

EuroCondens SGB Gas condensing heating central

BRÖTJE
HEIZUNG
Member of BAXI GROUP Ltd.



ONLY ARCHITECTURE SHOULD BE GENEROUS

A compact high performance gas condensing central heating system made by BRÖTJE helps to cut costs, with a heat output between 25 and 500 kW.

...better with Brötje

EuroCondens SGB

SHAPES SPEAK FOR THEMSELVES. NUMBERS TOO.

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A central heating system should reduce costs to the maximum extent – reduce the costs of acquisition and installation, reduce energy consumption, maintenance cost, space requirements and of course of emissions. Therefore we have developed EuroCondens SGB – a heating system that costs as little as possible yet embraces the latest state of the art technology. It is suitable for the largest buildings, from an apartment building to an office complex to a shopping centre. Whether working on a new building or modernising an old one: now is the time to make it better. It's better with BRÖTJE.

Advanced technology for maximum efficiency

The new BRÖTJE EuroCondens SGB is the subject of constant development. In particular the control technology as well as transport and installation possibilities could be further optimised. The heat exchanger forms the heart of EuroCondens SGB. It is made from of a specially developed, 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. What is more, the condensate does not contain noxious heavy metals. This special alloy facilitates this extremely compact and lightweight design. Furthermore, the EuroCondens SGB has a highly efficient, low-emission, modulating gas operated premix burner. This is an outstanding achievement which in combination with the aluminium silicon heat exchanger sets new standards in condensing technology. This is your guarantee for the highest efficiency and utmost environmental compatibility.





EuroCondens SGB

SAFE INVESTMENT. LOW OPERATING COST.

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The comfortable integral ISR Plus controller of the EuroCondens SGB clearly displays all operating conditions. In the basic version, it enables floating control of the boiler temperature depending on the weather and burner modulation as a function of the current load. Optional modules allow for individual extension of the control system to cater for up to 12 boilers and up to 40 Eurocontrol devices with external bus supply. With the EuroCondens SGB there is an optimal solution to almost every task, with effortless ease.



Integral system control: ISR Plus

Striking benefits for large buildings:

- Easy to transport and to erect
- Can be moved through standard doors
- Easy installation, high degree of safety thanks to delivery ready for connection and easy to install, plug-in flue gas/air system up to 250 kW
- Heat output from 25 to 500 kW, cascadable up to 3,000 kW
- Room sealed operation, therefore installation possible anywhere from the cellar to the attic – the place of installation may not become cold
- Extremely high annual efficiency up to 109%
- Energy saving operation thanks to a large modulation range and low burner activation frequency
- Environmentally friendly thanks to low emission levels far below the limit values as a result of using a heat exchanger free from heavy metals
- Low operating noise
- Clear and easy operation
- Extremely maintenance-friendly thanks to BRÖTJE MULTILEVEL technology and readily accessible components
- Great value for money

