

MARINE.

Auxiliary gensets.



MAN Engines



A RELIABLE DRIVING FORCE.

Renowned manufacturers of auxiliary gensets and emergency gensets often use MAN engines. Reliable, durable and economical, MAN engines serve their purpose well in the power range from 190 kW to 800 kW.

Right: Crystal Mahler – driven by four MAN D2862 LE324, diesel-electric propulsion





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Description of Engines

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BENEFITS



- Low fuel consumption in a wide range of engine loads
- Maximum power output with a quick load pick-up
- Class-leading compactness for a space-saving design
- Best fuel consumption values and long service intervals minimizing the TCO
- Low acoustics and low vibrations
- Worldwide service network
 - spare parts available within 24 hours

Right: Magellan Explorer – driven by three
MAN D2862 LE328





MAN SERVICE FOR NON-STOP OPERATION.



Worldwide service network
most certainly represented in your area



Spare parts availability
worldwide available within 24 hours



Extended warranty
up to 5 years with Work PLUS



MAN Customer Service
as back-up from the headquarters



Servicing and maintenance plans
individually for you



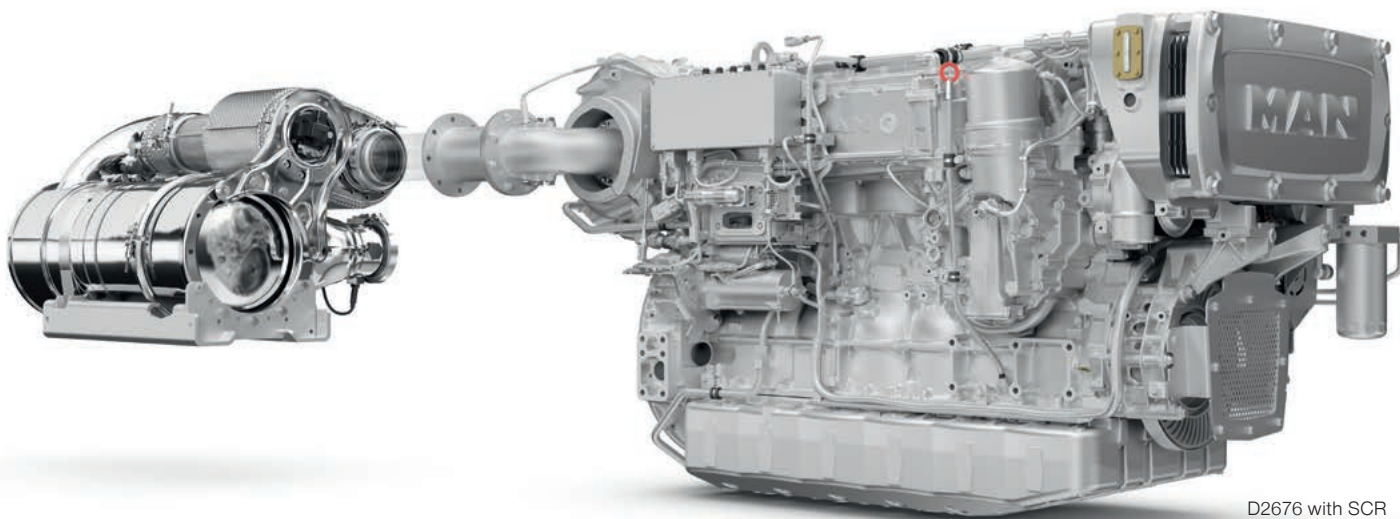
MAN Genuine Oil
customised for MAN engines



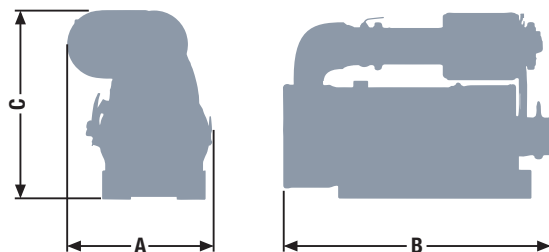
MAN Engine Academy
for a deeper understandig of engines

EXHAUST AFTERTREATMENT IMO TIER III (< 1 066 KW) AND EU STAGE V (< 300 KW).

Flexibility makes use of free space – also when it comes to exhaust gas aftertreatment: Individual components of the modular exhaust gas aftertreatment kit from MAN Engines, which can be positioned variably, enable a wide range of installation variants as well as maximum design freedom when installed in machinery and vehicles.



