

EcoTherm Plus WGB Gas fired condensing boiler

BRÖTJE
HEIZUNG 
Member of BAXI GROUP Ltd.



SAVES MORE THAN JUST SPACE

Ecologically friendly and energy saving gas fired condensing boilers made by BRÖTJE. Outputs are in the range of 3.5 to 70 kW.

...better with Brötje

EcoTherm Plus WGB

PEOPLE NEED WARMTH. BUT THAT'S NOT ALL.

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It takes a good heating to make an apartment into a cosy apartment and a house into a cosy house. It should just be there, working. Safe, dependable, economical and ecologically friendly. Unobtrusive and convenient. A heating system should offer much, yet require little space and little work, no matter whether it is in your own flat, your own house or your apartment building. With economical gas fired condensing boilers of the EcoTherm Plus WGB series, BRÖTJE offer great value for money and advanced technology to match almost any application, in a new building or for modernisation of an old one: Now is the time to make it better. It's better with BRÖTJE.





EcoTherm Plus WGB

FROM FLAT TO APARTMENT BUILDING

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Condensing technology made by BRÖTJE

Condensing technology is one of the major developments in modern heating technology: The heating gases generated during firing are cooled down, and the water vapour condenses. Heat energy is obtained by condensation and is fed into the heating circuit. Using this principle, BRÖTJE's EcoTherm Plus WGB condensing boilers achieve an annual efficiency of 109% so that heating costs may be reduced by 10% to 14% (as compared with old boilers, savings in the range of up to 30% can be achieved). Furthermore, EcoTherm Plus WGB offers a compact design, low weight and ease of maintenance. These features make it one of the most advanced gas fired condensing boilers.

Little space requirement – great warm water comfort

This also goes for EcoTherm Plus WGB-K 20 C which is fitted with an additional integral 60 l domestic water heater made from stainless steel. Heating systems without a tank usually offer the advantage of a small space requirement whereas boilers with an external storage tank offer a high degree of hot water comfort. Condensing boilers in the EcoTherm Plus WGB-K 20 C series combine these features, which makes them the most compact WGB for domestic water heating. Another advantage: The space below EcoTherm WGB-K 20 C may be used for other purposes, despite the presence of the domestic water heating tank. As opposed to conventional combinations, hot water may be tapped at two

points. The hot water comfort remains thanks to a constant outlet temperature. All other WGBs can be individually extended using separate BRÖTJE storage tanks. There is hardly any place in your house or flat where a BRÖTJE EcoTherm Plus WGB would not fit: It can be operated with or without temperature control. Thanks to its compact dimensions, quiet operation and attractive design, it will be unobtrusive.

Hot favourites – EcoTherm Plus WGB and WGB-K 20 C:

- Heating and domestic water heating to match your requirements: Heat generating equipment can be individually combined with storage tanks. In addition, the compact heating system WGB-K 20 C is available.
- Heat output from 3.5 to 70 kW
- Expansion vase (up to 20 kW), storage pump (up to 38 kW) and enhanced controls may be accommodated in the housing. With WGB-K 20 C, the expansion vase forms part of the scope of supply.
- Energy saving operation with outdoor temperature control
- Very economic operation thanks to high annual efficiency, i.e., 109% (according to DIN 4702, part 8)
- Ecologically friendly thanks to emissions far below the limit values
- Maximum service convenience
- Ease of maintenance
- Compact dimensions, unobtrusive design, quiet operation



Quiet operation: Optimised burning and suction silencers reduce the noise level to the minimum.

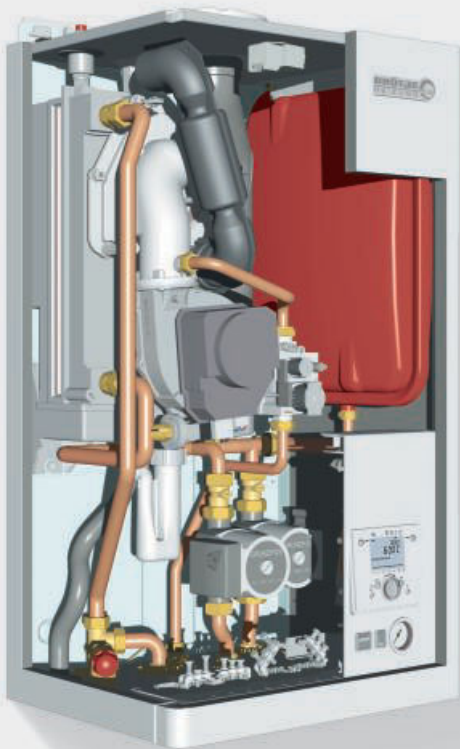


All components that require maintenance, e.g., the burner, are designed according to a well thought-out maintenance concept and are easily accessible from the front.



