



User Guide

Floor-standing condensing gas boiler

IX 145-50 IX 145-70 IX 145-90 IX 145-110



Dear Customer,

Thank you very much for buying this appliance.

Please read through the manual carefully before using the product, and keep it in a safe place for later reference. In order to ensure continued safe and efficient operation we recommend that the product is serviced regularly. Our service and customer service organisation can assist with this.

We hope you enjoy years of problem-free operation with the product.

Contents

1				
	1.1		safety instructions	
	1.2		nendations	
	1.3		S	
		1.3.1	User's liability	
		1.3.2	Installer's liability	
		1.3.3	Manufacturer's liability	. 9
2	About	t thic man	ual	10
_	2.1			
	2.2		used	
		2.2.1	Symbols used in the manual	
		2.2.2	Symbols used on the appliance	
3	Techr		ifications	
	3.1	_	gations	
		3.1.1	Ecodesign Directive	
		3.1.2	Certifications	
	3.2		al data	
		3.2.1	Other technical parameters	12
4	Door	rintion of f	the product	1.4
4	Descr 4.1		description	
	4.2		ler components	
	4.3		panel description	
	1.0	4.3.1	Description of the keys	
		4.3.2	Description of the symbols	
5	Opera	ation		.17
	5.1	Use of th	ne control panel	17
		5.1.1	Modifying the user parameters	
	5.2		up the boiler	
	5.3	Stopping	the boiler	
		5.3.1	Putting the boiler in Standby mode	
	5.4		otection	
		5.4.1	Activating the Off	17
6	Soffin			10
O			arameters	
	0.1	6.1.1	Shortcuts menu	
			Information menu	
		6.1.3	List of user parameters	
	6.2		he parameters	
	0.2	6.2.1	Setting the date and time	
		6.2.2	Selecting the language	
		6.2.3	Setting a temporary heating flow temperature	
		6.2.4	Changing the operating mode	
		6.2.5	Forcing domestic hot water production	
		6.2.6	Setting the room temperature set point (On mode)	
		6.2.7	Modifying the domestic hot water production mode	24
		6.2.8	Setting the domestic hot water temperature set point	
		6.2.9	Setting the room temperature set point (Reduced mode)	25
		6.2.10	Programming a Holiday period	
	0.6	6.2.11	Selecting a heating circuit	
	6.3	Accessir	ng the information menu	26
7	Maint	enance		27
•	7.1			
		23113141		
8	Troub	leshootin	g	.28
	8.1	Error cod	des	
		8.1.1	List of error codes	28
	8.2		ic error code clearing	
	8.3	Clearing	error codes	.28

Contents

9	Environmental	29
	9.1 Energy savings	29
	9.2 Room thermostat and settings	29
10	Disposal	30
	10.1 Disposal and recycling	30
11	Warranty	31
	11.1 General	31
	11.2 Terms of warranty	31
12	Appendix	32
	12.1 Product fiche - Boiler space heaters	32
	12.2 Product fiche - Temperature Controls	32
	12.3 Package fiche	33

1 Safety

1.1 General safety instructions

For the installer and end user:



Danger

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 touch the flue gas pipes. Depending on the boiler settings, the temperature of the flue gas pipes can rise to over 60°C.



Caution

Do not touch radiators for long periods. Depending on the boiler settings, the temperature of the radiators may exceed 60°C.



Caution

Take precautions with the domestic hot water. Depending on the boiler settings, the domestic hot water temperature may exceed 65°C.



Danger of electric shock

Before any work, switch off the mains supply to the boiler.

For the installer:

Danger

If you smell gas:

- 1. Do not use a naked flame, do not smoke, do not operate electrical contacts or switches (doorbell, light, motor, lift, etc.).
- 2. Shut off the gas supply.
- 3. Open the windows.
- 4. Locate the probable leak and seal it immediately.
- 5. If the leak is before the gas meter, contact the gas supplier.



Danger

If you smell flue gases:

- 1. Switch off the appliance.
- 2. Open the windows.
- 3. Locate the probable source of the flue gas leak and fix it immediately.



Warning

The condensation drain must not be changed or sealed. If a condensate neutralisation system is used, the system must be cleaned regularly in accordance with the instructions provided by the manufacturer.

For the end user:



Danger

If you smell gas:

- 1. Do not use a naked flame, do not smoke, do not operate electrical contacts or switches (doorbell, light, motor, lift, etc.).
- 2. Shut off the gas supply.
- 3. Open the windows.
- 4. Evacuate the property.
- 5. Contact a qualified professional.



Danger

If you smell flue gases:

- 1. Switch off the appliance.
- 2. Open the windows.
- 3. Evacuate the property.
- 4. Contact a qualified professional.

1.2 Recommendations

i Important

Keep this document close to the place where the appliance is installed.

i Important

- Never remove or cover labels and data plates affixed to the boiler.
- Labels and data plates must be legible throughout the entire lifetime of the boiler.
 Immediately replace damaged or illegible instructions and warning labels.



Caution

To enjoy warranty cover, no modifications must be made to the boiler.



Caution

The appliance should be switched to Summer or Frost Protection mode rather than be switched off in order to guarantee the following functions:

- · Avoidance of pumps blocking
- Frost Protection



Caution

The frost protection function only protects the boiler, not the heating system.



Caution

The frost protection function does not work if the boiler is powered off.



Caution

Have the boiler and heating system drained by a qualified professional if the home is left empty for a long period of time and there is a chance of frost.



Caution

Remove the boiler casing only to perform maintenance and repair work. Always put the casing back in place after such work.



Important

Only qualified professionals are permitted to install the boiler, in accordance with prevailing local and national regulations.

i

Important

Respect the minimum and maximum water inlet pressure to ensure correct operation of the boiler: refer to the chapter Technical Specifications.

Λ

Caution

Power the appliance via a circuit that includes an omni-polar switch with contact opening distance of 3 mm or more.

Λ

Caution

- The boiler must always be connected to the protective earthing.
- Earthing must comply with the prevailing installation standards.
- Earth the appliance before making any electrical connections.

For the type and calibre of the protective equipment, refer to the chapter Electrical Connections in the Installation and Service Manual.



