

MARINE.

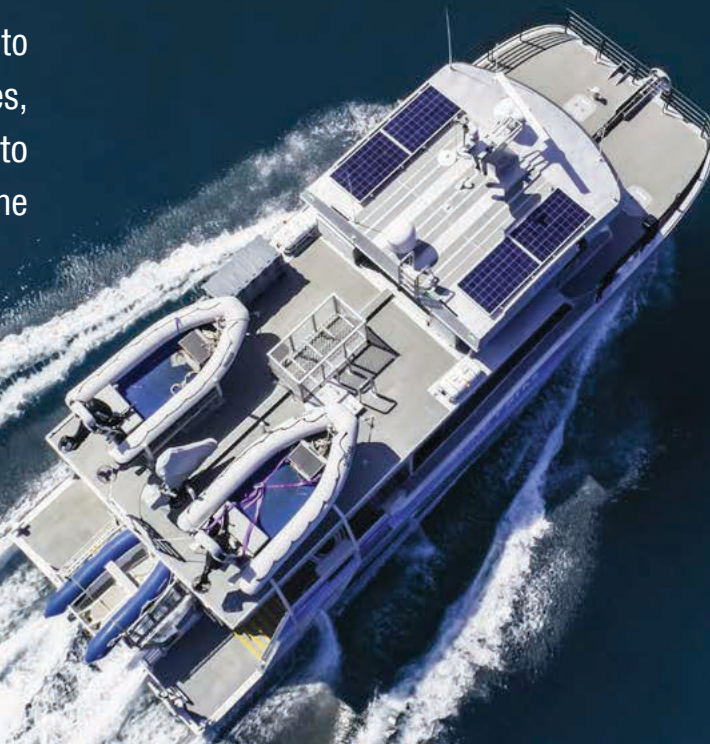
High speed propulsion engines.

MAN Engines

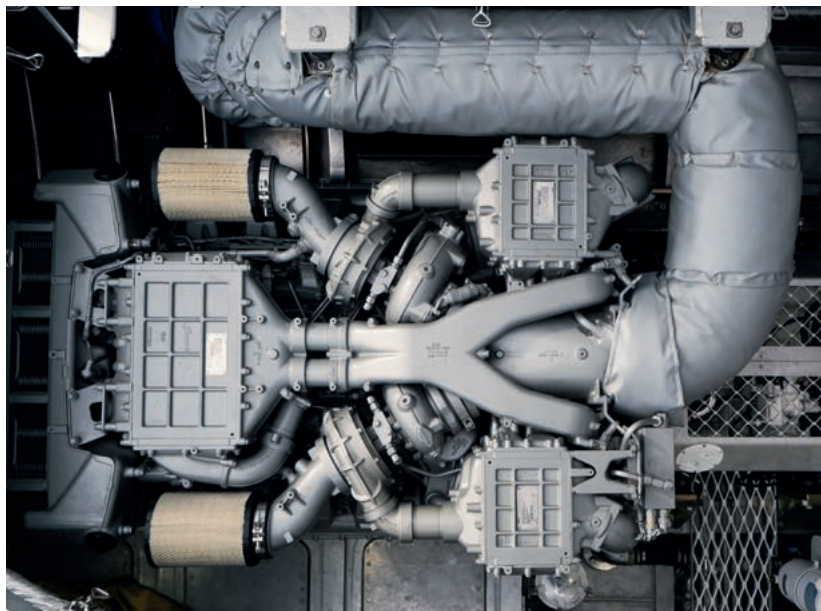


A RELIABLE DRIVING FORCE.

At sea, ships and boats have to contend with elemental forces, while ports require them to navigate precisely through the narrowest of corridors.



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Description of Engines

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Benefits

- Maximum torque at the most fuel efficient point of operation
- Maximum torque across a large range of engine speed for a powerful and steady acceleration
- 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
- Continuous 24/7 hotline support around the clock, 365 days a year

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



MAN 24/7 Hotline

available 24 hours a day, 365 days a year



Servicing and maintenance plans

individually for you



MAN Genuine Oil

customised for MAN engines

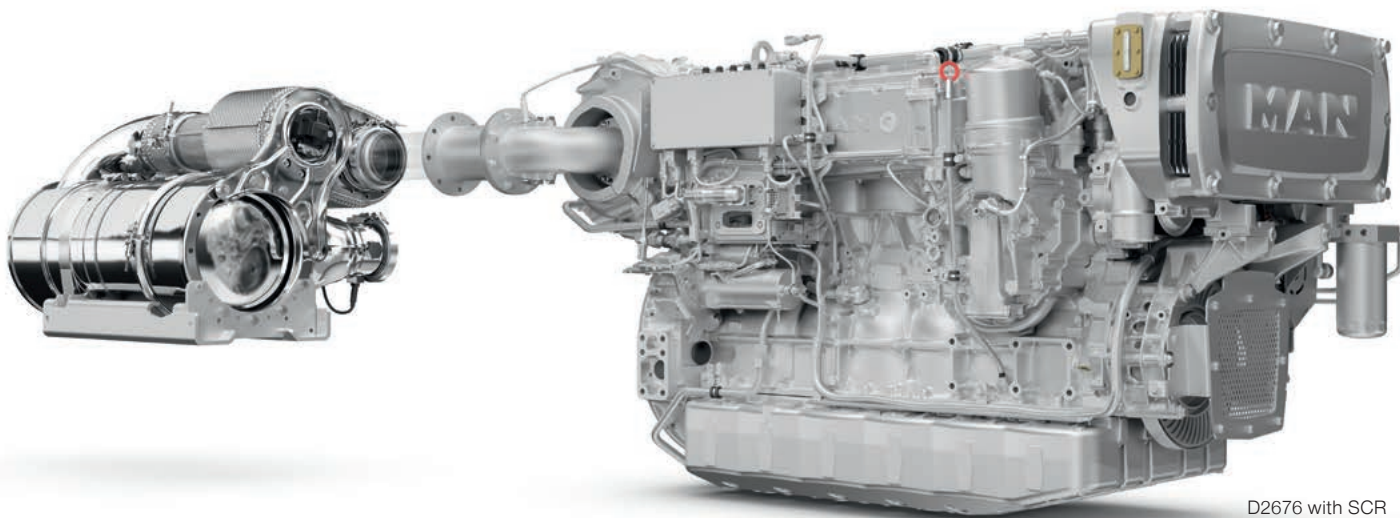


MAN Engine Academy

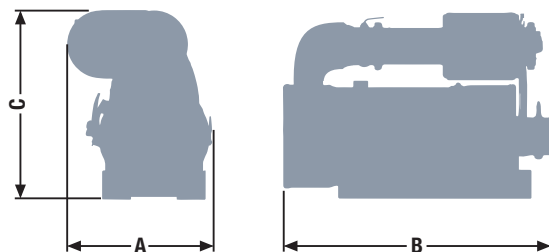
for a deeper understanding of engines

EXHAUST AFTERTREATMENT IMO TIER III/EPA TIER 4 (< 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.



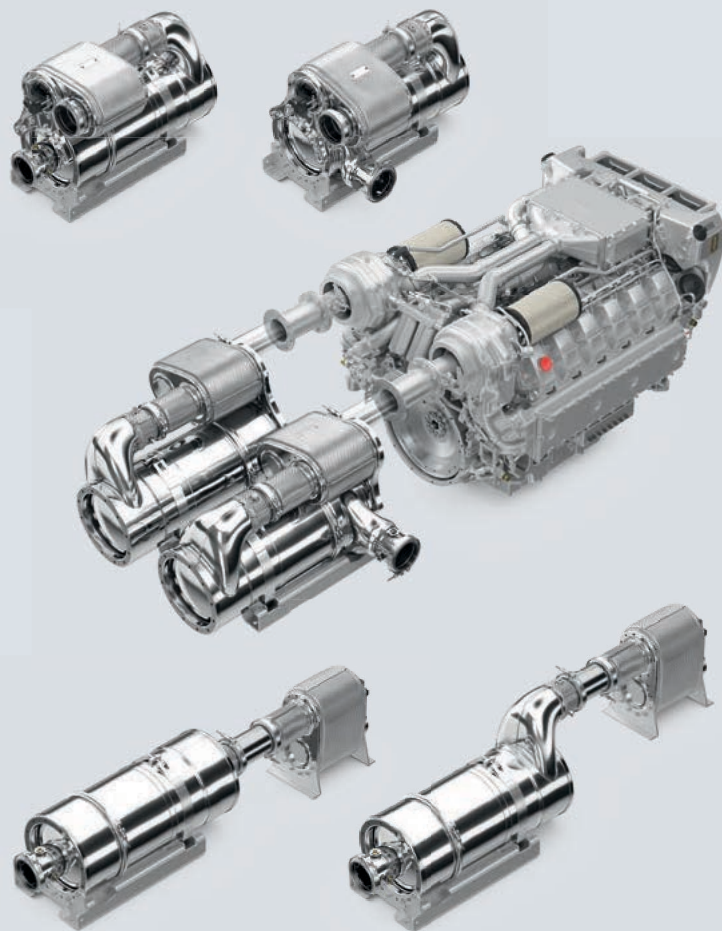
D2676 with SCR



Dimensions

Type designation		SCR system
A-Overall width	mm	555
B-Overall length	mm	950
C-Overall height	mm	663
Average weight of SCR system	kg	115