Clear indication: Thanks to the newly developed control panel, EcoTherm Plus WGB can be controlled as easily as your TV.

CONVINCING FEATURES

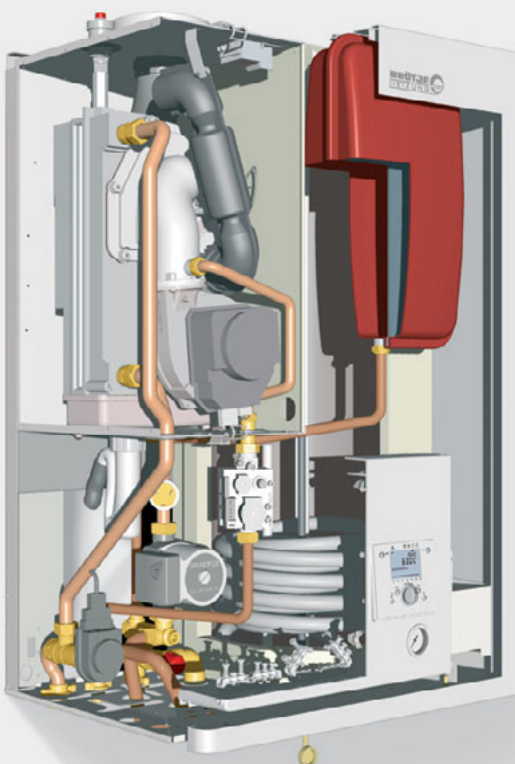


EcoTherm Plus WGB 15 C including accessories



When used for heating alone, EcoTherm Plus WGB saves precious space. With a suitable supply/exhaust air concept, it can be installed in virtually any room.

Very environmentally friendly: The emission values of EcoTherm Plus WGB are not only far below the legal limits, but also optimally meet the requirements of the eco-label "Blue Angel".



EcoTherm Plus WGB-K 20 C with integral 60 l stainless steel storage tank



Continuously variable heating circuit pump, here shown with a storage pump (accessory), contributes to achieving a low noise level and to saving energy.

EcoTherm Plus WGB

THE TECHNOLOGY THAT MAKES YOUR HEART WARM.

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More efficiency. Less cost.

The new, extremely efficient heat exchanger for our EcoTherm Plus WGB boilers is made up of a specially devised, corrosion-resistant aluminium silicon alloy that is better suited to the condensing technology than any other material: Heat is readily dissipated so that losses are kept low. In this way, energy efficiency is enhanced and fuel consumption is reduced. Also, the service life is greatly extended. The BRÖTJE MULTILEVEL technology represents a quantum leap in terms of maintenance and service: All MULTILEVEL boilers are designed on the same principle. This saves much time and makes maintenance easier than ever.

Everything under control – at the push of a button

With the TOP RGT control panel available as an accessory, all functions of your EcoTherm Plus WGB can be conveniently controlled remotely: Not only can you command the room temperature at any time, but you can also set daily, weekly or holiday programmes with up to 3 heating phases per day in a jiffy. Everything's clearly displayed in plain text.

Economic and hygienic

Thanks to optimum combination possibilities, space-saving vertical storage tanks of the BS series are ideally suited to EcoTherm Plus WGB. With volumes of 120, 160 and 200 litres, they are a convenient concept for domestic water heating. The EAS vertical storage tank is available in 6 different sizes, from 120 to 500 litres. The low design of heating coils ensures high storage performance with minimum energy consumption.



TOP RGT control panel: Everything at a glance



Vertical storage tank BS



EcoTherm Plus WGB-K 20 C with integral 60 l stainless steel tank

From the cellar to the attic

With the BRÖTJE exhaust gas system KAS 80 (plastic), any place of installation will be satisfactory for small and medium output ranges: For room sealed operation, no special heating room is needed. EcoTherm Plus WGB can be fitted even in the smallest niche, whether in the kitchen, in your hobby room or in the attic. WGB 50 C and WGB 70 C can be operated with an exhaust gas duct or as heating central in the attic. They are installed with the plastic exhaust gas system KAS 110.



