

Wall mounted gas condensing boiler, output range: 50 kW to 150 kW

Logamax plus GB272

Buderus

Heating systems
with a future.



The compact powerhouse.

After comprehensive professional surveys, we have brought together Buderus's tried-and-tested technology from the Logamax plus GB272 and newly developed features to form the new Logamax plus GB272 (50 to 150 kW). The new gas condensing boiler is suited to multi-family houses, public institutions and commercial buildings. Thanks to the thoughtfully designed and smart cascade configuration, system solutions are created in next to no time, even up to an output of 900 kW. The modular internal and external design of the appliance makes assembly, installation and subsequent maintenance straightforward.

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Climate protection
is worth it.

Regenerative upgrades are supported by the
government. We can advise you.

0800 0 2030 00

www.buderus.de/beg



Climate protection is twice as worthwhile.

The climate package adopted by the German government requires the reduction of “man-made” global warming to well below 2 °C compared to pre-industrial levels, and therefore a significant reduction in CO₂ emissions by 80 % or 95 % by 2050. Germany also has the interim target of reducing greenhouse gas emissions by 55 % by 2030. To achieve this, the government has now introduced even more attractive subsidy programmes.

The new German federal government subsidies for energy efficient buildings.

The new German federal government subsidies for efficient buildings, known as BEG, has replaced the existing programmes from the Credit Institute for Reconstruction (KfW) and the Federal Office of Economics and Export Control (BAFA) since 1st January 2021. Proven elements have been developed further and bundled into three sub-programmes, which is intended to make the subsidy programme easier to understand for citizens, companies and municipalities. This makes now a particularly good time for modernisation with new, future-proof heating systems with regenerative upgrades, since these are subsidised by the government.

Fit for the future with Buderus.

As a system expert, Buderus satisfies all requirements for climate protection in every respect. Our future-proof heating systems make a significant contribution towards achieving climate targets in an efficient and long-lasting way. We offer heating systems for every need which reduce CO₂ emissions – whether conventional or renewable. As a partner, we offer the right heating system for energy transition, whilst also providing you with everything else: Innovative overall solutions, intensive consulting and excellent service.



Logamax plus GB272

Logamax plus GB272
two-cascade

Designed by professionals for professionals.

The new wall mounted gas condensing boiler is versatile and convenient to install. It succeeds its predecessor Logamax plus GB162 in the output range from 50kW and is available in further output sizes of 70kW, 100kW, 125kW and 150kW. The Logamax plus GB272 reaches a maximum flow temperature of 85°C and can be used as a single appliance or as a gas condensing boiler cascade: Up to six appliances can be combined in a pre-assembled cascade unit with a total output of 900kW.

Innovative assembly concept.

The cascade can be installed quickly because no tools are needed to set up the modular cascade frame. To form a cascade, the individual condensing boilers are simply placed on the frame and inserted into the integrated support. The feet can be adjusted individually, enabling flexible adaptation to the situation in the installation location. The hydraulic lines are located in the interior – all required insulation is also supplied.

Sophisticated – inside and out.

With the new basic controller Logamatic BC30, you can quickly navigate using the menu and set parameters during the starting operation and maintenance. The full-colour display has been positioned ergonomically at eye level. The electric connections are easily accessible on the boiler – separate electrical connections are located on the bottom of the housing for the pump assemblies. The front cover can be removed in just one click.

New: Sustainable packaging.

It is not only the efficient and economic operation of the Logamax plus GB272 that helps the environment, but also its packaging made out of fully recyclable cardboard with a honeycomb structure – without polystyrene or plastic. So the heat generator arrives at its set-up site safely packaged.

Efficiency at the heart of everything.

The heat exchanger with ALU plus technology contributes to the wall mounted gas condensing boiler's cost-effective operation: With more than 98 % efficiency at full load, the Logamax plus GB272 is very energy efficient. Power consumption in standby mode is very low at two watts.

Heating and hot water generation as required.

The heating and hot water demand for a multi-family house, for example, can be covered efficiently, reliably and with a high level of convenience by connecting two gas condensing boilers in a cascade, which increases the output range. The cascade operates even more efficiently in combination with renewable energies, such as a solar thermal system for hot water generation or for combined potable water heating and central heating backup. Integrated into a renewable Buderus system, it only helps out as a reserve when solar heat alone is no longer sufficient.

Heat distribution with Logaflow HSM plus.

The modules from the Logaflow HSM plus hydraulic module facilitate efficient heat distribution according to demand in heating systems in multi-family houses, residential, commercial and industrial buildings. The modules are connected to the system control, such as Logamatic 5000, with a network cable and can also be integrated into external building management system via the standard Modbus interface. The compact design ensures fast assembly. The control cabinet is fully wired.



