

Medium-speed power generation

B35:40V NATURAL GAS

The Bergen B35:40's design philosophy is to deliver industry-leading electrical and heat recovery efficiency along with high and reliable power levels.

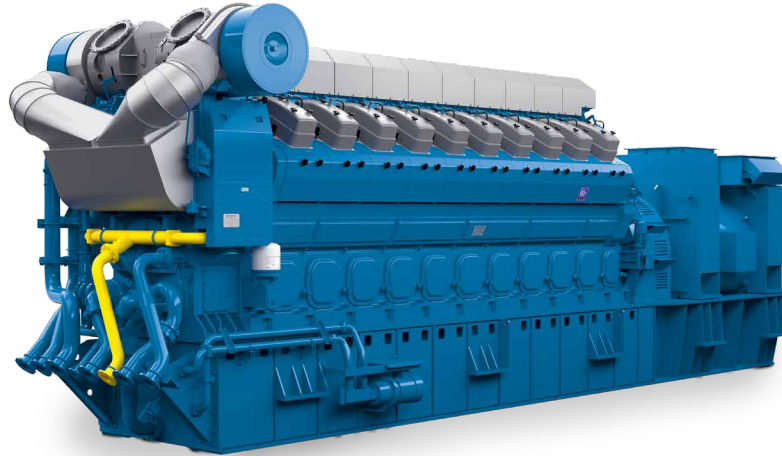
Tailored to match your needs

The Bergen B35:40 generating set produces exceptionally low emissions of NO_x, CO and UHC combined, a tribute to its efficient combustion technology that ensures minimum environmental impact coupled with excellent performance levels.

The generating set's combination of large components running at low RPM and optimised combustion and turbocharger technology ensure high efficiency levels. Many gas engine installations require heat recovery, whatever their applications. Our experience ranges from remote power supply to cogeneration and tri-generation in climates ranging between the arctic freeze of Svalbard and hot and humid Bangladesh.

Your benefits

- High power output
- High electrical efficiency
- Low service and maintenance costs
- Maintenance friendly
- Proven technology
- Sturdy construction

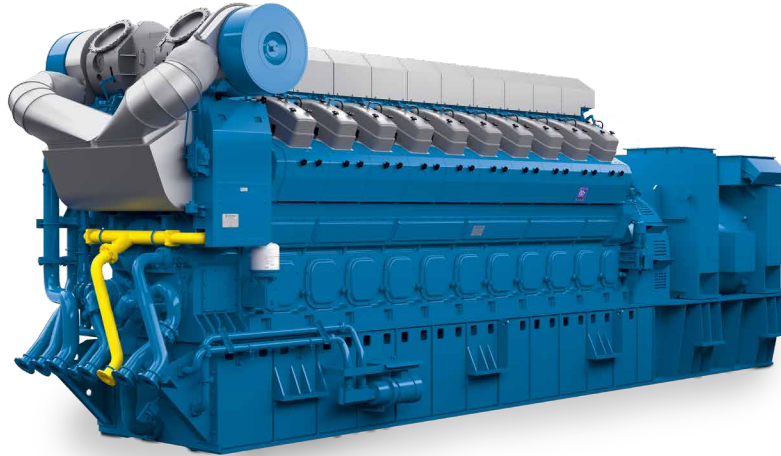


Main dimensions - cylinder diameter 350 mm, piston stroke 400 mm

Weight and dimensions	Weight kg	Length	Width	Height
B35:40V12 AG	99000	10575	2750	4620
B35:40V16 AG	116000	11565	3306	4545
B35:40V20 AG	137000	13160	3306	4700
Technical data	Unit	B35:40V12AG	B35:40V16AG	B35:40V20AG
Number of cylinders		12	16	20
Engine speed	r/min	750	750	750
Electrical output	kW	5635	7540	9445
Charge air cooler HT	kW	925	1355	1660
Charge air cooler LT	kW	375	510	630
Lube oil cooler	kW	575	760	950
Jacket water cooler	kW	730	965	1205
Exhaust mass	kg/h	30900	41200	50600
Exhaust gas temperature	°C	395	375	375
Nom. el. efficiency	%	48.3	48.8	49.0

General conditions

- Depending on type of generator the weight, performance and dimensions may change
- All technical data is valid at 100% load, with no engine driven pumps
- Engine power definition and fuel gas consumption are according to ISO 3046-1 (ICFN)
- Generator standard IEC 60034-1, power factor 1
- Reference fuel is natural gas with a lower heating value of 36MJ/nm³, methane number >80
- Minimum fuel gas pressure to the gas regulating module: 4.5 barg
- The information herein is subject to change without notice and the given data does not carry any contractual value. Rolls-Royce assumes no responsibility for any errors that may appear



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B35:40V20 AG	137000	13160	3306	4700
Technical data	Unit	B35:40V12AG	B35:40V16AG	B35:40V20AG
Number of cylinders		12	16	20
Engine speed	r/min	720	720	720
Electrical output	kW	5415	7235	9070
Charge air cooler HT	kW	885	1305	1590
Charge air cooler LT	kW	360	490	605
Lube oil cooler	kW	550	730	915
Jacket water cooler	kW	700	925	1155
Exhaust mass	kg/h	29700	39600	48600
Exhaust gas temperature	°C	395	355	360
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