



ENERGY IN BLUE



GENERATOR

MAN Engines based



Range of marine propulsion systems from 10 to 2000 HP  
& generators from 6 to 750 kw.



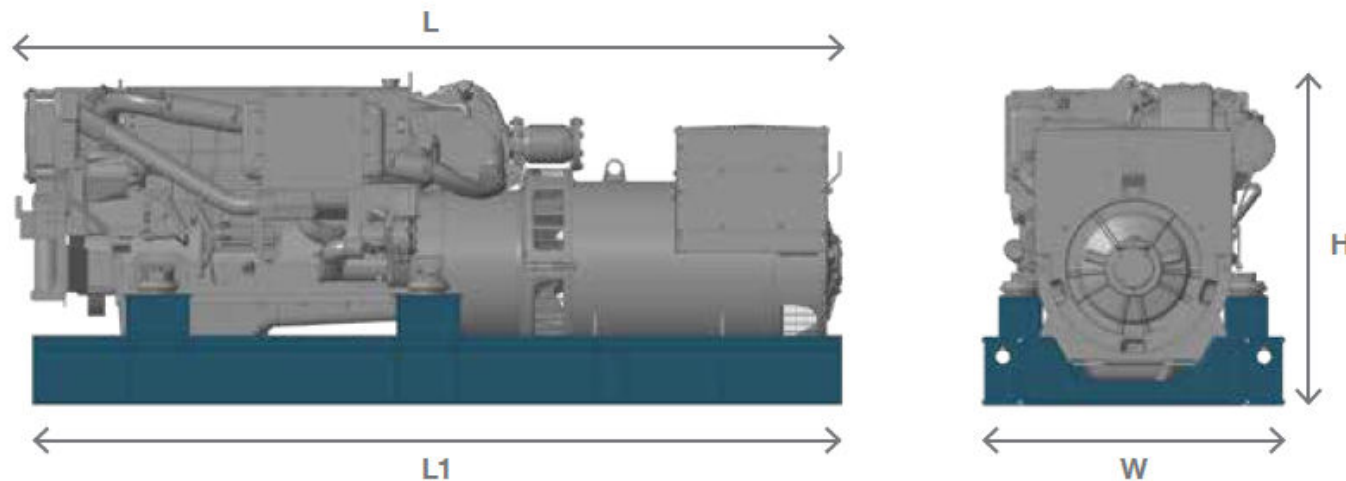


# Generator Range



## Generator models : Q12000 Series and 24000 Series

### Dimensions



#### 6 cylinder versions

L, mm	2730
L1, mm	2600 (model specific)
H, mm	1397
W, mm	990
Dry mass, kg	2200 (model specific)

#### Model Q12000

#### 12 cylinder versions

L, mm	3332
L1, mm	3178 (model specific)
H, mm	1531
W, mm	1372
Dry mass, kg	4500 (model specific)

#### Model Q24000

## Generator models

### Model Q12000

#### Engine (6 cylinder version)

	MAN D2676 LE332		MAN D2676 LE322		MAN D2676 LE328		MAN D2676 LE327		MAN D2676 LE321	
<b>MCR (kWm)</b>	190	220	280	330	295	295	360	410	375	445
<b>Output (kWe)</b>	176	204	262	310	277	276	338	385	340	417
<b>Speed (rpm)</b>	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800
<b>Average load (%)</b>	75	75	75	75	75	75	75	75	75	75
<b>Frequency (Hz)</b>	50	60	50	60	50	60	50	60	50	60
<b>SFOC (100% load, g/kWh)</b>	210	208	203	199	196	200	195	202	200	198
<b>Emissions</b>	Tier II	Tier II	Tier II	Tier II	Tier III	Tier III	Tier III	Tier III	Tier II	Tier II

### Model Q24000

#### Engine (12 cylinder version)

	MAN D2862 LE322		MAN D2862 LE328		MAN D2862 LE321		MAN D2862 LE327	
<b>MCR (kWm)</b>	600	700	600	700	700	800	700	800
<b>Output (kWe)</b>	565	660	565	660	656	752	656	752
<b>Speed (rpm)</b>	1500	1800	1500	1800	1500	1800	1500	1800
<b>Average load (%)</b>	75	75	75	75	75	75	75	75
<b>Frequency (Hz)</b>	50	60	50	60	50	60	50	60
<b>SFOC (100% load, g/kWh)</b>	196	200	195	199	197	198	199	202
<b>Emissions</b>	Tier II	Tier II	Tier III	Tier III	Tier II	Tier II	Tier III	Tier III



