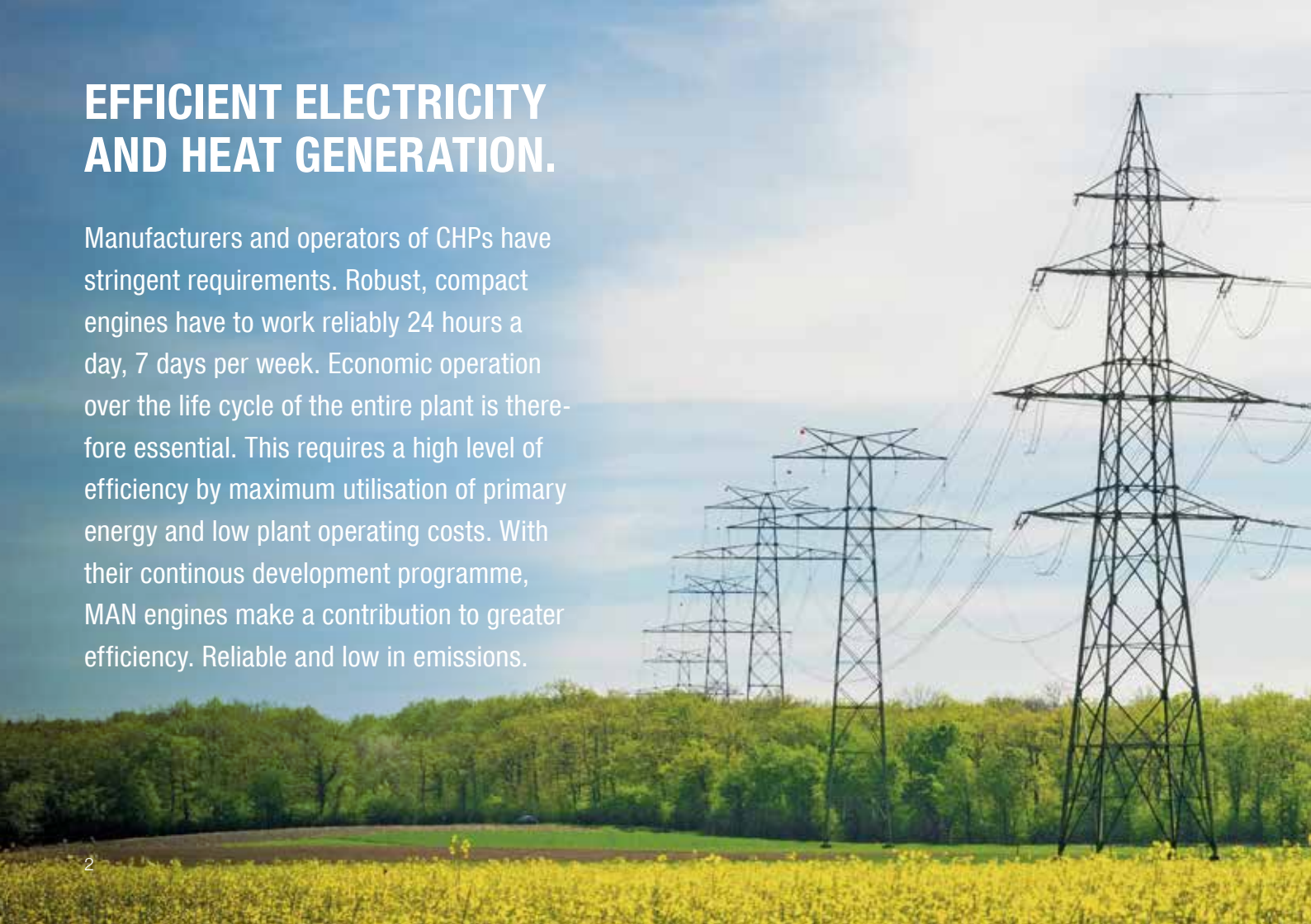
POWER.

Gas Engines for Power Generation.

MAN Engines

EFFICIENT ELECTRICITY AND HEAT GENERATION.

Manufacturers and operators of CHPs have stringent requirements. Robust, compact engines have to work reliably 24 hours a day, 7 days per week. Economic operation over the life cycle of the entire plant is therefore essential. This requires a high level of efficiency by maximum utilisation of primary energy and low plant operating costs. With their continous development programme, MAN engines make a contribution to greater efficiency. Reliable and low in emissions.



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HIGH EFFICIENCY.