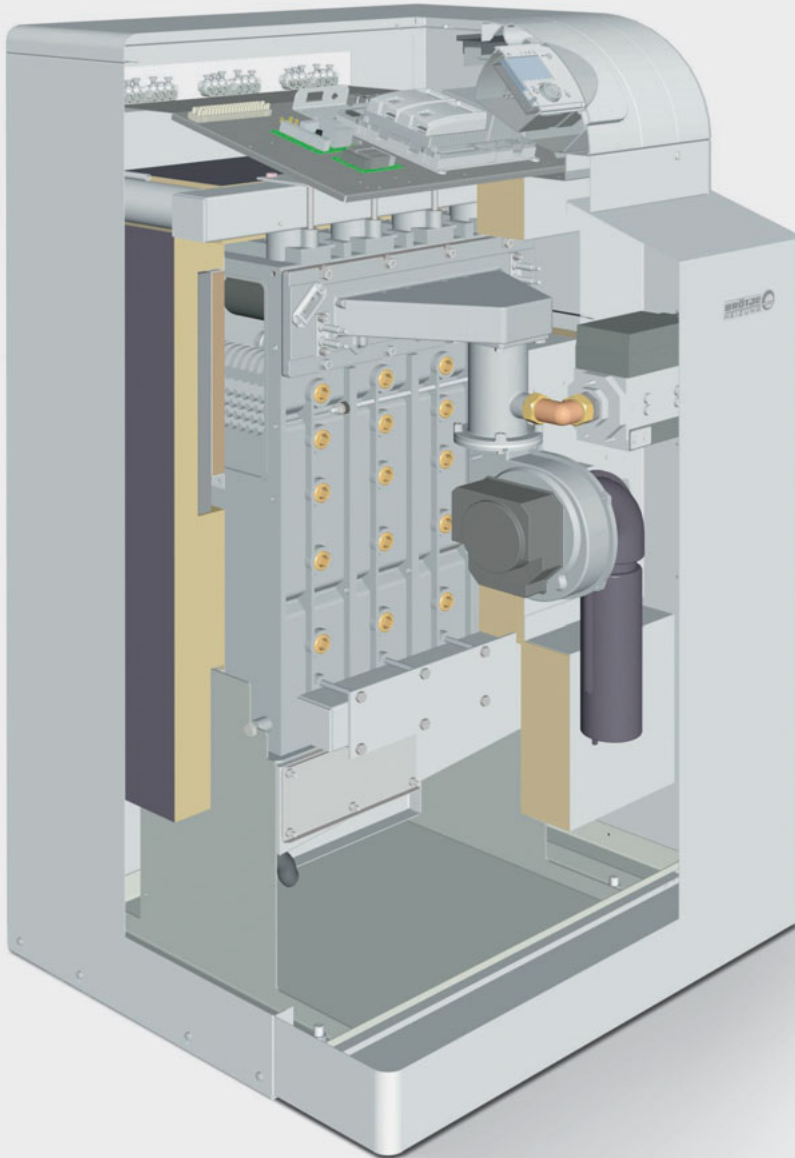


For maximum energy efficiency, the gas fan burner with 100% pre-mixture maintains a constant CO₂ content across the modulation range thanks to its coupled air/gas control



The aluminium silicon heat exchanger combines optimum heat transmission with a long service life and offers a large effective surface as well as an extremely compact design

STATE OF THE ART CONDENSING TECHNOLOGY



Thanks to the heat exchanger, the SGB does not require a minimum circulation. It offers good control behaviour and high annual efficiency which also applies in the summer thanks to a low water content.



*Boilers from 320 to 500 kW:
Simple installation thanks to 2 completely preassembled boiler halves*

EuroCondens SGB

SYSTEMATIC PERFECTION

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BRÖTJE MULTILEVEL. A quantum leap in terms of boiler maintenance.

Whether 3.5 or 500 kW, whether for a three bedroom apartment or a shopping centre – all BRÖTJE gas operated condensing type boilers are designed on the same principle. This means that one single training course in BRÖTJE condensing technology will enable each plumber and each service technician to handle even larger boilers such as EuroCondens SGB. This saves even more time during installation and ensures smooth maintenance. What is more, all maintenance parts are conveniently accessible from the front.

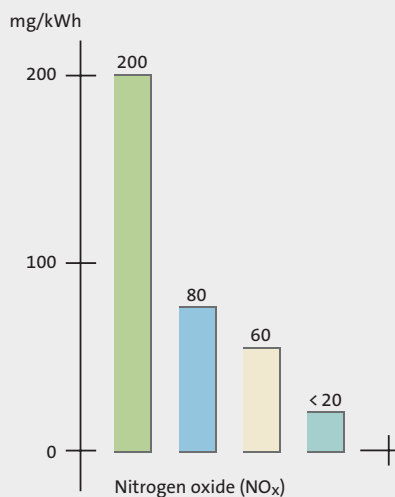


BRÖTJE SAS – flue gas guidance and fresh air supply up to 250 kW

It is not only the low dead weight and the compact dimensions of EuroCondens SGB that open up almost unlimited installation possibilities, from the cellar to the attic. The specially devised, conveniently pluggable and easily installed BRÖTJE SAS plastic flue gas system also supports the variety of options. The same components are used for flue gas and fresh air. Of course BRÖTJE SAS has been tested and approved for use with the EuroCondens SGB according to the EC gas appliance directive.