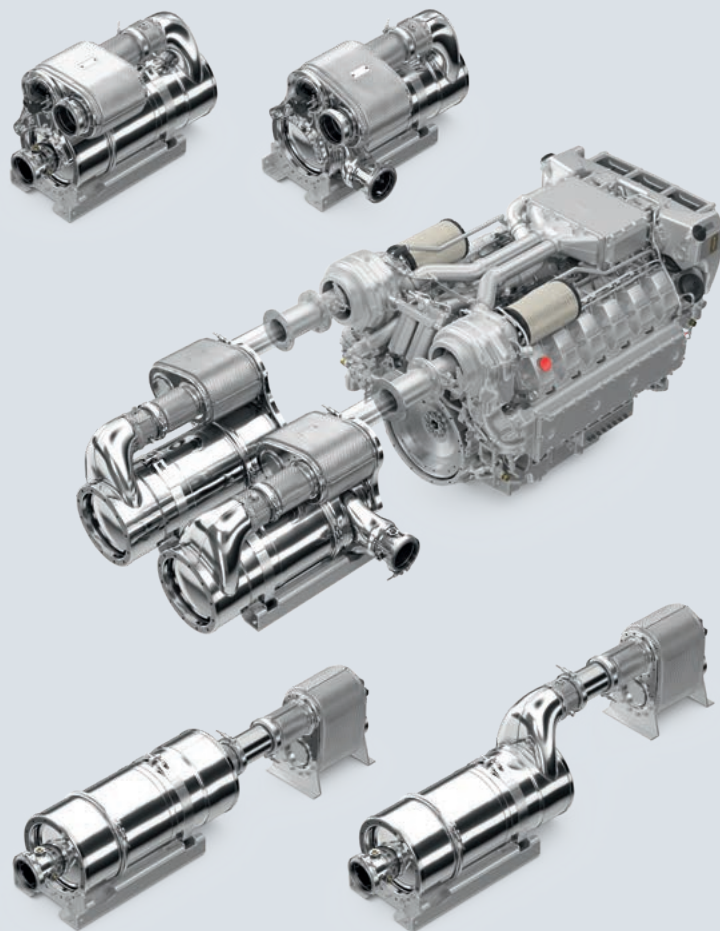
D2676 with SCR



Dimensions

Type designation		SCR system
A-Overall width	mm	500
B-Overall length	mm	950
C-Overall height	mm	655
Average weight of SCR system	kg	115

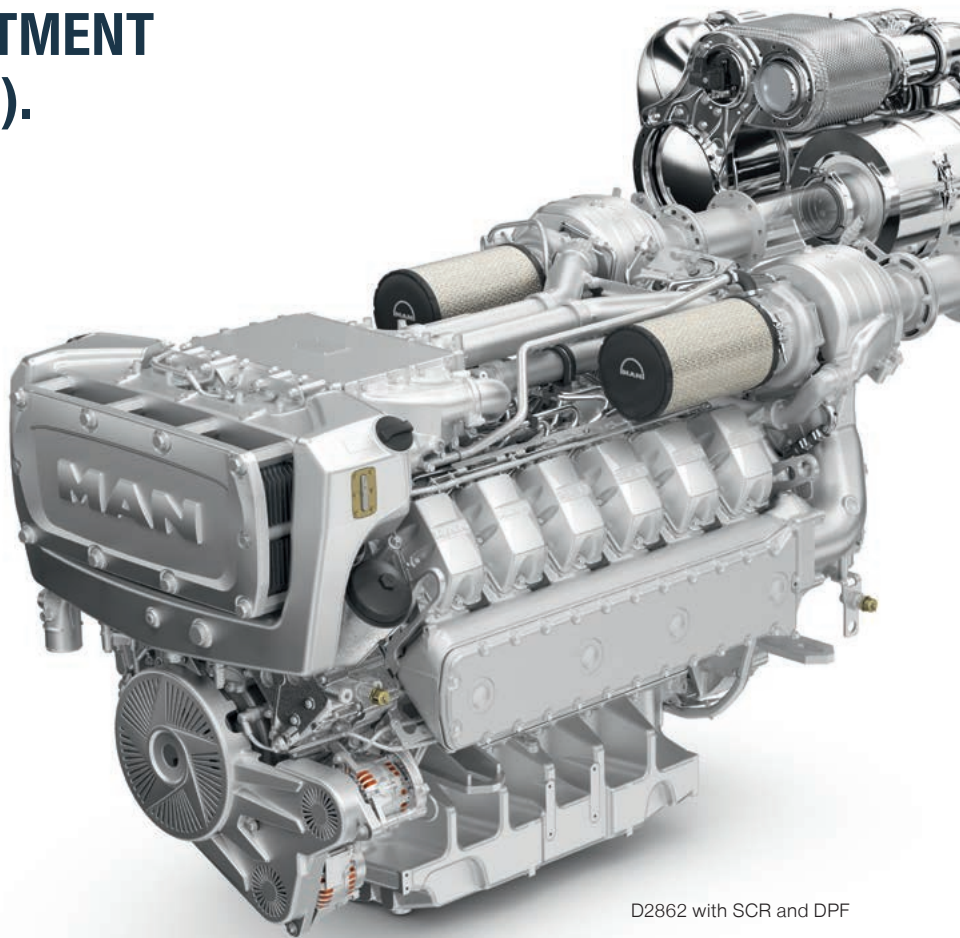
For detailed examinations of installation dimensions, please order drawings from our factory.