Caution

If a power cord comes with the appliance and it turns out to be damaged, it must be replaced by the manufacturer, its after sales service or persons with similar qualifications in order to obviate any danger.



Caution

A disconnection device must be fitted to the permanent pipes in accordance with the installation rules.



Danger

For safety reasons, we recommend fitting smoke and CO_2 detectors and alarms at suitable places in your home.

1.3 Liabilities

1.3.1 User's liability

To guarantee optimum operation of the system, you must abide by the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.
- Call on a qualified professional to carry out installation and initial commissioning.

- Get your installer to explain your installation to you.
- Have the required inspections and maintenance carried out by a qualified installer.
- Keep the instruction manuals in good condition close to the appliance.

1.3.2 Installer's liability

The installer is responsible for the installation and initial commissioning of the appliance. The installer must observe the following instructions:

- Read and follow the instructions given in the manuals provided with the appliance.
- Install the appliance in compliance with prevailing legislation and standards.
- Carry out initial commissioning and any checks necessary.
- Explain the installation to the user.
- If maintenance is necessary, warn the user of the obligation to check the appliance and keep it in good working order.
- · Give all the instruction manuals to the user.

1.3.3 Manufacturer's liability

Our products are manufactured in compliance with the requirements of the various Directives applicable. They are therefore delivered with the CE marking and any documents necessary. In the interests of the quality of our products, we strive constantly to improve them. We therefore reserve the right to modify the specifications given in this document.

Our liability as manufacturer may not be invoked in the following cases:

- Failure to abide by the instructions on installing and maintaining the appliance.
- Failure to abide by the instructions on using the appliance.
- Faulty or insufficient maintenance of the appliance.

2 About this manual

2.1 General

This manual is intended for the end user of a IX boiler.

2.2 Symbols used

2.2.1 Symbols used in the manual

This manual uses various danger levels to draw attention to special instructions. We do this to improve user safety, to prevent problems and to guarantee correct operation of the appliance.



Danger

Risk of dangerous situations that may result in serious personal injury.



Danger of electric shock

Risk of electric shock.



Warning

Risk of dangerous situations that may result in minor personal injury.



Caution

Risk of material damage.



Important

Please note: important information.



See

Reference to other manuals or pages in this manual.

2.2.2 Symbols used on the appliance

Fig.1











5



- Alternating current.
- 2 Protective earthing.
- **3** Before installing and commissioning the appliance, carefully read the instruction manuals provided.
- **4** Dispose of used products through an appropriate recovery and recycling structure.
- **5** Caution: danger of electric shock, live parts. Disconnect the mains power prior to carrying out any work.

3 Technical specifications

3.1 Homologations

3.1.1 Ecodesign Directive

This product conforms to the requirements of European Directive 2009/125/EC on the ecodesign of energy-related products.

3.1.2 Certifications

We hereby certify that the series of appliances specified below complies with the standard model described in the CE declaration of conformity.

CE number	CE-0085CP0089
NOx class	Class 6
Type of flue gas connection	• B ₂₃ – B _{23P}
	• C _{13(X)}
	• C _{33(X)}
	• C _{43(X)}
	• C _{53(X)}
	• C _{63(X)}
	• C _{83(X)}

3.2 Technical data

Tab.1 General

	Boiler speed	Unit	IX 145–50	IX 145–70	IX 145–90	IX 145–110	
Useful heat output at 80/60°C Heating mode	Minimum	kW	5.0	7.2	9.4	11.4	
Useful heat output at 80/60°C Heating mode	Maximum	kW	45	65	85	102	
Useful heat output at 50/30 °C Heating mode	Minimum	kW	5.4	7.8	10.2	12.3	
Useful heat output at 50/30 °C Heating mode	Maximum	kW	48.6	70.2	91.8	110.2	
Heat input - Heating mode	Minimum	kW	5.1	7.4	9.7(1)	11.7	
Heat input - Heating mode	Maximum	kW	46.3	66.9	87.4	104.9	
Heat input - Heating mode	Minimum	kW	5.6	8.2	10.7	12.9	
Heat input - Heating mode	Maximum	kW	51.4	74.2	97.0	116.4	
Efficiency at 80/60 °C - Heating mode under full load	Maximum	%	97.4	97.2	97.3	97.2	
Efficiency at 50/30 °C -	Heating mode un- der full load	%	105.0	105.0	105.5	105.1	
Efficiency Return temperature 30°C	Heating mode un- der part load	%	108.4	108.1	108.2	108.1	
(1) The heat input with G31 gas is different and is 12.5 kW							

Tab.2 Characteristics of the heating circuit

	Unit	IX 145–50	IX 145–70	IX 145–90	IX 145–110
Water content (excluding expansion vessel)	litre	2.81	4.98	8.34	9.83
Minimum operating pressure	MPa (bar)	0.05 (0.5)	0.05 (0.5)	0.05 (0.5)	0.05 (0.5)

	Unit	IX 145–50	IX 145–70	IX 145–90	IX 145–110
Maximum operating pressure (MOP)	MPa (bar)	0.38 (3.8)	0.38 (3.8)	0.38 (3.8)	0.38 (3.8)
Maximum water temperature	°C	85	85	85	85
Maximum operating temperature	°C	80	80	80	80

Tab.3 Data on the gases and combustion gases

For gas flow rates at 15°C and 1013.25 hPA	Boiler speed	Unit	IX 145–50	IX 145–70	IX 145–90	IX 145–110
Minimum gas pressure (G20)		mbar	17	17	17	17
Nominal pressure (G20)		mbar	20	20	20	20
Maximum pressure (G20)		mbar	25	25	25	25
Minimum gas pressure (G25)		mbar	20	20	20	20
Nominal pressure (G25)		mbar	25	25	25	25
Maximum pressure (G25)		mbar	30	30	30	30
Minimum gas pressure (G31)		mbar	25	25	25	25
Nominal pressure (G31)		mbar	37	37	37	37
Maximum pressure (G31)		mbar	57.5	57.5	57.5	57.5
Consumption of natural gas (G20)	Minimum	m³/h	0.54	0.78	1.03	1.24
Consumption of natural gas (G20)	Maximum	m³/h	4.90	7.07	9.25	11.10
Consumption of natural gas (G25)	Minimum	m³/h	0.63	0.91	1.19	1.44
Consumption of natural gas (G25)	Maximum	m³/h	5.69	8.22	10.75	12.91
Consumption of Propane (G31)	Minimum	kg/h	0.40	0.57	0.97	0.91
Consumption of Propane (G31)	Maximum	kg/h	3.59	5.19	6.79	8.15
NOx emission according to EN297A3	Class 5	mg/kWh	29.8	34.8	39.5	24.7
Flue gas mass flow rate (G20)	Minimum	kg/h	7.2	14.4	18	18
Flue gas mass flow rate (G20)	Maximum	kg/h	75.6	111.6	144	169.2
Maximum flue gas temperature	Minimum	°C	92	76	70	70

