

# INNOVENS MC 35E / MC 45 / MC 65 / MC 90

Wall-hung gas condensation boilers

English  
21/03/05



Instructions for  
use

CE



300005222-001-A







De Dietrich 

[www.dedietrich.com](http://www.dedietrich.com)

## Thanks


Congratulations on choosing a DE DIETRICH product, a product of quality. We strongly recommend that you read the following instructions in order to guarantee the optimal operation of your appliance. We are sure that you will not be disappointed and that it will satisfy all of your expectations.

### Important recommendations

-  To ensure the proper functioning of the appliance, follow the instructions in this manual very carefully.
-  Any intervention on the appliance and heating equipment must be carried out by a qualified technician.
-  The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified fitter).
-  Check that the equipment is properly set for the type of gas used.
-  Keep to the polarity shown on the terminals : phase (L), neutral (N) and earth  $\perp$ .
-  Check the seal on the gas and water pipe connections.

#### 1 Aeration

France: the cross section of the aeration vent, which is compulsory in the premises in which the boiler is installed, must comply with the DTU 61.1 (P 45 204) standard and, in particular, with the instruction on general improvement work (Book 1764 April 1982).

-  The air inlet into the premises must in no event be obstructed, even partially.

#### 2 Precautions against frost

In the event of total shutdown of the heating in winter which may lead to the danger of freezing (switching off of radiators and current), we recommend using a correctly dosed anti-freeze product to stop the heating water freezing.

#### 3 Maintenance procedure

The servicing and cleaning of the boiler and the sweeping of the flue gas pipe and the bleed pot must be done at least once a year by a qualified professional.

# Introduction

## 1 Boiler

- For operation on Natural Gas or Propane.
- The boiler is preset in the factory to operate on natural gas G20, Wobbe Ws index = 15,0 kWh/m<sup>3</sup>, 20 mbar
- It is designed to operate dependent on or independently of the ambient air
- DIEMATIC 3 control panel factory fitted with a top of the range control unit which operates on the outside temperature with room temperature correction thanks to the CDI 2 remote control or the optional simplified control
- Control panel used to control and programme a direct circuit and two circuits with mixing valve
- Monoblock heat exchanger in cast aluminium/silicium
- Cylindrical premix burner covered in metal fibres
- Centrifugal fan with combustive air intake silencer for a low noise level
- Compact gas line with zero pressure regulator, two valves and filter
- Circulator (Only MC 35E)
- Water condensation siphon with run-off pipe
- Automatic bleed valve
- Mechanical manometer
- Flue gas temperature sensor with safety function
- Soundproofed boiler body
- Console for wall mounting, attachment materials and technical information included in the delivery

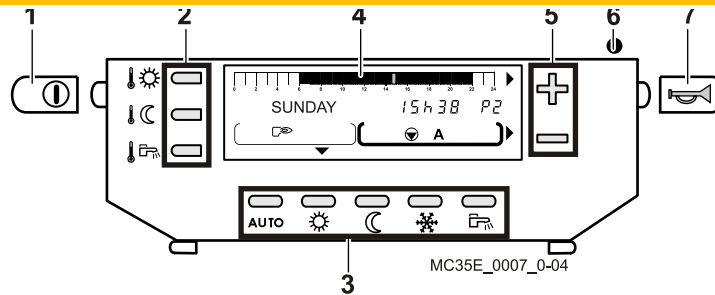
## 2 Control panel



The connection of the control panel must be carried out by a qualified professional

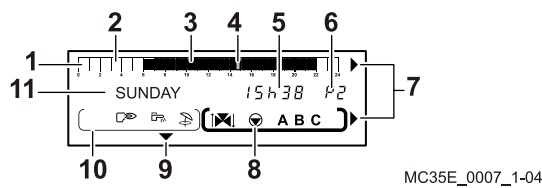
- Power supply : 230 V (±10%) - 50 Hz
- Total clock endurance: 2 years minimum

## Control and display equipment



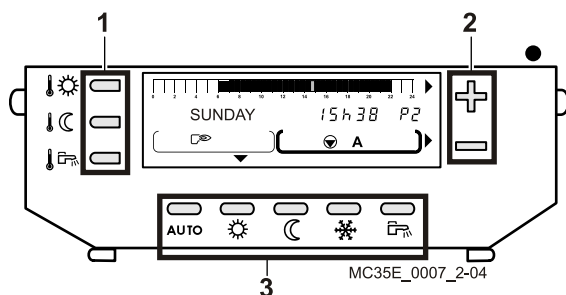
- 1 Main ON/OFF switch
- 2 Settings and programme keys
- 3 Operating mode selection keys
- 4 Programme display graphic bar (0 to 24 h)
- 5 Setting keys + and -
- 6 Alarm indicator / Start  
The light is green when the boiler is operating  
The red resetting button lights up when the burner is in the safety condition  
The flashing red light signals a sensor error
- 7 Reset button

