

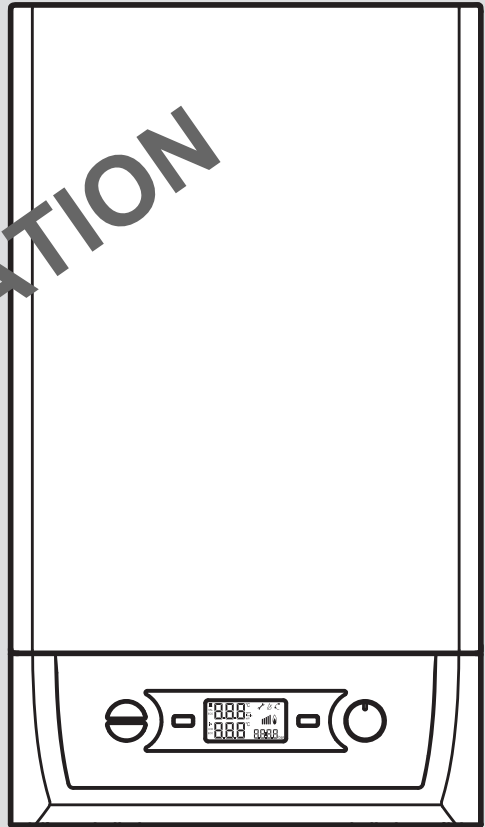
Nitromix

Nitromix P 24 (NG)

Nitromix P 28 (NG)

Nitromix P 35 (NG)

TRANSLATION



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Operating instructions

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1 Safety

1.1 Action-related warnings

Classification of action-related warnings

The action-related warnings are classified in accordance with the severity of the possible danger using the following warning symbols and signal words:

Warning symbols and signal words



Danger!

Imminent danger to life or risk of severe personal injury



Danger!

Risk of death from electric shock



Warning.

Risk of minor personal injury



Caution.

Risk of material or environmental damage

1.2 Intended use

There is a risk of injury or death to the user or others, or of damage to the product and other property in the event of improper use or use for which it is not intended.

The product is intended as a heat generator for sealed heat-

ing installations and for domestic hot water generation.

Intended use includes the following:

- observance of the operating instructions included for the product and any other installation components
- compliance with all inspection and maintenance conditions listed in the instructions.

This product 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 product in a safe way and understand the hazards involved. Children must not play with the product. Cleaning and user maintenance work must not be carried out by children unless they are supervised.

Any other use that is not specified in these instructions, or use beyond that specified in this document, shall be considered improper use. Any direct commercial or industrial use is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

1.3 General safety information

1.3.1 Danger caused by improper operation

Improper operation may present a danger to you and others, and cause material damage.

- ▶ Carefully read the enclosed instructions and all other applicable documents, particularly the "Safety" section and the warnings.
- ▶ Only carry out the activities for which instructions are provided in these operating instructions.

1.3.2 Risk of death from escaping gas

What to do if you smell gas in the building:

- ▶ Avoid rooms that smell of gas.
- ▶ If possible, open doors and windows fully and ensure adequate ventilation.
- ▶ Do not use naked flames (e.g. lighters, matches).
- ▶ Do not smoke.
- ▶ Do not use any electrical switches, mains plugs, doorbells, telephones or other communication systems in the building.
- ▶ Close the emergency control valve or the main isolator.

- ▶ If possible, close the gas stopcock on the product.
- ▶ Warn other occupants in the building by yelling or banging on doors or walls.
- ▶ Leave the building immediately and ensure that others do not enter the building.
- ▶ Alert the police and fire brigade as soon as you are outside the building.
- ▶ Use a telephone outside the building to inform the emergency service department of the gas supply company.

1.3.3 Risk of death due to blocked or leaking flue pipework

What to do if you smell flue gas in the property:

- ▶ Open all accessible doors and windows fully to provide ventilation.
- ▶ Switch off the product.
- ▶ Inform a competent person.

1.3.4 Risk of death due to explosive and flammable materials

- ▶ Do not use the product in storage rooms that contain explosive or flammable substances (such as petrol, paper or paint).

1.3.5 Risk of death due to changes to the product or the product environment

- ▶ Never remove, bridge or block the safety devices.
- ▶ Do not tamper with any of the safety devices.
- ▶ Do not damage or remove any tamper-proof seals on components.
- ▶ Do not make any changes:
 - The product itself
 - to the gas, supply air, water and electricity supply lines
 - to the entire flue system
 - to the entire condensate discharge system
 - to the expansion relief valve
 - to the drain pipework
 - to constructional conditions that may affect the operational reliability of the product

1.3.6 Risk of poisoning caused by insufficient combustion air supply

Condition: Open-flued operation

- ▶ Ensure that there is a sufficient combustion air supply.

1.3.7 Risk of corrosion damage due to unsuitable combustion and room air

Sprays, solvents, chlorinated cleaning agents, paint, adhesives, ammonia compounds, dust or similar substances may lead to corrosion on the product and in the air/flue pipe.

- ▶ Ensure that the combustion air supply is always free of fluorine, chlorine, sulphur, dust, etc.
- ▶ Ensure that no chemical substances are stored at the installation site.


1.3.8 Risk of death due to cupboard installation

Cupboard installation can give rise to dangerous situations when used with a product which is operated with an open flue.

- ▶ Never, under any circumstances, enclose the product yourself.
- ▶ If you require cupboard installation for the product, consult an approved installation company.