Logaflow HSM plus HG65 with PL32

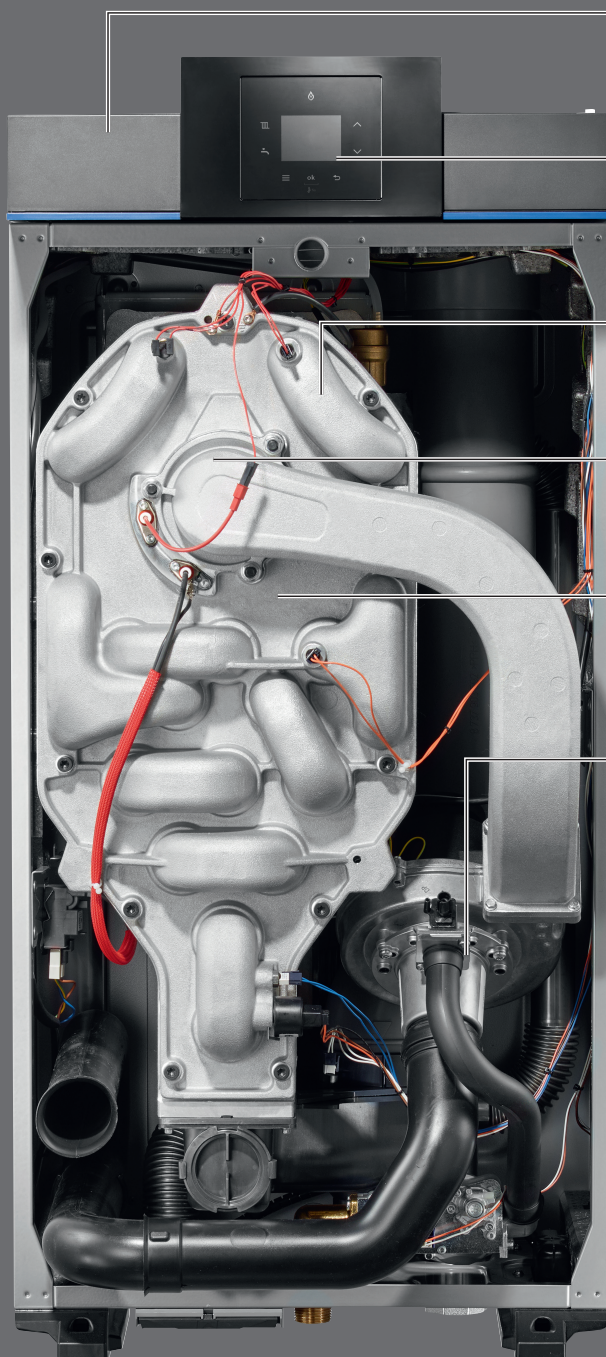


Heat exchanger with ALU plus technology.

High-quality Buderus condensing boilers operate with cast aluminium heat exchangers with an ALU plus surface finish. The surface finish reduces dirt deposits and combustion residue – for lower maintenance costs and a long service life. That is why Buderus gives 10 years of warranty on heat exchangers.

You can find the detailed warranty conditions at: www.buderus.de/de/10-jahre-waermetauschergarantie

Technology in detail.



All electrical connections are accessible from above.

The Logamatic BC30 basic controller provides you with all the important information at a glance – digitally and in colour.

The 150 kW heat exchanger guarantees an even higher output.

The gas premix burner is suitable for natural gas and liquid gas.

Heat exchanger with ALU plus technology and surface finish for a longer service life.

The efficient fan ensures operation is quiet and comfortable.

Convenient hot water generation.

