



BOILTE ROOK

**DUAL-FUEL INDEPENDENCE IN A
COMPACT ENCLOSURE**

POWER: 140–2000 kW

TEMPERATURE: up to 115°C

PRESSURE: 6 bar



Boilte Rook

FUEL: GAS / DIESEL / HEAVY FUEL OIL / HEATING OIL / WASTE OIL

Heat where there is no gas — and where there is

Boilte Rook is a combination outdoor boiler representing a ready-to-use mini boiler house in an insulated frame container. Rook operates on gas and liquid fuel (diesel, heating oil) with automatic fuel switching capability, providing dual-fuel independence.

The Rook model range covers thermal power from 140 to 2,000 kW. Heat transfer fluid — water up to 115°C. Efficiency — up to 92%. Operating pressure — up to 6 bar. Design service life — more than 15 years.

The key advantage: Construction savings reach 60% — you don't need a capital building, expensive designs, or lengthy permits. Commissioning time is reduced from months to days. Installation against a wall, on a roof, or adjacent to a building requires no additional internal floor space.

Dual-fuel independence

The key advantage of Rook — operation on low-pressure gas and liquid fuel (diesel, heating oil) with automatic switching. This provides:

- Uninterrupted heat supply — in case of gas supply interruptions, the boiler automatically switches to liquid fuel
- Protection against price fluctuations — you can choose the more economical fuel type depending on market conditions
- Autonomy — no gas pipeline connection required (operation on liquid fuel only is possible)

Ready-to-use — out of the box

Rook is supplied in a state of maximum factory readiness:

- In an insulated sandwich-panel container (50 mm) with access doors
- With a combination burner (gas + diesel) with automatic switching
- With pumps, valves, and a safety group
- With an electrical control panel and weather-compensated automation
- With a stainless steel chimney

You don't need to separately design the boiler house, purchase pumps, valves, or control panels — everything is already assembled, connected, and tested at the factory. Installation is reduced to site preparation, positioning the unit, and connecting to utilities.

All-weather performance

Rook is housed in an insulated sandwich-panel frame container (50 mm thickness), designed for operation at extreme temperatures from -40°C to +40°C. The container protects the equipment from precipitation, wind, snow, and temperature fluctuations. The boiler is not affected by:

- Frost down to -40°C
- Rain, snow, hail
- Strong wind
- High humidity

Versatility for sites without gas supply

Rook can operate exclusively on liquid fuel (diesel, heating oil) without connection to a gas pipeline. This makes it an ideal solution for remote locations where gasification is impossible or economically unfeasible. When gas becomes available, the boiler easily switches to the cheaper energy carrier without equipment replacement.

Intelligent control

Rook is equipped with an electrical control panel with weather-compensated automation:

- Automatic ignition and temperature maintenance
- Heat transfer fluid temperature adjustment based on outdoor temperature — gas savings up to 20%
- Automatic switching between gas and liquid fuel
- Cascade control capability (when multiple boilers are installed)
- Security alarm
- Heat meter with remote display

Optimised for temporary and mobile installations

Rook's container design and dual-fuel capability make it ideal for temporary heating applications. The unit can be installed in one day, commissioned immediately, and later moved to a new site without significant dismantling costs. This is particularly valuable for construction sites, seasonal facilities, and rental applications where heating is needed for limited periods.

Extended autonomy with optional fuel tank

For liquid fuel operation, Rook can be equipped with an extended-capacity fuel tank providing up to 7 days of continuous operation at full load without refuelling. This is critical for remote sites where fuel delivery logistics are complex and weather-dependent. The tank level is continuously monitored by the automation system, with low-level alarms sent to the operator.

Built-in freeze protection

Rook's automation system includes a freeze protection function that automatically starts the boiler when the ambient temperature drops below +5°C, even in standby mode. This prevents freezing of building heating systems, pipes, and equipment during unexpected cold snaps or extended boiler shutdowns – without operator intervention.

Where Rook is applied

- Residential complexes and apartment buildings – autonomous heating without separate boiler house construction
- Social facilities – schools, kindergartens, hospitals,

sports centres (reliability through dual-fuel capability)

- Industrial and warehouse facilities – autonomous heating of workshops, logistics centres, hangars
- Temporary installations – one-day installation, dismantling and relocation
- Sites without gas supply – liquid fuel only operation

Why choose Boilte Rook?

- Dual-fuel independence – automatic switching between gas and liquid fuel
- Ready-to-use mini boiler house – no construction required, up to 60% savings
- All-weather performance down to -40°C – insulated sandwich-panel container
- Intelligent control – weather-compensated automation, remote monitoring
- Easy maintenance access – clear zoning, door opens in either direction
- Cascading – combining multiple boilers for capacity expansion

Technical specifications

Model, Rook	Power, kW**	Efficiency, %	Boiler resistance, mbar	Water volume, L	Flue gas flow, m ³ /h	Gas consumption, m ³ /h	H, mm	B, mm	L, mm	Dry weight, kg
140	140	92,12	0,30	302,82	0,24	16,66	2400	1300	2900	1580
200	200	92,12	0,40	343,10	0,28	23,10	2400	1300	3000	1660
300	300	92,12	1,20	514,06	0,34	33,12	2400	1300	3300	1813
400	400	92,12	2,50	681,34	0,40	43,90	2400	1300	3400	1953
500	500	92,12	4,60	854,66	0,64	54,68	2400	1300	3800	2265
600	600	92,12	3,10	1025,56	0,72	65,62	2700	1500	3800	3178
700	700	92,12	4,60	1217,35	0,87	75,62	2700	1500	3900	3345
800	800	92,12	5,60	1433,68	0,98	87,80	2700	1500	4300	3515
1000	1000	92,12	4,80	1709,40	1,06	109,38	2900	1600	4500	4230
1200	1200	92,12	6,90	2023,14	1,24	130,94	2900	1600	4900	4835
1400	1400	92,12	5,70	2406,66	1,70	154,06	2900	1600	5100	5268
1600	1600	92,12	3,90	2823,44	1,81	177,16	3700	1800	5000	6978
1800	1800	92,12	5,10	3177,32	2,00	197,18	3700	1800	5100	7263
2000	2000	92,12	6,70	3430,81	2,43	209,38	3700	1800	5400	7863

****Power:** The values shown correspond to operation on methane (natural gas). When using diesel fuel or heavy fuel oil (mazut), a power adjustment (reduction) may be required in accordance with design standards and fuel-specific calculations.

Boilte reserves the right to modify dimensions and design without prior notice.

Dimensional tolerance: ±0.1–0.2% for all Boilte equipment.

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