

NovoCondens SOB Oil condensing technology



MORE HEAT WITH LESS HEATING OIL

Advanced oil condensing technology made by BRÖTJE
for a heat output of 18 to 26 kW

...better with Brötje

NovoCondens SOB

BENEFITS FOR DAY TO DAY LIFE

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Cosy warmth and hot water at home today has become a matter of course. A matter of quality of life that no one would do without. Accordingly, the requirements from a heating system are quite high: It has to be convenient, safe and dependable, economical and environmentally friendly.

BRÖTJE provides advanced heating technology that fully meets with all demands. No matter whether for a new building or modernization: With the NovoCondens SOB oil condensing boiler, you get all the benefits of advanced condensing technology and even more.





NovoCondens SOB

CLEAN AND ECONOMICAL HEATING WITH OIL

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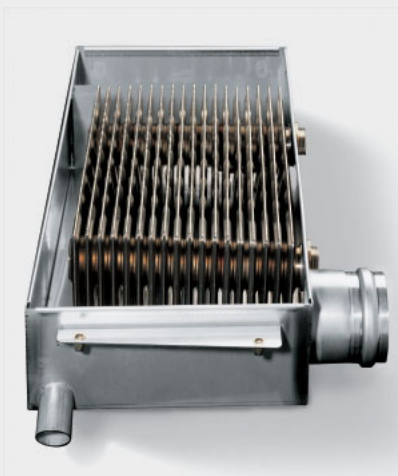
Oil condensing technology

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, oil-fired condensing-type boilers can achieve an annual efficiency of 103% so that heating costs may be reduced by 30% as compared with old boilers. With BRÖTJE's NovoCondens SOB oil-fired condensing boiler, you will get advanced oil condensing technology that offers a lot more than just great value for money: With NovoCondens SOB, you save precious energy and benefit from silent operation, low emission values, room sealed operation as well as a compact boiler design. The innovative heat exchanger and burner design ensures high output with little space requirement. The equipment is exclusively made from high-grade materials such as grey cast iron and stainless steel so as to ensure maximum operational safety and a long service life. Furthermore, the two-stage blue burner excels by an extremely low pollutant emission and maximum energy efficiency as the burned heating oil leaves almost no residue. What is more, BRÖTJE offer the matching system technology to complete your heating equipment.

No matter what your requirements on control technology, domestic water heating and flue gas technology – BRÖTJE has the ideal concept.

Benefits that speak for themselves

- Various boiler sizes, heat output from 18 to 26 kW
- Selection of heat output and optimum annual efficiency thanks to two-stage burner operation
- Very economical thanks to a maximum annual efficiency up to 103%
- Environmentally friendly due to low emissions, far below the limiting values
- Extremely quiet operation by double noise insulation
- Compact dimensions and various flue systems for installation flexibility
- Room sealed operation possible
- Long service life due to grey cast iron and stainless steel construction
- Advanced blue burner technology
- Maximum operation convenience
- Very maintenance friendly
- Suitable for all oil qualities

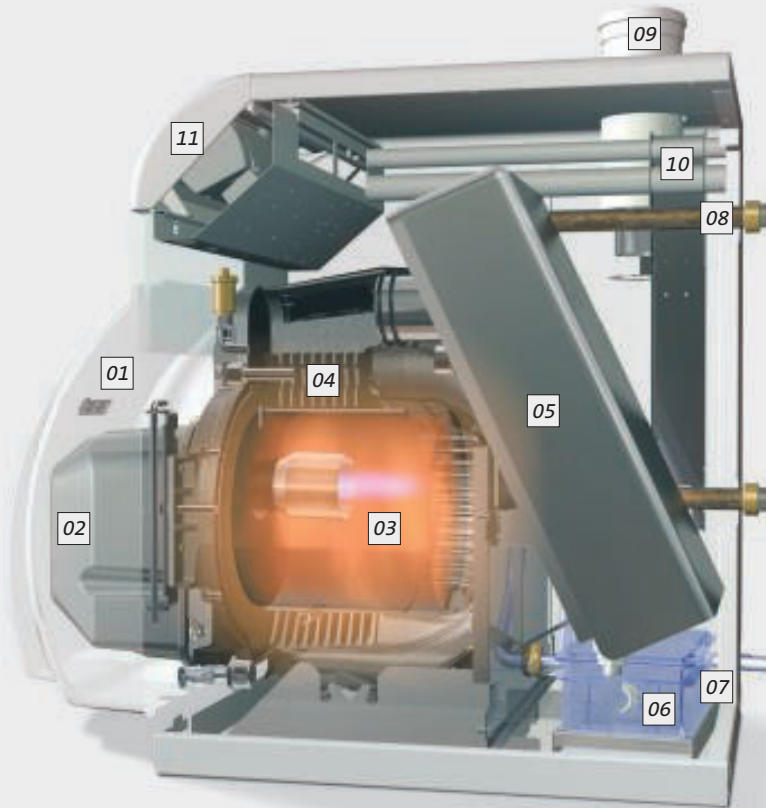


The stainless steel link profile of the condensation heat exchanger ensures optimum energy efficiency



The blue burner which in standard version comes with an enclosure enables room sealed operation. With its "double noise insulation", it gives very quiet operation

DETAILS OF ADVANCED TECHNOLOGY



Small yet with full power – NovoCondens SOB excels not only by its technology but also by its compact design

With two burner stages, the oil burner always adapts to your current heating needs. In the spring and the autumn, where only little output is needed, it operates in the 1st stage. This gives low flue gas temperatures and at the same time optimum condensation conditions.