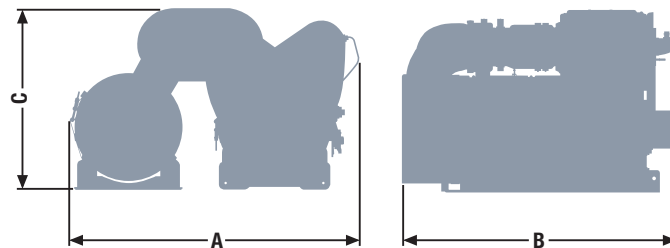
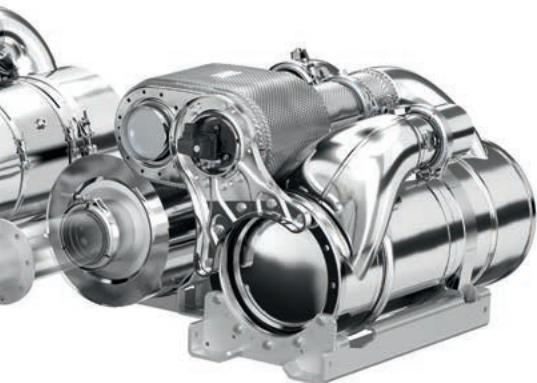
EXHAUST AFTERTREATMENT EU STAGE V (> 300 KW).

MAN Engines expands its commercial marine engine portfolio to EU Stage V engines for inland waterway transport in a range from 368 kW (500 PS) to 1,066 kW (1450 PS).

For power ratings above 300 kW MAN Engines relies on selective catalytic reduction (SCR) and diesel particulate filters (DPF) to achieve the emission standards complying with EU Stage V.



D2862 with SCR and DPF



Dimensions EU Stage V

Type designation		SCR + DPF
A-Overall width	mm	960
B-Overall length	mm	950
C-Overall height	mm	620
Average weight of SCR system	kg	180

For detailed examinations of installation dimensions, please order drawings from our factory.

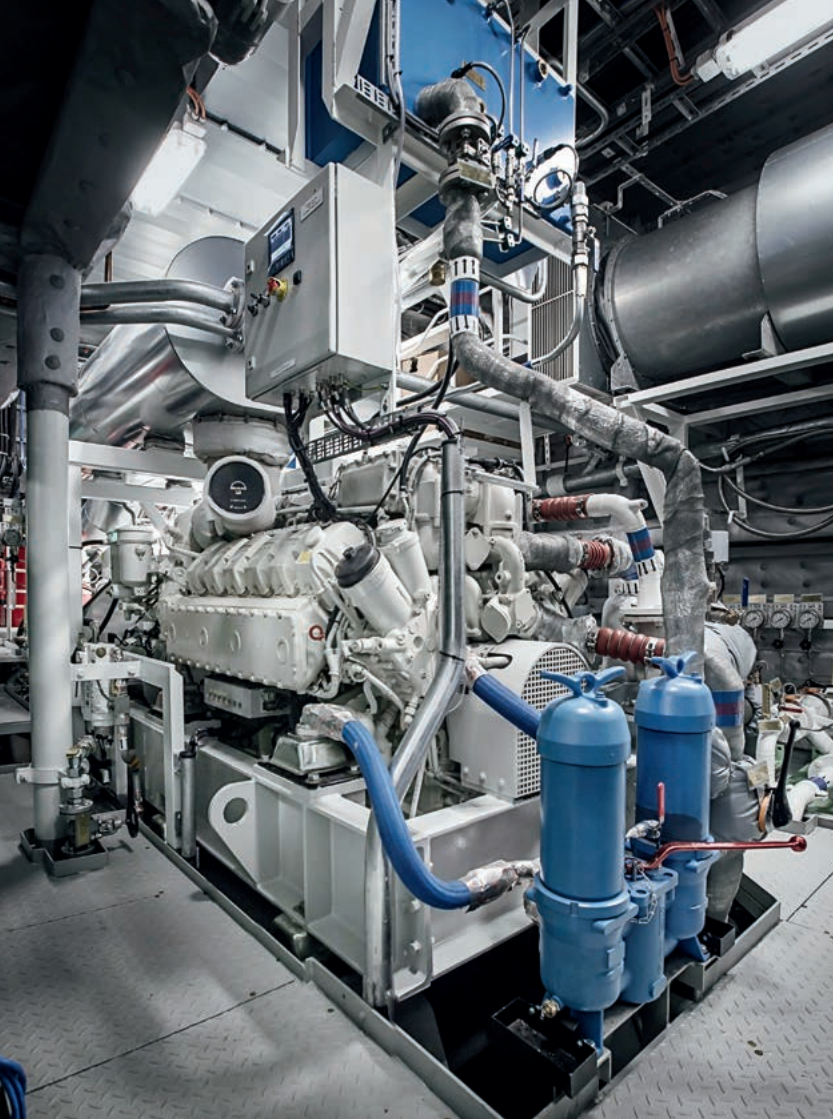
EXTENDED WARRANTY. MORE COMFORT FOR YOUR BUSINESS.