Tab.4 Electrical specifications

	Unit	IX 145–50	IX 145–70	IX 145–90	IX 145–110
Maximum absorbed power - Full load	W	100	117	146	185
Maximum absorbed power - Part load	W	24	24	24	24
Maximum absorbed power - Stand-by	W	2.7	3	3	3

Tab.5 Other specifications

	Unit	IX 145–50	IX 145–70	IX 145–90	IX 145–110
Ingress protection rating		IPX1B	IPX1B	IPX1B	IPX1B
Weight empty	kg	60	70	104	109

3.2.1 Other technical parameters

Tab.6 Technical parameters for boiler space heaters

Product name			IX 145–50	IX 145–70	IX 145–90	IX 145–110
Condensing boiler			Yes	Yes	Yes	Yes
Low-temperature boiler ⁽¹⁾			No	No	No	No
B1 boiler			No	No	No	No
Cogeneration space heater			No	No	No	No
Combination heater			Yes	Yes	Yes	Yes
Rated heat output	Prated	kW	45	65	85	102
Useful heat output at rated heat output and high temperature regime ⁽²⁾	P_4	kW	45.0	65.0	85.0	102.0

Product name			IX 145–50	IX 145–70	IX 145–90	IX 145–110
Useful heat output at 30% of rated heat output and low temperature regime ⁽¹⁾	P_1	kW	15.0	21.7	28.3	34.0
Seasonal space heating energy efficiency	η_s	%	93	93	-	-
Useful efficiency at rated heat output and high temperature regime ⁽²⁾	η_4	%	87.7	87.6	87.7	87.6
Useful efficiency at 30% of rated heat output and low temperature regime ⁽¹⁾	η_1	%	97.7	97.4	97.5	97.4
Auxiliary electricity consumption						
Full load	elmax	kW	0.100	0.117	0.146	0.185
Part load	elmin	kW	0.023	0.024	0.024	0.024
Stand-by	P_{SB}	kW	0.003	0.003	0.003	0.003
Other specifications						
Standby heat loss	P _{stby}	kW	0.045	0.046	0.062	0.072
Ignition burner power consumption	P _{ign}	kW	-	-	-	-
Annual energy consumption	Q _{HE}	GJ	139	201	-	-
Sound power level, indoors	LWA	dB	61	64	-	-
Emissions of nitrogen oxides	NO _X	mg/kWh	27	31	36	22

⁽¹⁾ Low temperature means for condensing boilers 30°C, for low temperature boilers 37°C and for other heaters 50°C return temperature (at heater inlet).

⁽²⁾ High temperature regime means 60°C return temperature at heater inlet and 80°C feed temperature at heater outlet.



The back cover for contact details.

4 Description of the product

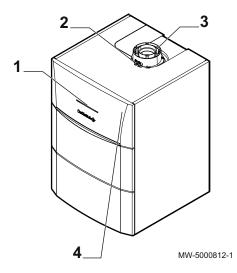
4.1 General description

IX floor-standing condensing gas boilers have the following characteristics:

- · Low pollutant emissions
- High efficiency heating
- Electronic control panel
- Flue gas discharge by a forced flue or chimney type connection.
- Perfectly suitable for cascade systems with several boilers.

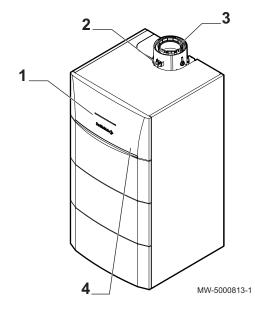
4.2 Main boiler components

Fig.2 IX 145-50 and IX 145-70



- 1 Control panel
- 2 Flue gas measuring point
- 3 Flue gas connection
- 4 On/Off button

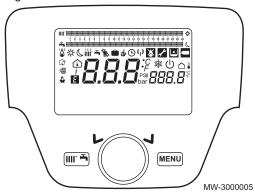
Fig.3 IX 145-90 and IX 145-110



- 1 Control panel
- 2 Flue gas measuring point
- 3 Flue gas connection
- 4 On/Off button

4.3 Control panel description

Fig.4



4.3.1 Description of the keys

Shortcuts menu key

Quick access to the operating modes

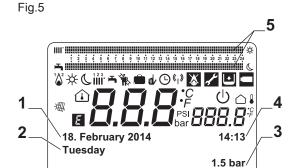
Menu key

Selection and confirmation button

- Rotary button for navigating between menu or parameter screens
- Push button to select a menu/parameter or to confirm a value/ action

4.3.2 Description of the symbols

- 1 Date: day, month, year
- 2 Day of the week
- 3 Boiler / heating circuit pressure
- 4 Clock: hours and minutes
- 5 Operating period indicators in Comfort/Eco mode over 24 hours:
 - Top line: Heating mode
 - Bottom line: Domestic hot water mode



MW-3000006-GB-05

Tab.7 Description of the symbols

Type of information	Symbol	Description
Information	1	Room temperature (°C)
	\triangle	Outdoor temperature (°C)
	°C, °F, bar, PSI	Temperature and hydraulic pressure units: international system or imperial system.
	(P)	Data transmission: only when the wireless remote control is connected.
	畑	Solar integration available