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

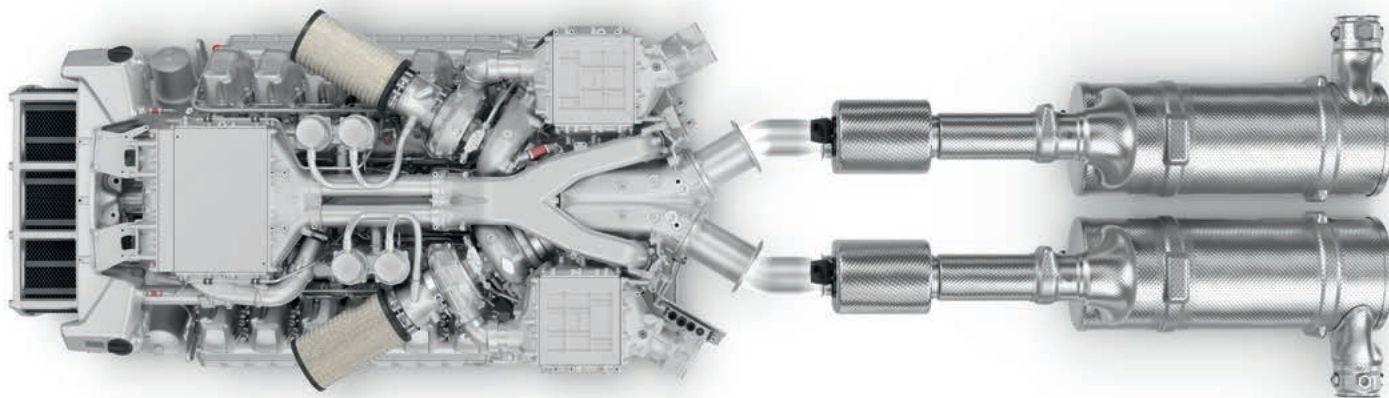


EXHAUST AFTERTREATMENT

IMO TIER III/EPA TIER 4.

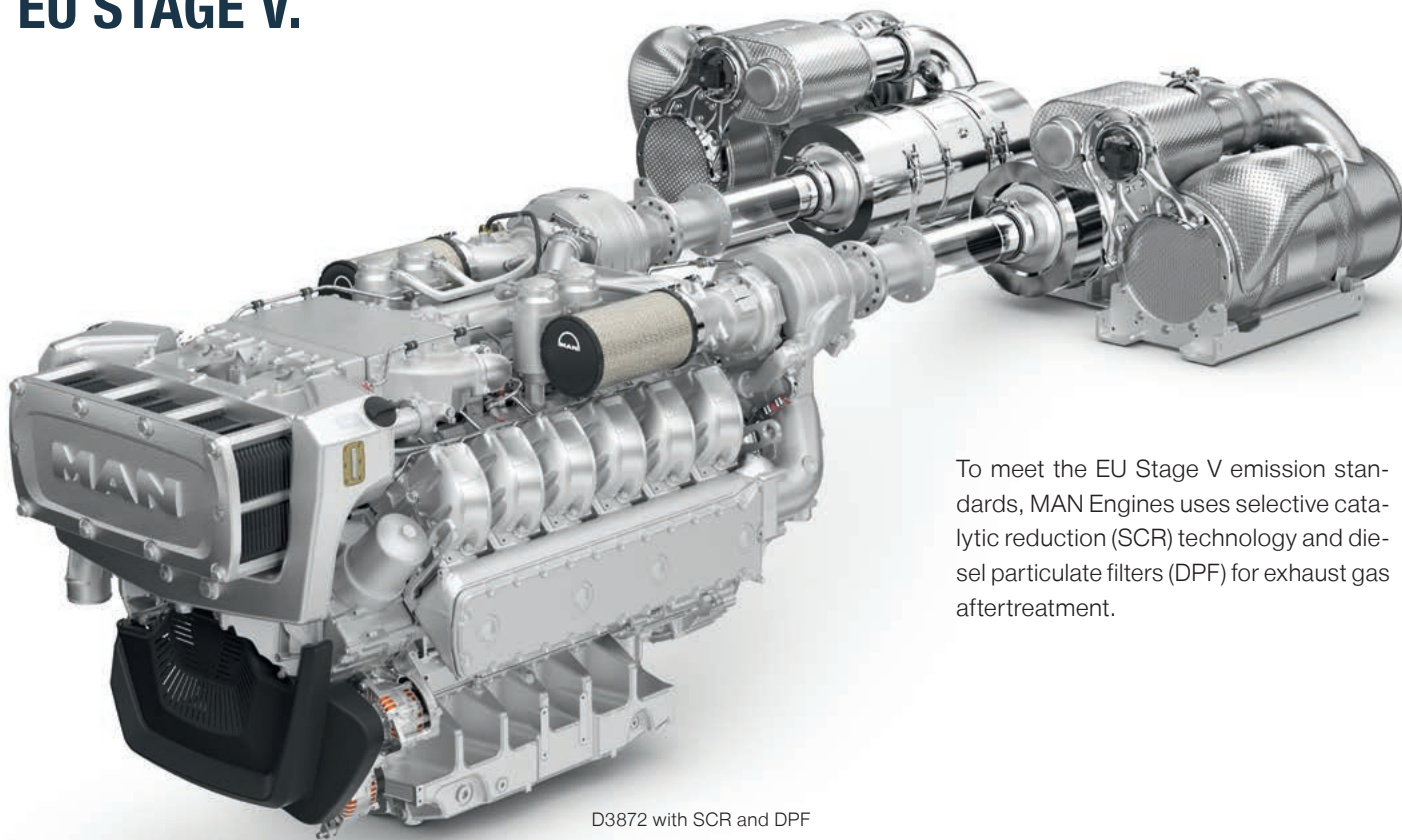
With the D3872, the commercial marine engine family has a new member that complies with IMO Tier III as well as with EPA Tier 4.

An exhaust system with two long SCR catalytic converters fulfills the emission standards according to IMO Tier III/EPA Tier 4.



D3872 with SCR

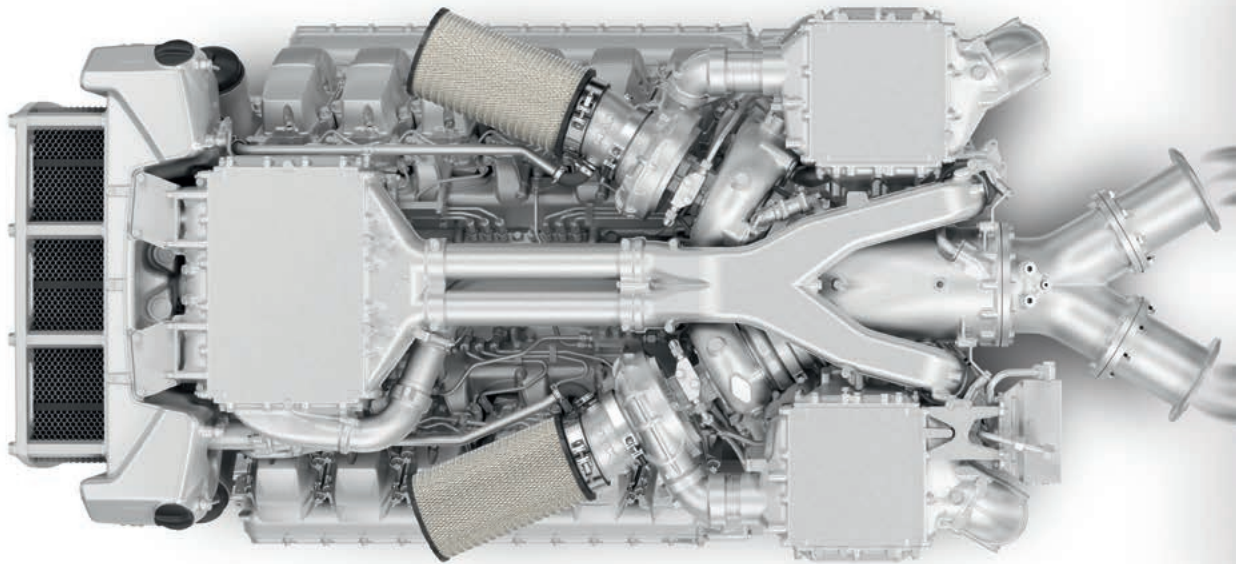
EXHAUST AFTERTREATMENT EU STAGE V.



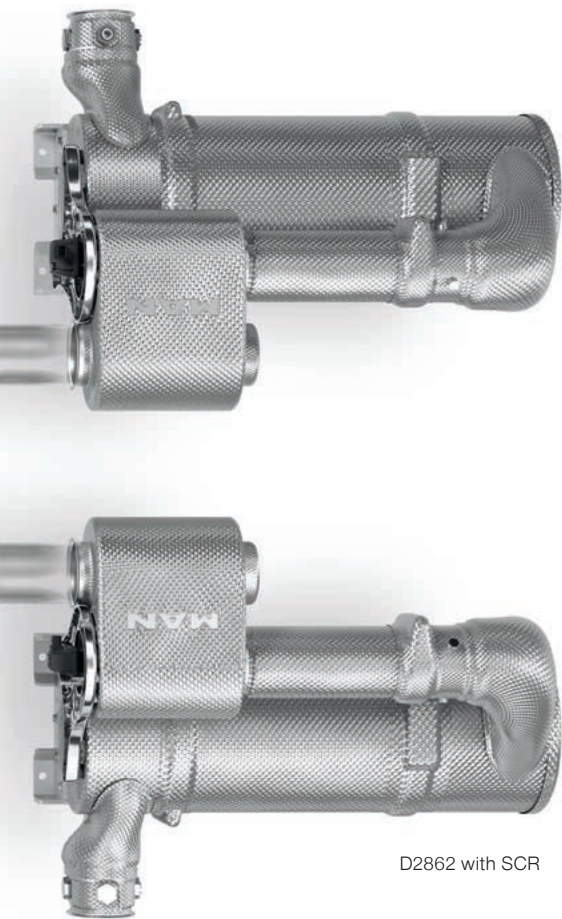
To meet the EU Stage V emission standards, MAN Engines uses selective catalytic reduction (SCR) technology and diesel particulate filters (DPF) for exhaust gas aftertreatment.