### Display



- 1 Graphic display bar for the program in circuit A, B or C (in area 8)
- 2 Light area: indicates a "reduced" heating period or a "calorifier heating not allowed" period
- 3 Dark area: indicates "comfort" heating period or a "calorifier heating allowed" period
- 4 Flashing cursor showing the current time
- 5 Number display (current time, adjusted values, parameters, etc.)
- 6 Active program display, P1, P2, P3, P4 or Su : automatic "Summer" cut-off
- 7 The arrows flash when setting values can be modified using the + and - keys
- 8 Circuit operation symbols  
 ↑⌘↓ : Status of the 3-way valve for the displayed circuit (If the option is connected)  
 - ↑⌘↓ : 3-way valve opens  
 - ↓⌘↓ : 3-way valve closes  
 ⌚ : Circulator pump on  
 A, B or C : circuit for which the parameters are displayed
- 9 mark displayed above the active mode key
- 10 Symbols indicating that the following inputs/outputs are active  
 ⌚ : Burner on  
 ⌚ : DHW load pump on  
 ⌚ : Forced "summer" condition
- 11 Text display

## Keys accessible when the flap is closed



### 1 Temperature setting keys

- : Daytime operating temperature (comfort)
- : Reduced operating temperature
- : Domestic hot water temperature

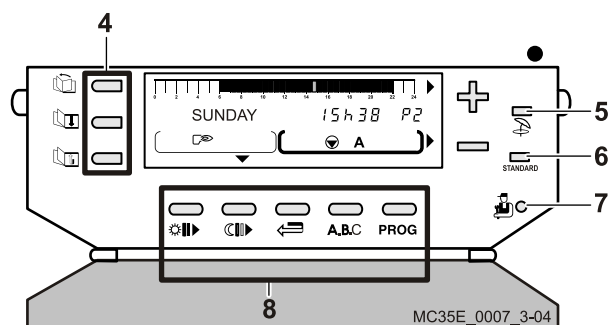
**i** When one of these keys is pressed, the active time programme corresponding to the circuit is displayed in the graphic bar.

### 2 Setting keys + and -

### 3 Operating mode selection keys

- AUTO** : automatic
- The following keys are used to override the **AUTO** mode
- : forced operation at comfort temperature until midnight
- : forced operation at reduced temperature until midnight
- : Antifreeze mode
- : Tank filling enabled mode

## Keys accessible when the flap is open



### 4 Key for access to setting and measurements

- : Page scrolling
- : Line scrolling
- : Return to the previous line

### 5 : Manual "Summer" shutdown key

- + Su: The heating is shut down but the domestic hot water function continues.

**i** This function is independent of the "automatic heating shutdown" function in summer when the outside temperature exceeds the outside heating shutdown temperature (in this case, only the symbol Su appears in the display)

- 6 **STANDARD** : "Standard" program key. Pressing the STANDARD key for 5 seconds activates P1 for circuits A, B and C and is used to replace all customised programs with their factory settings
  - P1 : Monday to Sunday : 6hours - 22hours
  - P2 : Monday to Sunday : 4hours - 21hours
  - P3 : Monday to Friday : 5hours - 8hours, 16hours - 22hours
  - Saturday and Sunday : 7hours - 23hours
  - P4 : Monday to Sunday : 6hours - 8hours, 11hours - 13hours30, 16hours - 22hours; Saturday : 6hours - 23hours; Sunday : 7hours - 23hours
  - Hot water program : 5hours - 22hours (Reheating enabled)
  - Program AUXIL. : 6hours - 22hours