## Generators Models : Engine base MAN

### Series D2862LE3xx



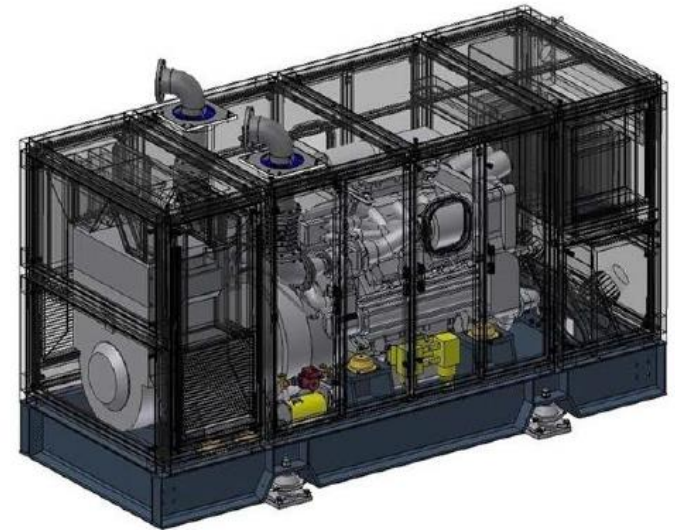
### Series D2676LE3xx





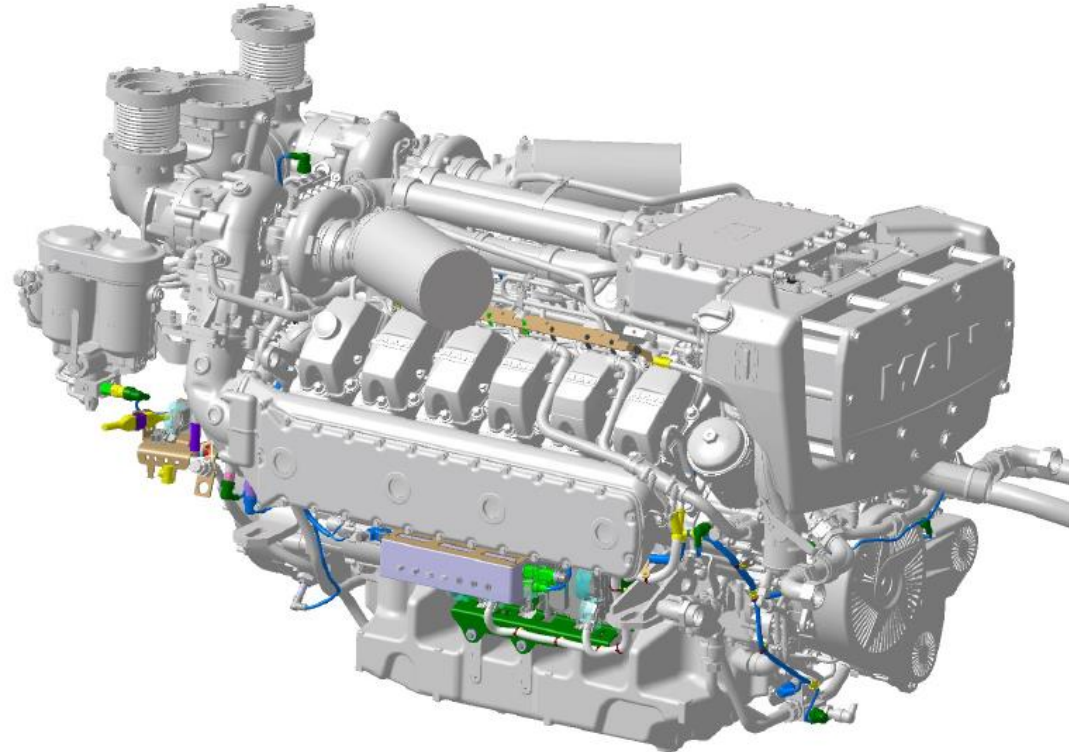
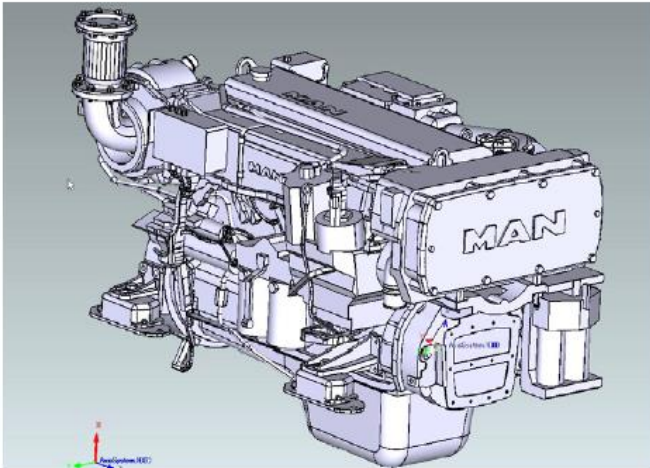
## Technical solution

