



Bluehelix K 50

Wall-hung condensing boilers, combi storage


ferrolli

> EFFICIENCY, RATIONAL & ROBUST CONSTRUCTION

New series of condensing boilers designed by FERROLI to comply with the increasingly strict limits on energy consumption required by recent standards. This range of heat generators has been designed with the patented new AISI 316 Ti stainless steel heat exchanger, which guarantees **energy efficiency and performance** both in central heating mode and in the delivery of domestic hot water, **reaching the highest levels in the category.**



> RANGE

model 25K

FOR CENTRAL HEATING AND
DOMESTIC HOT WATER HEAT
PRODUCTION
HEAT INPUT 25 KW

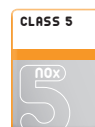
- > **Boiler body** with new **patented** primary heat exchanger, made from thick AISI 316 Ti stainless steel
- > **Instant** domestic hot water **production** with 50 litre stainless steel DHW storage tank
- > **Stainless steel total premix burner**
- > **Electronic flame modulation** in both central heating and domestic hot water mode
- > Digital control **panel**
- > Can be operated using the **modulating remote timer control**
- > **Modulating** central heating **pump**
- > **Elegant design and compact dimensions**
- > **Casing** painted white by anaphoresis using epoxy powder paint
- > **3-star certified comfort** for DHW production in accordance with EN 13203
- > **Temperature compensation** based on optional outside probe reading
- > **Digital flame control** with three attempts at re-ignition in the event of lockout when no flame is detected (natural gas model)
- > **Ready** for recirculation connections
- > **By-pass** as standard
- > **Place of installation:** outdoor installation in partially protected places down to -5°C as standard



Appliance suitable for operation in a **partially protected place** (EN 297 / A6) down to a minimum temperature of **-5°C as standard** and, if fitted with the special frost protection kit, down to -15°C



Remote control (ROMEO) for setting boiler parameters



Appliance rated as **class 5**, the most **ecological** rating defined the relevant European standards (EN 297 and 483)



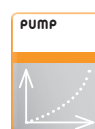
Patented monothermic primary exchanger in **AISI 316 Ti stainless steel**



Maximum **domestic hot water comfort**, 3-star certification according to EN 13203 Directive



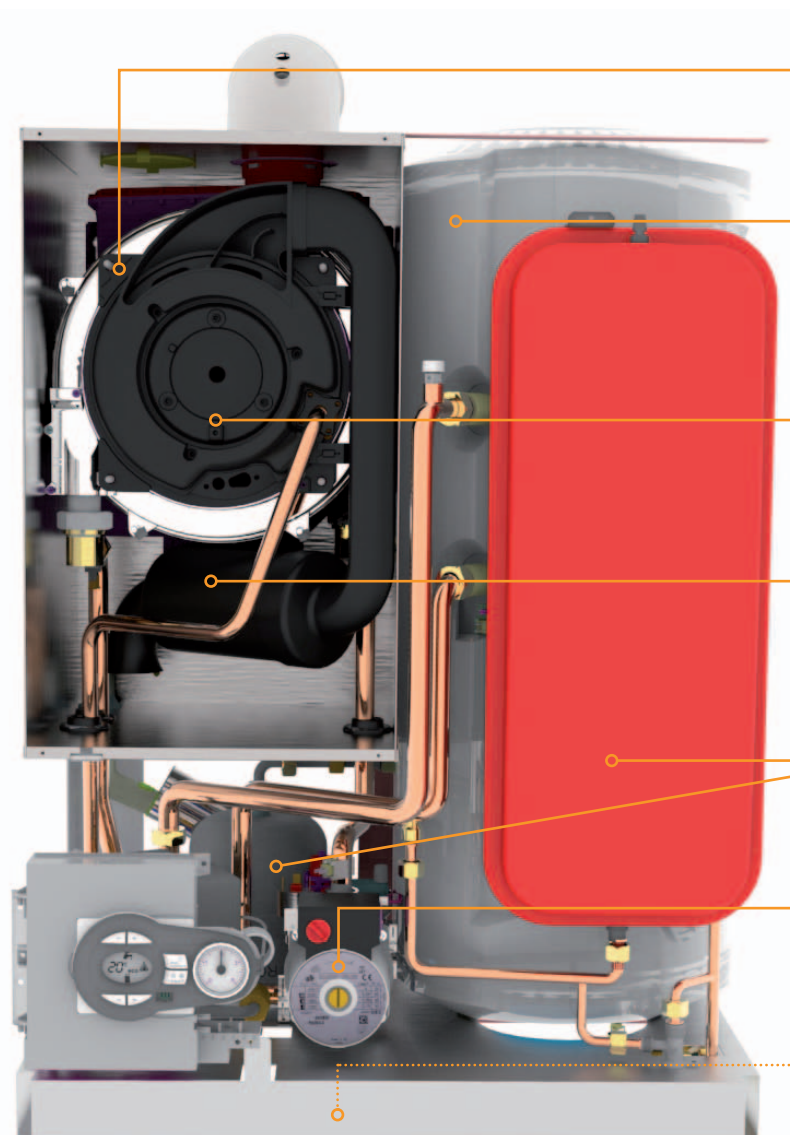
Possible connection to an optional outdoor probe, thus enabling **system flow temperature compensation**