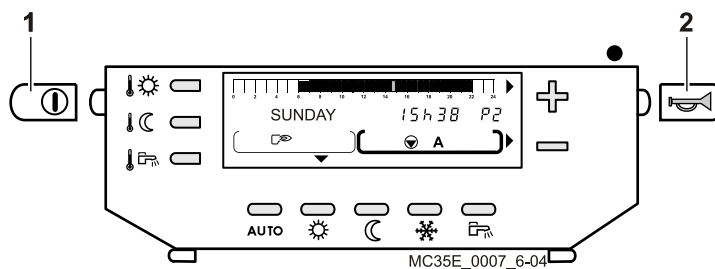
### 7 : Fitter settings access key

### 8 Programming keys

- : "Comfort" mode (in half-hours) program key or enable tank filling (dark area)
- : "Low" mode (in half-hours) program key or disable tank filling (light area)
- : Return to graph program bar

A.B.C Selection key for the displayed circuit A, B or C  
**PROG** Displayed heating program selection key P1, P2, P3 or P4. The regulator has 4 original heating programmes P1, P2, P3 and P4 preset in the factory. See Table of programmes. Programs P2, P3 and P4 may be customised. See Customised programmes.

## Commissioning



**⚠ The first start-up is to be performed by your installation engineer**

- ▶ Open the outlet and return valves
- ▶ Throw the main switch
- ▶ Open the gas valve
- ▶ Control switch 1 : Position ①. The boiler launches the start-up programme. The rest of the operation is automatic. The current operating status is shown on the display.
- ▶ Check the pressure of the installation. Add water to the installation if necessary.

The boiler is bled automatically.

After a prolonged shutdown, up to 5 start-up attempts may be made.

If the boiler does not start, the burner control module goes into error mode and a message is displayed.

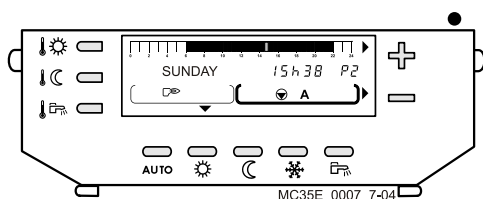
- ▶ Press the resetting button of the burner 2.

If the boiler does not start after several resets (5 attempts possible), contact your heating engineer and inform him of the error message displayed.

The boiler operates according to the settings programmed in the factory.

### Automatic mode

- Flap closed



- Daytime temperature setting
  - ▶ Press key
  - ▶ Enter the desired temperature (5-30°C) using the + and - keys and save using the **AUTO** key.
- Reduced temperature setting
  - ▶ Press key

- ▶ Enter the desired temperature (5-30°C) using the + and - keys and save using the **AUTO** key.

If the installation includes a B or C circuit: press the and keys

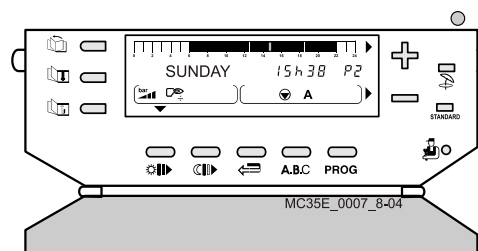
1x = input for circuit A

2x = input for circuit B

3x = input for circuit C

- Setting the domestic water temperature
  - ▶ Press key
  - ▶ Enter the desired temperature (10-80°C) using the + and - keys and save using the **AUTO** key.

- Flap open



- Selection of the heating programme
  - ▶ Lift the flap
  - ▶ Set the desired heating programme P1-P4 using the **PROG** key

### Standard factory programming

Program	Daytime operation
P1	Monday-Sunday 6-22 hours
P2*	Monday-Sunday 4-21 hours
P3*	Monday-Friday 5-8 hours; 16-22 hours Saturday-Sunday 7-23 hours
P4*	Monday-Friday 6-8 hours; 11-13 hours 30, 16-22 hours Saturday 6-23 hours Sunday 7-23 hours

\*The heating programmes programmed in the factory can be set individually.


- ▶ Close the flap

- Activation of the automatic mode
  - ▶ Press key **AUTO** : The operating mode is displayed above key = Automatic operation of the heating programme set.


### Forced operating modes

- **Temporary comfort setting**

Daytime setting for up to 24 hours

- ▶ Press key . The operating mode is displayed above key.

Permanent comfort setting


- ▶ Press key  for 5 sec.. The operating mode is displayed above key.

Return to the automatic setting


- ▶ Press key **AUTO**.

- **Temporary reduced setting**

Reduced operation for up to 24 hours

- ▶ Press key . The operating mode is displayed above key

Permanent reduced setting


- ▶ Press key  for 1 sec.. The operating mode is displayed above key.

Return to the automatic setting


- ▶ Press key **AUTO**.

- **Forced heating domestic hot water**

Heating domestic hot water for up to 24 hours

- ▶ Press key . The operating mode is displayed above key.