- new EDC17 diesel control with less electronics (no MMDS, no SFFR)
  - replacement of the existing D2840/D2842LE301 and D2876LE301/D2866LXE30
  - SAE1 flywheel housing
  - classification according to DNV-GL, ABS, LRS, RINA and BV
  - load steps according to classification (IACS) rules
  - engine cooling with heat exchanger or keel cooling system
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- 5500 operating hours per year,
  - average load up to 75%
  - TBO 18.000 operation hours
  - oil change interval 600 h

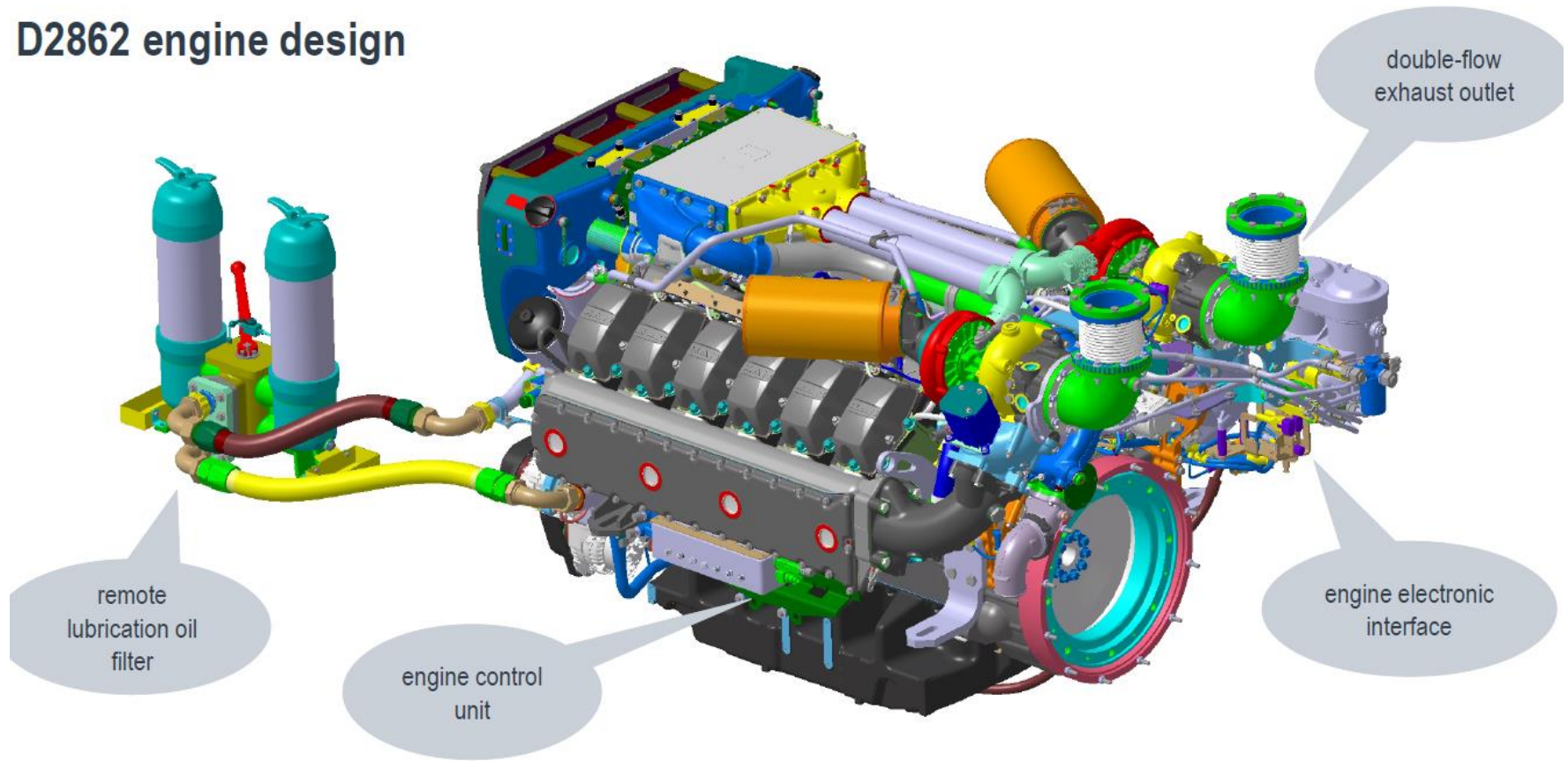


## Operation conditions

- cold start capable from  $-10^{\circ}\text{C}$
- max. sea water temperature  $32^{\circ}\text{C}$
- max. intake air temperature  $45^{\circ}\text{C}$
  