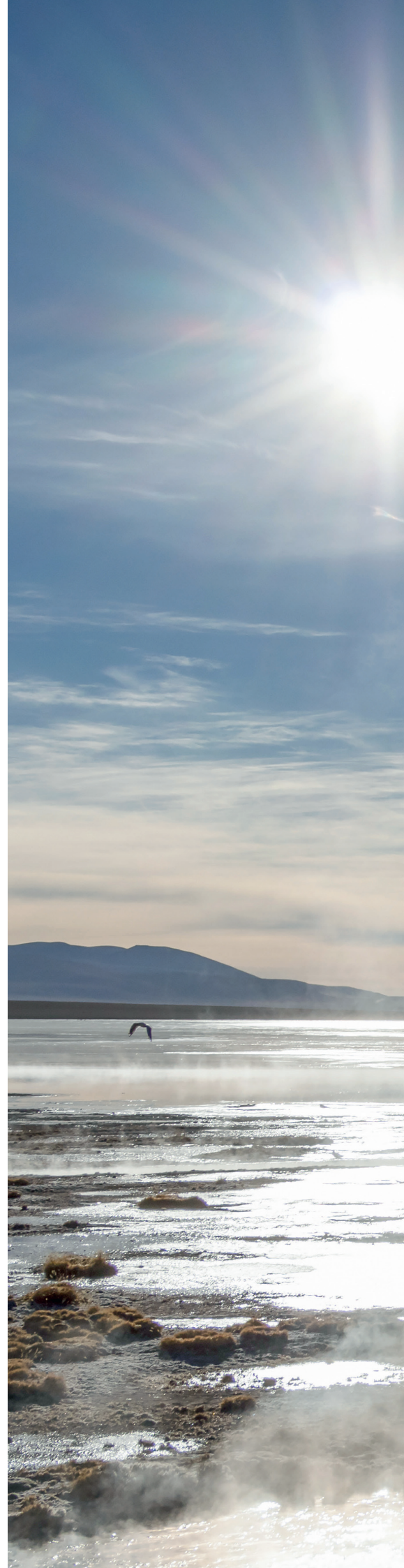
All Logalux cylinders and freshwater stations are convenient, flexible and perfectly coordinated with each other and the Logamax plus GB272. As a large system provider, Buderus's range includes comprehensive solutions for hot water generation. This means maximum hot water convenience for the consumer.

Smart system buffer cylinders.

The Logalux SU300 to SU1000 system buffer cylinders from 500 to 24,000 l cover the domestic hot water demand of larger buildings – especially when large DHW volumes are requested at the same time. All Buderus freshwater stations meet strict hygiene requirements and always make the right quantity of domestic hot water available. The LOAD plus function, integrated into the Logamatic 5313 control system, enables smart charging of a central system buffer cylinder thanks to the modulating pump. This increases the boiler efficiency with longer burner runtimes and fewer burner starts, as well as facilitating charging to the appropriate target temperature.

Logamax compact WS170 heat interface unit.

There are many advantages to potable water heating via the Logamax compact WS170 heat interface unit compared to other centralised and decentralised solutions. Alongside great hot water convenience, consumption recording is significantly simpler than with common heating systems of this type and the regular check for legionella is usually not necessary. Using the heating system with heat interface units means significantly greater energy efficiency and prevents disruptive gas connections in every flat. Therefore, integrating renewable energy is more straightforward. The heat interface unit can also be operated intuitively with the Logamatic RC310 system operating unit.

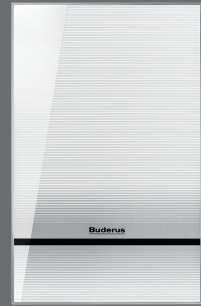




Logalux SU300



Logalux SU300



Logamax compact WS170



Smart control.

As a system expert, Buderus has ensured that a wide variety of application areas can be covered with the gas condensing boiler. The Logamax plus GB272 feels at home with both control systems. The modular, digital Logamatic 5313 control system enables optimal control of complex systems in medium-sized and large systems and commercial applications. For simpler systems, equipping it with the Logamatic EMS plus control system is also possible.

Logamatic 5313 control system.

In a system with the Logamatic 5313, the Logamax plus GB272 works perfectly with combined heat and power units, for example, or additional – including regenerative – heat generators and buffer cylinders. This is where the Logamatic 5313 plays to its strengths: Flexible expansion for several heating circuits, sub-stations, multi-boiler systems or the integration of regenerative heat generators, to name just a few. The control system can be expanded with suitable modules as required. For professional remote monitoring, a corresponding Internet gateway can be installed. The entire system can be operated via the Internet thanks to the Internet interface integrated as standard.

Logamatic EMS plus control system.

The Logamatic EMS plus control system enables optimum control via the Logamatic RC310 system operating unit for heating systems up to the medium output range. The Logano plus GB272 can interact in standard cascade systems and systems with up to a maximum of four heating circuits.



The modular Logamatic 5313 control system:

- 7" touchscreen display
- integrated USB, Modbus and Ethernet interface
- flexible and convenient assembly and cabling



Logamatic BC30 basic controller:

- colour display
- touch-sensitive buttons
- all important functions at a glance

The modern interface.

Thank to the modern “telecontrol interface”, working with the Logamatic 5313 control system is more flexible and clear than ever before. You can gain an overview regardless of location by accessing the control system online from a tablet or PC and even make adjustments.

Control regardless of location.