D3872 with SCR and DPF

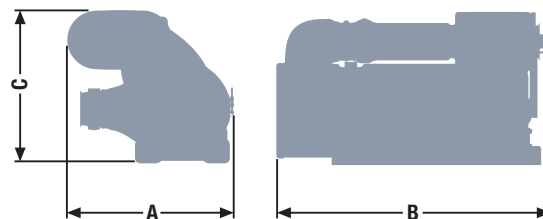
EXHAUST AFTERTREATMENT IMO TIER III (1 140–1 397 kW).



For power ratings between 1 140 and 1 397 kW MAN engines rely on selective catalytic reduction (SCR) only to achieve the emission standards complying with IMO Tier III.



D2862 with SCR



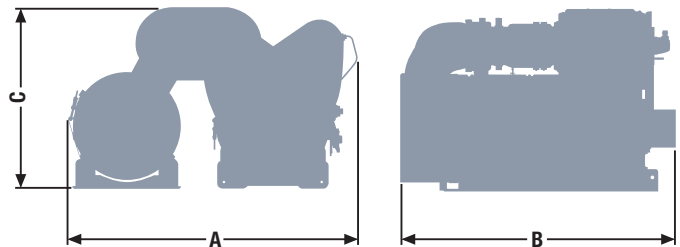
Dimensions IMO Tier III

Type designation		SCR
A-Overall width	mm	669
B-Overall length	mm	1 102
C-Overall height	mm	615
Average weight of SCR system	kg	135

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

EXHAUST AFTERTREATMENT EU STAGE V (> 300 KW).

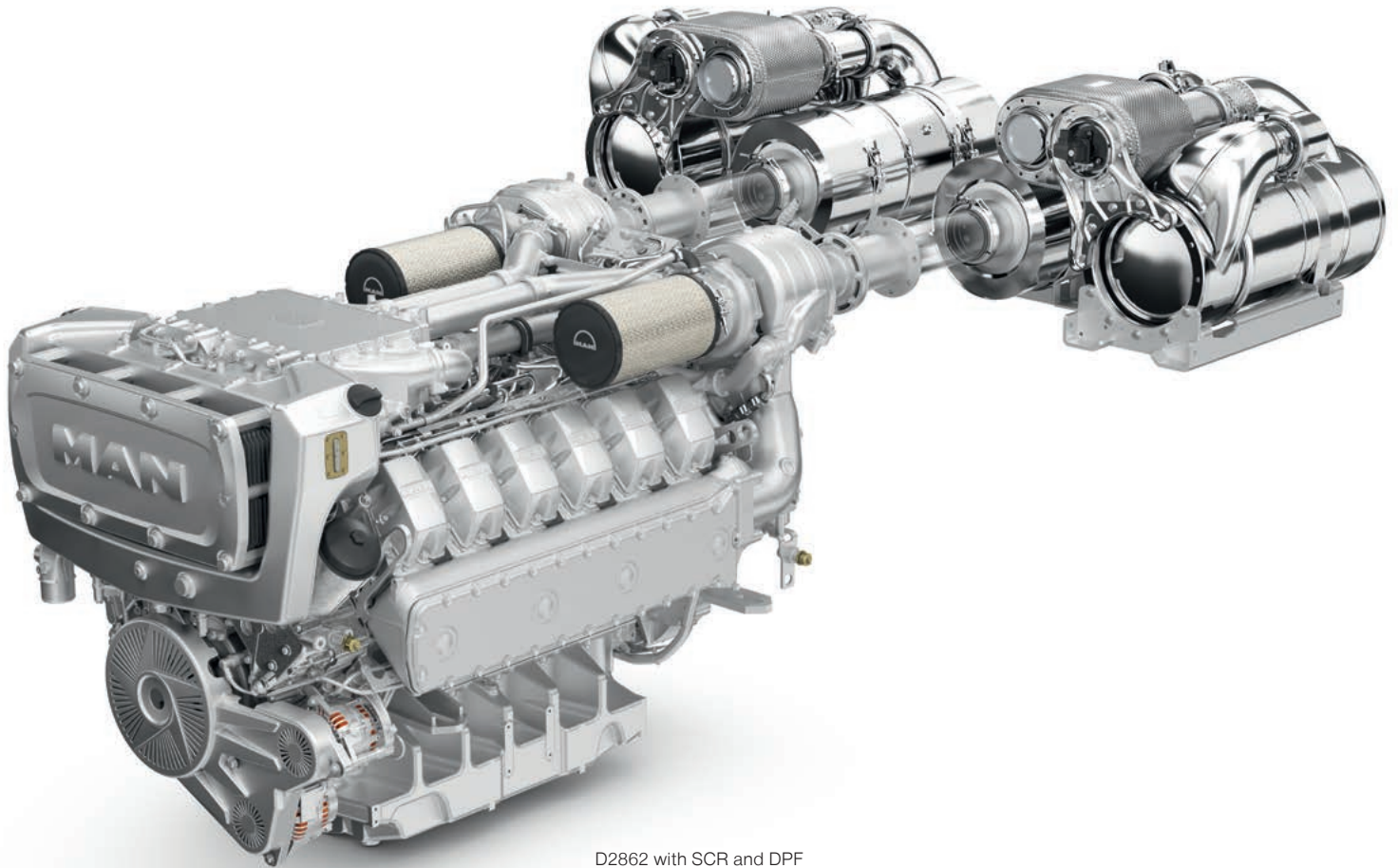
MAN Engines has expanded its commercial marine engine portfolio to EU Stage V engines for inland waterway transport in a range from 368 kW (500 PS) to 1,066 kW (1450 PS).
For power ratings above 300 kW MAN Engines relies on selective catalytic reduction (SCR) and diesel particulate filters (DPF) to achieve the emission standards complying with EU Stage V.



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.



D2862 with SCR and DPF

EXTENDED WARRANTY. MORE COMFORT FOR YOUR BUSINESS.



Benefits

- Work PLUS extensions cover all MAN engine 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

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.**

MAN GENUINE PARTS. AVAILABLE 24/7 AROUND THE WORLD.

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.



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



24/7 HOTLINE.

With its 24/7 service hotline for marine engines, MAN Engines now provides even easier access to its extensive global service network. Trained employees ensure that an expert service workshop close to you will deal with your concern and will remain in close contact with you.

If your MAN marine engine has a service case, you can receive support by phone right away at the 24/7 hotline with the following telephone numbers. Please have your engine number ready. You can find this on every engine model plate, in your maintenance record and in the registration papers.

North and Latin America: +1 754 238 6313

The rest of the world: +49 911 420 420

Please note that you may incur costs when ringing the American or German landline number.



Benefits

- Available round the clock, 365 days a year
- Free referral to a MAN service outlet
- Access to almost 500 service stations
- Continuous support until the service case is concluded

iSEA ENGINE ELECTRONIC.



Benefits

- Modern multifunction touch screen display (5", 7" or 10")
- Maximum space savings thanks to visualisation of 7 peripherals on a single display: instrumentation, alarm handling, start/stop panel, emergency drive, CAN converter, video screen, digital I/O
- Reduction in number of cables thanks to proven CAN bus wiring

iSea Intelligent monitoring of engines, gearboxes and exhaust gas aftertreatment on working boats: that's iSea (intelligent surveillance of engines and auxiliaries) from MAN Engines. iSea provides state of the art technology but still looks good – with the optional iSea bridge display. With its numerous connection options and interfaces it is the ideal solution for use on the world's limitless oceans. All the MAN Engines components are perfectly coordinated and intuitively designed. iSea is the future that gives you the best view of the present.



Throttle lever

A modern classic, the MAN throttle lever for single or multiple engine systems is used in various drive concepts, as well as in hybrid drives.

Different modes can be selected at the push of a button. The MAN throttle lever makes sailing and docking more efficient than ever before.

- A perfectly coordinated system offering excellent fuel savings and system reliability
- Better running properties and increased convenience thanks to ergonomic, high quality operator controls
- Less space required thanks to integration of the controller into the iSea box





REMOTE MONITORING. NEW POSSIBILITIES WITH iSEA CONNECTIVITY.