All MAN engines for working boats are delivered ex works with a one-year warranty. This warranty is valid for the entire scope of supply from MAN, and is therefore also valid for all engine parts. Wearing parts and components that have to be replaced at regular maintenance intervals are excluded from the warranty.

You have the option of taking out additional coverage for yourself and your investment beyond the one-year warranty: Work PLUS offers an extension of the warranty by up to four additional years, meaning that the total warranty would be up to 5 years. The operating hours of your engine will depend on the application.



For more information, please contact your local dealer.



Benefits

- Work PLUS extensions cover all MAN components in the engine room, including cost-intensive components such as the electronics and turbo charger
- The transferability of the extension increases the resale value of your vessel
- All repairs are carried out by an authorised MAN service partner
- You can be sure that only MAN Genuine Parts are used

MAN GENUINE PARTS. AVAILABLE 24/7 WORLDWIDE.



Benefits

- High utilization of your ship and flexibility when organising your journeys
- Quick alternative in original manufacturer quality
- Standard two-year warranty on all MAN Genuine Parts and MAN Genuines Parts ecoline
- Delivery to 2,000 shipping addresses in 95 countries

Of course, the premium quality of MAN engines is also reflected in high-quality MAN Genuine Parts. And because “first class” doesn’t only apply to our products here at MAN Engines, we ensure that our MAN Genuine Parts are available within 24 hours on working days. This is made possible by our global service network, external warehouses across all the continents, and the logistics network of our MAN utility vehicles. This round-the-clock availability for MAN Genuine Parts applies to working days, and is for all spare parts for maintenance work on MAN engines for commercial shipping, such as filters, turbochargers, seawater pumps, seals and many more. Our genuine engines deserve MAN Genuine Parts with two-year warranty and worldwide around-the-clock availability.

MAN ENGINE ACADEMY. CUSTOMISED SERVICE CONCEPT.

Regular maintenance intervals for marine engines are essential for perfect functioning and a long service life. The MAN Engine Academy offers theoretical and practical training in operation, diagnostic strategies and maintenance. Technically experienced experts train certified service centers as well as the service personnel of sales partners and end customers at the MAN Engine Academy. Course participants have the opportunity to familiarize themselves with the engine in the Academy's modern training environment. The training courses can also be held online and individually adapted to the respective requirements of the participant.



AUXILIARY GENSETS.

Characteristics

- Annual operating hours: $\leq 5,500$ h
- Average load application: ≤ 75 %

EMERGENCY GENSETS.