Remote access, including monitoring and operation of the control system via the Control Center Commercial Internet portal allows 1:1 depiction of the touchscreen display on the PC or mobile device used. The integrated Internet interface for remote access is easy to connect to your router with an RJ45 network cable, after which you will be able to access the control device over the Internet from anywhere in the world, as well as make simple adjustments at the operation level.

More data and more safety for complex application areas.

For more complex requirements, we even provide control centre functions via an optional gateway and the Buderus Control Center CommercialPLUS portal. This gives you long-distance data transmission with full remote parametrisation, as well as many other functions by using the portal.

The integrated Modbus interface.

With the Modbus TCP/IP interface, which is integrated as standard, Buderus provides you with the possibility of easily linking together multiple trades via the building management system, resulting in more clarity and effectiveness when working via bus communication. This means considerably more room for manoeuvre with regard to building design, particularly for planners. The appropriate components for bus communication must only be connected via the RJ45 network connectors.



Buderus Control Center Commercial

This portal application for the Logamatic 5000 offers the system user full control of their heating system via the Internet.

IP inside

Internet interface integrated as standard for online access to your heating via the Internet – any time and anywhere.



Efficient system integration.

A systematic approach had already begun even before conception of the appliance for the new Logamax plus GB272: Buderus has evaluated your requirements for modern heating systems, taking them into account in development. The result is a wall mounted gas condensing boiler that is perfectly equipped and is simple to integrate into the system.

Renewable energy sources in the system.

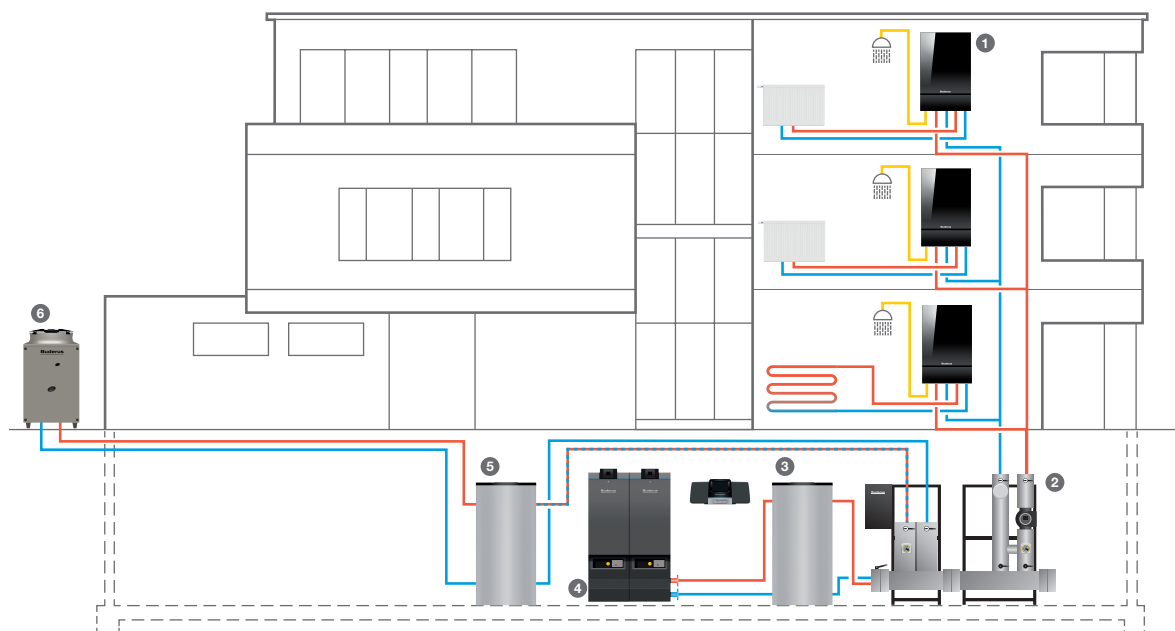
The cascade operates even more efficiently together with renewable energies, such as a solar thermal system or an air to water heat pump.

System expansion with a gas heat pump.

Expansion with a gas heat pump together with a combined heat and power unit can achieve a higher energy standard and reduce running costs even further. Optimum operation of the entire system solution is guaranteed in conjunction with the basic heat generator and Logamatic 5313. The Logatherm GWPL41 ensures a highly efficient base load supply, has a high efficiency of up to 162 % with A2/W35 and reduces CO₂ emissions by up to 30 % compared to conventional heat generators.

Power for large projects.

The EC Power XRG[®] combined heat and power unit is available in four variants for buildings with a high power and heat demand year round. The advantages: Modular design with power unit, heating distribution units and control cabinet. Electric power is generated according to the principle of combined heat and power. Installing the combined heat and power unit is very straightforward and it is simple to integrate in the existing heating system.