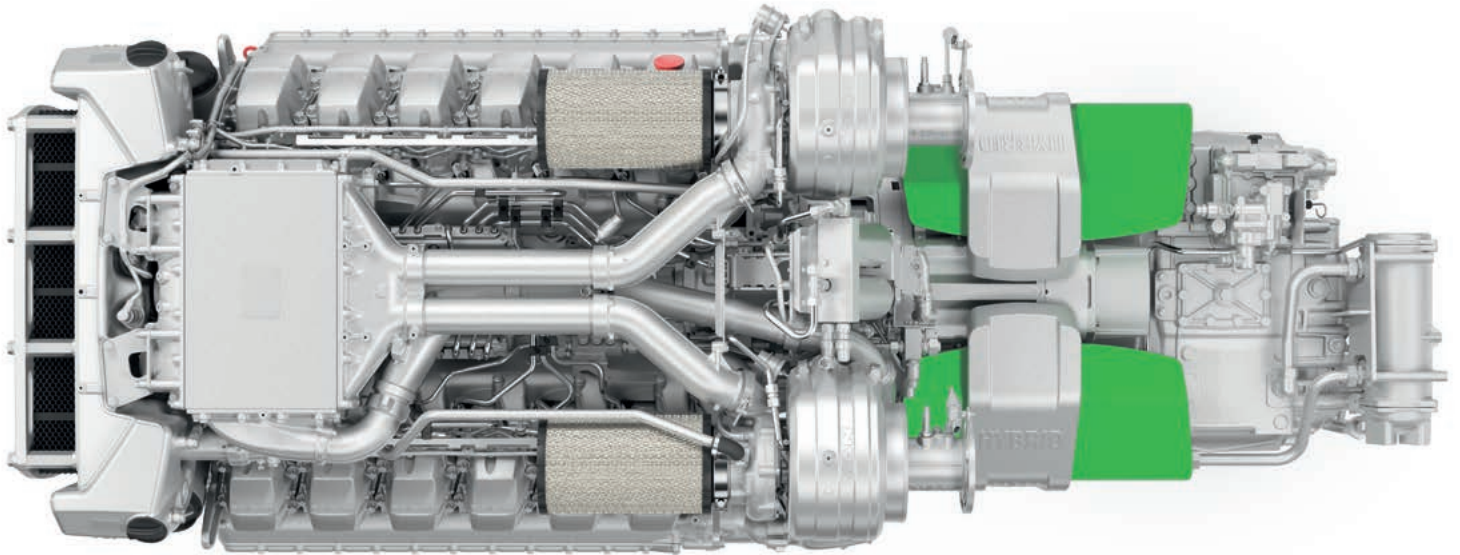
Retrieve and evaluate all important engine data from anywhere? The optional remote monitoring via the MAN Engines Marine Web Interface shows ship owners and MAN service employees the current status of MAN engines (with iSea engine electronics) on board the customer's own fleet around the clock. Fuel consumption, speeds, emissions, load spectra, alarm lists and snapshots of measurement data are displayed. MAN service employees can also access the diagnostic memory, the alarm history and live measurement data.



Benefits

- Monitoring of fuel consumption, emissions and driving profile to increase efficiency across the entire fleet
- Time and cost-saving initial diagnosis (and troubleshooting if necessary) remotely by MAN service employees
- Additional time savings and reduced down-times due to the provision of spare parts triggered immediately during the initial diagnosis if required
- Simple and secure remote control in the web browser via secured data connections with maximum data protection

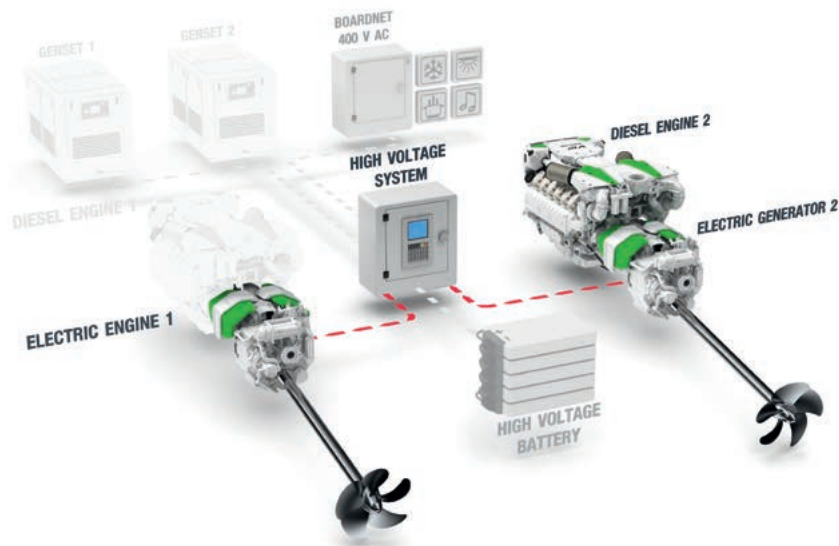
MAN SMART HYBRID EXPERIENCE. CHANGE OF MOBILITY ON THE WATER.



MAN Engines is ushering in a new era of zero-emission mobility, maximum performance based on intelligent solutions, and comfortable cruising for marine engines. The modular MAN Smart Hybrid Experience is tailored to your individual needs and wishes and is specifically configured with this in mind.

The ability to flexibly combine conventional marine engines and electric motors with batteries and on-board units opens up countless opportunities for incorporating different degrees of hybrid power in leisure craft as well as commercial applications. Based on the desired operating modes, the MAN hybrid system can focus the driving profiles on performance, comfort or efficiency.

MAN Engines offers a tailored solution for your specific hybrid needs.



Please get in touch with our numerous operating modes!





LIGHT DUTY.

Characteristics

- Annual operating hours:
 $\leq 1,000$
- Percentage of time at full load: $\leq 20\%$
- Average load application:
 $\leq 50\%$



Typical applications

- Season fishing
- Escort boats and patrol boats
- Ambulance boats
- Police boats

MEDIUM DUTY.

Characteristics

- Annual operating hours: $\leq 4,000$
- Percentage of time at full load: $\leq 60\%$
- Average load application: up to 70% depending on engine type

Typical applications

- Escort boats and pilot boats
- Fishing boats
- Passenger boats and ferries
- Cruising vessels
- Seagoing patrol boats



HEAVY DUTY.

Characteristics

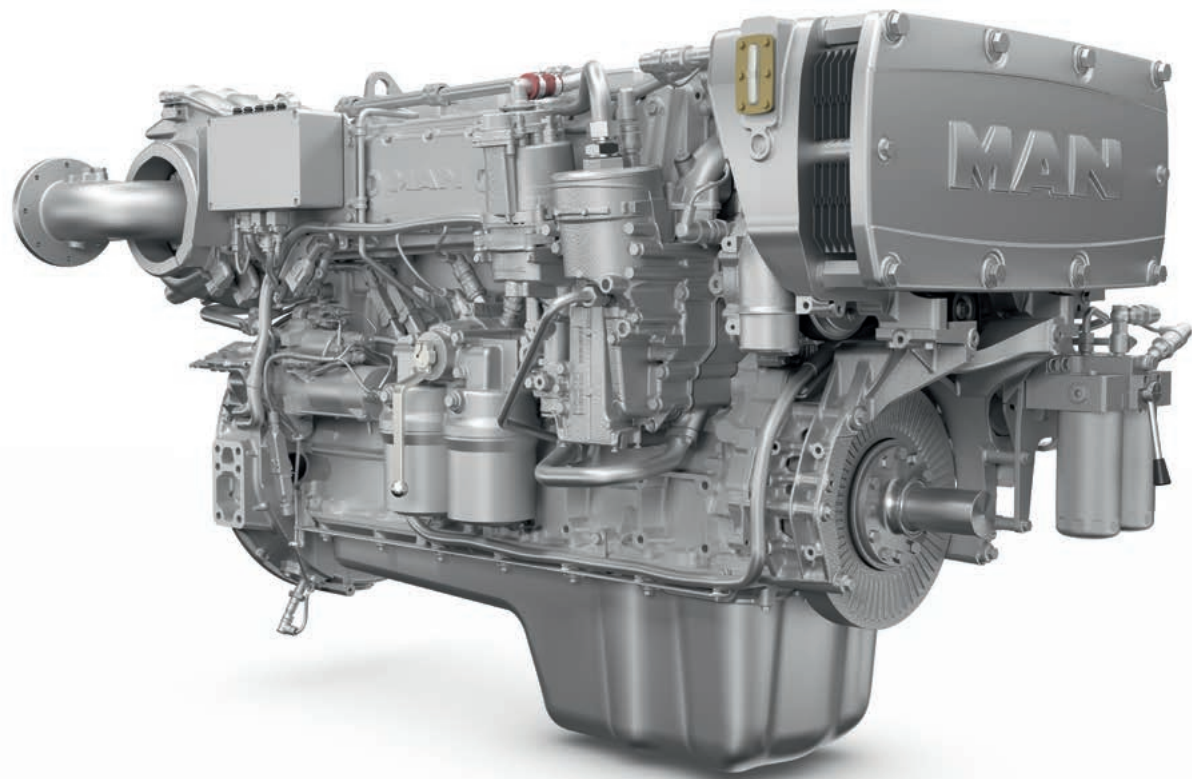
- Annual operating hours: unlimited
- Percentage of time at full load: $\leq 100\%$
- Average load application: $\leq 100\%$

Typical applications

- Trawlers
- Tugs and pushboats
- Freight barges and freighters
- Ferries
- Dredgers