Characteristics

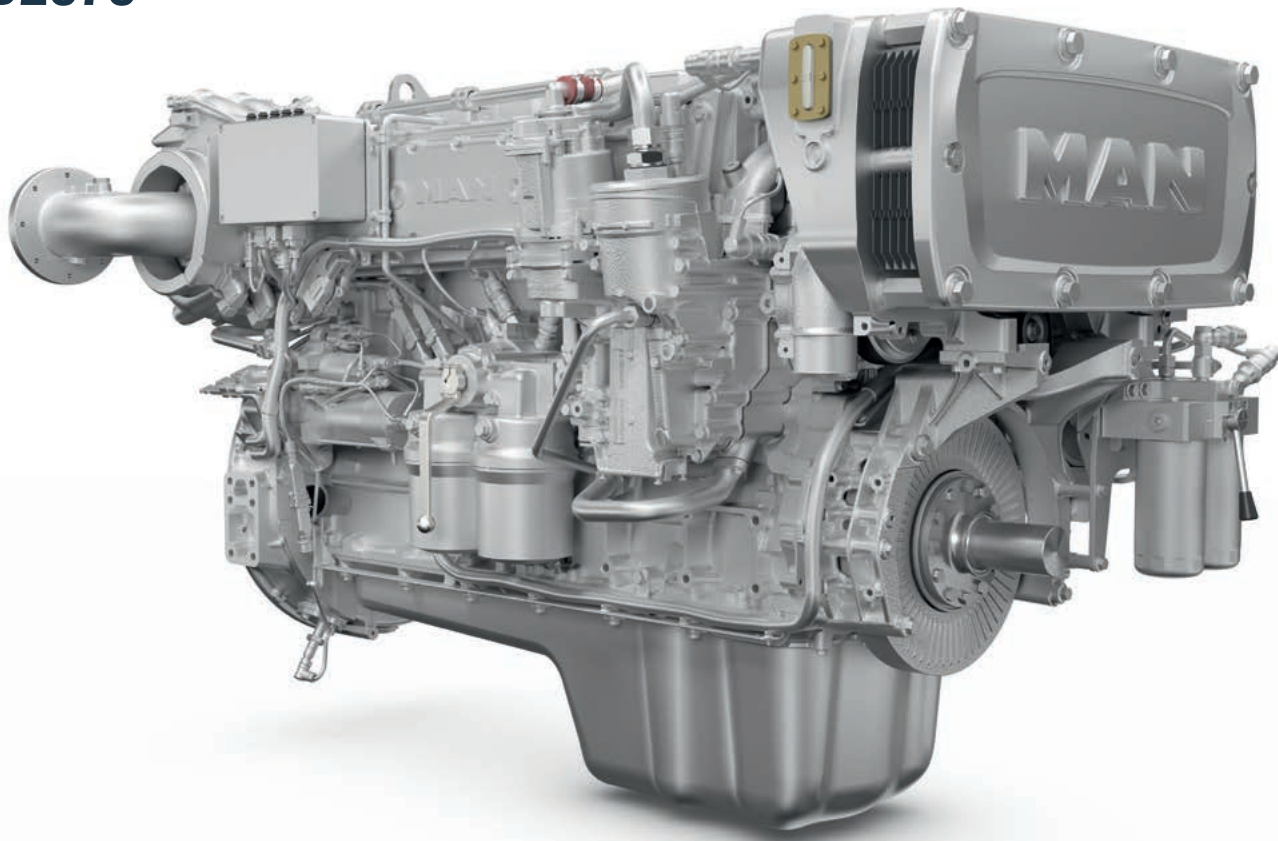
- Annual operating hours: $\leq 1,000$ h
- Average load application: unlimited

Right: Blue Marjan Parsifal – driven by two MAN E3262





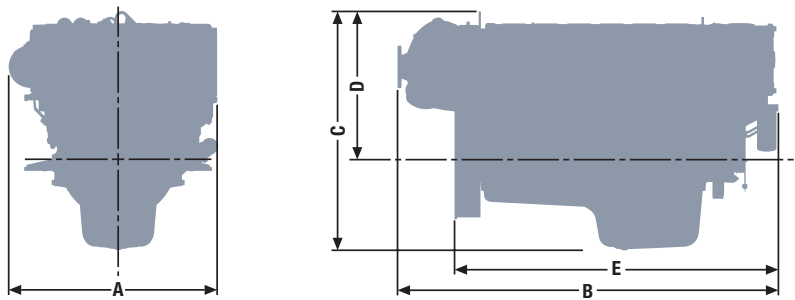
D2676



Characteristics

- Cylinders and arrangement: 6 cylinders in-line
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Turbocharger with charge air intercooler and wastegate
- Number of valves: 4 valves per cylinder
- Fuel system: Common Rail direct fuel injection with electronic control
- Engine block: High-strength casting with integrated oil and water ducts and replaceable cylinder liners
- Engine lubrication: Force-feed lubrication, lubrication oil cooler in cooling water circuit of the engine
- Type of cooling: Heat exchanger with engine and seawater circuit or for keel cooling
- Engine control: Electronic engine monitoring including diagnostic unit
- Fuel: DIN EN 590

D2676



Dimensions

Type designation		LE 321/322/323/327/328/332
A	Overall width	mm983
B	Overall length	mm1,763
C	Overall height with standard oil pan	mm1,103
D	Top of engine to crankshaft centre	mm686
E	Length from front end to edge of flywheel housing	mm1,494
Average weight of engine ready for installation (dry)		kg1,251

For detailed examinations of installation dimensions, please order drawings from our factory.