- | | |
|---|----------------------------------|
| 01 Sound and thermal insulation enclosure | 05 Condensation heat exchanger |
| 02 Enclosed two-stage oil burner (blue flame) | 06 Neutraliser |
| 03 Dry low temperature combustion space | 07 Return |
| 04 Primary heat exchanger | 08 Flow |
| | 09 Flue gas/fresh air connection |
| | 10 Cable conduits |
| | 11 Boiler control panel |



The two-stage blue burner enables optimum energy efficiency without creating sooty deposits and with little pollutant emission. This saves energy and relieves the environment.

The primary heat exchanger, where combustion and the largest part of heat transfer take place, is the heart of NovoCondens SOB. It is made from high-grade grey cast iron in monoblock design, i.e., it is cast as one single piece. This innovative engineering and production approach ensures excellent heat transmission with little space requirement and offers at the same time maximum corrosion resistance. The blue burner may be pivoted to the right or to the left, depending on local conditions.



The compact primary heat exchanger in monoblock design is made from high-grade grey cast iron

NovoCondens SOB

TAILORED FLEXIBILITY

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No matter how much space is available and how much domestic water you need: BRÖTJE offer adequate drinking water tanks to suit your needs. NovoCondens SOB may be combined either with a floor-standing tank or a vertical tank thereby offering a tank volume from 120 to 500 litres.



The EAS SSP system tank may be installed on the right or on the left side of Novo-Condens SOB. With a volume of 135 l and a filling system, it gives a high domestic water capacity.



NovoCondens SOB may be installed on the floor-standing tank so as to save space. It offers a tank volume of 150 or 200 litres.



The vertical EAS tank is installed beside the boiler and is available in 6 sizes, from 120 to 500 litres.

EAS SSP system tank – even more economical and faster domestic water heating

Thanks to an optimal utilisation of the condensing technology, the layer tank offers enhanced efficiency and a higher output. This design provides hot water right at the start of filling. Furthermore, the layer tank is quickly filled even when large water quantities have been tapped off.

Clear display

With the modular ISR Plus control (integral system control) which enables communication, system components such as a tank, a solar domestic water heating with hot water circulation pump or external temperature control may be easily and conveniently controlled. Up to four weekly programmes are available for all functions. Using three user and service levels, you are informed in plain text and at any time about all important data and operating conditions. All content is clearly readable thanks to the graphic display with background lighting.



All boiler and system functions can be easily and conveniently controlled using the boiler control panel

Convenient control

The TOP RGT unit enables convenient control from the living room. As an alternative to external temperature control, the boiler may be controlled by the integral room sensor. The RGT is connected either using wires or radio frequency communication.

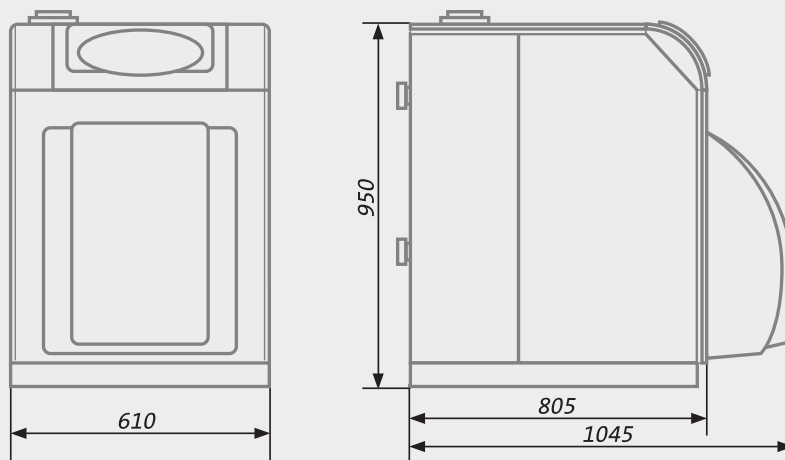


With the RGT unit, everything's under control. With the RGTf version, even wireless radio frequency communication is possible.

TECHNICAL DATA:

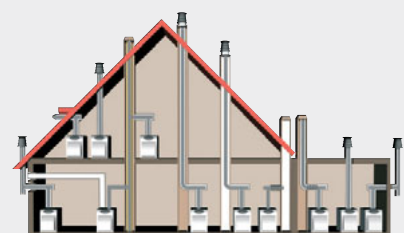
NovoCondens	SOB 22	SOB 26
Product ID	CE-0085 BP 0308	
Boiler capacity 40/30°C (kW)	18,7 to 22,6	21,4 to 26,4
Boiler capacity 80/60°C (kW)	17,5 to 21,4	20,2 to 25,0
Standard annual efficiency η_N at 40/30°C (%)	103	103
Standard annual efficiency η_N at 75/60°C (%)	97	97
NO _x CO standard emission factor η_N (mg/kWh)	<90/<5	<90/<5
Flue gas/fresh air connection (mm)	80/125	80/125
Dimensions (mm)		
Height	950	950
Width	610	610
Depth	1046	1046
Weight (kg)	212	213

Subject to technical modifications and errors.



Save more than just energy

NovoCondens SOB also being suitable for room sealed operation, you may use your heating room for other purposes, e.g., to dry laundry or as a workshop. The combustion air can be sucked in using a separate duct and need not be taken directly from the heating room. Because of this, the room may not become cold due to the supply of combustion air so that it can be used like any other room. As an alternative, you may place the NovoCondens SOB boiler elsewhere using the BRÖTJE plastic flue gas system. This flexible flue gas system offers a solution for various installation variants thereby opening up new possibilities when selecting the boiler location. Furthermore, it is a value for money alternative to an expensive chimney refurbishment. With this, NovoCondens SOB not only saves energy but also space and money.



BRÖTJE – FOR MORE THAN 80 YEARS
A HALLMARK FOR 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.

