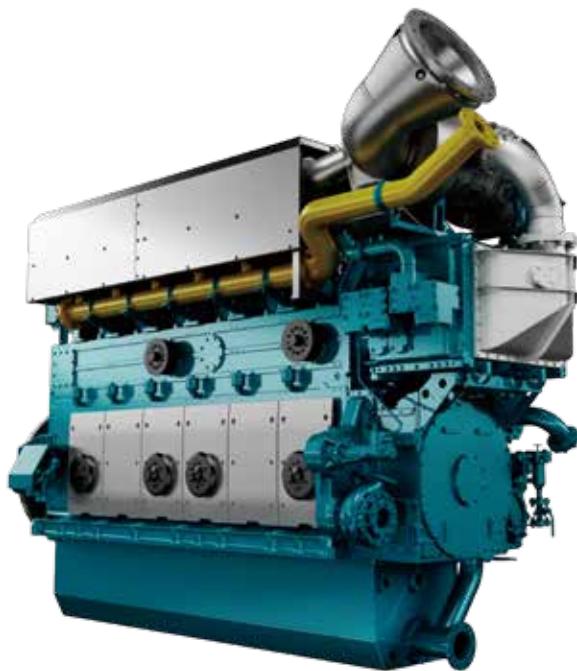


**NIIGATA NIIGATA POWER SYSTEMS CO., LTD.**<http://www.niigata-power.com/english/index.html>

28AHX-DF



- The 28AHX-DF is an environmentally friendly engine, satisfying IMO Tier III NOx regulations. It uses clean gas combustion, making it possible to meet the new regulations without the need for an exhaust gas processing reactor.
- The 28AHX-DF offers both gas and diesel operation modes. It can be instantly switched at full load from gas to diesel operation, ensuring safe ship operation even in emergency situations.
- The 28AHX-DF is the world's first FPP directly couplable gas engine. It offers high dynamic performance equivalent to that of a diesel engine even during gas operation, as well as load pickup times, from idling to rated output, which compare favorably with diesel gas engines.

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**Environmental Technologies****YANMAR YANMAR CO., LTD.**<http://www.yanmar.com/global/>

6EY26DF



The major feature of this engine is the redundancy capability due to the use of dual fuels. This engine is possible to continue operation by changing over to the diesel mode automatically, even when the gas mode operation fail.

In addition, the micro-pilot with its intense energy, ensures stable ignition capability. And the air-flow quantity control system with the bypass and waste-gate improves the engine transient response.

These technologies enables adapt the engine as a ship propulsion engine.

Dual fuel engine has the following characteristics.

- Adaption IMO Tier 3 regulation.
- Redundancy by Dual Fuel (LNG and MDO / HFO).
- Stable ignition ability by Micro Pilot.

**INQUIRIES**

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