Appliance fitted with **variable speed central heating pump**

> COMPONENTS

PRODUCT PLUSES



PRIMARY HEAT EXCHANGER

Patented, high efficiency, made from AISI 316 TI stainless steel

DHW STORAGE

AISI 316 stainless steel storage cylinder with coil, 50 litre capacity, completely insulated with polyurethane foam

PREMIX/BURNER ASSEMBLY

Integrated fan, air/gas premixer and stainless steel burner

SILENCER

Air intake duct with built-in silencer to minimise ambient noise

EXPANSION VESSELS

8 litres for the central heating circuit and 2 litres for the domestic hot water circuit

MODULATING CIRCULATING PUMP

Circulating pump that can adapt boiler heat input to actual system demand

CONCEALED WATER FITTINGS

Located inside the outline of the boiler. If they need to be totally concealed, a painted metal cover is available as a kit

HEAT EXCHANGER
MADE FROM AISI 316 TI
STAINLESS STEEL, HIGH
EFFICIENCY, RESISTANT
TO ACID CONDENSATE
FROM FLUE GAS, PATENTED

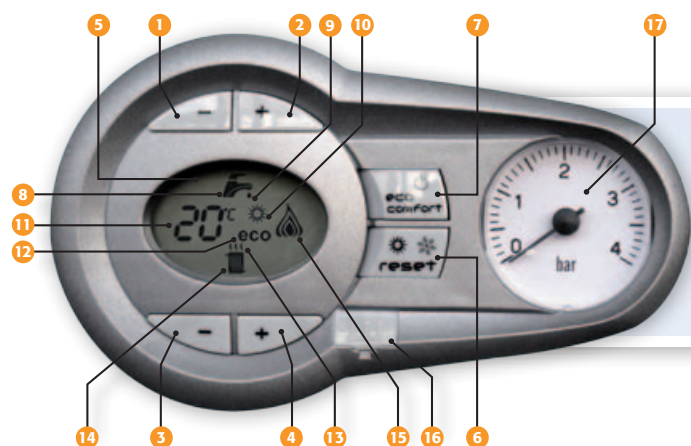


STAINLESS STEEL
BURNER WITH LARGE
SURFACE AREA AND
FRONT MICROFLAME



> **BOILER CONTROL** CONTROL PANEL AND FUNCTIONS

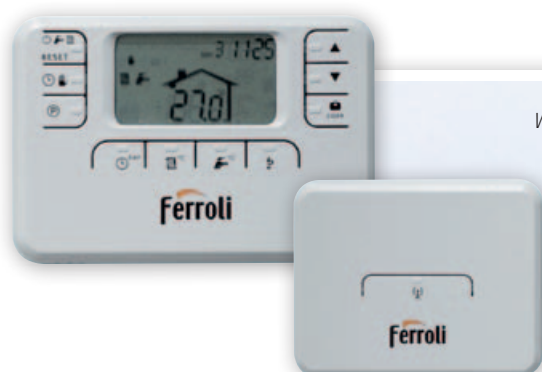
The BLUEHELIX K 50 control and management electronics allow the user to customise appliance operation and manage indoor comfort as desired. The pushbutton control panel and the simple LCD display make programming hot water production extremely easy and intuitive, both for domestic hot water and central heating.



1-2 Domestic hot water temperature control **3-4** Central heating temperature control **5** Display **6** Reset button/Summer-Winter mode selection/Temperature compensation menu **7** Economy-Comfort mode selection/Appliance on-off **8** Domestic hot water symbol **9** Domestic hot water operation indicator **10** Summer mode indicator **11** Multi-function indicator **12** Economy mode indicator **13** Heating function indicator **14** Heating symbol **15** Burner on indicator and current output level (flashing during exchanger protection function) **16** Service Tool connection **17** Pressure gauge

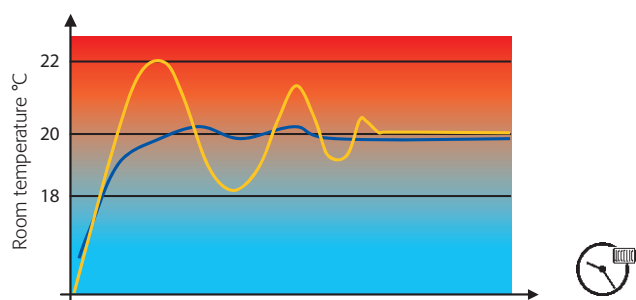