- fuel according to DIN EN590

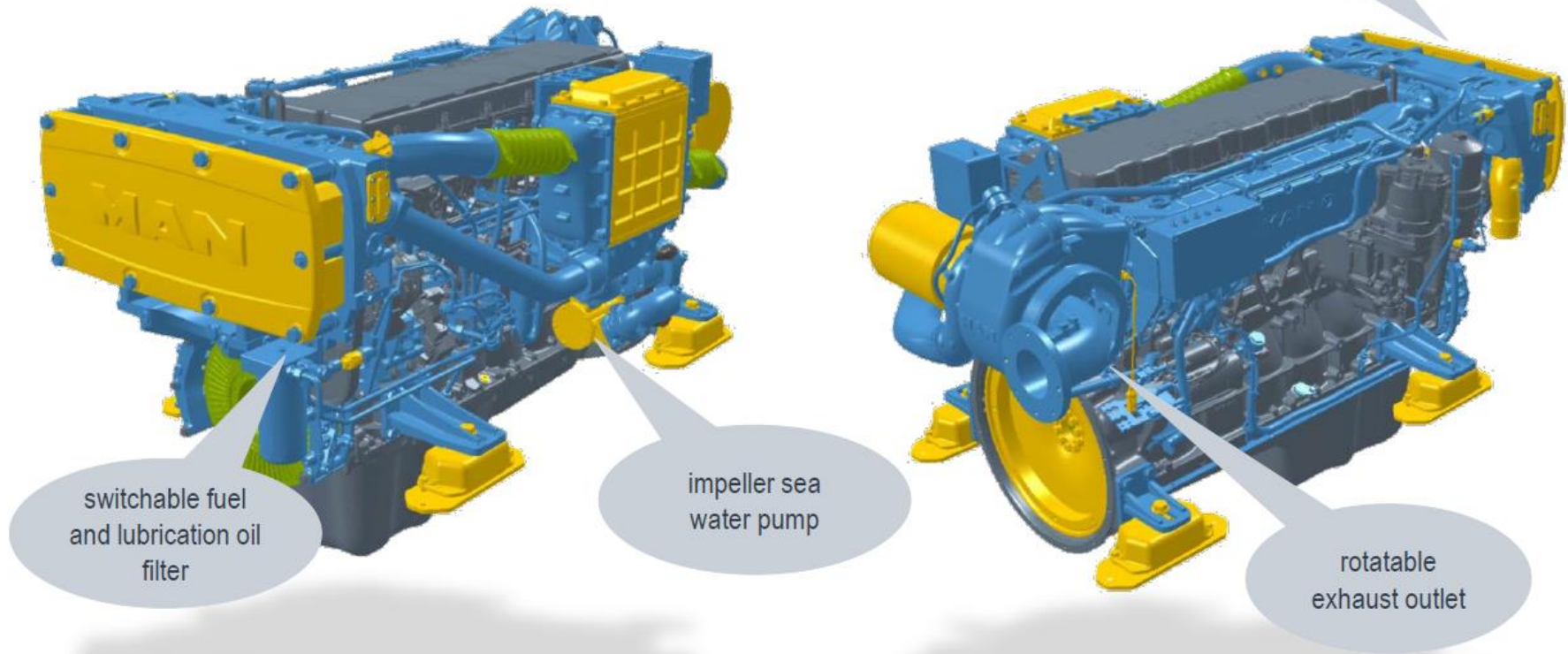


## D2862 engine design



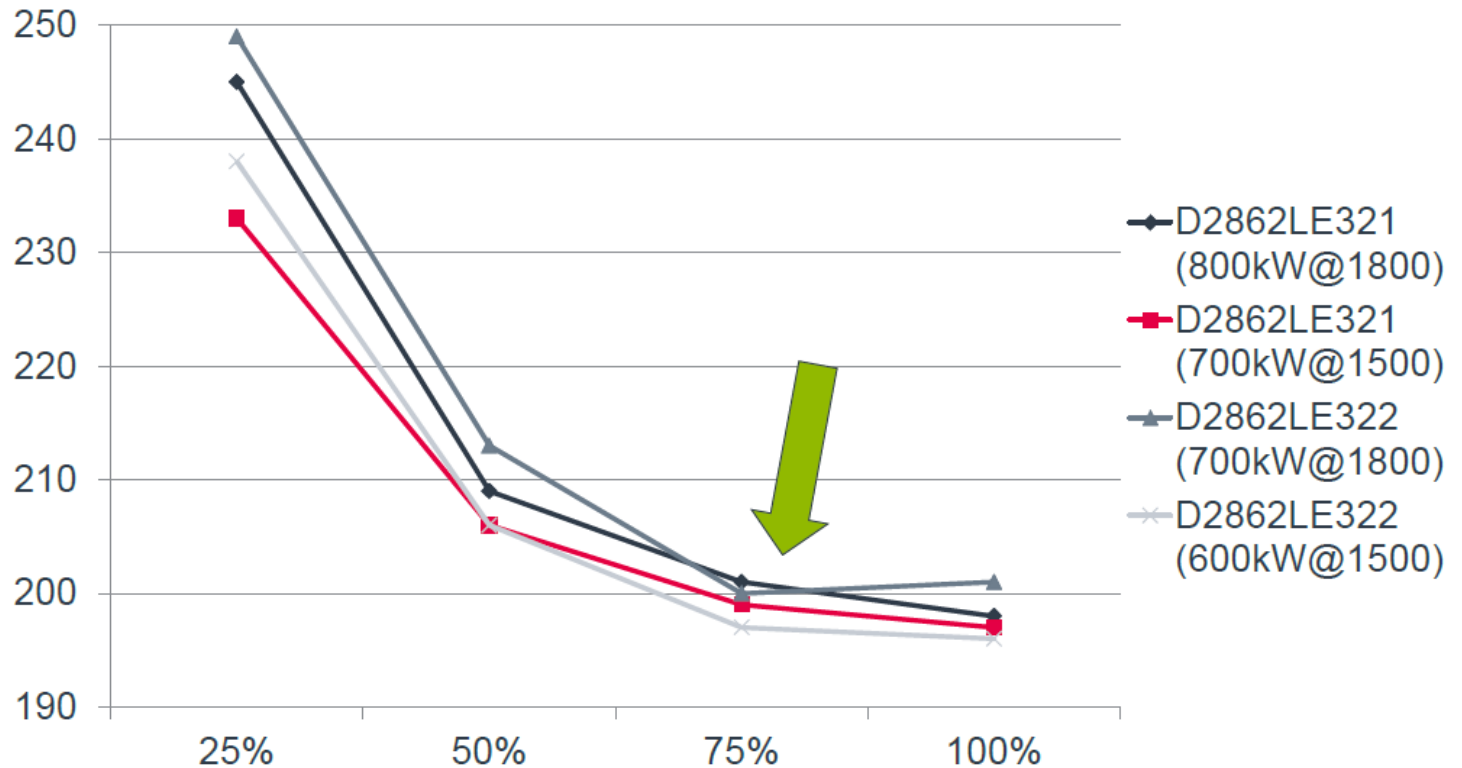


## D2676 engine design





## Specific fuel consumption

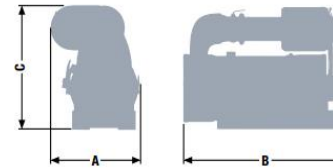
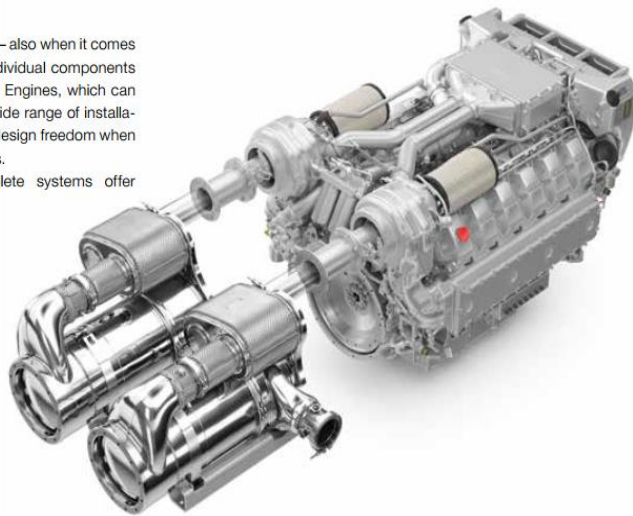




## SCR system on Q12000 & Q24000 IMO Tier III / EU Stage V + DPF

### EXHAUST AFTERTREATMENT

Flexibility makes use of free space – also when it comes to exhaust gas aftertreatment: Individual components of the modular EGA 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. Alternatively, pre-defined complete systems offer practical, space-saving solutions.



#### Dimensions

Type designation		SCR system
A-Overall width	mm	475
B-Overall length	mm	950
C-Overall height	mm	420
Average weight of SCR system with exhaust silencer	kg	115

