

Range GT 120 - GTU C 120 - GT 220

Low temperature fuel oil boiler
Oil-fired condensation boiler

English
21/09/06



Instructions for
use



CE






De Dietrich

www.dedietrich.com

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Symbols used

	Caution danger	Risk of injury and damage to equipment. Attention must be paid to the warnings on safety of persons and equipment
	Specific information	Information must be kept in mind to maintain comfort
	Reference	Refer to another manual or other pages in this instruction manual

Congratulations on your choice of a high quality product. We strongly advise you to read the following instructions in order to guarantee the optimal operation of your appliance. We are sure that it will be entirely to your satisfaction and will meet with all of your expectations.

Important recommendations

-  For a proper operating of the boiler, follow carefully the instructions.
-  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 the seal on the gas and water pipe connections.
-  Check that the appliance is correctly regulated for the type of combustible used.
-  Keep to the polarity shown on the terminals : phase (L), neutral (N) and earth $\frac{1}{\perp}$.
-  To guarantee protection against the corrosion of domestic hot water calorifiers fitted with a titanium anode (Titan Active System® protection system), always leave the control panel switched on. To switch off the heating or the domestic hot water, use the Summer or Antifreeze mode.

1 Aeration

Warning:

In order to avoid damage to the boiler, it is necessary to prevent the contamination of combustion air by chlorine and/or fluoride compounds, which are particularly corrosive. These compounds are present, for example, in aerosol sprays, paints, solvents, cleaning products, washing products, detergents, glues, snow clearing salts, etc. Therefore:

- Do not suck in air evacuated from premises using such products: hairdressing salons, dry cleaners, industrial premises (solvents), premises containing refrigeration systems (risk of refrigerant leakage), etc.
- Do not stock such products close to the boilers.

If the boiler and/or peripheral equipment are corroded by such chloride or fluoride compounds, the contractual guarantee cannot be applied.

1.1 Chimney versions - Chimney condensation versions

Position the air inlets in relation to the high ventilation vents in order that the air is refreshed throughout the boiler room.


The minimum cross-sections and the positions of the fresh air inlet and the air outlet must comply with prevailing regulations.

 Do not obstruct the air inlets in the room (even partially).

1.2 Forced flue versions (Not available in Germany)


- GTU 120 FF boilers are in compliance with the standard for fuel oil boilers type C (XPD 35-430). They can be installed in all kinds of premises whatever their volume, even if they do not include a window or framed opening.
- They may be commissioned only using devices sold by De Dietrich (particularly concentric flues, connecting parts, terminals).

2 Burner

 Refer to the user instructions for the burner.


3 Maintenance

- 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.
- **Oil-fired condensation boiler:** The condenser and the condensates neutralisation station must be serviced at least once a year by a qualified professional.

 **To ensure safe operation of the boiler: The siphon and the condensates evacuation conduit must imperatively be checked and cleaned at least once a year.**

Without an annual service, the siphon is in danger of becoming blocked and the condensates will no longer be able to flow off and will fill the flue gas discharge pipe causing the boiler to malfunction.

- Regularly check the level of water in the installation. Top it up, if need be, avoiding the abrupt input of cold water into the hot boiler. If this operation is repeated several times per season, locate the leak and repair it.
- We recommend taking out a maintenance contract.

 **Do not drain the installation, except in cases of absolute necessity.**
For example: Several months' absence with the risk of ice in the building.

Description

1 Boilers

The models presented are marketed in the various countries according to the countries' specific sales programme.