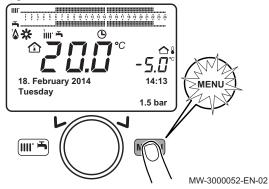
4 Description of the product

Type of information	Symbol	Description
Operating modes	*	Comfort operating mode: comfort room temperature
	(Eco operating mode: reduced room temperature
	123.	Operating mode: Heating
		• 123 (1): Zone 1 active
		• 1111 (2): Zone 2 active
		• 1111 (3): Zone 3 active
		Symbol displayed:
		No symbol: heating circuit not connected
		Fixed symbol: heating circuit connected Flashing symbol: heating requested
	–	Operating mode: Domestic hot water activated
	-	_ Important
		The heating lili is off during production of domestic hot water
	4	Operating mode: Comfort 🔆 / Eco 📞 override mode
	(1)	Operating mode: Automatic, according to the timer programs
	*	Sweep Function activated
		Holidays program function activated
	Ф	Frost protection mode: the boiler frost protection has been activated
	1 \(\) 2	Burner on:
		• ¹🏠² (1): Output < 70%
		• ${}^{1}\Delta^{2}$ (2): Output > 70%
error	*	Error: the burner cannot start up
	1	Error: After Sales Service intervention required
		Hydraulic pressure too low
	Ε	Generic error

5 Operation

5.1 Use of the control panel

Fig.6



5.1.1 Modifying the user parameters

1. Press the key to access the parameters.

Important

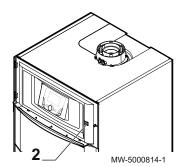
Press the key to return to the main display.

⇒ The user parameters can now be accessed. Use the button to select and modify them.

For more information, see
List of parameters, page 19

5.2 Starting up the boiler

Fig.7



- 1. Open the gas cock.
- 2. Start up the boiler by pressing the ON/OFF switch.
- 3. Press the key to access the shortcuts menu.
- 4. Select the **Standby/operation** parameter by turning the 🔘 button.
- 5. Press the O button to start up the boiler.
 - ⇒ The **(** symbol disappears.

5.3 Stopping the boiler

i

Important

Choose the operating mode Off or Standby.

- 1. Switch off the boiler by pressing the ON/OFF switch.
- 2. Close the gas cock.

5.3.1 Putting the boiler in Standby mode

- 1. Press the key to access the shortcuts menu.
- 2. Select the **Standby/operation** parameter by turning the 🔘 button.
- 3. Press the O button to put the boiler in standby.
 - ⇒ The symbol is displayed.

5.4 Frost Protection

The electronic management system of the boiler includes protection against frost. If the water temperature falls below 5°C, the burner starts up in order to provide a water temperature of 30°C.

This function only works if the boiler is turned on, the gas supply open and the hydraulic pressure correct.

5.4.1 Activating the Off

1. Press the key to access the shortcuts menu.

2.	Select the parameter Central heating mode CH1 by turning the (0
	button.	

- 3. Confirm the selection by pressing the O button.
- 4. Select the parameter **Off** by turning the 🔘 button.
- 5. Confirm the selection by pressing the \bigcirc button.
 - \Rightarrow The $\textcircled{\textbf{0}}$ symbol is displayed.

i

Important

When the operating mode **Off** is activated:

- The electrical circuits continue to be powered up.
- The frost protection function is activated.

6 Settings

6.1 List of parameters

6.1.1 Shortcuts menu

Tab.8 Functions accessible with the shortcut key

Parameter	Description	Adjustment range
Standby/operation	Boiler standby/Start-up.	Standby : Boiler put on standby.
		 The symbol is displayed. The boiler's operating modes are deactivated. The frost protection function is activated. On: Putting the boiler into operation
316:Hot water boost	Forcing domestic hot water production.	 On: Activates the domestic hot water override. The symbol is displayed. If a domestic hot water tank is connected to the boiler circuit, the boiler will give priority to forcing heating of the DHW tank, independently of the other parameters.
		Off: Deactivates forcing of domestic hot water.
Central heating mode CH1	Boiler operating mode.	 On: The heating is activated in Comfort mode. The symbols ☆, iiii* and w are displayed. Reduced: The heating is activated in Eco mode. The symbols ఄ, iiii* and w are displayed. Timed: The heating operates according to the defined timer programs. The symbols ் and iiii* are displayed. Off: The boiler is shut down and frost protection is active. The symbol o is displayed.
Room temperature CH1	Room temperature set point in comfort mode.	
Hot water heating	Setting domestic hot water production.	 On: Enables domestic hot water production. Off: Disables domestic hot water production. The symbol disappears from the display. Eco: Not used.
Hot water temp setpoint	Domestic hot water temperature set point.	

6.1.2 Information menu

Tab.9 Information menu

Information	Description	Unit
Room temperature	Is displayed if the control system unit is configured as a room	
Room temperature min	temperature appliance	
Room temperature max		
Boiler temperature	Boiler flow temperature	°C
Outside temp	Outdoor temperature	°C

Information	Description	Unit
Outside temp min	Minimum outside temperature value memorised Important The outside sensor must be connected.	°C
Outside temp max	Maximum outside temperature value memorised Important The outside sensor must be connected.	°C
Hot water temp 1	Domestic hot water temperature Important The value displayed comes from the sensor on the boiler's domestic hot water circuit.	°C
Collector temp 1	Instantaneous temperature of the solar panel sensor (when associated to a solar system)	°C
State central heating CH1	Operating mode of heating circuit 1	
State central heating CH2	Operating mode of heating circuit 2	
State central heating CH3	Operating mode of heating circuit 3	
State hot water	Domestic hot water circuit operating mode	
State boiler	Boiler operating mode	
State solar	Indicates solar running (when associated to a solar system)	-
Telephone customer service	Telephone number of the After Sales Service	

6.1.3 List of user parameters

Tab.10 Structure of the user menu

Menu	Feature
Set time and date	Setting the time and date
Operator section	Change Language Programming lock
Time program Time hot water	Predefined or custom programs with a maximum of 3 comfort or domestic hot water production ranges for each 24 hours
Holiday Settings	Eco heating or frost protection mode for a defined period
Temps / mode CH1 Temps / mode CH2 Temps / mode CH3	Choice of Comfort/Eco/Auto/Standby mode for each heating circuit with reduced or comfort temperature