> **REMOTE CONTROL** "ROMEO": THE MODULATING COMFORT PLANNER

The BLUEHELIX K 50 boiler can be used with a wide range of remote timer controls to manage appliance operation from a distance. The ROMEO series features four models, with weekly or daily comfort programming respectively and the possibility for both to choose between wired or wireless connection.



WITH ROMEO YOU CAN

Set the central heating and domestic hot water temperature | Check boiler operating status | Display the temperature inside and outside the home | Restart the boiler if it temporarily shuts down | Program indoor comfort on a daily or weekly basis | Switch the central heating on or off over the phone



The modulating function available on ROMEO allows boiler output to be modulated progressively as it approaches the set room temperature. This improves comfort by eliminating peaks in heat output, and consequently ensures energy savings.

WITH ROMEO REMOTE CONTROL

WITH NON-MODULATING ROOM THERMOSTAT

> **COMFORT AND SAFETY** FUNCTIONS

The designers have developed a series of functions that guarantee domestic hot water quality and best delivery of power to the central heating system, combined with longer appliance life.

> **LEGIONELLA PROTECTION FUNCTION**

In order to ensure that the storage cylinder always operates in the right conditions to ensure hygiene, the electronic control unit heats the water to a temperature of 65°C at a set interval of one to seven days.

> **PUMP ANTI-SEIZE FUNCTION**

To prevent the central heating pump and the three-way selector valve from blocking and consequently suffering damage, after a set period of inactivity, the boiler's electronic control unit activates operation for some seconds.

> **FLOW TEMPERATURE COMPENSATION**

The "Outside probe" kit can be installed to operate the boiler with temperature compensation. This means that without using the buttons on the system's temperature controller, the boiler automatically adapts to the variations in the outside temperature. As a result this brings energy savings while still guaranteeing maximum comfort for the user.