Benefits

- High power and maximum efficiency
- Low operating costs as a result of low levels of lubricant and fuel consumption as well as extended service intervals (component stability)
- Low emissions due to state-of-the-art combustion technologies
- Low space requirement due to compact design
- Reliable in use thanks to field-tested technology
- Long service life resulting from application-specific design

MAN

HOW DO NATURALLY ASPIRATED ENGINES DIFFER FROM TURBOCHARGED ENGINES?

Naturally aspirated engine

- Stoichiometric gas combustion ($\lambda = 1$)
- Water-cooled exhaust pipes, without exhaust-gas turbocharging
- Ideally suited for exhaust gas aftertreatment with a three-way catalytic converter

The low power density enables long maintenance intervals. Naturally aspirated engines have fewer components and are subject to less mechanical stress. They also offer higher operating reliability with the highest possible overall efficiency.

Turbocharged engine

- Lean gas combustion ($\lambda > 1$)
- Exhaust-gas turbocharging complies with the inner-engine exhaust gas values from the TA Luft 2002 regulation for special gas
- Depending on emissions legislation: Exhaust gas aftertreatment with oxidation catalyst or SCR possible

When fitted with a turbo charger the engine achieves a higher power density and operates economically and very efficiently.

PEACE OF MIND FROM TAILORED SERVICE.

Low-pollutant and fitted with state-of-the-art combustion technology, MAN natural-gas and special-gas engines pave the way to the future of cogeneration. Energy supply is an essential component for economic success. This is why of course you can always count on our corporation after the purchase should you need help.

MAN offers its partners and customers a tailored service concept. The packagers can perform the service entirely independently for their end customers. We customize our training courses to match your requirements by employing the in-depth and proven MAN expertise: Reliable and efficient – just like a MAN gas engine.

E0834

E0834

General data

Gas engine			E0834	
Engine version			Naturally aspirated engine	Turbocharged engine
TYPE	Cylinders		4	
	Power	kW	37–80	
	Bore	mm	108	
	Stroke	mm	125	
	Displacement	l	4.6	
kg mm	Overall length	mm	862	1 055
	Overall width	mm	742	809
	Overall height	mm	870	866
	Dry weight	kg	430	495