Tab.11 Set time and date menu

Parameter number	Parameter	Description
1	Hours / minutes	Setting the time
2	Day / month	Setting the day and the month
3	Year	Setting the year

Tab.12 Operator section menu

Parameter number	Parameter	Description	Factory setting
20	Change Language	Setting the interface language	English
27	Programming lock	Setting the programming lock	Off
		Off: the parameters can be displayed and modified On: the parameters can be displayed but cannot be modified	

Tab.13 Time program menu

Parameter number			Parameter	Description
Heating circuit	Heating circuit 2	Heating circuit 3		
500	520	540	Select days	Selecting the days or group of days for the timer program.
514	534	554	Mon-Sun	Selecting a default timer program.
501	521	541	1st Time ON	Start of timer period 1.
502	522	542	1st Time OFF	End of timer period 1.
503	523	543	2nd Time ON	Start of timer period 2.
504	524	544	2nd Time OFF	End of timer period 2.
505	525	545	3rd Time ON	Start of timer period 3.
506	526	546	3rd Time OFF	End of timer period 3.
516	536	556	Default values	Reset the timer programming parameters (Yes / No)

Tab.14 Time hot water menu

Parameter number	Parameter	Description
560	Select days	Selecting the days or group of days for the timer program.
574	Mon-Sun	Selecting a default timer program.
561	1st Time ON	Start of timer period 1.
562	1st Time OFF	End of timer period 1.
563	2nd Time ON	Start of timer period 2.
564	2nd Time OFF	End of timer period 2.
565	3rd Time ON	Start of timer period 3.
566	3rd Time OFF	End of timer period 3.
576	Default values	Reset the timer programming parameters (Yes / No).

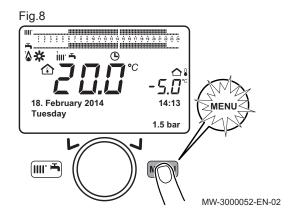
Tab.15 Holiday Settings menu

Parameter number		Parameter	Description	Factory setting	
Heating circuit 1	Heating circuit 2	Heating cir- cuit 3			
641	651	661	Select	Selecting the holiday period	Period 1
642	652	662	Start	Selecting the day and month of the start of the current holiday period.	
643	653	663	End	Selecting the day and month of the end of the current holiday period.	
648	658	668	Operating level	Boiler operating mode during the holiday period. Off Reduced	Off

Temps / mode CH1 - Temps / mode CH2 - Temps / mode CH3 menu Tab.16

Parameter	Parameter number		Parameter	Description	Factory setting
Heating circuit 1	Heating circuit 2	Heating cir- cuit 3			
700	1000	1300	Operating mode	 The control unit is installed on the boiler: Off: heating is deactivated. Timed: the heating is dependent on the timer program. Reduced: heating is in permanent reduced mode. On: heating is in permanent reduced mode. The control unit is installed as a room temperature control system: Off: the boiler starts up when the room temperature falls below the frost protection set point. Timed: the heating is dependent on the timer program. Reduced: the room temperature set point is the reduced set point (Parameters 712, 1010, 1310) On: the room temperature set point is the comfort set point (Parameters 710, 1010, 1310) 	On
710	1010	1310	Comfort setpoint		20 °C
712	1012	1310	Reduced temp setpoint		16 °C

6.2 Setting the parameters



Set time and date

12:00

MENU

MW-3000055-EN-02

Hours / minutes

Fig.9

6.2.1 Setting the date and time

- 1. Press the key to access the parameters.
- 2. Select the **Set time and date** menu by turning the 🔘 button.
- 3. Confirm the menu selection by pressing the O button.
 - ⇒ The parameter **Hours / minutes** appears.

- 4. Confirm the parameter selection by pressing the O button. ⇒ The parameter flashes, it can be modified.
- 5. Modify the parameter by turning the 🔘 button.

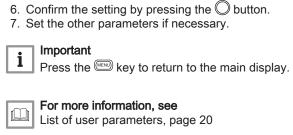
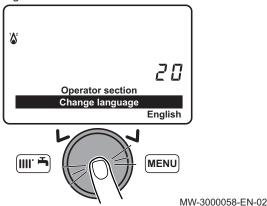


Fig.10



6.2.2 Selecting the language

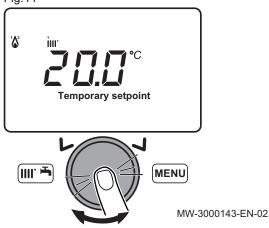
- 1. Press the key to access the parameters.
- 2. Select the **Operator section** menu by turning the **Operator section** button.
- 3. Confirm the menu selection by pressing the button.

 ⇒ The Change Language parameter appears.
- 4. Confirm the menu selection by pressing the O button.
 - ⇒ The language currently used flashes.
- 5. Modify the parameter by turning the 🔘 button.
- 6. Confirm the setting by pressing the O button.

i Important

Press the key to return to the main display.

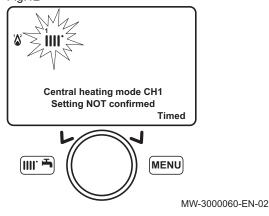
Fig.11



6.2.3 Setting a temporary heating flow temperature

- 1. From the control panel main screen, turn the 🔘 button to increase or reduce the temperature value.
- 2. Confirm the menu selection by pressing the O button.

Fig.12



6.2.4 Changing the operating mode

- 1. Press the key to access the shortcuts menu.
- 2. Select the parameter **Central heating mode CH1** by turning the button.
- 3. Press the O button to confirm.
- 4. Select the appropriate operating mode.
- 5. Press the O button to confirm.

i

Important

Press the www key to return to the main display.

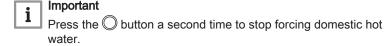
For more information, see

Shortcuts menu, page 19

6.2.5 Forcing domestic hot water production

- 1. Press the key to access the shortcuts menu.
- 2. Select the parameter **316:Hot water boost** by turning the button.





Important
Press the key to return to the main display.