Technical features

		Auxiliary gensets			
Type designation		LE 332		LE 322	
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
Displacement	l	12.42	12.42	12.42	12.42
Nominal rating ¹⁾	kW (hp)	190 (258)	220 (299)	280 (381)	330 (449)
Specific fuel consumption					
– at rated power	g/kWh	210	208	203	199
– at 75 % load ¹⁾	g/kWh	213	213	205	201
Classifiable		✓	✓	✓	✓
Exhaust gas aftertreatment		–	–	–	–
Exhaust gas status		IMO Tier II	IMO Tier II	IMO Tier II	IMO Tier II

1) Tolerance +5 % according to DIN ISO 3046-1

D2676

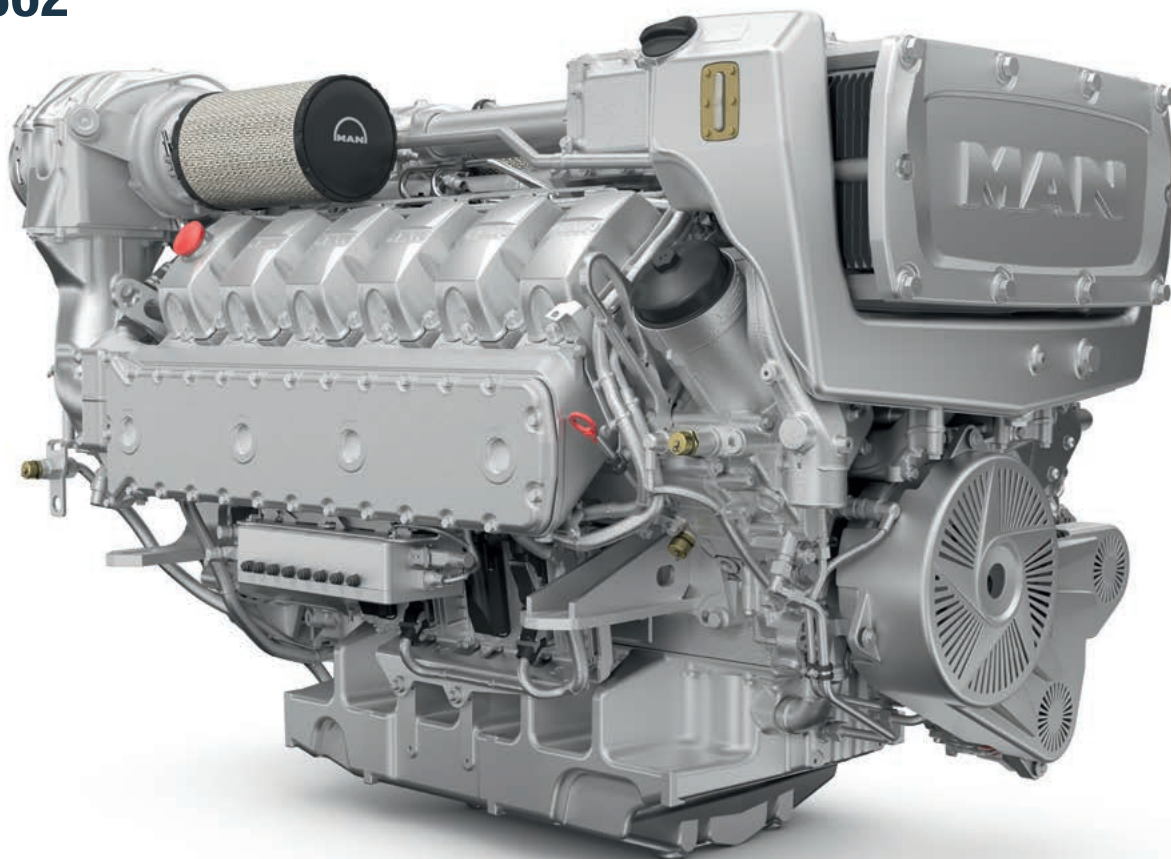
Technical features

		Auxiliary gensets			
Type designation		LE 328		LE 327	
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
Displacement	l	12.42	12.42	12.42	12.42
Nominal rating ¹⁾	kW (hp)	290 (394)	290 (394)	360 (490)	410 (558)
Specific fuel consumption					
– at rated power	g/kWh	197	201	195	202
– at 75 % load ¹⁾	g/kWh	196	201	195	199
Classifiable		✓	✓	✓	✓
Exhaust gas aftertreatment		✓	✓	✓	✓
Exhaust gas status		IMO Tier III, EU Stage V	IMO Tier III, EU Stage V	IMO Tier III	IMO Tier III

1) Tolerance +5 % according to DIN ISO 3046-1

Auxiliary gensets		Emergency gensets	
LE 321		LE 323	
1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
12.42	12.42	12.42	12.42
375 (510)	445 (605)	375 (510)	445 (605)
200	198	200	198
200	197	200	197
✓	✓	✓	✓
-	-	-	-
IMO Tier II	IMO Tier II	IMO Tier II	IMO Tier II

