able to change the setpoint of central heating or domestic hot water, the corresponding operation mode must be enabled. If it is not, the related dial has no function.

## 3.3.5 Possible central heating operation modes

Mode	Description
Boiler only	The case that the system only contains the boiler. No outdoor sensor is connected. The central heating water temperature setpoint is displayed. The setpoint can be adjusted with CH+ or CH- buttons.
	The <b>III</b> icon is shown on the screen when the central heating operation mode is enabled.
Boiler + outdoor sensor (Weather compensation)	The case that outdoor sensor is connected to the boiler. In this case, the central heating water temperature is regulated according to the outdoor temperature. The virtual room temperature setpoint is diplayed. The virtual room temperature setpoint can be adjusted with CH+ or CH- buttons. Increasing or decreasing the setpoint value reflects to the central heating water temperature and the room temperature, respectively. The III and $\stackrel{\circ}{\sim}$ icons are shown on the
	screen when central heating operation mode is enabled.

NOTICE

To enable weather compensation, the heating slope value must be higher than "0" (see " User settings menu: Parameters (short)" [> 7]).

## 3.3.6 About the central heating ECO mode

The central heating ECO mode provides more economic central heating. Main purpose of the ECO mode is to operate the boiler at the condensing temperature range so to increase the efficiency. ECO mode can be activated at any central heating operation mode explained above.

## INFORMATION

ECO mode is only for central heating, it has no effect to domestic water heating.

When central heating ECO mode is enabled, *e* icon is shown on the screen while the central heating operation mode is enabled.

### NOTICE

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In case of bad or inappropriate central heating circuit design, which causes inadequate heat emission to the living space, activating the ECO mode may cause capacity shortage.

## 3.3.7 About the domestic hot water operation

This unit supplies domestic hot water by way of a plate heat exchanger.

Domestic hot water operation is activated when water is being tapped. Water flow rate must be at least 2.6 l/min.

The n icon is shown when domestic hot water operation is active.

### 

Domestic hot water operation mode must be enabled for the boiler to be able to produce domestic hot water. (i.e. summer mode or winter mode).

# 3.3.8 About the domestic hot water comfort mode

In this mode, water in the primary circuit is kept warm to be able to provide domestic hot water faster when there is demand.

Comfort mode can be enabled from the user settings menu (see "User settings menu: Parameters (short)" [• 7]).

When the domestic hot water comfort mode is enabled, the  $\ensuremath{\textcircled{}}$  icon is shown on the screen.

### 3.3.9 About the boiler frost protection

**Frost protection safety system:** This function protects the unit and heating installation from frost damages. This protection activates the boiler pump when the water temperature drops below 15°C and it activates the burner when the water temperature drops below 5°C (factory setting). The unit keeps running until the temperature reaches 15°C. To enable this function, the unit must be connected to the power supply and its main gas valve must be open. Any damage caused by frost is not covered by the warranty. Frost Protection is enabled in all modes, including standby mode and full-off mode.

While frost protection is active, actual flow temperature is displayed.

#### 

If the boiler is not connected to the power supply, frost protection is not active. Consequently, the water may freeze and cause cracks. The manufacturer is not responsible for any damage that may occur this way.

## **NOTICE**

When not using the boiler, we strongly recommend not to cut off the electric supply to the boiler.

# 3.4 Error handling

When an error occurs, the normal behaviour of the user interface is interrupted. However, be aware that not all errors have the same effect on the user interface and the status indicator.

Error type	Boiler operation	User interface and status indicator
Warning	Continue	The LCD screen stays active and displays the error code.
Blocking	Blocked, turns back to operation if cause disappears	The LCD screen stays active and displays the error code.
Lockout	Blocked and a reset is required	The LCD screen stays active and displays the error code. Also, the $\checkmark$ icon starts blinking, indicating that a reset is required.

In case of a warning or a blocking error, the user interface will leave error mode and return to the home screen when the cause of the error disappears.

In case of a lockout error, the boiler needs to be reset. Press the "Reset" button to remove the error, if the cause of the error is gone. If the cause of the error is still there, the user interface will enter error mode again. When the error is solved, the user interface returns to the home screen.

If you or press any button (except the "Reset" button) during an error, the user interface will display the home screen. After the timeout without any interaction, instead of darkening, the user interface will enter error mode.

### 

"Reset" button must be pressed for 3 seconds to remove the error.

### NOTICE

A table with all error codes, the reasons for their appearance, and possible solutions, is located at the very end of this manual.