For more information, see Shortcuts menu, page 19

6.2.6 Setting the room temperature set point (On mode)

1. Press the we key to access the shortcuts menu.

- Select the parameter Room temperature CH1 by turning the button.
- 3. Press the O button to confirm.
- 4. Turn the Dutton to modify the temperature set point.
- 5. Press the O button to confirm.



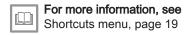


Fig.13

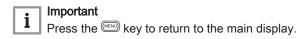
Room temperature CH1

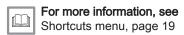
MENU

MW-3000063-EN-02

6.2.7 Modifying the domestic hot water production mode

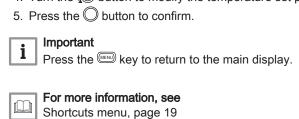
- 1. Press the we key to access the shortcuts menu.
- 2. Select the parameter **Hot water heating** by turning the O button.
- 3. Press the O button to confirm.
- 4. Select the appropriate operating mode.
- 5. Press the O button to confirm.





6.2.8 Setting the domestic hot water temperature set point

- 1. Press the was key to access the shortcuts menu.
- 2. Select the parameter **Hot water temp setpoint** by turning the 💭 button.
- 3. Press the O button to confirm.
- 4. Turn the Dutton to modify the temperature set point.



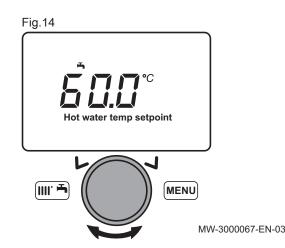
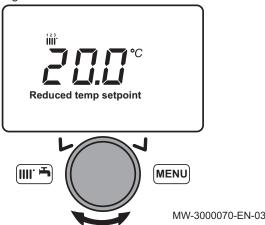


Fig.15



6.2.9 Setting the room temperature set point (Reduced mode)

- 1. Press the key to access the parameters.
- 2. Select the **Temps / mode CH1** menu by turning the button.
- 3. Confirm the menu selection by pressing the button.

 ⇒ The parameter **Operating mode** appears.
- 4. Select the **Reduced temp setpoint** menu by turning the 🔘 button.
- 5. Confirm the menu selection by pressing the button.

 ⇒ The room temperature set point (Reduced mode) flashes.
- 6. Turn the 🔘 button to modify the temperature set point.
- 7. Press the O button to confirm.

Important

Press the key to return to the main display.

6.2.10 Programming a Holiday period

This series of functions is used to program the boiler's behaviour in holiday periods or during prolonged absences. The various parameters are used to program one of eight Holiday periods.

Important

When the function is activated, the **___** symbol is displayed.

- 1. Press the key to access the parameters.
- 2. Select the **Holiday heating CH1** menu by turning the 🔘 button.
- 3. Confirm the menu selection by pressing the button ○.

 ⇒ The **Select** parameter appears.
- 4. Select the Holiday period to be programmed by turning the 🔘 button.
- Confirm by pressing the O button.

Fig.16

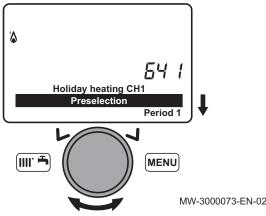
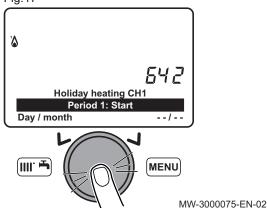
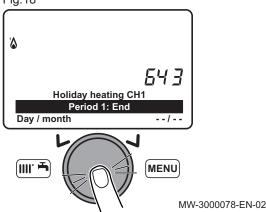


Fig.17



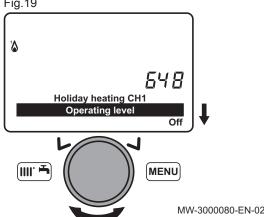
- 6. Select the **Start** parameter by turning the button.
- 7. Confirm the menu selection by pressing the button \bigcirc .
- 8. Select and confirm the start date (day/month) of the holiday period with the 🔘 button.
- 9. Confirm by pressing the O button.

Fig.18



- 10. Select the End parameter by turning the O button.
- 11. Confirm the menu selection by pressing the button O.
- 12. Select and confirm the end date (day/month) of the holiday period with
- 13. Confirm by pressing the O button.





- 14. Select the **Operating level** parameter by turning the **Operating**
- 15. Confirm the menu selection by pressing the button \mathbb{O} .
- 16. Select the boiler's operating mode during the holiday period by turning the O button.
- 17. Confirm the menu selection by pressing the button \mathbb{O} .



For more information, see

Setting the room temperature set point (On mode), page 24 Setting the room temperature set point (Reduced mode), page 25 Activating the Off, page 17

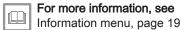
6.2.11 Selecting a heating circuit

The control panel can manage up to three different heating circuits.

- 1. From the home screen, turn the Dutton to select one of the three heating circuits available.
- 2. Press the O button to confirm.
- 3. Turn the 🔘 button to temporarily modify the temperature set point on the selected heating circuit.
- Press the O button to confirm.
 - ⇒ The selected heating circuit is active.

6.3 Accessing the information menu

- 1. Go to the parameters menu by pressing the key.
- 2. Select the Information menu with the rotary button Q.
- 3. Confirm by pressing the rotary button \bigcirc .
- 4. Use the rotary button O to scroll through the various items of information.



7 Maintenance

7.1 General

We recommend having the boiler inspected and serviced at regular intervals.



Caution

Do not neglect to service the boiler. Contact a qualified professional or take out a maintenance contract for the obligatory annual servicing of the boiler.

Failure to service the appliance voids the warranty. The annual service is obligatory pursuant to Decree No. 2009-649 of 9 June 2009.



Danger of electric shock

Before service work is started, the boiler has to be de-energised and secured from accidentally being switched back on.



Caution

Have an inspection carried out and the flues swept **at least once a year** or more, depending on the regulations in force in your country.



Caution

Only qualified professionals are authorised to carry out maintenance work on the boiler and the heating system.



Caution

After maintenance or repair work, check the entire heating system to ensure that there are no leaks.

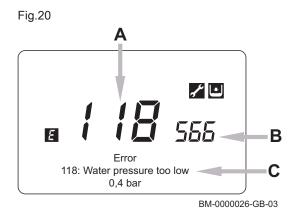


Caution

Only genuine spare parts may be used.