1.3.9 Risk of material damage caused by frost

- ▶ Ensure that the heating installation always remains in operation during freezing con-



ditions and that all rooms are sufficiently heated.

- ▶ If you cannot ensure the operation, have a competent person drain the heating installation.

1.3.10 Risk of injury and material damage due to maintenance and repairs carried out incorrectly or not carried out at all

- ▶ Never attempt to carry out maintenance work or repairs on your product yourself.
- ▶ Faults and damage should be immediately eliminated by a competent person.
- ▶ Adhere to the maintenance intervals specified.

2 Notes on the documentation

2.1 Observing other applicable documents

- ▶ Always observe all operating instructions enclosed with the installation components.

2.2 Storing documents

- ▶ Store these instructions and all other applicable documents for further use.

2.3 Validity of the instructions

These instructions apply only to:

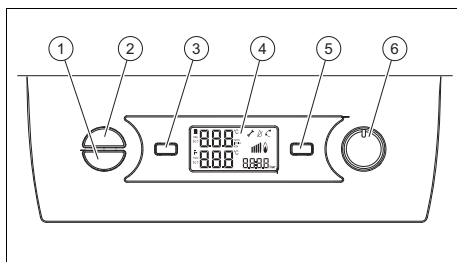
Product article number

	Article number
Nitromix P 24 (NG), GE	0010048330
Nitromix P 28 (NG), GE	0010048331
Nitromix P 35 (NG), GE	0010048332

3 Product description

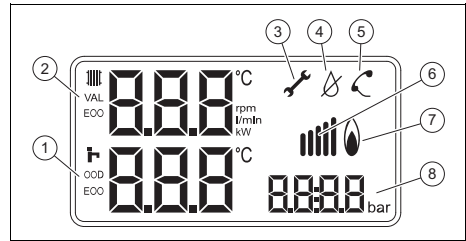
The product is a gas-fired wall-hung condensing boiler, which generates heat for heating and/or domestic hot water generation.

3.1 Control panel with control elements



- | | |
|---|--|
| 1 Operating mode button (<i>mode</i>) | 5 Heating flow temperature/domestic hot water temperature button |
| 2 On/off button | 6 Set the temperature rotary knob |
| 3 Reset button (<i>reset</i>) | |
| 4 Display | |

3.2 The product's display



- | | |
|----------------------------------|---------------------------------|
| 1 Domestic hot water temperature | 5 Inform the service department |
| 2 Heating flow temperature | 6 Modulation on |
| 3 Settings | 7 Burner on |
| 4 Fault: System pressure too low | 8 System pressure/fault code |

Symbol	Meaning
	Proper burner operation: Burner on
	System pressure: <ul style="list-style-type: none"> – Permanently on: System pressure in the permitted range – Flashing: System pressure outside the permitted range
	Domestic hot water mode: <ul style="list-style-type: none"> – Permanently on: Domestic hot water mode activated – Flashing: Domestic hot water mode activated and draw-off requirement
	Heating mode <ul style="list-style-type: none"> – Permanently on: Heating mode activated – Flashing: Heating mode activated and draw-off requirement
F.XX	Fault code
S.XX	Status code

3.3 Frost protection function



Caution. **Risk of material damage due to frost.**

The frost protection function cannot guarantee flow through the entire heating installation, which means that parts of the heating installation may freeze and therefore become damaged.

- ▶ During a period of frost, ensure that the heating installation remains in operation and that all rooms are sufficiently heated, even when you are away.

For the frost protection function to remain active, the power supply must not be interrupted and the gas stopcock must not be closed.


If the heating flow temperature falls below 8 °C, the frost protection function starts up the heating pump. Once the heating flow temperature exceeds 10 °C or has already reached 35 °C, the heating pump is stopped again. If, after 30 minutes, the heating flow temperature has not exceeded 10 °C, the product starts up (burner starts) in order to increase the heating flow temperature back to 35 °C.

If the heating flow temperature falls below 5 °C, the product starts up (burner starts) and heats the circulating water on both the heating side and the domestic hot water side (if available) to 35 °C.

When the unit is switched off for an extended period, frost protection can be guaranteed only by completely draining the heating installation and the product. The heating installation must be drained by a competent person.

3.4 Information on the data plate

The data plate is attached to the inside of the electronics box at the factory.

Information on the data plate	Meaning
24/28/35	Nominal heat output
V	Mains voltage
Hz	Mains frequency
W	Maximum electrical power consumption
NOx Class	NOx class (nitrogen oxide emissions)
IP X4 D	IP rating
II _{2H3P}	Approved gas boiler category
C13, C33, C43, C53, C83, B23, B23P, B33	Unit types
CH	Heating mode
PMS	Permissible operating pressure, heating mode
DHW	DHW mode
PMW	Permissible operating pressure for domestic hot water generation
	Barcode with serial number 3rd to 6th digits = production date (year/week) 7th to 16th digit = product article number

3.5 CE marking





The CE marking shows that the products comply with the basic requirements of the applicable directives as stated on the declaration of conformity.

The declaration of conformity can be viewed at the manufacturer's site.

