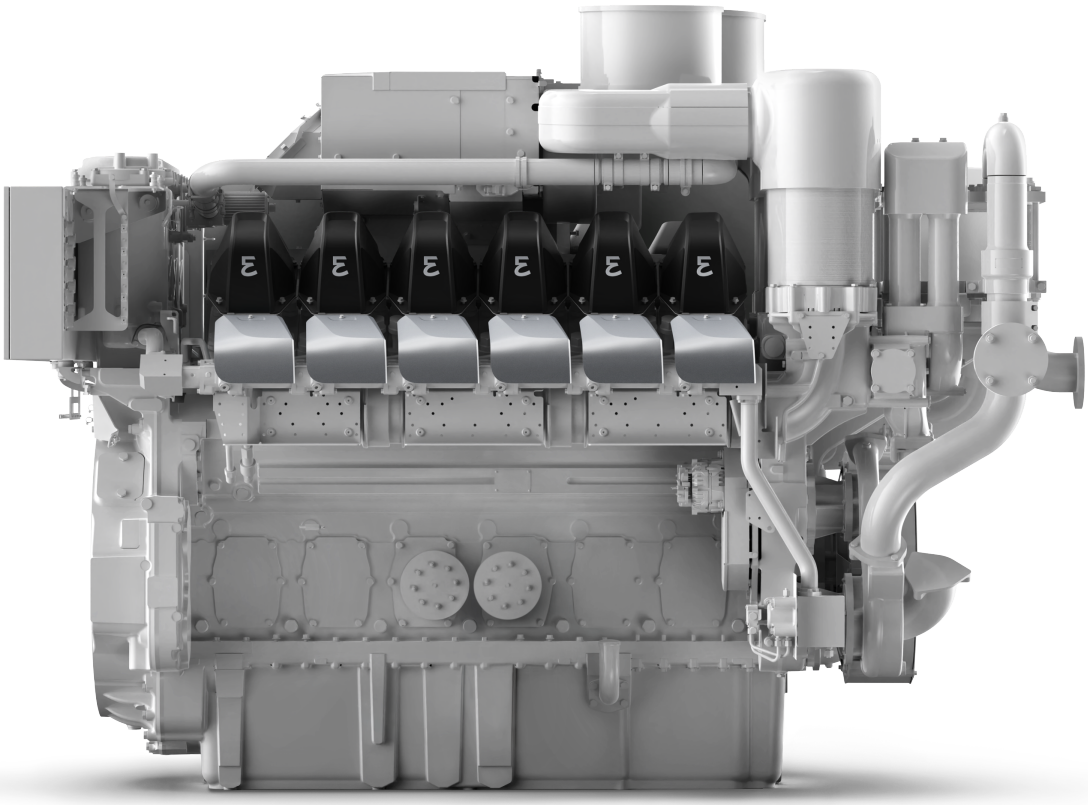
Dual fuel methanol engine

Four stroke
marine
systems

175DF-M



The future-ready, high-speed dual fuel engine 175DF-M delivers class-leading output, efficiency, and advanced methanol capability with an exceptionally high methanol share. Built on the proven 175D platform, it combines powerful high-speed performance with advanced dual fuel flexibility. The modular design supports easy maintenance and safe operation for electric and mechanical propulsion.

Benefits at a glance

- Carbon-neutral operation
- Full methanol capability
- Advanced dual-fuel flexibility
- Highly efficient and most powerful high speed engine
- Proven 175D engine platform

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175DF-M

Dual fuel methanol marine engine

Output

Engine Model	12V	16V	20V
MCR (kW)	1,500 1,860 2,040 2,280	2,480 2,720	3,100 3,400 3,800
Speed (rpm)	1,800	1,800	1,800
Operation	mechanic and electric operation (propeller curve, variable speed and constant speed)		
NO_x Emission	IMO Tier II and IMO Tier III		
Dimensions	identical to the 175D platform		

Last updated September 2026.

General

- Dual fuel methanol and diesel high-speed engine based on proven 175D platform
- High methanol share (> 90 %) for carbon-neutral operation
- Advanced common rail fuel injection system and optimized port fuel injection (PFI)
- High efficiency turbochargers for high power density and efficiency
- Integrated lubrication system for reliable operation and long service intervals
- SaCoS 5000 safety and control system
- Designed for safe methanol operation with comprehensive safety concept
- Available as propulsion engine and GenSet
- Compact SCR system for IMO Tier III and Oxicat for methanol combustion
- Optimized methanol fuel supply system and fuel valve trains
- Approval by major classification societies

Compliance with emission regulations

- IMO Tier II
- IMO Tier III in methanol operation without SCR
- IMO Tier III in diesel operation with SCR

Starting method

- Electric / pneumatic

Optional equipment

- Integrated seawater cooler and
- engine-driven seawater pump
- Lube oil centrifuge
- PTO on counter coupling side
- Alternator for battery charging
- Horizontal exhaust gas outlet
- Redundant starter
- Redundant lube oil supply
- Additional auxiliary PTO on engine sides at counter coupling end

MCR = Maximum Continuous Rating
SCR = Selective Catalytic Reduction

Everllence
86224 Augsburg, Germany
P +49 821 322-0
F + 49 821 322-3382
info@everllence.com
www.everllence.com

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