8 Troubleshooting

8.1 Error codes



- A Error code
- B Secondary error code
- C Description of the error

Important

Press the we key to return to the main display.

- The **E** symbol continues to be displayed on the control panel.
- If the error is not resolved after one minute, the error code is displayed on the control panel a second time.

i Important

Contact the installer:

- If an error code different from the ones described is displayed on the screen
- · If an error code is displayed on a regular basis

Important

If the error code simultaneously displays the **2** and **3** symbols, contact the accredited technical support service.

8.1.1 List of error codes

Tab.17 List of error codes

Ε	Display	Description of the error
10	10:Outside sensor	Outside temperature sensor.
50	50:HW sensor 1	Domestic hot water sensor (only for heating only models with domestic hot water tank).
110	110:Lockout SLT	Safety thermostat cut-off for overheating (pump blocked or air in the heating circuit).
111	111:Shutdown limit thermost	Safety thermostat cut-off for overheating.
133	133:Safety time exceeded	Ignition error (4 attempts).

8.2 Automatic error code clearing

If the symbol \nearrow is displayed at the same time as the error code, the error code is automatically cleared when the cause that prompted it stops.

A flow or return temperature in excess of the critical value prompts an error code. The error code is automatically cleared when the temperature drops below the critical value.

8.3 Clearing error codes

If the probable cause of an error code is resolved but the error code continues to be displayed, proceed as follows to clear the error code:

- 1. Press the O button.
 - ⇒ The command **Reset? Yes** is displayed on the control panel.
- 2. Confirm by pressing the O button.
 - ⇒ The error code disappears after a few seconds.

9 Environmental

9.1 Energy savings

Tips on saving energy:

- Keep the room in which the boiler is installed well ventilated.
- · Do not block ventilation outlets.
- Do not cover the radiators. Do not hang curtains in front of the radiators.
- Install reflective panels behind the radiators to prevent heat losses.
- Insulate the pipes in rooms that are not heated (cellars and lofts).
- Turn off the radiators in rooms not being used.
- Do not run hot (or cold) water pointlessly.
- Install a water-saving shower head to save up to 40% energy.
- Take showers rather than baths. A bath consumes twice as much water and energy.

9.2 Room thermostat and settings

Various models of room thermostat are available. The type of thermostat used and the parameter selected impact total energy consumption.

- A modulating regulator, which may be combined with thermostatic valves, is eco-friendly in terms of energy and offers an excellent level of comfort. This combination allows you to set the temperature separately for each room. However, do not install thermostatic radiator valves in the room in which the room thermostat is located.
- Complete opening and closing of the thermostatic radiator valves causes undesirable variations in temperature. Therefore, these must be opened/closed progressively.
- Set the room thermostat to a temperature of approximately 20°C to reduce heating costs and energy consumption.
- Lower the thermostat setting to approximately 16°C at night or when you are not at home. This reduces heating costs and energy consumption.
- Lower the thermostat setting well before airing the rooms.
- Set the water temperature to a lower level in summer than in winter (e.g. 60°C and 80°C respectively) when an ON/OFF thermostat is used.
- When clock thermostats and programmable thermostats are to be set, do not forget to take any holidays and days when no one is at home into account.

10 Disposal

10.1 Disposal and recycling

Fig.21





Caution

Only qualified professionals are permitted to remove and dispose of the boiler, in accordance with local and national regulations.

If you need to remove the boiler, proceed as follows:

- 1. Switch off the boiler.
- 2. Cut the power supply to the boiler.
- 3. Close the main gas valve.
- 4. Close the water mains.
- 5. Close the gas valve on the boiler.
- 6. Drain the installation.
- 7. Remove the air/flue gas pipes.
- 8. Disconnect all pipes.
- 9. Dismantle the boiler.

11 Warranty

11.1 General

We would like to thank you for buying one of our appliances and for your trust in our product.

In order to ensure continued safe and efficient operation, we recommend that the product is regularly inspected and maintained.

Your installer and our service department can assist with this.

11.2 Terms of warranty

The following provisions do not affect the application, in favour of the buyer, of the legal warranty in accordance with articles 1641 to 1648 of the civil code.

This appliance comes with a warranty that covers all manufacturing faults; the warranty period will commence on the date of purchase stated on the installer's invoice.

The warranty period is stated in our price list.

As a manufacturer, we can by no means be held liable if the appliance is used incorrectly, is poorly maintained or not maintained at all, or is not installed correctly (it is your responsibility to ensure that installation is carried out by a qualified installer).

In particular, we cannot be held liable for material damage, intangible losses or physical injury resulting from an installation that does not comply with:

- Legal or regulatory requirements or provisions laid down by the local authorities.
- National or local regulations and special provisions relating to the installation.
- Our manuals and installation instructions, in particular in terms of regular maintenance of the appliances.
- The rules of good workmanship.

Our warranty is limited to the replacement or repair of the parts found to be defective by our technical services team, excluding labour, transfer and transport costs.

Our warranty does not cover replacement or repair costs for parts that may become defective due to normal wear, incorrect usage, the intervention of unqualified third parties, inadequate or insufficient supervision or maintenance, a mains supply that is not appropriate or the use of unsuitable or poor quality fuel.

Smaller parts, such as motors, pumps, electrical valves etc., are guaranteed only if these parts have never been dismantled.

The rights established in European Directive 99/44/EEC, implemented by legal decree No. 24 of 2 February 2002 and published in Official Journal No. 57 of 8 March 2002, remain in force.

12 Appendix

12.1 Product fiche - Boiler space heaters

Tab.18 Product fiche for boiler space heaters

Brand name - Product name		IX 145–50	IX 145–70
Seasonal space heating energy efficiency class		A	Α
Rated heat output (Prated or Psup)		45	65
Seasonal space heating energy efficiency		93	93
Annual energy consumption		139	201
Sound power level L _{WA} indoors	dB	61	64



See

For specific precautions on assembly, installation and maintenance: see the chapter on Safety Instructions.