Permanent heating domestic hot water

- ▶ Press key  for 5 sec.. The operating mode is displayed above key.



Return to the automatic domestic hot water programme

- ▶ Press key .

- **Manual summer mode**

Activation manual summer setting

- ▶ Lift the flap

- ▶ Press key  for 5 sec.. The operating mode is displayed by  and **Su**. The heating mode is deactivated while the heating of domestic hot water continues to operate.

- ▶ Close the flap

Switch off manual summer setting


- ▶ Lift the flap

- ▶ Press key  for 5 sec..

- ▶ Close the flap

- **Frost free**

Immediate anti-freeze setting for 1 day


- ▶ Press key . The operating mode is displayed above key.

In the display area\_: ANTI-FREEZE DAYS 0

- ▶ Enter the number of days (1-99) using the + and - keys

- ▶ Press key **AUTO**. The operating mode is displayed above key.

Anti-freeze Off/On


- ▶ Press key 

In the display area\_: ANTI-FREEZE DAYS X

- ▶ Enter the number of days (0-0) using the + and - keys

- ▶ Press key **AUTO**

Immediate permanent anti-freeze setting

- ▶ Press key  for 5 sec.. The operating mode is displayed above key.

Switch off permanent anti-freeze setting



- ▶ Press key **AUTO**

## Troubleshooting

Checks to make before calling your fitter :

- The burner will not start

This may be caused by :

- ▶ Shutdown by the safety thermostat due to accidental overheating. To restart the boiler : Press the resetting button of the burner . Call your fitter nonetheless.
- ▶ Shutdown of the safety system in connection with flue gas evacuation. To restart the boiler : Press the resetting button of the burner . If interruptions of this kind happen repeatedly, contact your fitter. It is possible that the combustion products evacuation pipe is totally or partially obstructed.
- The burner is operating but the radiators are cold
  - ▶ Bleed the radiators
  - ▶ Top up the primary circuit with water
  - ▶ Check that the heating pump is operating correctly

Call your fitter nonetheless

- When you inform your fitter of an error, tell him :
  - ▶ Product type,
  - ▶ Serial number : This information can be found on the rating plate stuck to the inside of the control panel flap,
  - ▶ Type of gas used (Natural gas or Propane)



## Warranty

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You have just purchased a DE DIETRICH appliance and we thank you for the trust you have placed in our products. Please note that your appliance will provide good service for a longer period of time if it is regularly checked and maintained. Your fitter and the DE DIETRICH customer support network are at your disposal at all times.

### Warranty terms

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Starting from the purchase date shown on the original fitter's invoice, your appliance has a contractual guarantee against any manufacturing defect.

The length of the guarantee is mentioned in the price catalogue.

The manufacturer is not liable for any improper use of the appliance or failure to maintain or install the unit correctly (the user shall take care to ensure that the system is installed by a qualified fitter).

In particular, the manufacturer shall not be held responsible for any damage, loss or injury caused by installations which do not comply with the following:

- applicable local laws and regulations
- specific requirements relating to the installation, such as national and/or local regulations
- the manufacturer's instructions, in particular those relating to the regular maintenance of the unit
- the rules of the profession

The warranty is limited to the exchange or repair of such parts as have been recognised to be faulty by our technical department and does not cover labour, travel and carriage costs.

The warranty shall not apply to the replacement or repair of parts damaged by normal wear and tear, negligence, repairs by unqualified parties, faulty or insufficient monitoring and maintenance, faulty power supply or the use of unsuitable fuel.

Sub-assemblies such as motors, pumps, electric valves etc. are guaranteed only if they have never been dismantled.

### France

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The preceding dispositions are not exclusive of benefits for the purchaser of the legal guarantee as stated in Civil Code articles 1641 to 1648.

### Belgium

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The preceding dispositions about the contractual guarantee are not exclusive of profit if the need arises for the purchaser in Belgium of the applicable legal dispositions on hidden defects.

### Other countries

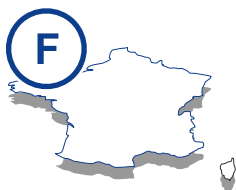
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The above provisions do not restrict the benefit of the legal laws regarding hidden defects applicable in the buyer's country.





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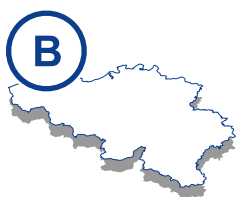
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