4 Operation

4.1 Operating concept

Control element	Function
mode	<ul style="list-style-type: none">– Select the operating mode (winter mode, summer mode, standby)– Confirming the value
	Switching the product on/off
reset	Reset the product
	Changing/saving the heating flow temperature/domestic hot water temperature
Rotary knob	<ul style="list-style-type: none">– Setting the heating flow temperature/domestic hot water temperature– Selecting the status code/fault code

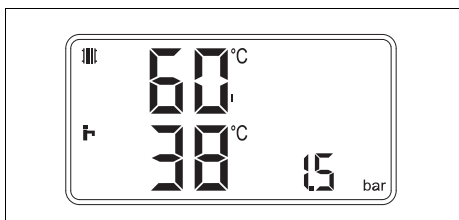
The display lighting lights up when you switch the product on or press a button.

Adjustable values flash in the display.

If you do not press any buttons for five seconds, the displays switches back to the basic display.

The display lighting automatically switches off if you do not press any buttons for one minute.

4.1.1 Basic display



The basic display shows the current condition of the product. The system pressure and operating mode are shown in the display.

The functions that are available depend on whether a control is connected to the product.

If a fault message is present, the basic display switches to the fault code.

4.1.2 Operating levels

The product has two operating levels:


- The end user level shows the information and offers setting options which do not require any special prior knowledge.
- The installer level must only be operated by persons with expertise and is therefore protected by a code.

End user level (→ Page 15)

4.2 Opening the isolators



1. Ask the competent person who installed the product to explain to you where these isolators are located and how to handle them.
2. Open the gas stopcock installed on-site.
3. Open the product's gas isolator cock that is installed on-site.
4. Open the service valves in the heating installation's flow and return.
5. Open the cold-water isolation valve.

4.3 Switching on the product

- ▶ Press .
- ◀ The display shows the basic display.







4.4 Setting the operating mode

- ▶ Press **mode** repeatedly until the display shows the required operating mode.







Symbol	Operating mode
	Winter mode/heating flow temperature
	Summer mode/domestic hot water temperature

4.5 Setting the heating flow temperature

Condition: No control connected

- ▶ Use the **mode** button to set the winter operating mode: The display shows both symbols  and .
- ▶ Press  /  repeatedly until the symbol flashes in the display.
- ▶ Change the heating flow temperature using the rotary knob.
- ▶ Press  /  twice or wait for a few seconds in order to save the set temperature.





Condition: Control connected



- ▶ Use the **mode** button to set the winter operating mode: The display shows both symbols  and .
- ▶ Press  /  repeatedly until the symbol flashes in the display.
- ▶ Change the heating flow temperature using the rotary knob.
- ▶ Set the product's temperature to the maximum value.
- ▶ Use the control to set the desired temperature (→ Control operating instructions).
- ▶ Press  /  twice or wait for a few seconds in order to save the set temperature.

4.6 Setting the domestic hot water generation







4.6.1 Setting the domestic hot water temperature

Condition: No control connected

- ▶ Use the **mode** button to set the winter operating mode: The display shows both symbols  and .
- ▶ Press  /  repeatedly until the symbol flashes in the display.
- ▶ Change the heating flow temperature using the rotary knob.

- ▶ Press  /  twice or wait for a few seconds in order to save the set temperature.

Condition: Control connected

- ▶ Use the **mode** button to set the winter operating mode: The display shows both symbols  and .
- ▶ Press  /  repeatedly until the symbol flashes in the display.
- ▶ Change the heating flow temperature using the rotary knob.
- ▶ Set the product's temperature to the maximum value.
- ▶ Use the control to set the desired temperature (→ Control operating instructions).
- ▶ Press  /  twice or wait for a few seconds in order to save the set temperature.

5 Care and maintenance

5.1 Caring for the product

- ▶ Clean the casing with a damp cloth and a little solvent-free soap.
- ▶ Do not use sprays, scouring agents, detergents, solvents or cleaning agents that contain chlorine.

5.2 Maintenance

An annual inspection and biennial maintenance of the product carried out by a competent person is a prerequisite for ensuring that the product is permanently ready and safe for operation, reliable, and has a long service life. The inspection may require maintenance to be carried out earlier, depending on the results.

5.3 Guaranteeing the filling pressure of the heating installation

5.3.1 Checking the filling pressure of the heating installation



Note

The filling pressure must be between 0.1 MPa and 0.15 MPa (1.0 bar and 1.5 bar) when the heating installation is cold in order for the heating installation to operate properly.

If the heating installation extends over several storeys, a higher filling pressure may be required for the heating installation. Ask a competent person for details.

If the filling pressure in the heating installation falls below 0.04 MPa (0.4 bar), the product switches off. The fault message **F.22** appears in the display.

- ▶ Check the filling pressure in the display.

Result 1:

System pressure: 0.1 to 0.15 MPa (1.0 to 1.50 bar)

The filling pressure is in the intended pressure range.

Result 2:

Filling pressure: < 0.1 MPa (< 1.0 bar)

- ▶ Fill the heating installation.
(→ Page 12)
 - ◁ If you have topped up the installation with sufficient heating water, the display automatically disappears.

5.3.2 Filling the heating installation



Caution.

Risk of material damage due to heating water that is extremely calciferous or corrosive or contaminated by chemicals.

Unsuitable tap water damages the seals and diaphragms, blocks components in the product and heating installation through which the water flows and causes noise.

- ▶ Only fill the heating installation with suitable heating water.
- ▶ In case of doubt, ask a competent person for details.



Note

The competent person is responsible for filling the heating installation the first time.

1. Open all radiator valves (thermostatic valves) of the heating installation.
2. Turn the filling tap on slowly and allow water to flow in until the required system pressure has been reached.
3. Purge all radiators.
4. Check the filling pressure of the heating installation. (→ Page 12)
5. Top up with more water if required.
6. Close the filling tap.