D2676

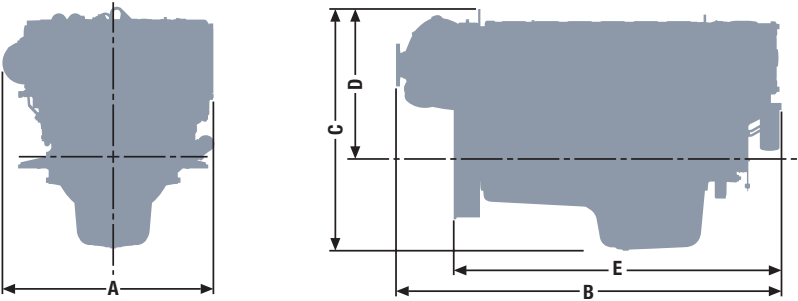


D2676

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 high pressure pump and 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: Seawater cooled charge air cooler, plate heat exchanger by rubber impeller pump
Optional: external keel cooling
- Engine control: Electronic injection control (EDC) with engine monitoring including diagnostic unit
- Fuel: DIN EN 590

D2676



Dimensions

Type designation 421/422		LE 422/425/426/428/432/435/438/43B/446/456/ 457/471/474/477/47A/484/487/491/494/497	
A-Overall width	mm		986
B-Overall length	mm		1,795
C-Overall height – standard oil pan	mm		1,096
D-Top of engine to crankshaft centre	mm		674
E-Length of engine from front end to edge of flywheel housing	mm		1,527
Average weight of engine ready for installation (dry)	kg		1,251

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



2 × D2676 LE477 (2 × 368 kW) with SCR

D2676

Technical features

		Light duty			Medium duty	
Type designation		LE 446	LE 426	LE 456	LE 432	LE 435
Displacement	l	12.42	12.42	12.42	12.42	12.42
Nominal rating ¹⁾	kW (hp)	537 (730)	588 (800)	625 (850)	412 (560)	412 (560)
Rated speed	rpm	2,300	2,300	2,300	2,100	2,100
Maximum torque	Nm	2,450	2,685	2,740	2,065	2,065
at speed	rpm	1,300–2,100	1,300–2,100	1,400–2,100	1,300–1,900	1,300–1,900
Lowest specific fuel consumption ¹⁾	g/kWh	206	207	214	199	207
Classifiable		✓	–	–	✓	✓
Exhaust gas aftertreatment		–	–	–	–	–
Exhaust gas status		IMO Tier II, EPA Tier 3, China 2 ²⁾ , RCD 2013/53/EC	IMO Tier II, EPA Tier 3, China 2 ²⁾ , RCD 2013/53/EC	IMO Tier II, EPA Tier 3 ²⁾ , China 2 ²⁾ , RCD 2013/53/EC	IMO Tier II	IMO Tier II, EPA Tier 3, China 2, RCD 2013/53/EC

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

2) For private use only

D2676

Technical features

Type designation	Medium duty				
	LE 438	LE 43B	LE 428	LE 422	LE 425
Displacement l	12.42	12.42	12.42	12.42	12.42
Nominal rating ¹⁾ kW (hp)	412 (560)	412 (560)	441 (600)	478 (650)	478 (650)
Rated speed rpm	2,100	2,100	2,100	2,100	2,100
Maximum torque Nm	2,075	2,071	2,214	2,402	2,402
at speed rpm	1,300–1,900	1,400–1,900	1,400–1,900	1,300–1,900	1,300–1,900
Lowest specific fuel consumption ¹⁾ g/kWh	201	200	201	201	205
Classifiable	✓	✓	✓	✓	✓
Exhaust gas aftertreatment	✓	✓	✓	–	–
Exhaust gas status	IMO Tier III	IMO Tier III, EU Stage V	IMO Tier III	IMO Tier II	IMO Tier II, EPA Tier 3, China 2, RCD 2013/53/EC

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

D2676

Technical features

Heavy duty					
Type designation	LE 457	LE 484	LE 487	LE 491	LE 494
Displacement l	12.42	12.42	12.42	12.42	12.42
Nominal rating ¹⁾ kW (hp)	221 (301)	290 (394)	290 (394)	331 (450)	331 (450)
Rated speed rpm	1,800	1,800	1,800	1,800	1,800
Maximum torque Nm	1,320	1,735	1,760	1,975	1,980
at speed rpm	1,000–1,600	1,200–1,600	1,300–1,600	1,200–1,600	1,200–1,600
Lowest specific fuel consumption ^{1) 2)} g/kWh	206	208	200	198	208
Classifiable	✓	✓	✓	✓	✓
Exhaust gas aftertreatment	✓	–	✓	–	–
Exhaust gas status	IMO Tier III, EU Stage V	IMO Tier II, EPA Tier 3, RCD 2013/53/EC	IMO Tier III, EU Stage V	IMO Tier II	IMO Tier II, EPA Tier 3, RCD 2013/53/EC

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

2) Consumption at rated power

D2676

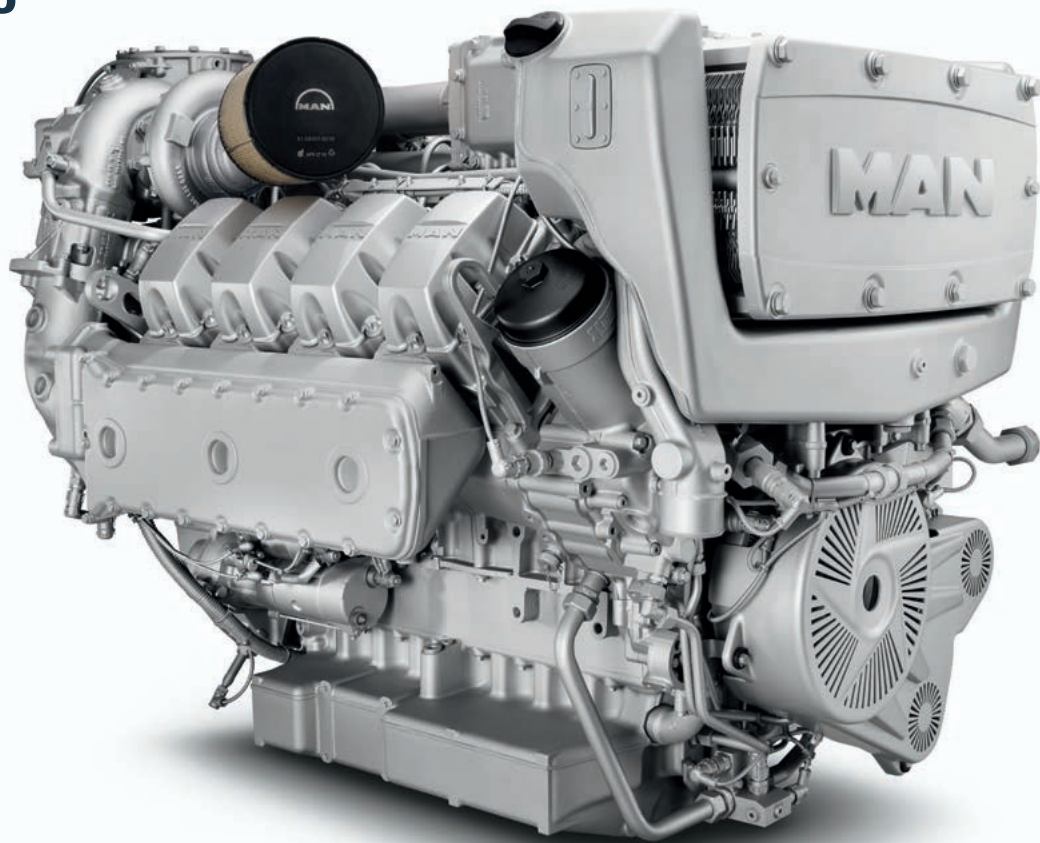
Technical features

Type designation	Heavy duty				
	LE 497	LE 471	LE 474	LE 477	LE 47A
Displacement l	12.42	12.42	12.42	12.42	12.42
Nominal rating ¹⁾ kW (hp)	331 (450)	368 (500)	368 (500)	368 (500)	368 (500)
Rated speed rpm	1,800	1,800	1,800	1,800	1,800
Maximum torque Nm	1,980	2,205	2,205	2,185	2,200
at speed rpm	1,200–1,600	1,300–1,600	1,300–1,600	1,300–1,600	1,400–1,600
Lowest specific fuel consumption ^{1) 2)} g/kWh	196	199	207	195	198
Classifiable	✓	✓	✓	✓	✓
Exhaust gas aftertreatment	✓	–	–	✓	✓
Exhaust gas status	IMO Tier III	IMO Tier II	IMO Tier II, EPA Tier 3, China 2, RCD 2013/53/EC	IMO Tier III	IMO Tier III, EU Stage V

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

2) Consumption at rated power

D2868

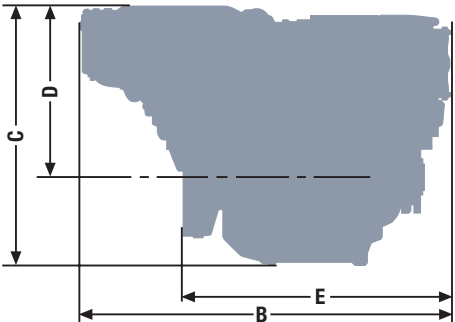
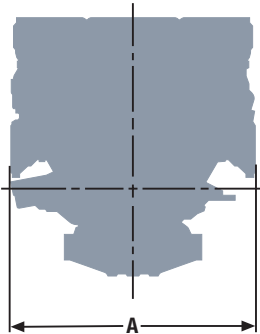


