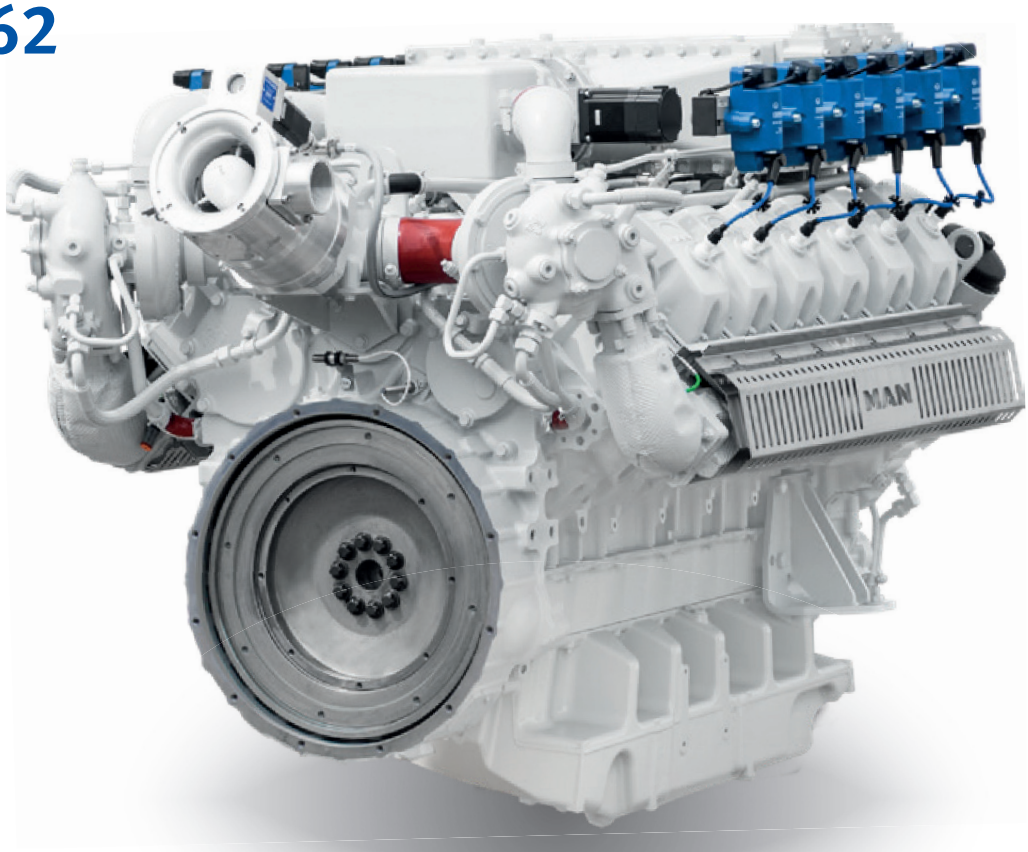
MAN Gas Engines for Power Generation

E3262



Characteristics E3262 E

Cylinders and arrangement:	12 cylinders in 90° V arrangement
Mode of operation:	four-stroke spark-ignition gas engine
Engine cooling:	water-cooled
Exhaust system:	water-cooled exhaust pipe

Characteristics E3262 LE

Cylinders and arrangement:	12 cylinders in 90° V arrangement
Mode of operation:	four-stroke spark-ignition gas engine
Turbocharging:	turbo charger with water-cooled turbine housing and pressure-oil lubricated bearings
Engine cooling:	water-cooled
Air-fuel mixture cooling:	two-stage cooler

MOTORTECH Equipment – Standard Scope of Supply

- Ignition system with MIC3+ ignition controller and LiteRail wiring rail
- MHP spark plug B4321
- Detonation control system with DetCon2
- Speed control system with ITB throttle body, VariStep3 stepper motor driver and SC100 speed controller
- Sensor harness
- VariFuel2 air/gas mixer including flow body, inlet and outlet flanges, stepper motor harness and VariStep3 stepper motor driver

E3262 – COP with Natural Gas

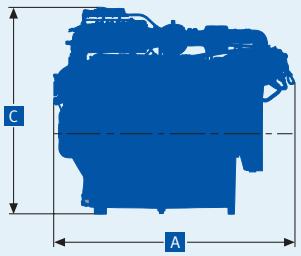
Technical Features

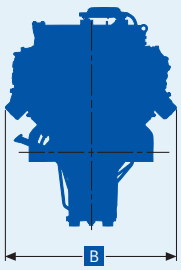
Mode of Operation		COP with Natural Gas	
At engine speed	rpm (Hz)	1500 (50)	1800 (60)