5.4 Checking the condensate discharge pipe and tundish

The condensate discharge pipe and tundish must always be penetrable.

- ▶ Regularly check the condensate discharge pipe and tundish for faults and, particularly, for blockages.

You must not be able to see or feel any obstructions in the condensate discharge pipe and tundish.

- ▶ If you notice a fault, have it eliminated by a competent person.

6 Troubleshooting

6.1 Eliminating faults

1. If fault messages (**F.xx**) occur, proceed as set out in the "Fault codes" table in the appendix.
Troubleshooting (→ Page 16)
2. If you have been unable to eliminate the fault using the specified measures, consult a competent person.

6.2 Eliminating faults

1. If faults occur, proceed in accordance with the "Troubleshooting" table in the appendix.
2. If you have been unable to eliminate the faults using the specified measures, consult a competent person.

7 Decommissioning

7.1 Temporarily decommissioning the product



Note

To guarantee the frost protection function, do not disconnect the product from the power supply.

1. Press .
◀ The product is in standby mode.

Condition: Frost is not expected

- ▶ When decommissioning the product for an extended period (e.g. holiday), close the gas stopcock.

Condition: Frost is expected

- ▶ Leave the gas stopcock open.
2. When decommissioning the unit for an extended period (e.g. holiday), close the cold-water isolation valve on combi products.

7.2 Permanently decommissioning the product

- ▶ Have a competent person permanently decommission the product.

8 Recycling and disposal

- ▶ The competent person who installed your product is responsible for the disposal of the packaging.

Disposing of the product



■ If the product is labelled with this mark:

- ▶ In this case, do not dispose of the product with the household waste.
- ▶ Instead, hand in the product to a collection centre for waste electrical or electronic equipment.

Disposing of batteries



■ If the product contains batteries that are labelled with this mark:

- ▶ In this case, dispose of the batteries at a collection point for batteries.
 - ◁ **Prerequisite:** The batteries can be removed from the product without causing any destruction. Otherwise, the batteries are disposed of together with the product.
- ▶ In accordance with the legal regulations, used batteries must be returned since batteries may contain substances that are harmful to health and the environment.

9 Guarantee and customer service

9.1 Guarantee

Validity: Azerbaijan

İstehsalçının zəmanəti ilə bağlı məlumatı arxa tərəfdəki ünvandan əldə edə bilərsiniz.

9.2 Customer service

Validity: Azerbaijan AND DemirDöküm

Müştəri xidməti ilə bağlı məlumatı arxa tərəfdəki ünvandan və ya www.demirdokum.com.tr saytından əldə edə bilərsiniz.

Appendix

A End user level

Setting level	Values		Unit	Increment, select, explanation	Default setting
	Min.	Max.			
Heating mode					
Heating flow temperature	Current value		°C	Underfloor heating = 35-50 Radiator = 35-68	
	35	68			
DHW mode					
Domestic hot water temperature	Current value		°C		
	35	65			

B Status codes

Code	Meaning
S.00	Heating has no heat demand. The burner is off.
S.01	The fan start-up for heating mode is activated.
S.02	The pump prerun for heating mode is activated.
S.03	The ignition for heating mode is activated.
S.04	The burner for heating mode is activated.
S.05	The pump and fan overrun for heating mode is activated.
S.06	The fan overrun for heating mode is activated.
S.07	The pump overrun for heating mode is activated.
S.08	The anti-cycling time for heating mode is activated.
S.10	The domestic hot water demand is activated.
S.11	The fan start-up for domestic hot water mode is activated.
S.12	The pump prerun for domestic hot water mode is activated.
S.13	The ignition for domestic hot water mode is activated.
S.14	The burner for domestic hot water mode is activated.
S.15	The pump and fan overrun for domestic hot water mode is activated.
S.16	The fan overrun for domestic hot water mode is activated.
S.17	The pump overrun for domestic hot water mode is activated.
S.20	The domestic hot water demand is activated.
S.21	The fan start-up for domestic hot water mode is activated.
S.23	The ignition for domestic hot water mode is activated.
S.24	The burner for domestic hot water mode is activated.
S.25	The pump and fan overrun for domestic hot water mode is activated.
S.26	The fan overrun for domestic hot water mode is activated.
S.27	The pump overrun for domestic hot water mode is activated.
S.28	The burner anti-cycling time for domestic hot water mode is activated.
S.30	Room thermostat blocks heating mode.
S.31	The summer mode is activated or the eBUS control is blocking the heating mode.
S.34	The frost protection function is activated.

C Troubleshooting

Code/meaning	Possible cause	Measure
F.22 System pressure too low	The system pressure is too low. Water deficiency in the heating installation.	▶ Fill the heating installation. (→ Page 12)
F.28 Ignition unsuccessful	After two unsuccessful ignition attempts, the product has switched to fault mode.	<ol style="list-style-type: none"> 1. Check whether the gas isolator cock is open. 2. Press and hold the reset button for one second. <ul style="list-style-type: none"> – Reset attempts: ≤ 3 3. If you have been unable to eliminate the ignition fault after the reset attempt, consult a competent person.