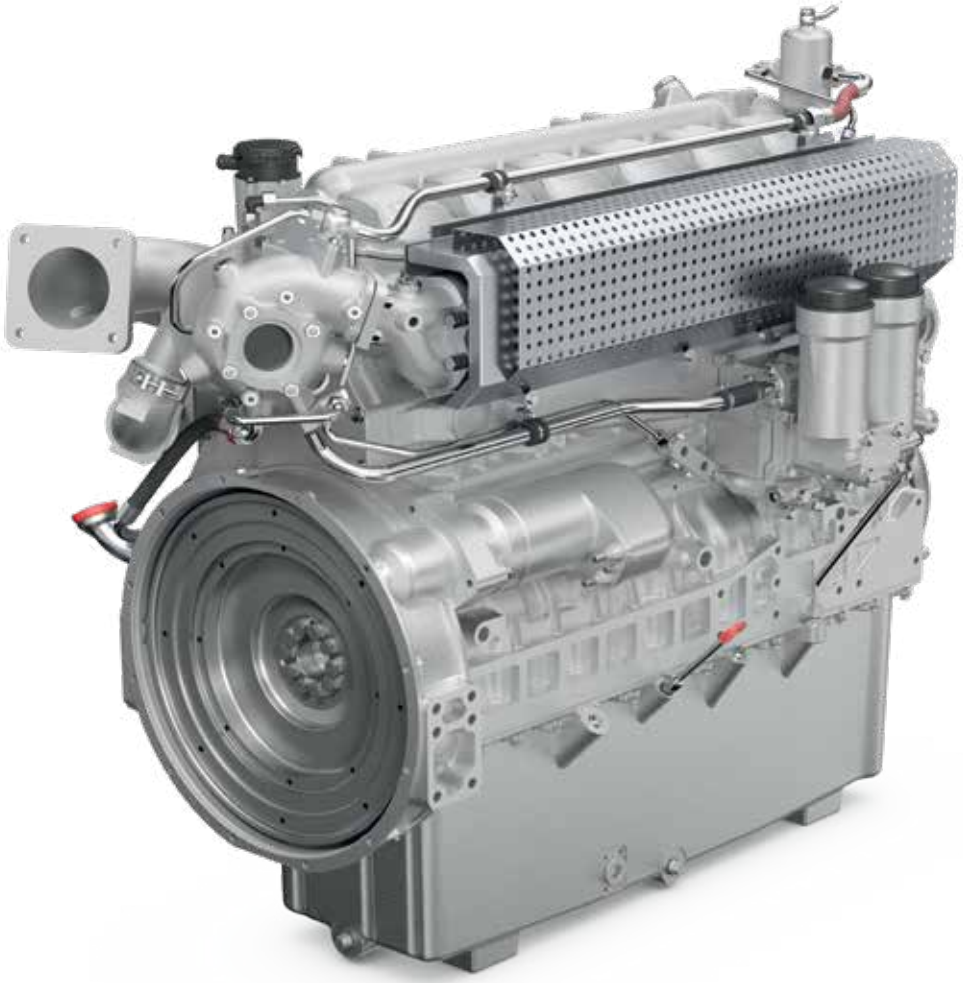
E0836

E0836

General data

Gas engine			E0836	
Engine version			Naturally aspirated engine	Turbocharged engine
TYPE	Cylinders		6	
	Power	kW	56–110	
	Bore	mm	108	
	Stroke	mm	125	
	Displacement	l	6.9	
kg mm	Overall length	mm	1 090	1 300
	Overall width	mm	740	740
	Overall height	mm	930	1 030
	Dry weight	kg	520	605

E2876



E2876

General data

Gas engine			E2876		
Engine version			Naturally aspirated engine	Turbocharged engine	Turbocharged engine without charge air cooler
TYPE	Cylinders			6	
	Power	kW		130–220	
	Bore	mm		128	
	Stroke	mm		166	
	Displacement	l		12.8	
kg / mm	Overall length	mm	1 330	1 520	1 545
	Overall width	mm	830	830	835
	Overall height	mm	1 166	1 226	1 226
	Dry weight	kg	830	990	920

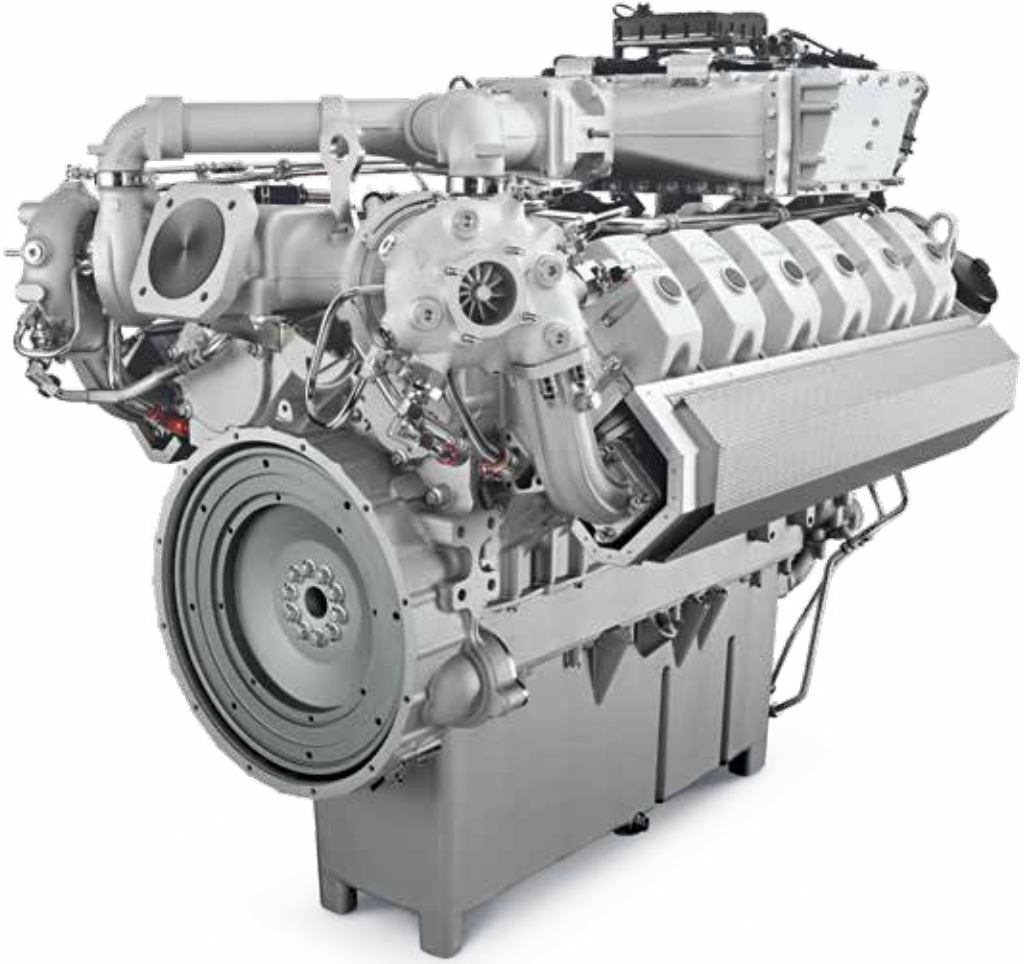
E3268

E3268

General data

Gas engine			E3268
Engine version			Turbocharged engine
TYPE	Cylinders		8
	Power	kW	320–390
	Bore	mm	132
	Stroke	mm	157
	Displacement	l	17.2
kg mm	Overall length	mm	1 620
	Overall width	mm	1 210
	Overall height	mm	1 422
	Dry weight	kg	1 497

