



Medium-speed commercial marine liquid fuel engines

B33:45V GENERATING SET

The Bergen B-series is based on a modular design, which gives a flexible platform and at the same time carries forward the Bergen traditional values as a robust and reliable engine.

Proven quality

The selection of technology was done after consulting a broad range of operators, designers and shipbuilders, to establish the qualities they prize in an engine. This engine series was first introduced to the market in 2014 as a diesel engine, and the gas version followed in 2018. It is available in several in-line or Vee cylinder variants for both diesel and gas, and is equally suitable for mechanical transmission or as a marine generating set

Main benefits for shipyards

- Easy installation
- New resilient mounting (no need of welding brackets)
- Aligned piping at pump-end for easy connection
- Flexible exhaust routing (and air ducting if applicable): 15 degree rotation of connection points to turbocharger available

Main Benefits for ship owners

- Reliable power
- IMO Tier II compliant without use of SCR
- IMO Tier III compliant with use of SCR
- Proven low life cycle costs
- Dynamic service intervals with 25.000 hrs between main services when operating within a defined load window
- Full equipment health monitoring
- Fast load response
- Low vibration/structural noise level
- 24/7 support by global service network
- Compact and modular design with a low weight construction
- Possible conversion from diesel to gas and vice versa
- New flexible mounts without welded brackets
- Aligned piping at pump end for ease of connection
- Flexible exhaust routing 15 degree rotation of connections to turbocharger

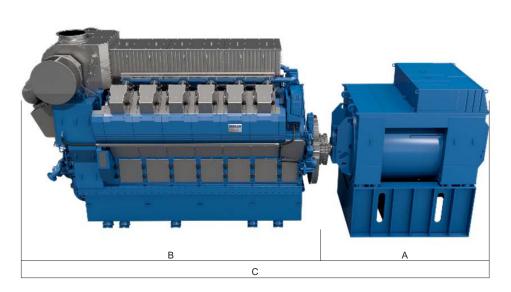
B33:45V **GENERATING SET**

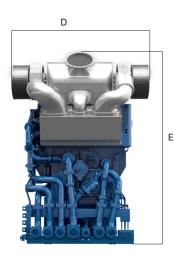
Technical data							
Engine type		B33:45V12A	B33:45V16A				
Number of cylinders		12	16				
Engine speed	r/min	720/750	720/750				
Mean piston speed	m/s	10.8/11.2	10.8/11.2				
Max.cont rating (MCR)	kW	7200	9600				
Max.cont rating altern, (h=0.975)	kWel	7020	9360				
Max.cont rating altern, (Cos f=0.8)	kVa	8775	11700				
Max.cont rating altern, (Cos f=0.9)	kVa	7800	10400				
Mean effective pressure (BMEP)	bar	26/25	26/25				
Specific fuel oil consumption (SFOC)	g/kWh	from 171	from 171				
SFOC with engine driven pumps	g/kWh	from 173	from 173				
Specific lubricating oil consumption	g/kWh	0.5	0.5				
Cooling water temp. engine outlet	°C	90	90				

Engine ratings are according to ISO 3046/1. The above figures are based on conditions at maximum 45° C ambient air temperature and maximum 32° C sea water temperature.

*SFOC is based on MDO with a net calorific value of 42.7 MJ/kg and no engine driven pumps.

Note: Due to continuous development, some data may be changed without notice.





Principal dimensionsCylinder dia. 330 mm. Piston stroke 450 mm. All dimensions in mm.

ENGINE TYPE	А	В	С	D	Е	WEIGHT DRY EN- GINE	WEIGHT GENERATOR
B33:45V12A	3900	6900	10900	3140	4540	74400 kg	25000
B33:45V16A	4500	8400	12900	3660	5010	99700 kg	31000

Weight dry engine excludes generator, foundation and transport foundation.