D Troubleshooting

Symptom	Possible cause	Measure
Product does not start up (no hot water, heating remains cold)	The gas stopcock installed on-site and/or the gas stopcock on the product is closed.	▶ Open both gas stopcocks.
	The cold-water isolation valve is closed.	▶ Open the cold-water isolation valve.
	The power supply in the building is disconnected.	▶ Check the fuse in the building. The product automatically switches back on when the power supply is restored.
	The product is switched off.	▶ Switch on the product. (→ Page 24)
	The heating flow temperature/domestic hot water temperature is set too low.	<ol style="list-style-type: none"> 1. Set the heating flow temperature. (→ Page 11) 2. Set the domestic hot water temperature. (→ Page 11)
	There is air in the heating installation.	▶ Have a competent person purge the heating installation.
Domestic hot water generation functioning correctly; heating does not start up	The external control is not set correctly.	▶ Set the external control correctly (→Control operating instructions).

Operating instructions

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1 Safety

1.1 Action-related warnings

Classification of action-related warnings

The action-related warnings are classified in accordance with the severity of the possible danger using the following warning symbols and signal words:

Warning symbols and signal words



Danger!

Imminent danger to life or risk of severe personal injury



Danger!

Risk of death from electric shock



Warning.

Risk of minor personal injury



Caution.

Risk of material or environmental damage

1.2 Intended use

There is a risk of injury or death to the user or others, or of damage to the product and other property in the event of improper use or use for which it is not intended.

The product is intended as a heat generator for sealed heat-

ing installations and for domestic hot water generation.

Intended use includes the following:

- observance of the operating instructions included for the product and any other installation components
- compliance with all inspection and maintenance conditions listed in the instructions.

This product 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 product in a safe way and understand the hazards involved. Children must not play with the product. Cleaning and user maintenance work must not be carried out by children unless they are supervised.

Any other use that is not specified in these instructions, or use beyond that specified in this document, shall be considered improper use. Any direct commercial or industrial use is also deemed to be improper.

Caution.

Improper use of any kind is prohibited.

1.3 General safety information

1.3.1 Danger caused by improper operation

Improper operation may present a danger to you and others, and cause material damage.

- ▶ Carefully read the enclosed instructions and all other applicable documents, particularly the "Safety" section and the warnings.
- ▶ Only carry out the activities for which instructions are provided in these operating instructions.

1.3.2 Risk of death from escaping gas

What to do if you smell gas in the building:

- ▶ Avoid rooms that smell of gas.
- ▶ If possible, open doors and windows fully and ensure adequate ventilation.
- ▶ Do not use naked flames (e.g. lighters, matches).
- ▶ Do not smoke.
- ▶ Do not use any electrical switches, mains plugs, doorbells, telephones or other communication systems in the building.
- ▶ Close the emergency control valve or the main isolator.

- ▶ If possible, close the gas stopcock on the product.
- ▶ Warn other occupants in the building by yelling or banging on doors or walls.
- ▶ Leave the building immediately and ensure that others do not enter the building.
- ▶ Alert the police and fire brigade as soon as you are outside the building.
- ▶ Use a telephone outside the building to inform the emergency service department of the gas supply company.

1.3.3 Risk of death due to blocked or leaking flue pipework

What to do if you smell flue gas in the property:

- ▶ Open all accessible doors and windows fully to provide ventilation.
- ▶ Switch off the product.
- ▶ Inform a competent person.

1.3.4 Risk of death due to explosive and flammable materials

- ▶ Do not use the product in storage rooms that contain explosive or flammable substances (such as petrol, paper or paint).

1.3.5 Risk of death due to changes to the product or the product environment

- ▶ Never remove, bridge or block the safety devices.
- ▶ Do not tamper with any of the safety devices.
- ▶ Do not damage or remove any tamper-proof seals on components.
- ▶ Do not make any changes:
 - The product itself
 - to the gas, supply air, water and electricity supply lines
 - to the entire flue system
 - to the entire condensate discharge system
 - to the expansion relief valve
 - to the drain pipework
 - to constructional conditions that may affect the operational reliability of the product

1.3.6 Risk of poisoning caused by insufficient combustion air supply

Condition: Open-flued operation

- ▶ Ensure that there is a sufficient combustion air supply.

1.3.7 Risk of corrosion damage due to unsuitable combustion and room air

Sprays, solvents, chlorinated cleaning agents, paint, adhesives, ammonia compounds, dust or similar substances may lead to corrosion on the product and in the air/flue pipe.

- ▶ Ensure that the combustion air supply is always free of fluorine, chlorine, sulphur, dust, etc.
- ▶ Ensure that no chemical substances are stored at the installation site.


1.3.8 Risk of death due to cupboard installation

Cupboard installation can give rise to dangerous situations when used with a product which is operated with an open flue.

- ▶ Never, under any circumstances, enclose the product yourself.
- ▶ If you require cupboard installation for the product, consult an approved installation company.

1.3.9 Risk of material damage caused by frost

- ▶ Ensure that the heating installation always remains in operation during freezing con-



ditions and that all rooms are sufficiently heated.

- ▶ If you cannot ensure the operation, have a competent person drain the heating installation.

1.3.10 Risk of injury and material damage due to maintenance and repairs carried out incorrectly or not carried out at all

- ▶ Never attempt to carry out maintenance work or repairs on your product yourself.
- ▶ Faults and damage should be immediately eliminated by a competent person.
- ▶ Adhere to the maintenance intervals specified.

2 Notes on the documentation

2.1 Observing other applicable documents

- ▶ Always observe all operating instructions enclosed with the installation components.

2.2 Storing documents

- ▶ Store these instructions and all other applicable documents for further use.