D2868

Characteristics

- Cylinders and arrangement: 8 cylinders in 90° V arrangement
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Turbocharger with charge air intercooler and wastegate
(1-stage: D2868 LE 426, 2-stage: D2868 LE 436)
- 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 cooled
Optional: external keel cooling
- Engine control: Electronic injection control (EDC) with engine monitoring including diagnostic unit
- Fuel: DIN EN 590

D2868



Dimensions

Type designation		LE 425/426/ 431/446	LE 453	LE 436/ 466	LE 428/429/ 437/449/	LE 439/ 459/469
A-Overall width	mm	1,153	1,153	1,153	1,157	1,181
B-Overall length	mm	1,745	1,745	1,736	1,647	1,807
C-Overall height – standard oil pan	mm	1,177	1,222	1,222	1,180	1,253
D-Top of engine to crankshaft centre	mm	765	811	811	769	845
E-Length of engine from front end to edge of flywheel housing	mm	1,243	1,262	1,262	1,251	1,286
Average weight of engine ready for installation (dry)	kg	1,780	1,941	1,941	1,780	1,941

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



2 × D2868 LE436 (2 × 882 kW)

D2868

Technical features

		Light duty				
Type designation		LE 426	LE 429	LE 453	LE 459	LE 436
Displacement	l	16.16	16.16	16.16	16.16	16.16
Nominal rating ¹⁾	kW (hp)	735 (1,000)	735 (1,000)	824 (1,121)	824 (1,121)	882 (1,200)
Rated speed	rpm	2,300	2,300	2,300	2,300	2,300
Maximum torque	Nm	3,345	3,345	3,745	3,710	4,010
at speed	rpm	1,400–2,100	1,300–2,100	1,200–2,100	1,200–2,100	1,200–2,100
Lowest specific fuel consumption ¹⁾	g/kWh	213	202	202	200	205
Classifiable		–	✓	✓	✓	–
Exhaust gas aftertreatment		–	✓	–	✓	–
Exhaust gas status		IMO Tier II, China 2 ²⁾ , RCD 2013/53/EC	IMO Tier III, EPA Tier 3 ²⁾	IMO Tier II	IMO Tier III, EPA Tier 4	IMO Tier II, EPA Tier 3 ²⁾ , China 2 ²⁾ , RCD 2013/53/EC

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

2) For private use only

D2868

Technical features

		Light duty		
Type designation		LE 439	LE 466	LE 469
Displacement	l	16.16	16.16	16.16
Nominal rating ¹⁾	kW (hp)	882 (1,200)	956 (1,300)	956 (1,300)
Rated speed	rpm	2,300	2,300	2,300
Maximum torque	Nm	4,005	4,350	4,230
at speed	rpm	1,300–2,100	1,300–2,100	1,300–2,100
Lowest specific fuel consumption ¹⁾	g/kWh	197	199	200
Classifiable		✓	–	–
Exhaust gas aftertreatment		✓	–	✓
Exhaust gas status		IMO Tier III, EPA Tier 3 ²⁾	IMO Tier II, EPA Tier 3 ²⁾ , China 2 ²⁾ , RCD 2013/53/EC	IMO Tier III, EPA Tier 3 ²⁾

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

2) For private use only

D2868

Technical features

Type designation		Medium duty			
		LE 425	LE 428	LE 446	LE 449
Displacement	l	16.16	16.16	16.16	16.16
Nominal rating ¹⁾	kW (hp)	588 (800)	588 (800)	662 (900)	662 (900)
Rated speed	rpm	2,100	2,100	2,100	2,100
Maximum torque	Nm	2,955	2,930	3,325	3,310
at speed	rpm	1,400–1,900	1,300–1,900	1,400–1,900	1,400–1,900
Lowest specific fuel consumption ¹⁾	g/kWh	211	206	214	204
Classifiable		✓	✓	✓	✓
Exhaust gas aftertreatment		–	✓	–	✓
Exhaust gas status		IMO Tier II, EPA Tier 3, China 2, RCD 2013/53/EC	IMO Tier III	IMO Tier II, China 2, RCD 2013/53/EC	IMO Tier III, EPA Tier 4

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

D2868

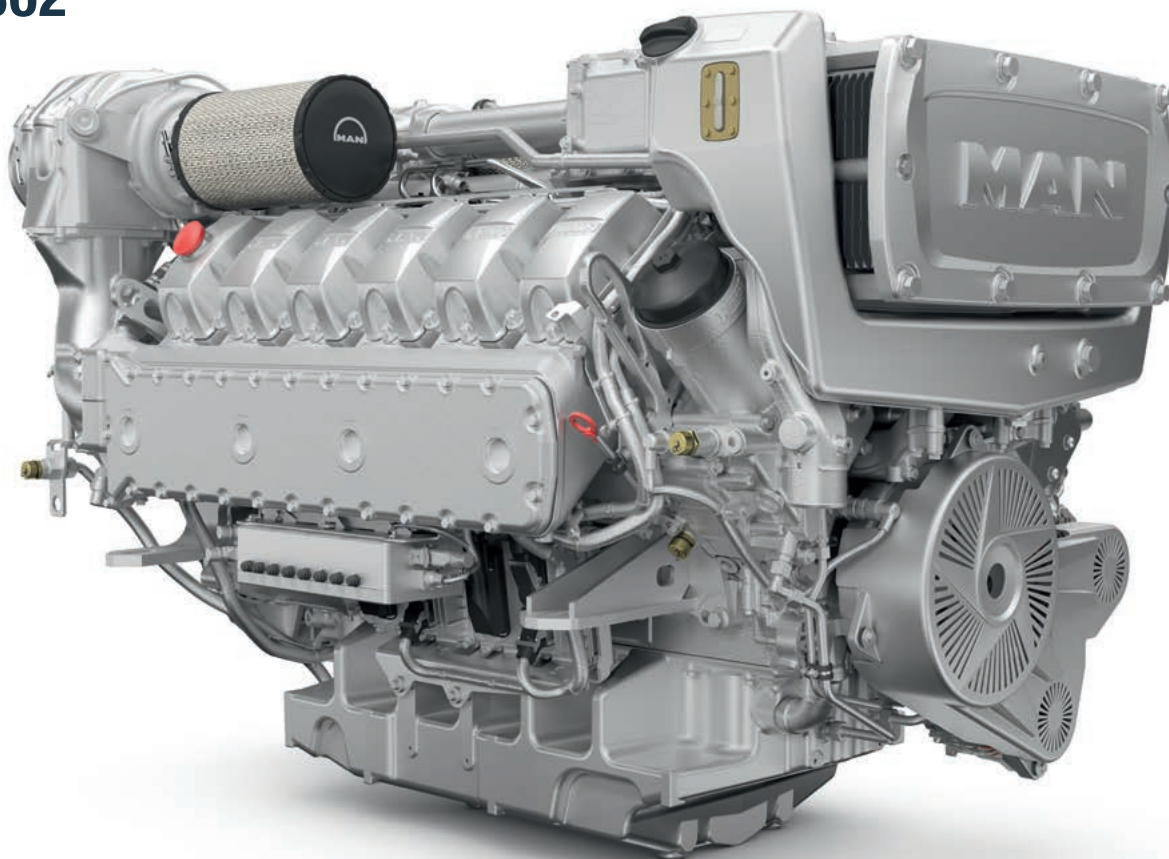
Technical features

		Heavy duty	
Type designation		LE 431	LE 437
Displacement	l	16.16	16.16
Nominal rating ¹⁾	kW (hp)	500 (680)	500 (680)
Rated speed	rpm	1,800	1,800
Maximum torque	Nm	3,000	2,985
at speed	rpm	1,100–1,600	1,300–1,600
Lowest specific fuel consumption ¹⁾	g/kWh	199	201
Classifiable		✓	✓
Exhaust gas aftertreatment		–	✓

Exhaust gas status	IMO Tier II	IMO Tier III
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¹⁾ Tolerance +5 % according to DIN ISO 3046-1

D2862

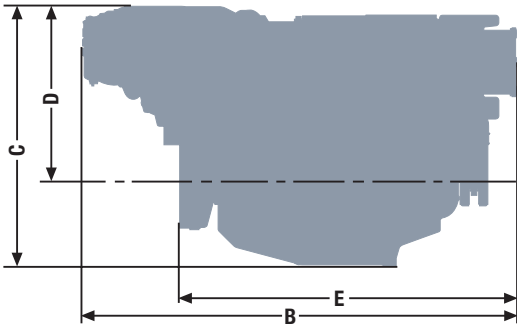
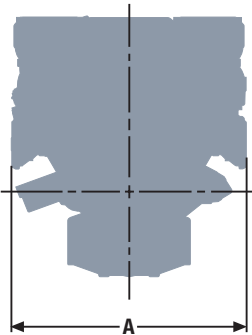


D2862

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
(1-stage: D2862 LE 446/426, 2-stage: D2862 LE 456/436/476/489/483)
- 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 cooled
Optional: external keel cooling
- Engine control: Electronic injection control (EDC) with engine monitoring including diagnostic unit
- Fuel: DIN EN 590