GT 120



GTU 120 / GTU 120 FF / GTU C 120



GTU 1200 V / GTU 1200 V FF / GTU C 1200 V

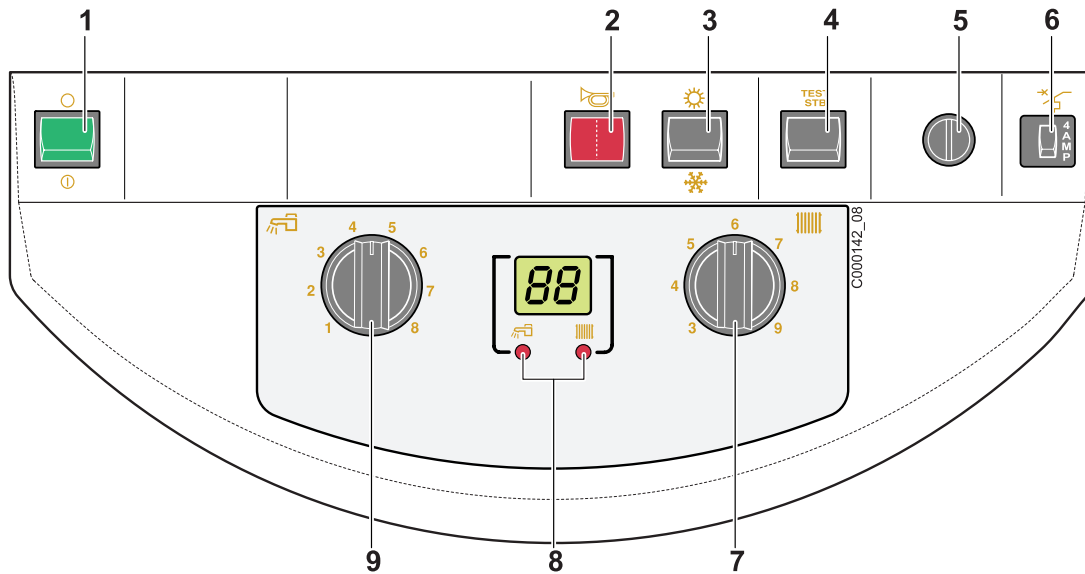


GT 220



2 Control panel

2.1 Control panel B / B2



1 General ON / OFF switch

2 Alarm indicator

3 Summer / Winter switch

4 TEST STB button

5 Safety thermostat with manual reset

6 Panel **B**: Timed circuit breaker (4 A)
Panel **B2**: Timed circuit breaker (6 A)

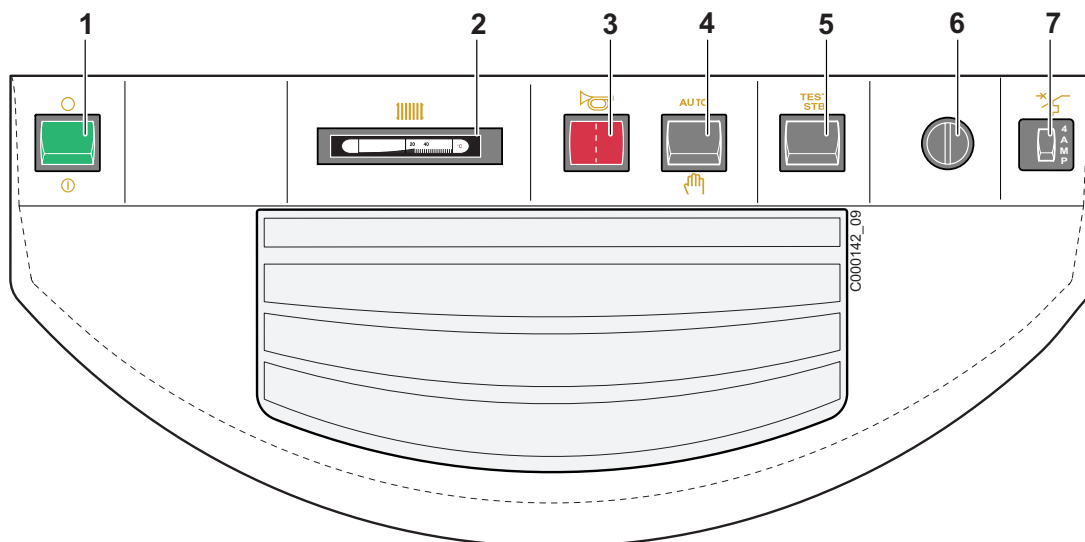
7 Boiler thermostat

8 Alternate display of the following temperatures:
- Light lit: Water temperature in the boiler
- Light lit: Domestic hot water temperature