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

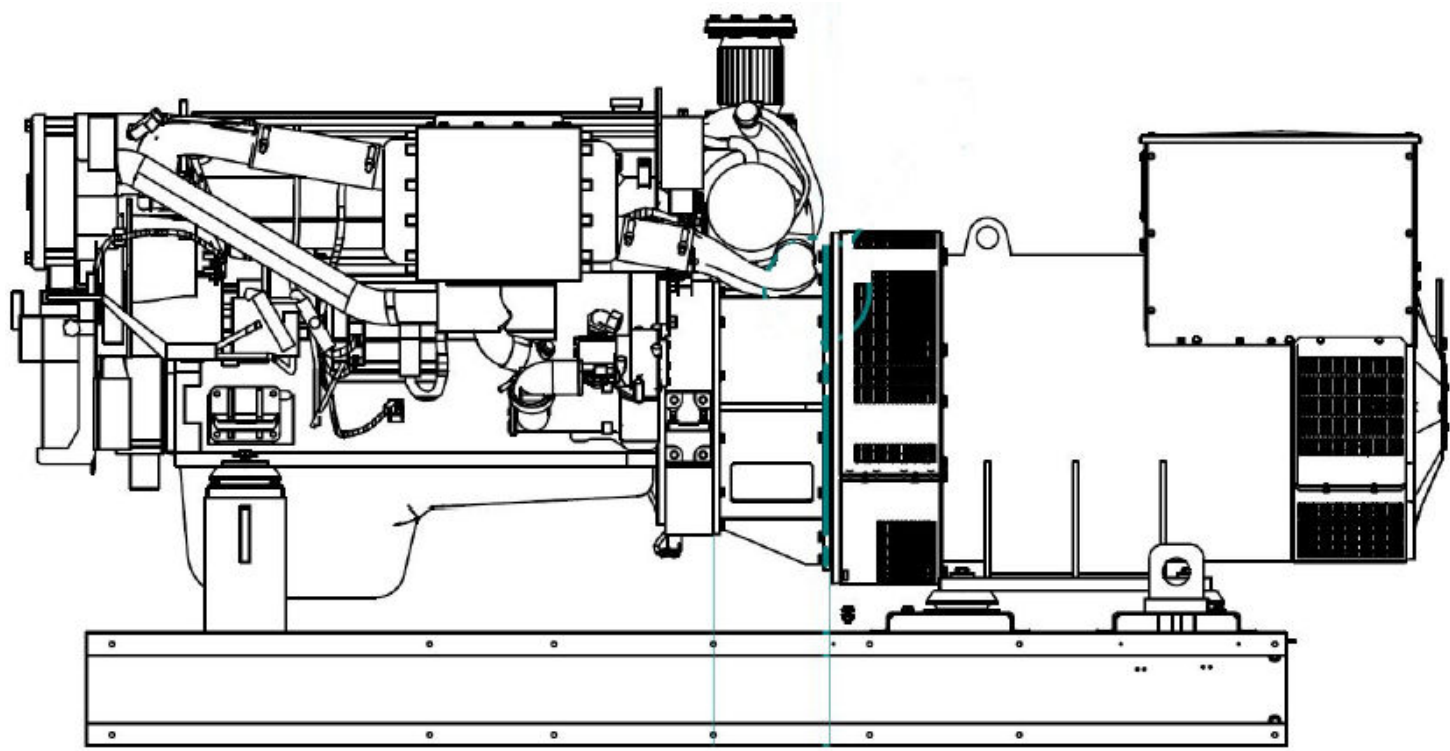


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# EU Stage V

