

Marine Offshore Gensets

H27DF | Bore: 270 mm, Stroke: 330 mm

Main Data

Speed	720 rpm		750 rpm		900 rpm		1000 rpm	
Frequency	60 Hz		50 Hz		60 Hz		50 Hz	
	Eng.kW	Gen.kW	Eng.kW	Gen.kW	Eng.kW	Gen.kW	Eng.kW	Gen.kW
6H27DF	1,368	1,300	1,422	1,351	1,710	1,625	1,860	1,767
7H27DF	1,596	1,516	1,659	1,576	1,995	1,895	2,170	2,062
8H27DF	1,824	1,733	1,896	1,801	2,280	2,166	2,480	2,356
9H27DF	2,052	1,949	2,133	2,026	2,565	2,437	2,790	2,651

Based on alternator efficiency of 95 %.

Heat Rate & SFOC (100% Load)

Load	720 rpm	750 rpm	900 rpm	1000 rpm
Heat rate @ Gas mode			7,900 kJ/kWh	
SFOC @ Diesel mode			190 g/kWh	

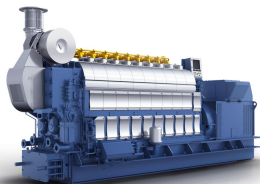
*) Note :

- 1) Reference condition based on ISO 3046/1
- 2) Main fuel oil based on marine diesel oil, LCV(Lower Calorific Value) 42,700kJ/kg
- 3) Fuel gas based on natural gas, Lower Heating Value 36MJ/Nm³, methane number Min. 80
- 4) NOx Emission limitation : IMO Tier II on Diesel mode, IMO Tier III on Gas mode

Specific Lubricating Oil Consumption

Gas mode : 0.25 g/kWh

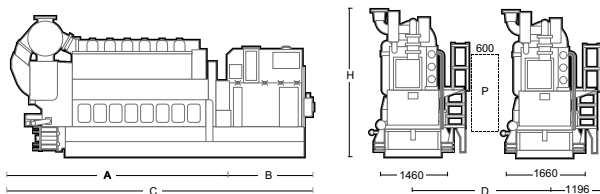
Diesel mode : 0.4 g/kWh



Dimensions

Speed	cyl.	Dimension (mm)				Dry Mass (ton)	
		A	B ¹⁾	C ¹⁾	H	Engine ²⁾	GenSet ^{1),3)}
720 / 750 rpm	6	4,414	2,262	6,676	2,835	21.2	30.8
	7	4,794	2,262	7,056	2,835	23.5	34.9
	8	5,311	2,340	7,573	3,241	25.1	40.5
	9	5,691	2,262	7,953	3,371	27.2	46.0

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900 / 1000 rpm	6	4,414	2,262	6,676	2,835	21.2	30.8
	7	4,794	2,262	7,056	2,835	23.5	34.9
	8	5,311	2,340	7,651	3,371	25.1	40.5
	9	5,691	2,490	8,181	3,371	27.2	46.0



Remarks

- 1) Depending on alternator.
- 2) Without common base frame.
- 3) With common base frame & alternator (Maker: Hyundai Electric).

D: Min. distance between engines 2,844 mm (with gallery).

P: Free passage between the engines, width 600 mm and height 2,000 mm.

Note) All dimensions and weight are approximate value and subject to change without prior notice.



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