> **FROST PROTECTION FUNCTION**

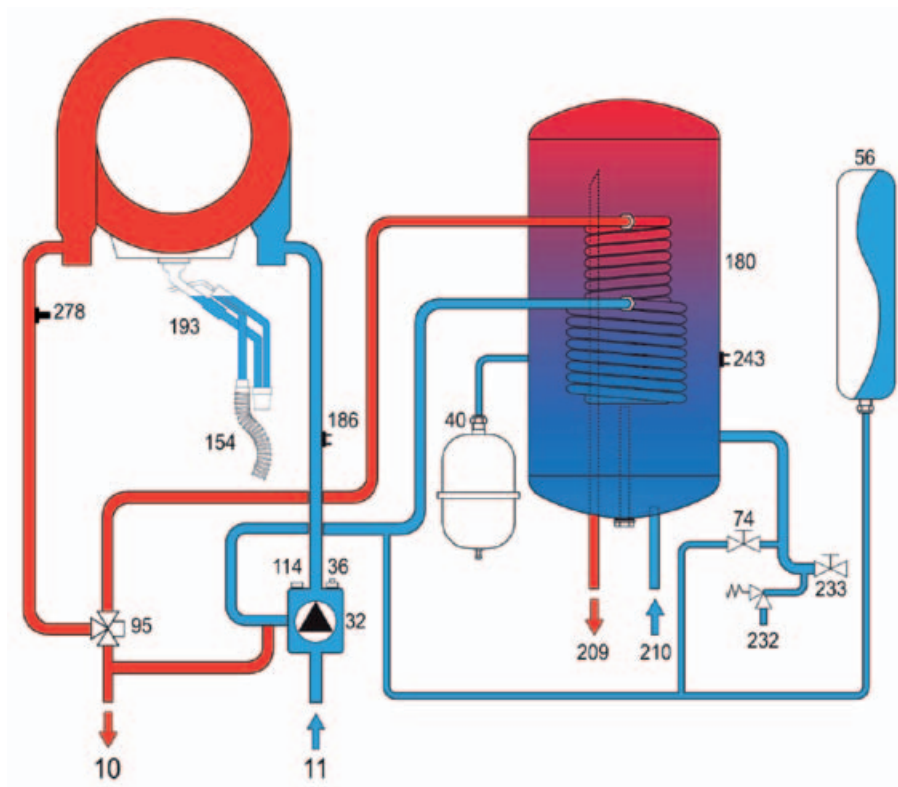
In case the temperature in the boiler drops to 5°C, the burner is automatically ignited, the three-way valve stops half-way servicing both domestic hot water and central heating, pump is also switched on. Thereby the appliance is protected against damages caused by frost. This function is active when the boiler is gas and power supplied.

> **ECONOMY/COMFORT FUNCTION**

By pressing the button provided, the user can disable heating/temperature maintenance (Economy mode). This reduces energy consumption during periods in which domestic hot water is not used.

> FEATURES

WATER CIRCUIT



KEY

- 10 Central heating flow outlet
- 11 Central heating return inlet
- 32 Central heating pump
- 36 Automatic air vent
- 40 Domestic hot water expansion vessel
- 56 Expansion vessel
- 74 Fill valve
- 95 Diverter valve
- 114 Water pressure switch
- 154 Condensate drain hose
- 180 Storage cylinder
- 186 Return sensor
- 193 Drain trap
- 209 Storage cylinder outlet
- 210 Storage cylinder return
- 232 Domestic hot water safety valve
- 233 Storage cylinder drain valve
- 243 Storage cylinder temperature sensor
- 278 Double sensor (Safety + Heating)