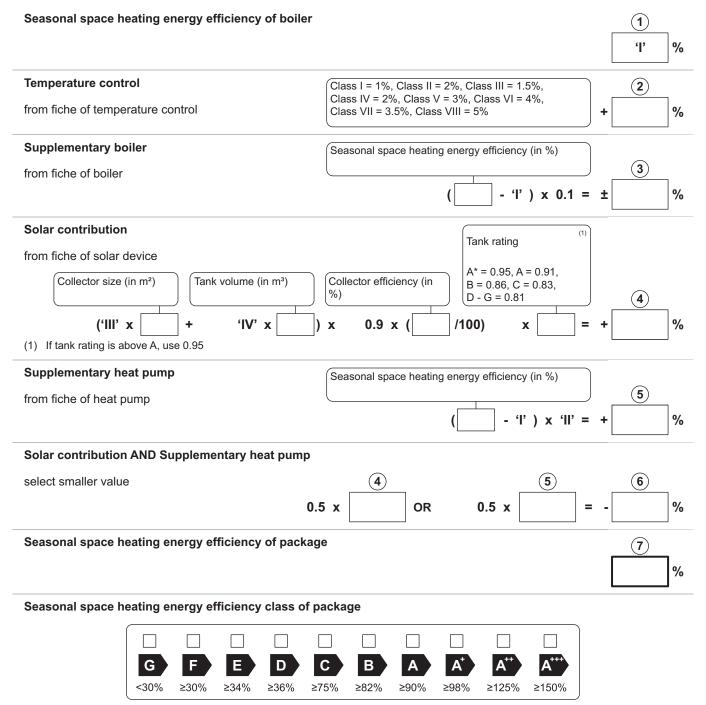
12.2 Product fiche - Temperature Controls

Tab.19 Product fiche for temperature controls

De Dietrich - IX		HMI text
Class		II
Contribution to space heating energy efficiency	%	2

12.3 Package fiche

Fig.22 Package fiche for boilers indicating the space heating energy efficiency of the package



Boiler and supplementary heat pump installed with low temperature heat emitters at 35°C?

from fiche of heat pump

The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.

AD-3000743-01

- I The value of the seasonal space heating energy efficiency of the preferential space heater, expressed in %.
- II The factor for weighting the heat output of preferential and supplementary heaters of a package as set out in the following table.
- The value of the mathematical expression: 294/(11 · Prated), whereby 'Prated' is related to the preferential space heater.
- IV The value of the mathematical expression 115/(11 · Prated), whereby 'Prated' is related to the preferential space heater.

Tab.20 Weighting of boilers

Psup / (Prated + Psup) ⁽¹⁾⁽²⁾	II, package without hot water storage tank	II, package with hot water storage tank
0	0	0
0.1	0.3	0.37
0.2	0.55	0.70
0.3	0.75	0.85
0.4	0.85	0.94
0.5	0.95	0.98
0.6	0.98	1.00
≥ 0.7	1.00	1.00

- (1) The intermediate values are calculated by linear interpolation between the two adjacent values.
- (2) Prated is related to the preferential space heater or combination heater.

Tab.21 Package efficiency

De Dietrich - IX		IX 145–50	IX 145–70
Seasonal space heating energy efficiency of boiler	%	93	93
Temperature control		2	2
Seasonal space heating energy efficiency of package	%	95	95



DE DIETRICH

FRANCE

Direction de la Marque 57, rue de la Gare - F-67580 Mertzwiller

S 03 88 80 27 00

03 88 80 27 99

www.dedietrich-thermique.fr

VAN MARCKE

BE

Weggevoerdenlaan 5 B- 8500 KORTRIJK

+32 (0)56/23 75 11

www.vanmarcke.be

DE DIETRICH THERMIQUE Iberia S.L.u

ES

C/Salvador Espriu, 11 08908 L'HOSPITALET de LLOBREGAT

434 935 475 850

info@dedietrich-calefaccion.es

www.dedietrich-calefaccion.es

MEIER TOBLER AG

CH

Bahnstrasse 24 - CH - 8603 SCHWERZENBACH

+41 (0) 44 806 41 41

info@meiertobler.ch

+41 (0)8 00 846 846

www.meiertobler.ch

MEIER TOBLER SA

CH

Chemin de la Veyre-d'En-Haut B6, CH -1806 St-Légier-La-Chiésaz

+41 (0) 21 943 02 22

info@meiertobler.ch

+41 (0)8 00 846 846

Serviceline

www.meiertobler.ch

DE DIETRICH

Technika Grzewcza sp. z o.o.

PL

ul. Północna 15-19, 54-105 Wrocław

+48 71 71 27 400

biuro@dedietrich.pl

801 080 881

www.facebook.com/DeDietrichPL www.dedietrich.pl



000 «БДР ТЕРМИЯ РУС»

RU

129164, Россия, г. Москва Зубарев переулок, д. 15/1 Бизнес-центр «Чайка Плаза»,офис 309

8 800 333-17-18

info@dedietrich.ru

www.dedietrich.ru

NEUBERG S.A.

LU

39 rue Jacques Stas - B.P.12 L- 2549 LUXEMBOURG

+352 (0)2 401 401

www.neuberg.lu www.dedietrich-heating.com

DE DIETRICH SERVICE

AT

© 0800 / 201608 freecall

www.dedietrich-heiztechnik.com

DUEDI S.r.I

IT

Distributore Ufficiale Esclusivo De Dietrich-Thermique Italia Via Passatore, 12 12010 San Defendente di Cervasca CUNEO

439 0171 857170

+39 0171 687875

@ info@duediclima.it

www.duediclima.it

DE DIETRICH

CN

Room 512, Tower A, Kelun Building 12A Guanghua Rd, Chaoyang District C-100020 BEIJING

+86 (0) 106 581 4017

+86 (0) 106 581 4018

+86 (0) 106 581 7056

+86 (0) 106 581 4019

@ contactBJ@dedietrich.com.cn

www.dedietrich-heating.com

BDR THERMEA Czech Republic s.r.o

CZ

Jeseniova 2770/56 - 130 00 Praha 3

+420 271 001 627

dedietrich@bdrthermea.cz

www.dedietrich.cz