- | | |
|--------------------------|----------------------------------|
| 1 Logamax compact WS170 | 4 Logamax plus GB272 two-cascade |
| 2 Logaflow HSM plus HG65 | 5 Buffer tank |
| 3 Buffer tank | 6 Logatherm GWPL41 |

The System-Plus.

We are the system experts.
We offer perfectly matched
components. Our future-proof
system solutions are solid,
modular, networked – and
adapted to your requirements.

Logamax plus GB272

Logamatic BC30 basic controller



Logalux SU300



Logatherm GWPL41



★★★★★
5
JAHRE
**SYSTEM-
GARANTIE**

We are so convinced of the exceptional quality of our system solutions that we provide a 5-year system warranty on all Buderus Logosys systems and Logapius packages. Your heating contractor will supply your personal warranty certificate along with all the information you need about system energy efficiency according to the EU directive.

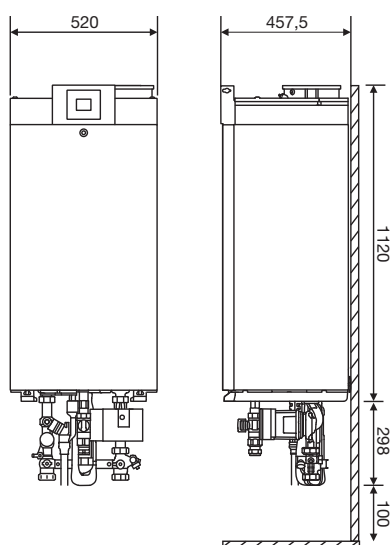
For more information and system warranty conditions, contact your heating contractor or visit www.buderus.land/systemgarantie

Technical data.

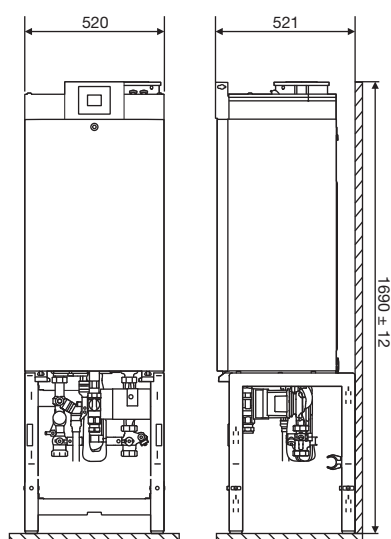
Logamax plus GB272		50 kW	70 kW	85 kW	100 kW	125 kW	150 kW
Height	mm	1,120	1,120	1,120	1,120	1,120	1,120
Width	mm	520	520	520	520	520	520
Depth	mm	457	457	457	457	610	610
Weight	kg	74	74	74	74	96.3	96.3
Rated output, modulating at 50/30 °C	kW	14.3–49.9	14.3–69.5	20.8–84.5	20.8–99.5	–	–
Rated output, modulating at 80/60 °C	kW	13–46.5	13–62.6	18.9–80	19–94.5	–	–
Room heating energy efficiency	%	94	94	–	–	–	–
30% partial load efficiency*		up to 98%					
Class for central heating energy efficiency		A	A	–	–	–	–
Energy efficiency class spectrum		A+ → F	A+ → F	A+ → F	A+ → F	A+ → F	A+ → F
Maximum flow temperature	°C	85	85	85	85	85	85
Flue gas connection/air supply		DN 110/160	DN 110/160	DN 110/160	DN 110/160	DN 110/160	DN 110/160

*In accordance with EU regulation 813/2013.

The dimensions in the table refer to the actual product dimensions.



Logamax plus GB272 wall-mounted



Logamax plus GB272 on base frame

Benefits at a glance:

- carefully conceived modular design inside and out
- intelligent cascade system with up to 900 kW
- perfect set-up system with flexible connection options
- ALU plus technology and ten-year warranty on the heat exchanger
- suitable for both control systems EMS plus and Logamatic 5000
- connection to the Buderus Control Center Commercial possible via the Internet
- LOAD plus function for smart buffer cylinder charging
- sustainable and environmentally friendly packaging made from paper with no polystyrene



Heating systems with a future.

As experts for system solutions, we have been developing top-of-the-range products since 1731. Regardless of whether operation is renewables-based or conventional, our heating systems are solid, modular, connected – and everything is perfectly synchronized. This makes us pioneers in the field of heating technology. We place value on comprehensive yet individual advice and ensure tailor-made, sustainable solutions through the extensive service we offer.

Buderus

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