



THE WÄRTSILÄ 14 HIGH-SPEED ENGINE – A LIGHTER AND GREENER ALTERNATIVE FOR MARINE OPERATIONS

The Wärtsilä 14 is the most compact marine engine in its power range and is suitable for both propulsion and auxiliary applications. The engine is supplied with the Wärtsilä NOx Reducer (NOR®), making it compliant with IMO Tier III regulations, and can be combined with an additional particulate filter to be compliant with EU Stage V standards.

A compact and efficient design

The Wärtsilä 14 high-speed engine is available in 12 and 16-cylinder configurations, with a power output of 749–1340 kWm in propulsion applications and 675–1155 kW in auxiliary genset and diesel-electric propulsion applications.

The compact design makes the engine ideal for applications where operating power, fuel type and power-to-weight ratio are critical. The Wärtsilä 14 is equipped with UNIC automation modules for monitoring and safety purposes.

KEY BENEFITS

- High reliability and power density
- Low fuel consumption over a wide load range
- Compliant with IMO Tier III regulations and EU Stage V standards
- Professional support available via Wärtsilä's global service network

IMO Tier III and EU Stage V certified

In order to meet IMO Tier III regulations, the Wärtsilä 14 is supplied with the Wärtsilä NOR – an emissions after-treatment system based on selective catalytic reduction (SCR) technology for reducing NOx emissions. Wärtsilä NOR maximises the overall performance of the engine and exhaust gas cleaning system in terms of emissions reduction, noise abatement and engine efficiency and is provided with IMO Tier III EIAPP certificates. To meet the requirements of the European Stage V emission standards, the Wärtsilä 14 can also be combined with a Wärtsilä NOR and a diesel particulate filter.

Technical specifications

Wärtsilä 14		IMO Tier II or III	
Cylinder bore	135 mm	Fuel specification: Light fuel oil, maximum sulphur content 0.5% ISO 8217, category ISO-F-DMX, DMA, DMZ SFOC 205,0 g/kWh at ISO condition	
Piston stroke	157 mm		
Cylinder configuration		12V	16V
Nominal power (kWm)		749–1005	1005–1340
Nominal power (kWe)		675–865	900–1155
Nominal speed (rpm)		1500–1900	1500–1900

Engine dimensions (mm) and dry weight without air filter (tonnes)					
Engine type	A	C	B	F	Weight
12V14	2342	1470	926	542	2.8
16V14	2601	1451	1019	525	3.8

Genset dimensions (mm) and dry weight without air filter (tonnes)*					
Engine type	A	C	B	F	Weight
12V14	4577	1487	1163	598	7.8
16V14	5061	1461	1163	598	9.1

* Dependent on generator type and size

Wärtsilä experts can help you to choose the right solution for your vessel.

Contact us!

<https://www.wartsila.com/w14>



Achieve maximum efficiency with a complete, holistic solution

Efficiency, safety and environmental sustainability are the key pillars for achieving and maintaining profitable operations for ship owners and operators around the world. Wärtsilä offers a broad range of products, systems and integrated solutions to further maximise the engine installation and operational efficiency. To maximise the return on your investment, Wärtsilä experts can integrate the machinery, propulsion equipment – gears, propellers, thrusters and waterjets – and control systems according to your specific vessel application and sustainability targets.

Wärtsilä's integrated packages include:

- In-house design, manufacturing and project management that guarantees maximum efficiency and sustainability with utmost reliability
- Easy installation and commissioning
- Simple mechanical and automation interfaces to shipyard systems

Why choose Wärtsilä?

Wärtsilä can support you throughout the lifecycle of your high-speed engine installation through our global network of approximately 11,000 professionals in 160 locations. We can manage the full project from feasibility studies to execution planning and implementation for both newbuild and retrofits. For newbuild projects, Wärtsilä can help you with selecting the right solution for your vessel, assessing the impact on ship design and operation as well as financial and compliance implications.

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