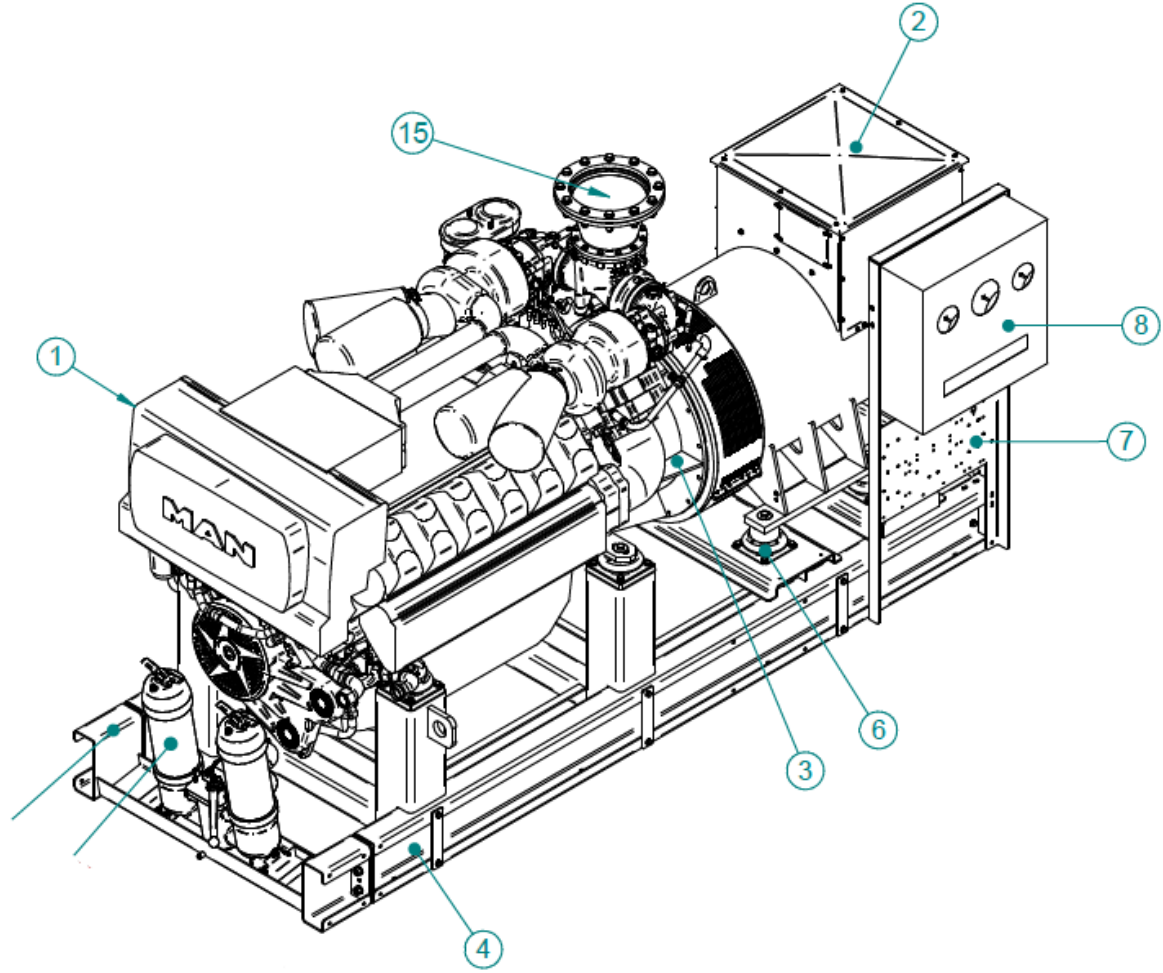


**Q12000 based on 6 cylinder layout**





**Q24000 based on 12 cylinder layout**





Thank you for your attention