D2862



Dimensions

Type designation		LE 424/425/426/ 435/444/446/ 454/466	LE 429/436/439/456/ 459/476/479/483/ 489/48B/496/499	LE 427/428/437/ 438/43B/447/ 44A/469
A-Overall width	mm	1,153	1,153	1,157
B-Overall length	mm	2,130	2,139	1,939
C-Overall height – standard oil pan	mm	1,230	1,272	1,293
D-Top of engine to crankshaft centre	mm	765	808	827
E-Length of engine from front end to edge of flywheel housing	mm	1,630	1,658	1,608
Average weight of engine ready for installation (dry)	kg	2,270	2,420	2,270

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



1×D2862 LE44A (1×735kW)

D2862

Technical features

		Light duty			
Type designation		LE 446	LE 426	LE 429	LE 456
Displacement	l	24.24	24.24	24.24	24.24
Nominal rating ¹⁾	kW (hp)	1,029 (1,400)	1,140 (1,550)	1,140 (1,550)	1,213 (1,650)
Rated speed	rpm	2,300	2,300	2,300	2,300
Maximum torque	Nm	4,680	5,185	5,180	5,510
at speed	rpm	1,200–2,100	1,200–2,100	1,200–2,100	1,200–2,100
Lowest specific fuel consumption ¹⁾	g/kWh	203	203	199	201
Classifiable		✓	–	–	✓
Exhaust gas aftertreatment		–	–	✓	–
Exhaust gas status		IMO Tier II, EPA Tier 3 ²⁾ , China 2 ²⁾ , RCD 2013/53/EC	IMO Tier II, EPA Tier 3 ²⁾ , China 2 ²⁾ , RCD 2013/53/EC	IMO Tier III, EPA Tier 3 ²⁾	IMO Tier II, EPA Tier 3 ²⁾ , China 2, RCD 2013/53/EC

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

2) For private use only

D2862

Technical features

Light duty				
Type designation	LE 459	LE 436	LE 439	LE 476
Displacement l	24.24	24.24	24.24	24.24
Nominal rating ¹⁾ kW (hp)	1,213 (1,650)	1,324 (1,800)	1,324 (1,800)	1,397 (1,900)
Rated speed rpm	2,300	2,300	2,300	2,300
Maximum torque Nm	5,518	6,010	6,010	6,130
at speed rpm	1,200–2,100	1,200–2,100	1,200–2,100	1,200–2,100
Lowest specific fuel consumption ¹⁾ g/kWh	198	200	197	200
Classifiable	✓	–	–	–
Exhaust gas aftertreatment	✓	–	✓	–
Exhaust gas status	IMO Tier III, EPA Tier 3 ²⁾	IMO Tier II, EPA Tier 3 ²⁾ , China 2 ²⁾ , RCD 2013/53/EC	IMO Tier III, EPA Tier 3 ²⁾	IMO Tier II, EPA Tier 3 ²⁾ , China 2 ²⁾ , RCD 2013/53/EC

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

2) For private use only

D2862

Technical features

		Light duty		
Type designation		LE 479	LE 496	LE 499
Displacement	l	24.24	24.24	24.24
Nominal rating ¹⁾	kW (hp)	1,397 (1,900)	1,471 (2,000)	1,471 (2,000)
Rated speed	rpm	2,300	2,300	2,300
Maximum torque	Nm	6,185	6,460	6,508
at speed	rpm	1,200–2,100	1,200–2,100	1,200–2,100
Lowest specific fuel consumption ¹⁾	g/kWh	197	199	197
Classifiable		–	–	–
Exhaust gas aftertreatment		✓	–	✓
Exhaust gas status		IMO Tier III, EPA Tier 3 ²⁾	IMO Tier II, EPA Tier 3 ²⁾ , China 2 ²⁾ , RCD 2013/53/EC	IMO Tier III, EPA Tier 3 ²⁾

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

2) For private use only

D2862

Technical features

Type designation	Medium duty				
	LE 425	LE 428	LE 435	LE 438	LE 43B
Displacement l	24.24	24.24	24.24	24.24	24.24
Nominal rating ¹⁾ kW (hp)	749 (1,019)	749 (1,019)	882 (1,200)	882 (1,200)	882 (1,200)
Rated speed rpm	2,100	2,100	2,100	2,100	2,100
Maximum torque Nm	3,765	3,750	4,435	4,440	4,435
at speed rpm	1,200–1,900	1,300–1,900	1,300–1,900	1,400–1,900	1,300–1,900
Lowest specific fuel consumption ¹⁾ g/kWh	203	199	200	197	199
Classifiable	✓	✓	✓	✓	✓
Exhaust gas aftertreatment	–	✓	–	✓	✓
Exhaust gas status	IMO Tier II, China 2, RCD 2013/53/EC	IMO Tier III, EPA Tier 4	IMO Tier II, China 2, RCD 2013/53/EC	IMO Tier III, EPA Tier 4	IMO Tier III, EU Stage V

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

D2862

Technical features

		Medium duty				
Type designation		LE 469	LE 466	LE 483	LE 489	LE 48B
Displacement	l	24.24	24.24	24.24	24.24	24.24
Nominal rating ¹⁾	kW (hp)	974 (1,325)	1,029 (1,400)	1,066 (1,450)	1,066 (1,450)	1,066 (1,450)
Rated speed	rpm	2,100	2,100	2,100	2,100	2,100
Maximum torque	Nm	4,895	5,180	5,355	5,345	5,330
at speed	rpm	1,500–1,900	1,200–1,900	1,100–1,800	1,200–1,900	1,100–1,900
Lowest specific fuel consumption ¹⁾	g/kWh	203	203	203	196	200
Classifiable		✓	✓	✓	✓	✓
Exhaust gas aftertreatment		✓	–	–	✓	✓
Exhaust gas status		IMO Tier III, EPA Tier 4	IMO Tier II, China 2, RCD 2013/53/EC	IMO Tier II	IMO Tier III, EPA Tier 4	IMO Tier III, EU Stage V

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

D2862

Technical features

Type designation	Heavy duty			
	LE 437	LE 454	LE 424	LE 427
Displacement l	24.24	24.24	24.24	24.24
Nominal rating ¹⁾ kW (hp)	551 (749)	588 (800)	662 (900)	662 (900)
Rated speed rpm	1,800	1,800	1,800	1,800
Maximum torque Nm	3,300	3,510	3,950	3,910
at speed rpm	1,000–1,600	1,000–1,600	1,100–1,600	1,100–1,600
Lowest specific fuel consumption ¹⁾ g/kWh	196	202	199	193
Classifiable	✓	✓	✓	✓
Exhaust gas aftertreatment	✓	-	-	✓
Exhaust gas status	IMO Tier III	IMO Tier II, EPA Tier 3, China 2, RCD 2013/53/EC	IMO Tier II, China 2, RCD 2013/53/ EC	IMO Tier III, EPA Tier 4

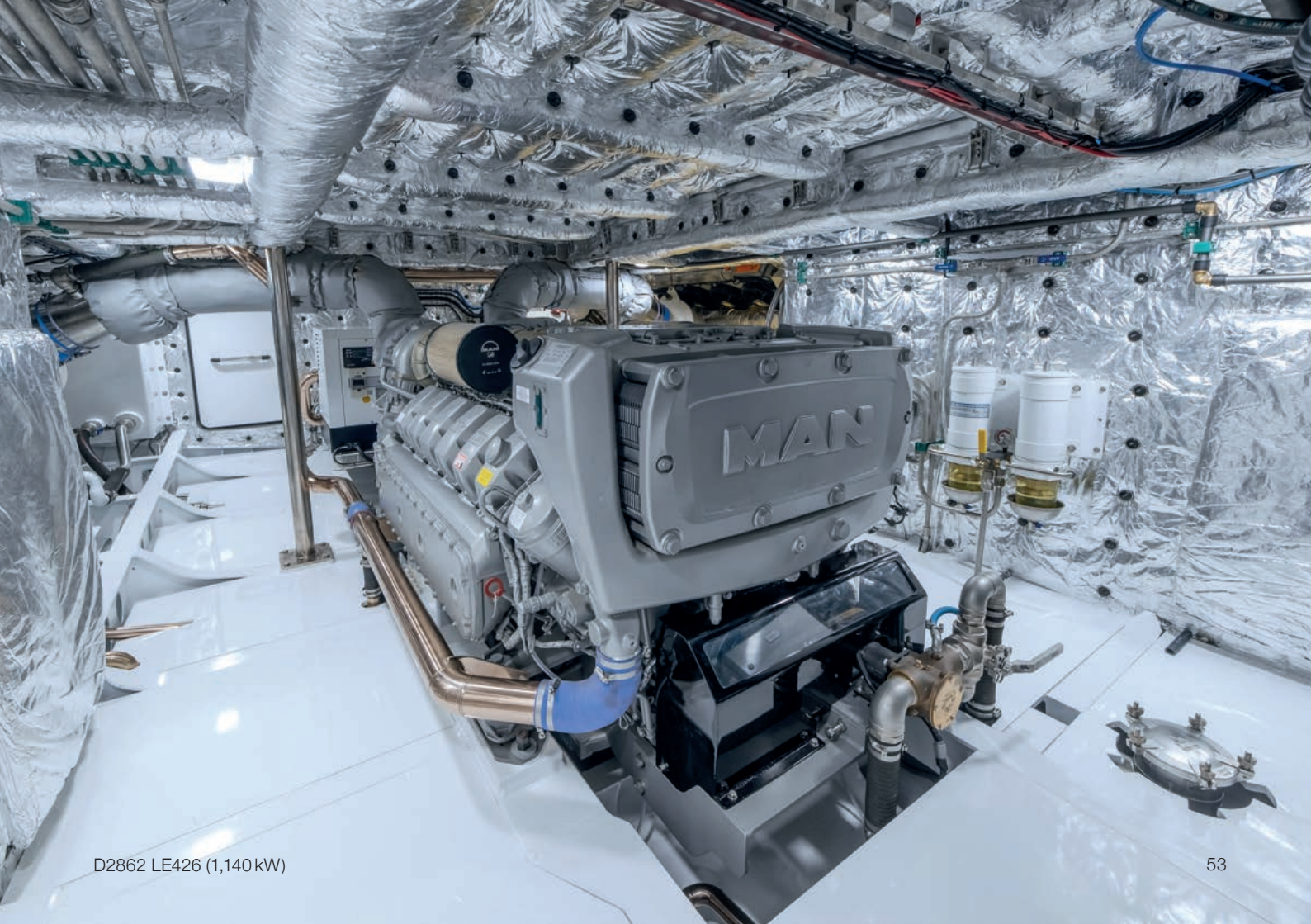
¹⁾ Tolerance +5 % according to DIN ISO 3046-1