E3262



E3262

General data

Gas engine			E3262	
Engine version			Naturally aspirated engine	Turbocharged engine
TYPE	Cylinders		12	
	Power	kW	275–580	
	Bore	mm	132	
	Stroke	mm	157	
	Displacement	l	25.8	
kg mm	Overall length	mm	1 743	1 748
	Overall width	mm	1 245	1 243
	Overall height	mm	1 494	1 500
	Dry weight	kg	1 763	1 849

E3872

E3872

General data

Gas engine			E3872
Engine version			Turbocharged engine
TYPE	Cylinders		12
	Power	kW	735–840
	Bore	mm	138
	Stroke	mm	165
	Displacement	l	29.6
kg mm	Overall length	mm	1 789
	Overall width	mm	1 243
	Overall height	mm	1 407
	Dry weight	kg	1 497

E3262 GENSET

E3262 GENSET

General data

Gas engine			E3262
Engine version			Turbocharged engine including cooling system
TYPE	Cylinders		12
	Power	kW	480–530
	Bore	mm	132
	Stroke	mm	157
	Displacement	l	25.8
H kg mm	Overall length (incl. cooling system)	mm	2 559
	Overall width (incl. cooling system)	mm	1 601
	Overall height (incl. cooling system)	mm	1 787
	Dry weight (incl. cooling system)	kg	2 014

POWER AND HEAT FROM NATURAL GAS. LOW IN POLLUTANTS. LOW LOSSES.

NATURAL GAS 1 500 rpm: < 500 mg/Nm^3 NO_x

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E08	E0834 E312	4.6 l	–	37 kW	4	inline	108 mm
	E0834 LE302		68 kW	–			
	E0836 E312	6.9 l	–	56 kW	6	inline	108 mm
	E0836 LE302		110 kW	–			
E28	E2876 LE302	12.8 l	210 kW	–	6	inline	128 mm
E32	E3268 LE242	17.2 l	–	320 kW	8	90° V	132 mm
	E3268 LE212		370 kW	–			
	E3262 LE232	25.8 l	–	450 kW	12	90° V	132 mm
	E3262 LE202		550 kW	–			
	E3262 LE252		530 kW	–			
E38	E3872 LE201	29.6 l	735 kW	–	12	90° V	138 mm

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

NATURAL GAS 1 500 rpm: < 250 mg/Nm^3 NO_X

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E08	E0834 LE302	4.6 l	68 kW	–	4	inline	108 mm
	E0836 LE302	6.9 l	110 kW	–	6	inline	108 mm
E32	E3268 LE242	17.2 l	–	320 kW	8	90° V	132 mm
	E3268 LE212		370 kW	–			
	E3262 LE232	25.8 l	–	450 kW	12	90° V	132 mm
	E3262 LE202		550 kW	–			
	E3262 LE252		480 kW	–			
E38	E3872 LE201	29.6 l	735 kW	–	12	90° V	138 mm

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

NATURAL GAS 1 500 rpm: ppmvd

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E08	E0834 E302	4.6 l	–	54 kW	4	inline	108 mm
	E0836 E302	6.9 l	–	75 kW	6	inline	108 mm
E28	E2876 E312	12.8 l	–	150 kW	6	inline	128 mm
E32	E3262 E302	25.8 l	–	275 kW	12	90° V	132 mm

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

NATURAL GAS 1 800 rpm: < 500 mg/Nm^3 NO_X

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E08	E0834 E312	4.6 l	–	45 kW	4	inline	108 mm
	E0834 LE302		68 kW	–			
	E0836 E312	6.9 l	–	64 kW	6	inline	108 mm
	E0836 LE302		110 kW	–			
E28	E2876 LE302	12.8 l	210 kW	–	6	inline	128 mm
E32	E3268 LE242	17.2 l	–	340 kW	8	90° V	132 mm
	E3268 LE212		390 kW	–			
	E3262 LE232	25.8 l	–	450 kW	12	90° V	132 mm
	E3262 LE202		580 kW	–			
	E3262 LE252		530 kW	–			
E38	E3872 LE202	29.6 l	840 kW	–	12	90° V	138 mm