# 3.5 Menu functions

## 3.5.1 To use menu level 1

- 1 Press the "Menu" button while you are at home screen to go the Menu screen. This is menu level 1 screen.
- **2** To switch between info, user settings and service settings, press CH+ and CH- buttons.
- 3 To leave the menu and return to the home screen, press "Back" button.

When there is no user interaction for one minute, the user interface will leave the menu and switch to the blank screen.



## 3.5.2 Info menu

## Info menu: Parameters

The info menu  $(\rm \textcircled{0})$  covers all possible information that is made available to the end user and to the installer. This parameters are read only and cannot be changed.

#	Description (short)	Unit
A0	Actual flow temperature	°C
A1	A1 Actual return temperature	
A2	Actual domestic hot water temperature	°C
A3	Actual flue temperature	°C
<b>A4</b> <sup>(a)</sup>	Actual outdoor temperature	°C
A5 <sup>(a)</sup>	Actual solar temperature	°C
A6 Actual water pressure		bar
A7 Actual domestic hot water flow rate		l/min
A8 Actual fan speed (rpm/100)		rpm
A9	Current setpoint of boiler pump	%
B0	Software version	0
B1	μ com ID low digit	-
B2 μ com ID high digit		-
B3	Ionisation current	μA

(a) Not applicable if the sensor is not connected.

## To use the info menu

- 1 Press the "Enter" button when the ① icon is displayed on the menu level 1 screen.
- 2 Select the index number with DHW+ and DHW- buttons. Press the "Back" button to return to menu level 1 screen.



## 3.5.3 User settings menu

## User settings menu: Parameters (short)

The user settings menu (\*) comprises parameters that can be changed and adjusted by users. You can read out and adjust the parameters according to your preferences.

## NOTICE

If you are not sure about the function of the parameter, do not change it. Contact your service agent.

#	Description	Unit	Default	Range
U0	Summer-winter switch over temperature	°C	20	10~30
U1	Heating slope	—	0	0~40
U2	Central heating ECO mode	_	0	0~1
U3	Domestic hot water comfort mode	—	0	0~1

### User settings menu: Parameters (detailed)

#	Description
UO	When using outdoor sensor, above this parameter value of outside temperature, the boiler senses the season as summer and does not activate central heating although there is demand. Summer-winter switching has a hysteresis of ±1°C.
	i.e: When this parameter is adjusted to 20°C, the boiler switches to summer mode at 21°C and switches back to winter mode at 19°C.
U1	This value is used when outside sensor is connected to the boiler. The parameter heating slope is important to adapt the weather compensation to the individual heating system, the building and the thermal insulation. The heating slope can be adjusted from 0 to 40. The heating slope needs to be increased to increase the boiler central heating set temperature. Colder regions require a higher heating slope value.
	<b>Note:</b> To activate weather compensation, the heating slope value must be higher than "0".
U2	Enabling / disabling central heating ECO mode.
	1 = enabled, 0 = disabled

## 4 Maintenance and cleaning

#	Description
U3	Enabling / disabling domestic hot water comfort mode.
	1 = enabled, 0 = disabled

### To use the user settings menu

1 Press the "Enter" button when the @ icon is displayed on the menu level 1 screen.

Result: You can see the parameter on menu level 2.

- Select the index with DHW+ and DHW- buttons. 2
- 3 Press the "Enter" button when the parameter that you want to change is displayed.

Result: You can see the menu level 3 screen. Up and down arrows will appear.

- Change the parameter with DHW+ and DHW- buttons. 4
- Press the "Enter" button to confirm or the "Cancel" button to 5 cancel. You will return to menu level 2 after pressing "Enter" or "Back"



### 3.5.4 Installer settings menu

Only qualified persons are allowed to enter the installer settings menu.

### Maintenance and cleaning 4

## WARNING

The boiler should be maintained by authorised persons everv vear.

Annual maintenance cycle is very important for safe operation of your boiler and to ensure reliable, efficient and long lasting operation of it.

Contact your service agent for details.

### DANGER

Incorrect maintenance and repairs can lead to injury and material damage.

- · Never attempt to perform maintenance work or repairs on the unit yourself.
- Contact your service agent.

### To clean the outer surface of the 4.1 unit

Clean the outer surface of your boiler with a damp cloth and a little solvent-free soap.



CAUTION

Sprays, solvents or cleaning agents containing chlorine can damage the exterior, the fittings or the control unit. Do not use them for cleaning purposes.