Engine version		E 302 [4]	LE 202	LE 202	LE 232 [4]	E 302 [4]	LE 202	LE 232 [4]
Bore	mm	132	132	132	132	132	132	132
Stroke	mm	157	157	157	157	157	157	157
Displacement	l	25.8	25.8	25.8	25.8	25.8	25.8	25.8
ISO standard power [5]	kW	275	550	550	450	300	580	450
Air-fuel ratio	λ	1.00	1.68	1.68	1.64	1.00	1.70	1.62
Coolant heat [1]	kW	218	358	336	233	239	392	252
Exhaust heat based on 120 °C [1]	kW	157	329	312	257	187	339	272
Efficiency [1]								
■ mechanical [5]	%	39.6	40.3	41.7	41.3	38.7	40.0	39.6
■ thermal	%	54.0	50.2	48.3	48.9	54.9	49.9	50.4
■ total	%	93.6	90.5	90.0	90.2	93.6	89.9	90.0
Emissons status NO_x [2]	mg/Nm3	‹ 7000	‹ 250	‹ 500 ‹ 100 [4] [6]	‹ 500 ‹ 100 [4] [6]	‹ 7000	‹ 500 ‹ 100 [4] [6]	‹ 500 ‹ 100 [4] [6]
Combustion [3]		st	m	m	m	st	m	m

1) at 100 % load 2) with 5 % exhaust-gas oxygen 3) m = lean, st = stoichiometric 4) data conditional and on request
5) in accordance with German Industrial Standard DIN ISO 3046, Part 1 6) emission status available on request, including SCR technology

Technical data is based on a calorific fuel value of 10 kWh/Nm³ for natural gas and 6 kWh/Nm³ for special gas.
The values are provided for information purposes only and are non-binding.





Dimensions

Engine Version		E 302	LE 202	LE 232
A Overall length	mm	1743	1748	1748
B Overall width	mm	1245	1243	1243
C Overall height	mm	1494	1500	1500
Dry weight	kg	1763	1849	1849

All data are reference values. Please request installation drawings for detailed specifications.

E3262 – COP with Special Gas

Technical Features

Mode of Operation		COP with Special Gas	
At engine speed	rpm (Hz)	1500 (50)	1800 (60)

Engine version		LE 202	LE 212 [4]	LE 242 [4]	LE 202 [4]	LE 212 [4]	LE 242 [4]
Bore	mm	132	132	132	132	132	132
Stroke	mm	157	157	157	157	157	157
Displacement	l	25.8	25.8	25.8	25.8	25.8	25.8
ISO standard power [5]	kW	550	550	450	580	580	450
Air-fuel ratio	λ	1.55	1.60	1.46	1.52	1.56	1.44
Coolant heat [1]	kW	339	321	236	397	384	246
Exhaust heat based on 120 °C [1]	kW	315	302	270	375	347	295
Efficiency [1]							
■ mechanical [5]	%	41.8	42.1	40.0	38.9	40.1	38.3
■ thermal	%	48.1	46.9	50.5	51.6	49.8	52.3
■ total	%	89.9	89.0	90.5	90.4	89.8	90.6
Emissons status NO_x [2]	mg/Nm3	‹ 500	‹ 500	‹ 500	‹ 500	‹ 500	‹ 500
Combustion [3]		m	m	m	m	m	m

1) at 100 % load 2) with 5 % exhaust-gas oxygen 3) m = lean, st = stoichiometric 4) data conditional and on request
5) in accordance with German Industrial Standard DIN ISO 3046, Part 1 6) emission status available on request, including SCR technology

Technical data is based on a calorific fuel value of 10 kWh/Nm³ for natural gas and 6 kWh/Nm³ for special gas.
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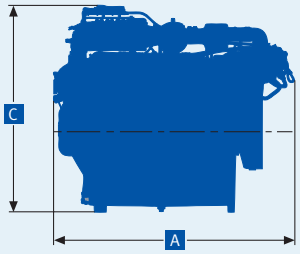

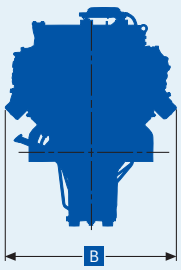

Dimensions

Engine Version		LE 202	LE 212	LE 242
A Overall length	mm	1748	1748	1748
B Overall width	mm	1243	1243	1243
C Overall height	mm	1500	1500	1500
Dry weight	kg	1849	1849	1849

All data are reference values. Please request installation drawings for detailed specifications.