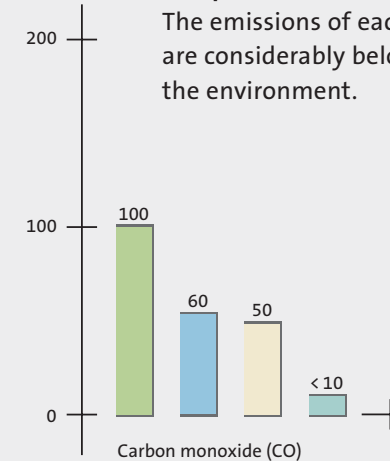
Even the 500 kW unit can be moved through almost any door opening

If things become rather tight, the depth of the EuroCondens SGB can be reduced by removing the burner. Furthermore, two steel pipes can be placed into openings at the front and rear panels so as to serve as handles for four persons. What is more, the closed bottom plate enables the boiler to be transported on pipes which then act as rollers.



Comparison of emissions

The emissions of each BRÖTJE EuroCondens SGB unit are considerably below all limit values – a benefit for the environment.



- Limit values to DIN 4702
- Limit values according to eco-label "Blue Angel"
- Limit values to Ordinance on Air Pollution Control (LRV) Switzerland
- SGB limit values

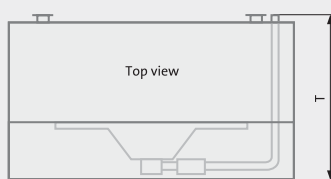
TECHNICAL DATA:

EuroCondens SGB ...	90 C	120 C	160 C	200 C	250 C
Product ID	CE-0085 BN 0577				
Boiler capacity (kW)	25 to 90	33 to 120	47,5 to 160	56 to 200	70 to 250
Boiler capacity 50/30°C (kW)	26,4 to 92,3	34,8 to 123	45 to 163,5	59 to 205	74 to 252,3
Boiler capacity 80/60°C (kW)	24,2 to 86,7	32 to 115,6	43,4 to 153	53,8 to 190,2	66,5 to 237
Standard annual efficiency η_N at 40/30°C (%)	109	109	109	109	109
Standard annual efficiency η_N at 75/60°C (%)	106	106	106	106	106
NO _x -standard emission factor (mg/kWh)	< 20	< 20	< 20	< 20	< 20
CO standard emission factor (mg/kWh)	< 10	< 10	< 10	< 10	< 10
Dimensions (mm)					
Height	1309	1309	1440	1440	1440
Width	760	841	1061	1142	1292
Depth T	717	717	764	764	764
Depth T1/T2	581/696	581/709	630/752	630/752	630/752
Weight (kg)	175	200	250	270	300

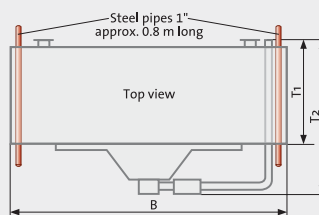
Subject to technical modifications and errors.

EuroCondens SGB ...	320 (x) C	400 (x) C	500 (x) C
Product ID	CE-0085 BN 0577		
Boiler capacity (kW)	45 to 320	56 to 400	70 to 500
Boiler capacity 50/30°C (kW)	47,4 to 327	59 to 410	73,8 to 504,6
Boiler capacity 80/60°C (kW)	42,3 to 306	52,6 to 380,4	65,8 to 474
Standard annual efficiency η_N at 40/30°C (%)	109	109	109
Standard annual efficiency η_N at 75/60°C (%)	106	106	106
NO _x -standard emission factor (mg/kWh)	< 20	< 20	< 20
CO-Normemissionsfaktor (mg/kWh)	< 10	< 10	< 10
Dimensions (mm)			
Height	1500	1500	1500
Width	2324	2504	2544
Depth T	756	756	756
Depth T1/T2	622/742	622/742	622/742
Weight (kg)	570	620	680

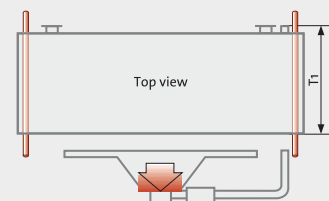
Subject to technical modifications and errors.



EuroCondens SGB ready for connection (delivery status)



EuroCondens SGB without burner cover



EuroCondens SGB with the burner removed

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.