2.3 Validity of the instructions

These instructions apply only to:

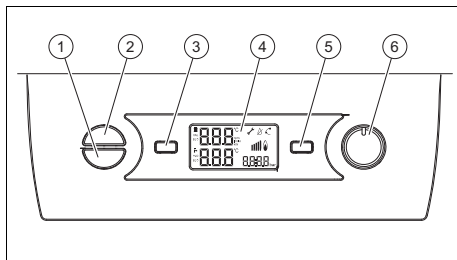
Product article number

	Article number
Nitromix P 24 (NG), GE	0010048330
Nitromix P 28 (NG), GE	0010048331
Nitromix P 35 (NG), GE	0010048332

3 Product description

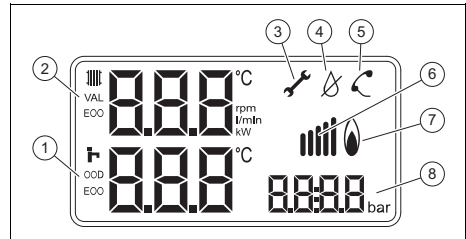
The product is a gas-fired wall-hung condensing boiler, which generates heat for heating and/or domestic hot water generation.

3.1 Control panel with control elements



- | | |
|---|--|
| 1 Operating mode button (<i>mode</i>) | 5 Heating flow temperature/domestic hot water temperature button |
| 2 On/off button | 6 Set the temperature rotary knob |
| 3 Reset button (<i>reset</i>) | |
| 4 Display | |

3.2 The product's display



- | | |
|----------------------------------|---------------------------------|
| 1 Domestic hot water temperature | 5 Inform the service department |
| 2 Heating flow temperature | 6 Modulation on |
| 3 Settings | 7 Burner on |
| 4 Fault: System pressure too low | 8 System pressure/fault code |

Symbol	Meaning
	Proper burner operation: Burner on
	System pressure: <ul style="list-style-type: none"> – Permanently on: System pressure in the permitted range – Flashing: System pressure outside the permitted range
	Domestic hot water mode: <ul style="list-style-type: none"> – Permanently on: Domestic hot water mode activated – Flashing: Domestic hot water mode activated and draw-off requirement
	Heating mode <ul style="list-style-type: none"> – Permanently on: Heating mode activated – Flashing: Heating mode activated and draw-off requirement
F.XX	Fault code
S.XX	Status code

3.3 Frost protection function



Caution. **Risk of material damage due to frost.**

The frost protection function cannot guarantee flow through the entire heating installation, which means that parts of the heating installation may freeze and therefore become damaged.

- ▶ During a period of frost, ensure that the heating installation remains in operation and that all rooms are sufficiently heated, even when you are away.

For the frost protection function to remain active, the power supply must not be interrupted and the gas stopcock must not be closed.


If the heating flow temperature falls below 8 °C, the frost protection function starts up the heating pump. Once the heating flow temperature exceeds 10 °C or has already reached 35 °C, the heating pump is stopped again. If, after 30 minutes, the heating flow temperature has not exceeded 10 °C, the product starts up (burner starts) in order to increase the heating flow temperature back to 35 °C.

If the heating flow temperature falls below 5 °C, the product starts up (burner starts) and heats the circulating water on both the heating side and the domestic hot water side (if available) to 35 °C.

When the unit is switched off for an extended period, frost protection can be guaranteed only by completely draining the heating installation and the product. The heating installation must be drained by a competent person.

3.4 Information on the data plate

The data plate is attached to the inside of the electronics box at the factory.

Information on the data plate	Meaning
24/28/35	Nominal heat output
V	Mains voltage
Hz	Mains frequency
W	Maximum electrical power consumption
NOx Class	NOx class (nitrogen oxide emissions)
IP X4 D	IP rating
II _{2H3P}	Approved gas boiler category
C13, C33, C43, C53, C83, B23, B23P, B33	Unit types
CH	Heating mode
PMS	Permissible operating pressure, heating mode
DHW	DHW mode
PMW	Permissible operating pressure for domestic hot water generation
	Barcode with serial number 3rd to 6th digits = production date (year/week) 7th to 16th digit = product article number

3.5 CE marking





The CE marking shows that the products comply with the basic requirements of the applicable directives as stated on the declaration of conformity.

The declaration of conformity can be viewed at the manufacturer's site.

4 Operation

4.1 Operating concept

Control element	Function
mode	<ul style="list-style-type: none"> Select the operating mode (winter mode, summer mode, standby) Confirming the value
	Switching the product on/off
reset	Reset the product
	Changing/saving the heating flow temperature/domestic hot water temperature
Rotary knob	<ul style="list-style-type: none"> Setting the heating flow temperature/domestic hot water temperature Selecting the status code/fault code

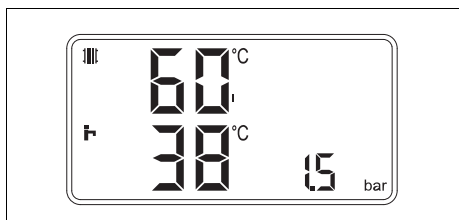
The display lighting lights up when you switch the product on or press a button.

Adjustable values flash in the display.

If you do not press any buttons for five seconds, the displays switches back to the basic display.

The display lighting automatically switches off if you do not press any buttons for one minute.

4.1.1 Basic display



The basic display shows the current condition of the product. The system pressure and operating mode are shown in the display.

The functions that are available depend on whether a control is connected to the product.

If a fault message is present, the basic display switches to the fault code.