D2862

Technical features

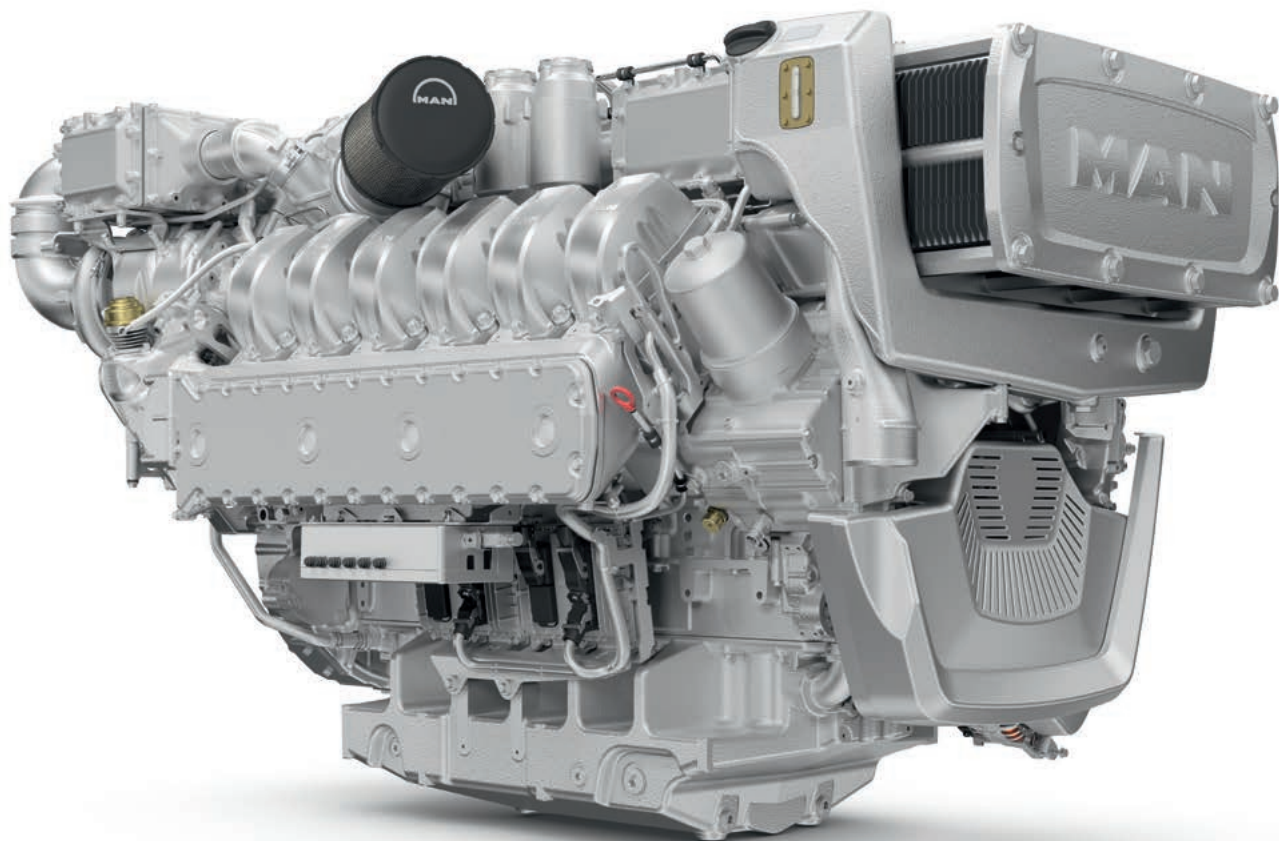
		Heavy duty		
Type designation		LE 444	LE 447	LE 44A
Displacement	l	24.24	24.24	24.24
Nominal rating ¹⁾	kW (hp)	735 (1,000)	735 (1,000)	735 (1,000)
Rated speed	rpm	1,800	1,800	1,800
Maximum torque	Nm	4,380	4,340	4,388
at speed	rpm	1,100–1,600	1,100–1,600	1,300–1,600
Lowest specific fuel consumption ¹⁾	g/kWh	199	193	195
Classifiable		✓	✓	✓
Exhaust gas aftertreatment		–	✓	✓
Exhaust gas status		IMO Tier II, China 2, RCD 2013/53/EC	IMO Tier III, EPA Tier 4	IMO Tier III, EU Stage V

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



D2862 LE426 (1,140kW)

D3872

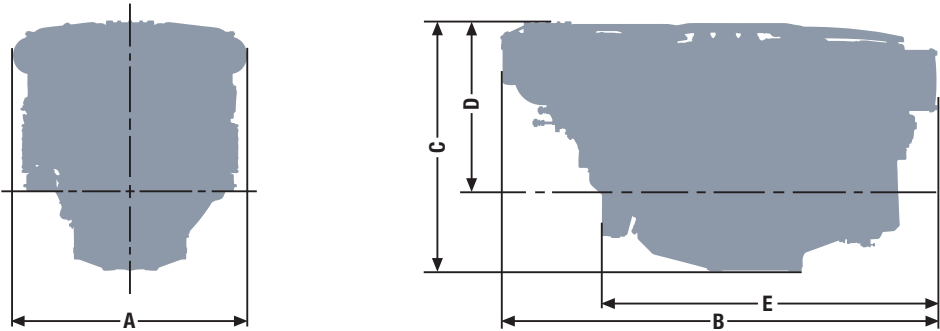


D3872

Characteristics

- Cylinders and arrangement: 12 cylinders in 90° V arrangement
- Operation mode: 4-stroke diesel engine, watercooled
- Turbocharging: Two-stage turbocharger with charge air intercooler and wastegate
- Number of valves: 4 valves per cylinder
- Fuel system: Common Rail injection system with MD1 control
- Engine block: High-strength casting with integrated oil and water ducts and single cylinder heads with wet replaceable cylinder liners
- Engine lubrication: Force-feed lubrication by gear pump, lubricating oil cooler in cooling water circuit
- Type of cooling: Seawater cooled charge air cooler and plate heat exchanger by rubber impeller pump
- Engine control: Electronic injection control (EDC)
Electronic engine monitoring including diagnostic unit
- Fuel: DIN EN 590

D3872



Dimensions

Type designation		LE 421/424/427	LE 432/433/435/443
A-Overall width	mm	1,157	1,157
B-Overall length	mm	2,144	2,374
C-Overall height – standard oil pan	mm	1,308	1,328
D-Top of engine to crankshaft centre	mm	843	863
E-Length of engine from front end to edge of flywheel housing	mm	1,765	1,792
Average weight of engine ready for installation (dry)	kg	2,550	2,700

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

D3872

Technical features

		Light duty		Medium duty	
Type designation		LE 443	LE 433	LE 432	LE 435
Displacement	l	29.62	29.62	29.62	29.62
Nominal rating ¹⁾	kW (hp)	1,471 (2,000)	1,618 (2,200)	1,213 (1,650)	1,213 (1,650)
Rated speed	rpm	2,300	2,300	2,100	2,100
Maximum torque	Nm	6,689	7,358	6,096	6,096
at speed	rpm	1,200–2,100	1,200–2,100	1,100–1,900	1,100–1,900
Lowest specific fuel consumption ¹⁾	g/kWh	196	195	193	197
Classifiable		✓	✓	✓	✓
Exhaust gas aftertreatment		–	–	–	✓
Exhaust gas status		IMO Tier II, EPA Tier 3 ²⁾	IMO Tier II, EPA Tier 3 ²⁾	IMO Tier II	IMO Tier III, EPA Tier 4

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

2) For private use only

D3872

Technical features

		Heavy duty		
Type designation		LE 421	LE 424	LE 427
Displacement	l	29.62	29.62	29.62
Nominal rating ¹⁾	kW (hp)	920 (1,251)	920 (1,251)	920 (1,251)
Rated speed	rpm	1,800	1,800	1,800
Maximum torque	Nm	5,491	5,491	5,491
at speed	rpm	1,100–1,600	1,100–1,600	1,100–1,600
Lowest specific fuel consumption ¹⁾	g/kWh	192	192	196
Classifiable		✓	✓	✓
Exhaust gas aftertreatment		–	✓	✓
Exhaust gas status		IMO Tier II	IMO Tier III, EPA Tier 4	IMO Tier III, EPA Tier 4, EU Stage V

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



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