9 domestic hot water thermostat

2.2 Control panel Easymatic E-E1 / Easyradio ER-E1R

Electromechanical components



1 General ON / OFF switch

2 Boiler thermometer

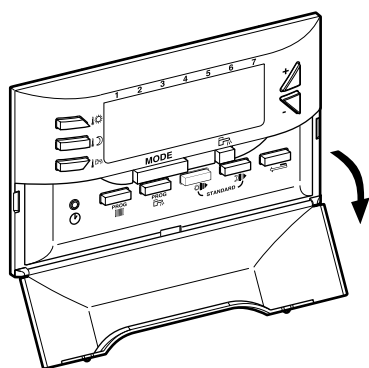
3 Alarm indicator

4 Switch **AUTO**/

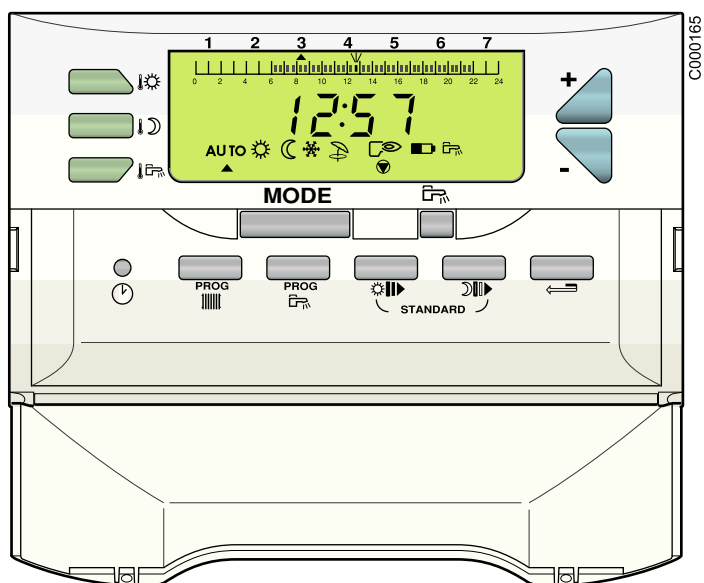
5 **TEST STB** button

6 Safety thermostat with manual reset

7 Timed circuit breaker (4 A)



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Temperature setting keys

- Comfort temperature
- Reduced temperature
- Domestic hot water temperature
- +/-** Is used to adjust the selected temperature

Operating mode selection keys

Key **MODE**:

- AUTO** Heating according to the time programme
- Forced Comfort mode
- Forced Low mode
- Antifreeze mode
- Summer mode

Key : Tank load enabled mode

- Burner on
- Circulator pump on
- Available only on Easyradio
If the symbol flashes, replace the batteries



Time and day adjustment key



Access to the time programmes on the heating circuits.
Circuit A for Easymatic, circuit A and B for Easymatic 1.



Access to the time programmes on the DHW circuit

Programme key



Enter (per 1/2 hour) the comfort temperature period or tank load enabled (dark area)

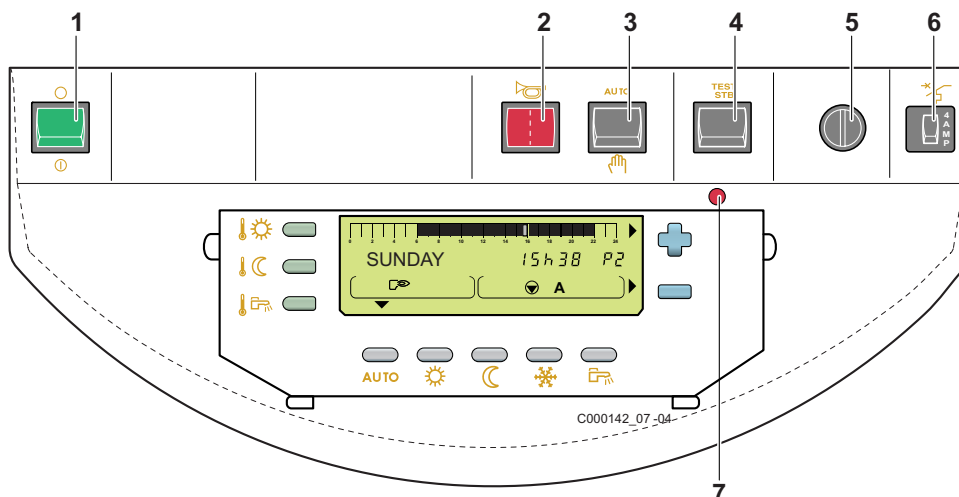


Enter (per 1/2 hour) the reduced temperature period or tank load disabled (light area)



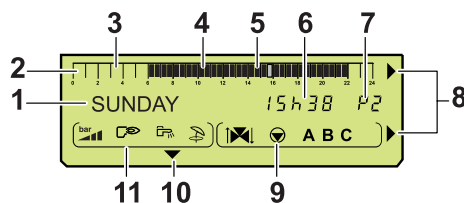
Return key

Electromechanical components



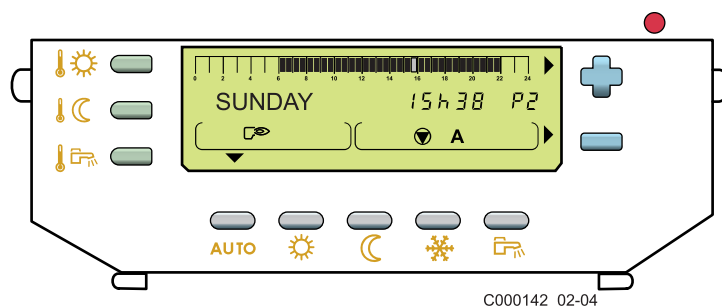
1	General ON (●) / OFF (○) switch	5	Safety thermostat with manual reset (110 °C)
2	Alarm indicator	6	Timed circuit breaker (6 A)
3	Switch AUTO /	7	Operating light
4	TEST STB button		