4.1.2 Operating levels

The product has two operating levels:


- The end user level shows the information and offers setting options which do not require any special prior knowledge.
- The installer level must only be operated by persons with expertise and is therefore protected by a code.

End user level (→ Page 29)

4.2 Opening the isolators



- Ask the competent person who installed the product to explain to you where these isolators are located and how to handle them.
- Open the gas stopcock installed on-site.
- Open the product's gas isolator cock that is installed on-site.
- Open the service valves in the heating installation's flow and return.
- Open the cold-water isolation valve.

4.3 Switching on the product

- Press .
 - The display shows the basic display.







4.4 Setting the operating mode

- Press **mode** repeatedly until the display shows the required operating mode.







Symbol	Operating mode
	Winter mode/heating flow temperature
	Summer mode/domestic hot water temperature

4.5 Setting the heating flow temperature

Condition: No control connected

- ▶ Use the **mode** button to set the winter operating mode: The display shows both symbols  and .
- ▶ Press  /  repeatedly until the symbol flashes in the display.
- ▶ Change the heating flow temperature using the rotary knob.
- ▶ Press  /  twice or wait for a few seconds in order to save the set temperature.





Condition: Control connected



- ▶ Use the **mode** button to set the winter operating mode: The display shows both symbols  and .
- ▶ Press  /  repeatedly until the symbol flashes in the display.
- ▶ Change the heating flow temperature using the rotary knob.
- ▶ Set the product's temperature to the maximum value.
- ▶ Use the control to set the desired temperature (→ Control operating instructions).
- ▶ Press  /  twice or wait for a few seconds in order to save the set temperature.

4.6 Setting the domestic hot water generation







4.6.1 Setting the domestic hot water temperature

Condition: No control connected

- ▶ Use the **mode** button to set the winter operating mode: The display shows both symbols  and .
- ▶ Press  /  repeatedly until the symbol flashes in the display.
- ▶ Change the heating flow temperature using the rotary knob.

- ▶ Press  /  twice or wait for a few seconds in order to save the set temperature.

Condition: Control connected

- ▶ Use the **mode** button to set the winter operating mode: The display shows both symbols  and .
- ▶ Press  /  repeatedly until the symbol flashes in the display.
- ▶ Change the heating flow temperature using the rotary knob.
- ▶ Set the product's temperature to the maximum value.
- ▶ Use the control to set the desired temperature (→ Control operating instructions).
- ▶ Press  /  twice or wait for a few seconds in order to save the set temperature.

5 Care and maintenance

5.1 Caring for the product

- ▶ Clean the casing with a damp cloth and a little solvent-free soap.
- ▶ Do not use sprays, scouring agents, detergents, solvents or cleaning agents that contain chlorine.

5.2 Maintenance

An annual inspection and biennial maintenance of the product carried out by a competent person is a prerequisite for ensuring that the product is permanently ready and safe for operation, reliable, and has a long service life. The inspection may require maintenance to be carried out earlier, depending on the results.

5.3 Guaranteeing the filling pressure of the heating installation

5.3.1 Checking the filling pressure of the heating installation



Note

The filling pressure must be between 0.1 MPa and 0.15 MPa (1.0 bar and 1.5 bar) when the heating installation is cold in order for the heating installation to operate properly.

If the heating installation extends over several storeys, a higher filling pressure may be required for the heating installation. Ask a competent person for details.

If the filling pressure in the heating installation falls below 0.04 MPa (0.4 bar), the product switches off. The fault message **F.22** appears in the display.

- ▶ Check the filling pressure in the display.

Result 1:

System pressure: 0.1 to 0.15 MPa (1.0 to 1.50 bar)

The filling pressure is in the intended pressure range.

Result 2:

Filling pressure: < 0.1 MPa (< 1.0 bar)

- ▶ Fill the heating installation.
(→ Page 26)
 - ◁ If you have topped up the installation with sufficient heating water, the display automatically disappears.

5.3.2 Filling the heating installation



Caution.

Risk of material damage due to heating water that is extremely calciferous or corrosive or contaminated by chemicals.

Unsuitable tap water damages the seals and diaphragms, blocks components in the product and heating installation through which the water flows and causes noise.

- ▶ Only fill the heating installation with suitable heating water.
- ▶ In case of doubt, ask a competent person for details.



Note

The competent person is responsible for filling the heating installation the first time.

1. Open all radiator valves (thermostatic valves) of the heating installation.
2. Turn the filling tap on slowly and allow water to flow in until the required system pressure has been reached.
3. Purge all radiators.
4. Check the filling pressure of the heating installation. (→ Page 26)
5. Top up with more water if required.
6. Close the filling tap.

5.4 Checking the condensate discharge pipe and tundish

The condensate discharge pipe and tundish must always be penetrable.

- ▶ Regularly check the condensate discharge pipe and tundish for faults and, particularly, for blockages.

You must not be able to see or feel any obstructions in the condensate discharge pipe and tundish.

- ▶ If you notice a fault, have it eliminated by a competent person.

6 Troubleshooting

6.1 Eliminating faults

1. If fault messages (**F.xx**) occur, proceed as set out in the "Fault codes" table in the appendix.
Troubleshooting (→ Page 30)
2. If you have been unable to eliminate the fault using the specified measures, consult a competent person.

6.2 Eliminating faults

1. If faults occur, proceed in accordance with the "Troubleshooting" table in the appendix.
2. If you have been unable to eliminate the faults using the specified measures, consult a competent person.