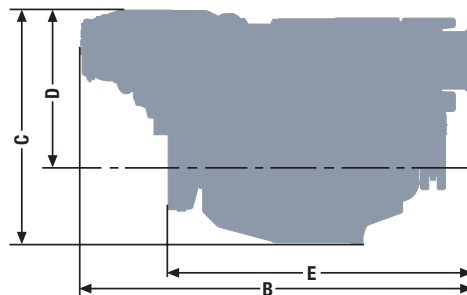
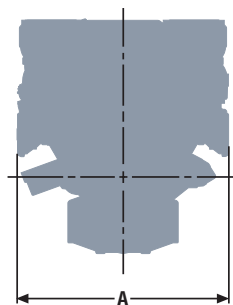
D2862



Characteristics

- Cylinders and arrangement: 12 cylinders in 90° V arrangement
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Turbocharger with charge air intercooler and wastegate
- Number of valves: 4 valves per cylinder
- Fuel system: Common Rail direct fuel injection with electronic control
- Engine block: High-strength casting with integrated oil and water ducts and replaceable cylinder liners
- Engine lubrication: Closed system with forced feeding, oil cooling and filtering
- Type of cooling: Plate heat exchanger, seawater circuit or for keel cooling
- Engine control: Electronic engine monitoring including diagnostic unit
- Fuel: DIN EN 590

D2862



Dimensions

Type designation			LE 321/323	LE 327/32A/32D	LE 322	LE 328/32B/32E
A	Overall width	mm	1,273	1,151	1,273	1,151
B	Overall length	mm	2,129	2,003	2,119	2,023
C	Overall height with standard oil pan	mm	1,282	1,268	1,305	1,281
D	Top of engine to crankshaft centre	mm	815	803	838	816
E	Length from front end to edge of flywheel housing	mm	1,629	1,608	1,629	1,608
Average weight of engine ready for installation (dry)			kg	2,280	2,280	2,280

For detailed examinations of installation dimensions, please order drawings from our factory.

Technical features

		Auxiliary gensets			
Type designation		LE 322		LE 328	
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
Displacement	l	24.24	24.24	24.24	24.24
Nominal rating ¹⁾	kW (hp)	600 (816)	700 (952)	600 (816)	700 (952)
Specific fuel consumption					
– at rated power	g/kWh	196	200	195	199
– at 75 % load ¹⁾	g/kWh	198	202	196	199
Classifiable		✓	✓	✓	✓
Exhaust gas aftertreatment		–	–	✓	✓
Exhaust gas status		IMO Tier II	IMO Tier II	IMO Tier III	IMO Tier III