Display



1	Text and numerical display	10	Symbol displayed above the active operating mode
2	Graphic display bar for the programme in circuit A, B or C	11	Symbols indicating that the following inputs/outputs are active
3	Light area: Reduced temperature heating period or tank load disabled		DHW load pump on
4	Dark area: Comfort temperature heating period or tank load enabled		Summer mode
5	Flashing cursor showing the current time		Not available
6	Number display (current time, adjusted values, parameters, etc.)		Burner on
7	Active programme display, P1, P2, P3, P4 or E : Summer mode activated	With optional package AD217:	
8	The arrows flash when setting values can be modified using the + and - keys	▶ Operation with modulating burner	
9	Circuit operation symbols		Burner on with an increase in the output level
	Opening the 3-way valve		Burner on with a reduction in the output level
	Closing the 3-way valve		Burner on with a constant level
	Displayed circuit pump on	▶ Operation with 2-stage burner	
A, B, C	Name of the circuit displayed		Burner on with 1 stage
			Burner on with 2 stages

Keys accessible when the flap is closed



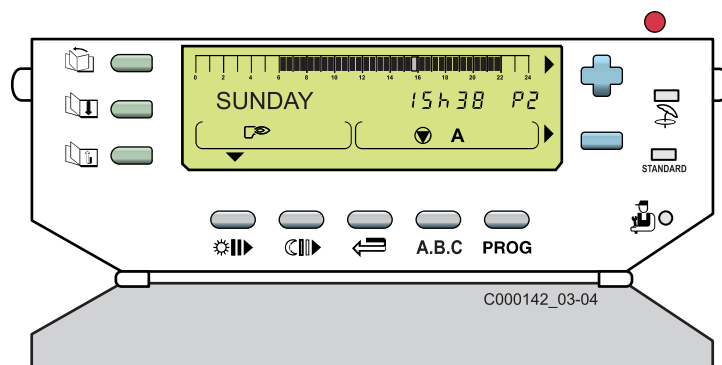
Temperature setting keys

- Comfort temperature
- Reduced temperature
- Domestic hot water temperature
- Is used to adjust the selected temperature

Operating mode selection keys

- AUTO** Heating according to the time programme
- Forced Comfort mode:
 - until midnight if ▼ flashes
 - all the time if ▼ is steady
- Forced Low mode:
 - until midnight if ▼ flashes
 - all the time if ▼ is steady
- Antifreeze mode
- Tank load enabled mode

Keys accessible when the flap is open



- Manual "Summer" shutdown key
The heating is switched off and DHW production is ensured. The symbols and **E** are displayed.

- STANDARD** "Standard" programme key
Reset of all time programmes.

- Filter settings access key

Key for access to setting and measurements

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

Programming keys




- Enter (per 1/2 hour) the comfort temperature period or tank load enabled (dark area)
- Enter (per 1/2 hour) the reduced temperature period or tank load disabled (light area)
- Return key
- A, B, C** Circuit display selection key
- PROG** Active heating programme selection key (P1, P2, P3 or P4)

3 Burner

Refer to the user instructions for the burner.



Commissioning

 **Initial commissioning must be done by a qualified professional.**

1. Check the water pressure in the installation. Top up with more water if necessary.
2. If using an oil-fired boiler, check the oil level in the tank.
3. Open the fuel oil inlet or the gas valve.
4. **Control panel B / B2:**
 - Set the Summer/Winter switch to 
- Control panel E / E1 / D:**
 - Set switch **AUTO**/ to the **AUTO** position.
5. Set the On/Off switch to .

Stopping the boiler

Set the On/Off switch to .

 **On the Off position , the domestic hot water calorifier fitted with a titanium anode is not protected against corrosion.**

Precautions to take if there is a danger of frost

Heating circuit:

Use a correctly dosed antifreeze to prevent the heating water freezing. If this cannot be done, drain the system completely. In all cases, consult the fitter.

Domestic hot water circuit:

Drain the domestic water tank and pipes.

Precautions to take in the event of prolonged shutdown (one year or more)

- The boiler and the chimney must be swept carefully.
- Close the door of the boiler to prevent the internal circulation of air.
- Remove the pipe connecting the boiler to the chimney and plug the nozzle.

Troubleshooting

Checks to make before calling your fitter:

The burner will not start.

 Refer to the user instructions for the burner.

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.
- If it is often necessary to top up the installation with water, contact your fitter.

Before informing the fitter of a fault, make a note of the following information:

- Product type
- Serial number
- Type of combustible

This information can be found on the rating plate stuck to the side panel of the boiler.

Warranty

You have just purchased one of our appliances 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 our customer support network are at your disposal at all times.

Warranty terms

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

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

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.

Switzerland

The application of the warranty is subject to the terms and conditions of sale, delivery and warranty of the company marketing our products.

Other countries

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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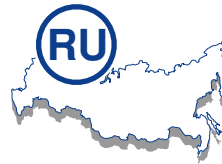
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