7 Decommissioning

7.1 Temporarily decommissioning the product



Note

To guarantee the frost protection function, do not disconnect the product from the power supply.

1. Press .
◀ The product is in standby mode.

Condition: Frost is not expected

- ▶ When decommissioning the product for an extended period (e.g. holiday), close the gas stopcock.

Condition: Frost is expected

- ▶ Leave the gas stopcock open.
2. When decommissioning the unit for an extended period (e.g. holiday), close the cold-water isolation valve on combi products.

7.2 Permanently decommissioning the product

- ▶ Have a competent person permanently decommission the product.

8 Recycling and disposal

- ▶ The competent person who installed your product is responsible for the disposal of the packaging.

Disposing of the product



■ If the product is labelled with this mark:

- ▶ In this case, do not dispose of the product with the household waste.
- ▶ Instead, hand in the product to a collection centre for waste electrical or electronic equipment.

Disposing of batteries



■ If the product contains batteries that are labelled with this mark:

- ▶ In this case, dispose of the batteries at a collection point for batteries.
 - ◁ **Prerequisite:** The batteries can be removed from the product without causing any destruction. Otherwise, the batteries are disposed of together with the product.
- ▶ In accordance with the legal regulations, used batteries must be returned since batteries may contain substances that are harmful to health and the environment.

9 Guarantee and customer service

9.1 Guarantee

Validity: Georgia

დამამზადებლის გარანტიის შესახებ ინფორმაცია იხ. საკონტაქტო მისამართზე, რომელიც მითითებულია მეორე მხარეს.

9.2 Customer service

Validity: Georgia AND DemirDöküm

ჩვენი მომხმარებლის მხარდაჭერის სამსახურის თაობაზე საკონტაქტო ინფორმაცია იხ. მეორე მხარეს მოყვანილ მისამართზე ან მიყევით ბმულს: www.demirdokum.com.tr.

Appendix

A End user level

Setting level	Values		Unit	Increment, select, explanation	Default setting
	Min.	Max.			
Heating mode					
Heating flow temperature	Current value		°C	Underfloor heating = 35-50 Radiator = 35-68	
	35	68			
DHW mode					
Domestic hot water temperature	Current value		°C		
	35	65			

B Status codes

Code	Meaning
S.00	Heating has no heat demand. The burner is off.
S.01	The fan start-up for heating mode is activated.
S.02	The pump prerun for heating mode is activated.
S.03	The ignition for heating mode is activated.
S.04	The burner for heating mode is activated.
S.05	The pump and fan overrun for heating mode is activated.
S.06	The fan overrun for heating mode is activated.
S.07	The pump overrun for heating mode is activated.
S.08	The anti-cycling time for heating mode is activated.
S.10	The domestic hot water demand is activated.
S.11	The fan start-up for domestic hot water mode is activated.
S.12	The pump prerun for domestic hot water mode is activated.
S.13	The ignition for domestic hot water mode is activated.
S.14	The burner for domestic hot water mode is activated.
S.15	The pump and fan overrun for domestic hot water mode is activated.
S.16	The fan overrun for domestic hot water mode is activated.
S.17	The pump overrun for domestic hot water mode is activated.
S.20	The domestic hot water demand is activated.
S.21	The fan start-up for domestic hot water mode is activated.
S.23	The ignition for domestic hot water mode is activated.
S.24	The burner for domestic hot water mode is activated.
S.25	The pump and fan overrun for domestic hot water mode is activated.
S.26	The fan overrun for domestic hot water mode is activated.
S.27	The pump overrun for domestic hot water mode is activated.
S.28	The burner anti-cycling time for domestic hot water mode is activated.
S.30	Room thermostat blocks heating mode.
S.31	The summer mode is activated or the eBUS control is blocking the heating mode.
S.34	The frost protection function is activated.

C Troubleshooting

Code/meaning	Possible cause	Measure
F.22 System pressure too low	The system pressure is too low. Water deficiency in the heating installation.	▶ Fill the heating installation. (→ Page 26)
F.28 Ignition unsuccessful	After two unsuccessful ignition attempts, the product has switched to fault mode.	<ol style="list-style-type: none"> 1. Check whether the gas isolator cock is open. 2. Press and hold the reset button for one second. <ul style="list-style-type: none"> – Reset attempts: ≤ 3 3. If you have been unable to eliminate the ignition fault after the reset attempt, consult a competent person.

D Troubleshooting

Symptom	Possible cause	Measure
Product does not start up (no hot water, heating remains cold)	The gas stopcock installed on-site and/or the gas stopcock on the product is closed.	▶ Open both gas stopcocks.
	The cold-water isolation valve is closed.	▶ Open the cold-water isolation valve.
	The power supply in the building is disconnected.	▶ Check the fuse in the building. The product automatically switches back on when the power supply is restored.
	The product is switched off.	▶ Switch on the product. (→ Page 24)
	The heating flow temperature/domestic hot water temperature is set too low.	<ol style="list-style-type: none"> 1. Set the heating flow temperature. (→ Page 25) 2. Set the domestic hot water temperature. (→ Page 25)
	There is air in the heating installation.	▶ Have a competent person purge the heating installation.
Domestic hot water generation functioning correctly; heating does not start up	The external control is not set correctly.	▶ Set the external control correctly (→Control operating instructions).

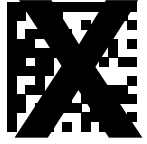
Supplier

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Publisher/manufacturere

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