### 5 Energy saving tips

- · Operating the unit in central heating ECO mode provides the most economical central heating operation conditions.
- . Do not run the boiler in domestic hot water comfort mode. Domestic hot water comfort mode involves pre- and post-heating, which is luxury, not necessity.
- · Close the thermostatic radiator valves when ventilating the rooms.
- The largest heat loss occurs through windows and outer doors. Check windows and doors for air-tightness. Close any blinds at niaht
- · Do not hide radiators behind large furniture (i.e. couch, desk, etc.). Minimum 50 cm of clearance must remain, otherwise the heated air cannot be circulated and the room will not heat up efficiently.
- · Do not let your room become too hot. Decreasing the room temperature during the day saves energy.
- Have your combi boiler's maintenance performed at least annually.
- Provide your building with sufficient heat insulation.
- Thermostatic valves should be used. Each room should be adjusted according to comfort conditions. For reception rooms, this is 20°C, living rooms 22°C, kitchens 18°C and bedrooms 18°C.
- Prevent radiators from getting covered by curtains.

### Contact 6

Contact a local competent service agent if you have any questions regarding the maintenance and repair of your system. You can find the contact information of our competent services at www.daikin.com

### 7 Error codes

#	Problem	Solution
10-64	Gas valve circuit error	Perform reset. If problem repeats, contact your service agent.
11-64	Ignition does not take place	Make sure valve on the gas line is opened. Perform reset after third unsuccessful ignition trial.
11-67	Flame loss during operation	Temporary error. Wait for boiler to re-ignite.
13-64	Fan speed error	Perform reset if needed. If problem repeats, contact your service agent.
13-65	Fan speed error	Perform reset. If problem repeats, contact your service agent.
16-64	Flue temperature signalise overheating	Check flue gas discharge path. Perform reset if needed. If problem repeats, contact your service agent.

# 7 Error codes

#	Problem	Solution
1J-64	High limit thermostat signalise overheating	<ul> <li>Check the valves of the radiators in the heating circuit.</li> </ul>
		<ul> <li>Check the combi boiler water pressure. If it is low, fill the heating circuit with water.</li> </ul>
		Perform reset. If problem repeats, contact your service agent.
80-01	Return temperature sensor fault	Perform reset. If problem repeats, contact your service agent.
81-01	Flow temperature sensor fault	Perform reset. If problem repeats, contact your service agent.
81-65	Domestic hot water solar temperature sensor fault	Boiler continues operation but solar sensor is defective. Contact your service agent.
8A-46	Freeze protection	Unit does not operate if flow temperature sensor reads value less than 1°C. Wait until the error code is removed from the screen.
8H-64	Flow temperature steep rise	Make sure radiator valves are open enough to circulate water. Your boiler will operate again after a while. If problem repeats, contact your service agent.
8H-65	Flow-return temperature difference too much	Make sure radiator valves are open enough to circulate water. If problem repeats, contact your service agent.
E1-64	Flame detection before burner operation	Perform reset. If problem repeats, contact your service agent.
E1-69	Parameter CRC error	Perform reset. If problem repeats, contact your service agent.
E1-71	EK lockout failure	Permanent error. Contact your service agent.
E1-73	Internal PCB error	Perform reset if needed. If problem repeats, contact your service agent.
H9-01	Outside sensor fault	Boiler continues operation but outside sensor is defective. Contact your service agent.
HC-01	Domestic hot water temperature sensor fault	Boiler continues operation but you must contact your service agent.
HJ-08	High system pressure	Discharge water down to 0.8 bar. (You can bleed the radiators.)
HJ-09	Low system pressure	Increase the system pressure to 0.8 bar
HJ-10	Water pressure sensor fault	Contact your service agent.
J6-01	Flow temperature sensor overheating	<ul> <li>Check the valves of the radiators in the heating circuit.</li> </ul>
	(Can be a blocking error or a lockout error)	<ul> <li>Check the combi boiler water pressure. If it is low, fill the heating circuit with water.</li> <li>Perform reset if needed. If problem</li> </ul>
		repeats, contact your service agent.
J6-21	Return temperature is higher than flow temperature	No reset needed, burner operates itself after a small amount of time. If problem repeats, contact your service agent.
JJ-64	Flue temperature sensor fault	Perform reset. If problem repeats, contact your service agent.

#	Problem	Solution
U4-67	Remote reset supervision	Switch off - switch on power mains. If problem repeats, contact your service agent



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3P469438-12N 2020.07