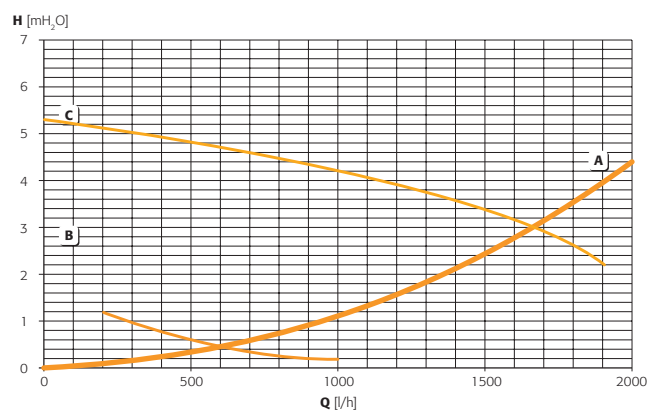
> TECHNICAL SPECIFICATIONS

SUMMARY TABLE

MODEL			25 K 50
Heat input	Min	kW	5,8
	Max Heating	kW	25,0
	Max DHW	kW	27,5
Heat output	80°C-60°C	Min	5,7
		Max Heating	24,5
		Max DHW	27,0
	50°C-30°C	Min	6,2
		Max Heating	26,5
		Max DHW	27,0
Useful thermal efficiency	80°C-60°C	Pmax %	98,0
		Pmin %	97,8
	50°C-30°C	Pmax %	106,1
		Pmin %	107,5
	Reduced load 30%	Pmax %	108,8
		Pmin %	107,5
Energy certification (92/42 EEC)			★★★★
NOx emissions class		class	5
Storage cylinder capacity		litres	50
Domestic hot water production	Δt 30°C	l/10 min	175
	Δt 30°C	l/h	820
Domestic hot water production (EN 13203)			★★★
Central heating operating pressure	Max	bar	3
Domestic hot water operating pressure	Max	bar	9
Empty weight		kg	50
Index of protection		IP	X5D

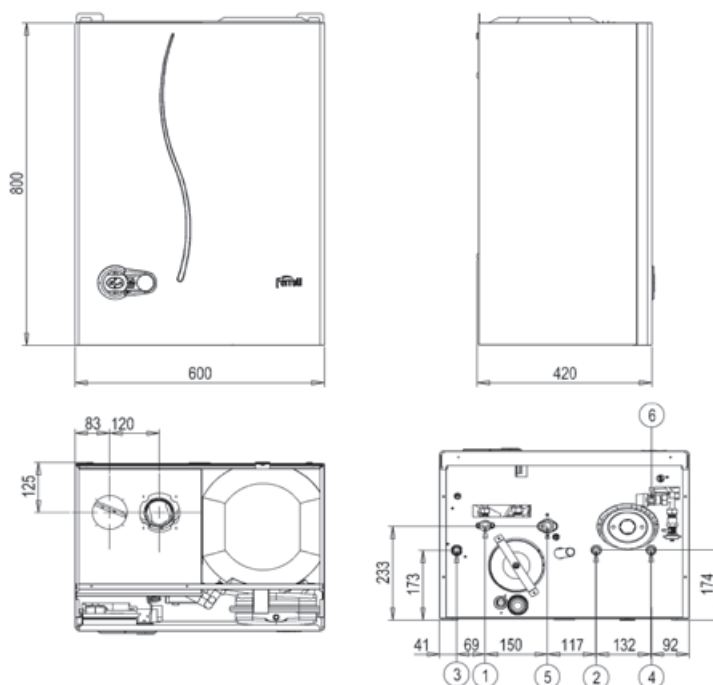
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PRESSURE DROP/HEAD DIAGRAMS - DIMENSIONS



A Boiler pressure drop
B Min circulating pump speed
C Max circulating pump speed

BLUEHELIX K 50



Top view

Bottom view

KEY

1 central heating flow outlet 3/4" dia. **2** DHW water outlet 1/2" dia. **3** gas inlet 1/2" dia. **4** DHW water inlet 1/2" dia. **5** central heating return inlet 3/4" dia. **6** central heating pressure relief valve



NOTICE FOR DEALERS:

As part of its efforts to constantly improve its range of products, with the aim of increasing the level of customer satisfaction, the company stresses that the appearance, dimensions, technical data and accessories may be subject to variation.

Consequently, ensure that the customer is provided with up-to-date technical and/or sales documents.

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