1) Tolerance +5 % according to DIN ISO 3046-1

D2862

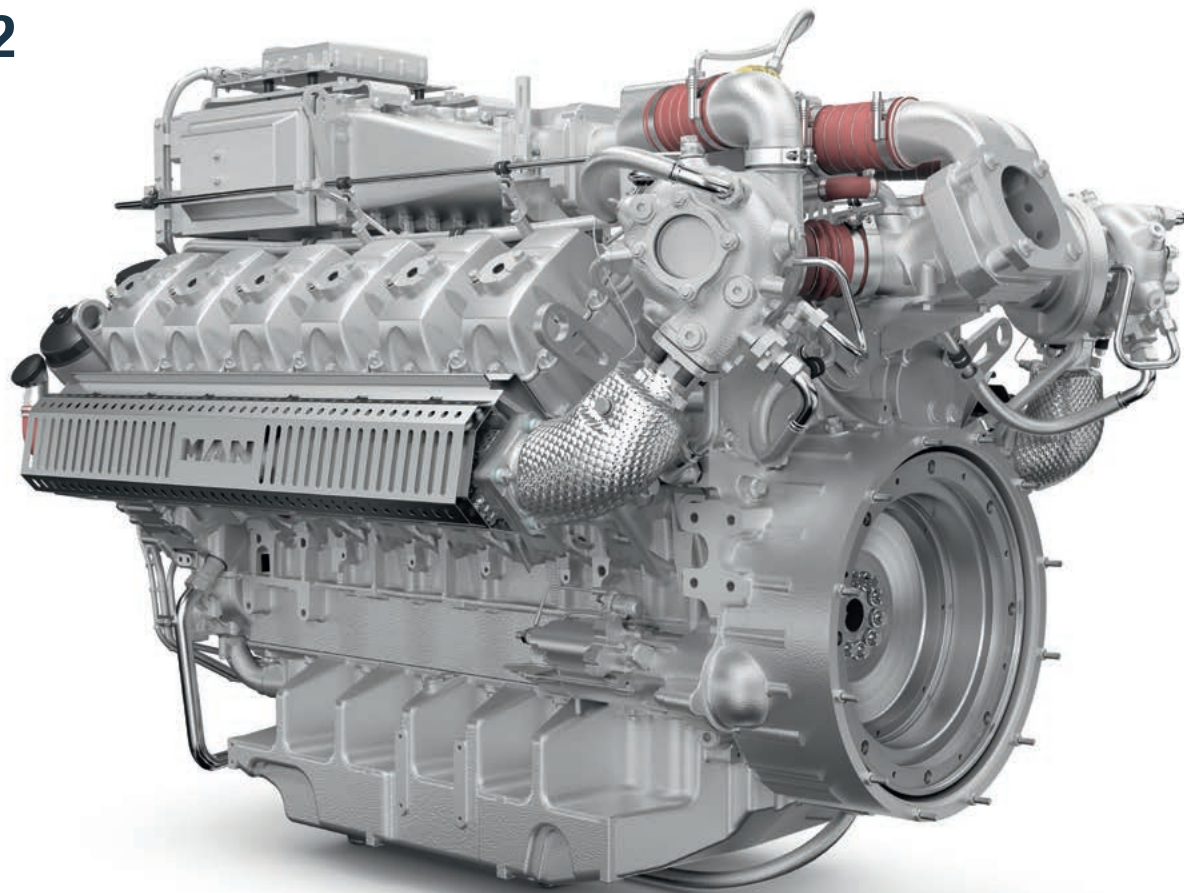
Technical features

		Auxiliary gensets			
Type designation		LE 32B	LE 32E	LE 321	
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
Displacement	l	24.24	24.24	24.24	24.24
Nominal rating ¹⁾	kW (hp)	600 (816)	700 (952)	700 (952)	800 (1088)
Specific fuel consumption					
– at rated power	g/kWh	196	198	197	198
– at 75 % load ¹⁾	g/kWh	196	198	198	201
Classifiable		✓	✓	✓	✓
Exhaust gas aftertreatment		✓	✓	–	–
Exhaust gas status		IMO Tier III, EU Stage V	IMO Tier III, EU Stage V	IMO Tier II	IMO Tier II

1) Tolerance +5 % according to DIN ISO 3046-1

Auxiliary gensets				Emergency gensets	
LE 327		LE 32A	LE 32D	LE 323	
1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)	1,500 (50)	1,800 (60)
24.24	24.24	24.24	24.24	24.24	24.24
700 (952)	800 (1088)	700 (952)	800 (1088)	700 (952)	800 (1088)
199	202	198	200	197	198
197	201	197	198	198	201
✓	✓	✓	✓	✓	✓
✓	✓	✓	✓	–	–
IMO Tier III	IMO Tier III	IMO Tier III, EU Stage V	IMO Tier III, EU Stage V	IMO Tier II	IMO Tier II

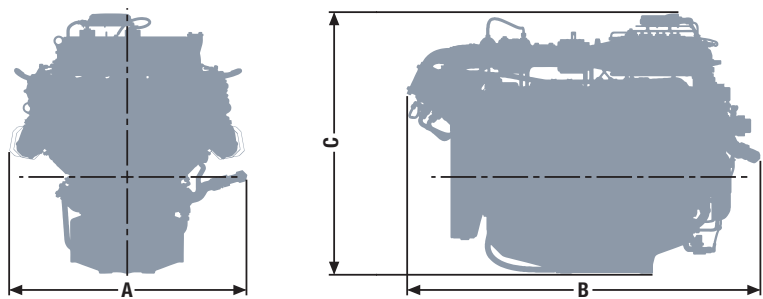
E3262



Characteristics

- Cylinders and arrangement: 12 cylinders in 90° V arrangement
- Operation mode: 4-stroke spark-ignition gas engine
- Turbocharging: Oil lubricated turbochargers with wet bearing block and wet turbine housing
- Number of valves: 4 valves per cylinder
- Exhaust pipes: Dry exhaust pipes with heat insulation cover and cover against direct contact
- Fuel: Natural gas

E3262



Dimensions

Type designation		LE 262
A	Overall width	mm
B	Overall length	mm
C	Overall height with standard oil pan	mm
	Average weight of engine ready for installation (dry)	kg

For detailed examinations of installation dimensions, please order drawings from our factory.

Technical features

		Auxiliary genset	
Type designation		LE 262	
Rated speed	rpm (Hz)	1,500 (50)	1,800 (60)
Bore	mm	132	132
Stroke	mm	157	157
Displacement	l	25.78	25.78
ISO standard power ¹⁾	kW (hp)	500 (680)	525 (714)
Air-fuel ratio	λ	1.69	1.71
Coolant heat ²⁾	kW	269	315
Exhaust heat based on 120 °C ²⁾	kW	288	329
Efficiency ²⁾ :			
– mechanical	%	40.3	38.0
– thermal	%	49.3	46.6
– total	%	89.6	84.6
Classifiable		✓	✓
Exhaust gas status		EU Stage V	IMO Tier III, EU Stage V

1) Tolerance +5 % according to DIN ISO 3046-1

2) At 100 % load

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