

WÄRTSILÄ 32

DIESEL ENGINE GENERATING SET

The Wärtsilä 32 is a four-stroke diesel engine generating set. It brings the power to where it is needed with proven reliability. Wärtsilä 32 provides high efficiency throughout the entire life of the power plant.

Wärtsilä 32 engine generating set is extremely reliable with a track record from the mid-1990s. It features a wide power output range from 5.6 to 9.8 MW, as it is available in 12V, 16V and 20V cylinder configurations. More than 8 000 MW of the Wärtsilä 32 engine generating sets have been delivered to energy customers globally.

We help our customers in decarbonisation by developing market-leading technologies such as flexible power plants that can be delivered as engineering, procurement and construction (EPC). With our full lifecycle support we ensure guaranteed performance of the plant.

Key benefits

- Proven in service for decades
- Low operating cost
- Operates on heavy fuel oil, light fuel oil, crude oil and liquid biofuels
- Compact sizing allows transportation to demanding locations
- Optimised performance and efficiency supported by Wärtsilä Lifecycle solutions

2

Minutes to full load

47,6

% Electrical efficiency

> 60

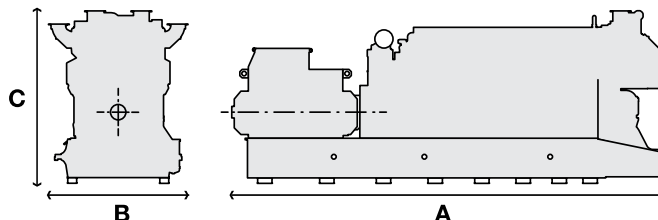
Million running hours

Wärtsilä 32 Diesel engine generating set			
Cylinder configurations	12, 16, 20V		
Cylinder bore	320 mm		
Piston stroke	400 mm		
Engine speed	750 rpm (50 Hz) 720 rpm (60 Hz)		
Performance (50Hz / 60Hz) ¹			
	20V32	16V32	12V32
Rated electrical power (kW)	9 795 (50 Hz) 9 388 (60 Hz)	7 819 (50 Hz) 7 481 (60 Hz)	5 840 (50 Hz) 5 580 (60 Hz)
Electrical efficiency (%)	LFO: 47.4 (50 Hz) 47.6 (60 Hz) HFO: 47.2 (50 Hz) 47.4 (60 Hz)	LFO: 47.3 (50 Hz) 47.4 (60 Hz) HFO: 47.1 (50 Hz) 47.2 (60 Hz)	LFO: 47.1 (50 Hz) 47.2 (60 Hz) HFO: 47 (50 Hz) 47 (60 Hz)
Heat rate at generator terminals (kJ/kWh)	7 599 (50 Hz) 7 563 (60 Hz) 7 622 (50 Hz) 7 592 (60 Hz)	7 616 (50 Hz) 7 595 (60 Hz) 7 639 (50 Hz) 7 625 (60 Hz)	7 641 (60 Hz) 7 630 (60 Hz) 7 664 (50 Hz) 7 659 (60 Hz)
Loading & unloading			
	Connected to grid	Full load	
Regular start time (min:sec)	00:30	< 5	
Fast start time (min:sec)	00:30	< 2	
Stop time (min)	1		
Ramp rate (hot, load/min)	> 100%		
Minimum load			
Unit level	10%		
Plant level	1%		

Maximum transportation dimensions (mm) and weights (tonnes) ²				
Genset type	Length (A)	Width (B)	Height (C)	Dry weight
12V32	10 226	3 000	4 104	92
16V32	11 189	3 300	4 483	117
20V32	13 072	3 300	4 342	130

¹ Rated electrical power and electrical efficiencies are given at generator terminals at 100kPa ambient pressure, 25°C suction air temperature and 30% relative humidity, and without engine driven pumps. Power factor 1.0 (site). Electrical efficiency with 5% tolerance. Site conditions, fuel and applicable emission limits may have an impact on performance figures. Please contact Wärtsilä for project-specific performance data.

² There are a number of dismantling options available for transporting the generator set. These include different options for reduced weight and height. Please contact Wärtsilä for further information.



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