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

NATURAL GAS 1 800 rpm: < 250 mg/Nm^3 NO_X

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E08	E0834 LE302	4.6 l	68 kW	–	4	inline	108 mm
	E0836 LE302	6.9	110 kW	–	6	inline	108 mm
E32	E3268 LE212	17.2 l	390 kW	–	8	90° V	132 mm
	E3262 LE232	25.8 l	–	450 kW	12	90° V	132 mm
	E3262 LE252		480 kW	–			
	E3262 LE202		580 kW	–			
E38	E3872 LE202	29.6 l	800 kW	–	12	90° V	138 mm

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

NATURAL GAS 1 800 rpm: ppmvd

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E08	E0834 E302	4.6 l	62 kW	–	4	inline	108 mm
	E0836 E302	6.9 l	85 kW	–	6	inline	108 mm
E28	E2876 E312	12.8 l	170 kW	–	6	inline	128 mm
E32	E3262 E302	25.8 l	300 kW	–	12	90° V	132 mm

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

OR FROM SPECIAL GAS.
CARBON-NEUTRAL. SUSTAINABLE.

SPECIAL GAS 1 500 rpm: < 500 mg/Nm^3 NO_X

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E08	E0834 LE302	4.6 l	68 kW	–	4	inline	108 mm
	E0834 LE322		–	80 kW			
	E0836 LE302	6.9 l	–	110 kW			
E28	E2876 LE202	12.8 l	–	220 kW	6	inline	128 mm
	E2876 LE302		200 kW	–			
	E2876 TE302		–	130 kW			
E32	E3268 LE222	17.2 l	–	370 kW	8	90° V	132 mm
	E3268 LE232		–	370 kW			
	E3268 LE252		–	320 kW			
	E3268 LE262		–	320 kW			
	E3262 LE242	25.8 l	–	450 kW	12	90° V	132 mm
	E3262 LE212		–	550 kW			
	E3262 LE202		550 kW	–			
	E3262 LE252		530 kW	–			
E38	E3872 LE201	29.6 l	735 kW	–	12	90° V	138 mm

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

SPECIAL GAS 1 500 rpm: < 250 mg/Nm^3 NO_X

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E32	E3268 LE222	17.2 l	–	370 kW	8	90° V	132 mm
	E3262 LE212	25.8 l	–	550 kW	12	90° V	132 mm
	E3262 LE242		–	450 kW			

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

SPECIAL GAS 1 800 rpm: < 500 mg/Nm^3 NO_X

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E08	E0834 LE302	4.6 l	68 kW	–	4	inline	108 mm
	E0834 LE322		–	80 kW			
	E0836 LE302	6.9 l	–	110 kW	6	inline	108 mm
E28	E2876 LE202	12.8 l	200 kW	–	6	inline	128 mm
	E2876 TE302		–	130 kW			
E32	E3268 LE222	17.2 l	–	390 kW	8	90° V	132 mm
	E3268 LE252		–	340 kW			
	E3268 LE262		–	340 kW			
	E3262 LE242	25.8 l	–	450 kW	12	90° V	132 mm
	E3262 LE212		–	580 kW			
	E3262 LE202		580 kW	–			
	E3262 LE252		530 kW	–			
E38	E3872 LE202	29.6 l	840 kW	–	12	90° V	138 mm

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

SPECIAL GAS 1 800 rpm: < 250 mg/Nm^3 NO_X

Technical features

Engine type	Engine version	Displacement	Effective rated power	ISO standard power	Cylinders	Arrangement	Bore
E32	E3268 LE222	17.2 l	–	390 kW	8	90° V	132 mm
	E3262 LE212	25.8 l	–	580 kW	12	90° V	132 mm
	E3262 LE242		–	450 kW			

Data are approximate. Actual values depend on engine configuration options and gas quality. Details on request.

HYDROGEN BLENDING.

Most stationary MAN gas engines are designed for a hydrogen blending of up to 20 % by volume (H_2) when operated with natural gas. We thus support operators in setting up their CHP units as “hydrogen readiness” plants, something the German government is Actually assessing with a view to promoting it within the framework of the Combined Heat and Power Act (KWK-Gesetz).

No design modifications are required for MAN natural gas engines for operation with hydrogen-containing fuels with up to 20 % hydrogen blending by volume. Existing installations can be converted to “hydrogen readiness” up to 20 % by volume with knock detection.

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