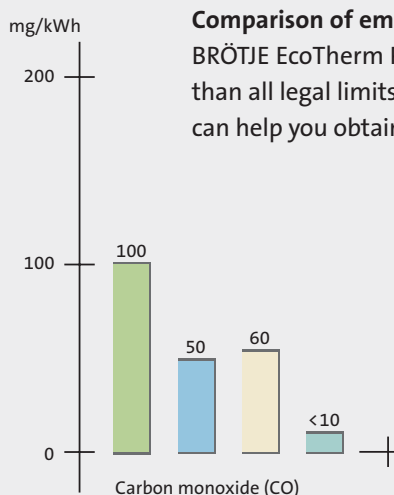
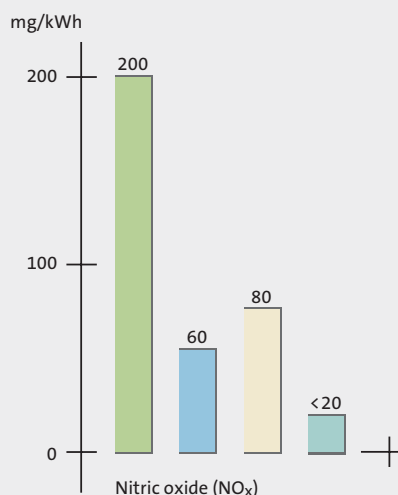
TECHNICAL DATA:

EcoTherm Plus WGB ...	15 C	20 C	28 C	38 C	50 C	70 C	-K 20 C
Product ID	CE-0085 BL 0514						
Boiler capacity (kW)	3,5 to 15	4,5 to 20	6,5 to 28	9 to 38	12 to 50	16 to 70	4,5 to 20
Boiler capacity 50/30°C (kW)	3,7 to 15,6	4,8 to 20,8	7,0 to 29,2	9,6 to 39	12,8 to 51,9	18,3 to 72,5	4,8 to 20,8
Boiler capacity 80/60°C (kW)	3,4 to 14,6	4,3 to 19,4	6,3 to 27,2	8,7 to 36,8	11,5 to 48,5	16,4 to 67,9	4,3 to 19,4
Annual efficiency η_N at 40/30°C (%)	109	109	109	109	109	109	109
Modulation range (%)	23 to 100	23 to 100	23 to 100	23 to 100	23 to 100	23 to 100	23 to 100
NOx standard emission factor (mg/kWh)	< 15	< 20	< 20	< 20	< 20	< 20	< 20
CO standard emission factor eN (mg(kWh)	< 5	< 10	< 10	< 10	< 10	< 10	< 10
Dimensions (mm)							
Height	852	852	852	852	852	852	950
Width	480	480	480	480	480	480	600
Depth	366	366	407	407	447	541	490
Weight (kg)	43	43	53	53	61	72	85
Storage tank volume (l)	–	–	–	–	–	–	60
Colour	white	white	white	white	white	white	white

Condensing boiler available for natural gas E or LL. A conversion kit is proposed for liquid gas.

Storage tank	BS 120 C	BS 160 C	BS 200 C	EAS 300 C	EAS 400 C	EAS 500 C
Storage tank volume (l)	120	160	200	300	400	500
Output (N _L)	1,4	2,2	4,2	9	16	19
Dimensions (mm)						
Height	845*	1045*	1300**	1324**	1621**	1951**
Diameter/width	560	560	600	700	700	700
Depth	575	575	–	–	–	–
Weight/empty (kg)	53	60	62	102	111	126
Colour	white	white	white	grey	grey	grey

*Upper surface of connections. **With cover. Subject to technical modifications and errors.



Comparison of emissions

BRÖTJE EcoTherm Plus WGB gives emissions far below than all legal limits. This protects the environment and can help you obtain state subsidies.

- Limit values to DIN 4702
- Limit values according to eco-label "Blue Angel" RAL-UZ 61
- Limit values to Ordinance on Air Pollution Control (LRV) Switzerland
- Standard emission factors EcoTherm Plus WGB 15 C

BRÖTJE – FOR MORE THAN 80 YEARS A HALLMARK OF HIGH PERFORMANCE

Established in 1919, BRÖTJE today is one of the leading brands whenever cosy warmth and hot water are needed. With many advanced developments – in particular in the field of condensing technology – BRÖTJE have time and time again demonstrated their innovative spirit and capability. They have been awarded the mark of "very good" by Stiftung Warentest for their heat generators on three occasions. Since 1999, BRÖTJE have been a member of BAXI GROUP Ltd., one of Europe's major groups involved in advanced heating technology. With a total of 28 sites in 10 countries, innovative products, to the highest state of the art, will continue to be guaranteed in the future.

Your BRÖTJE dealer

Product quality

BRÖTJE products are tested according to a stringent company standard and strict quality requirements that go far beyond the standards commonly used. As early as in the development phase of our products, we insist on the highest quality of single components which are constantly monitored throughout production up to final testing.

Everything's BRÖTJE – everything's perfect.

From gas, oil or wood-fired boilers to solar systems with collectors on or inside the roof to well-designed flat or towel radiators, BRÖTJE offer great quality and a wide range of matching components.

