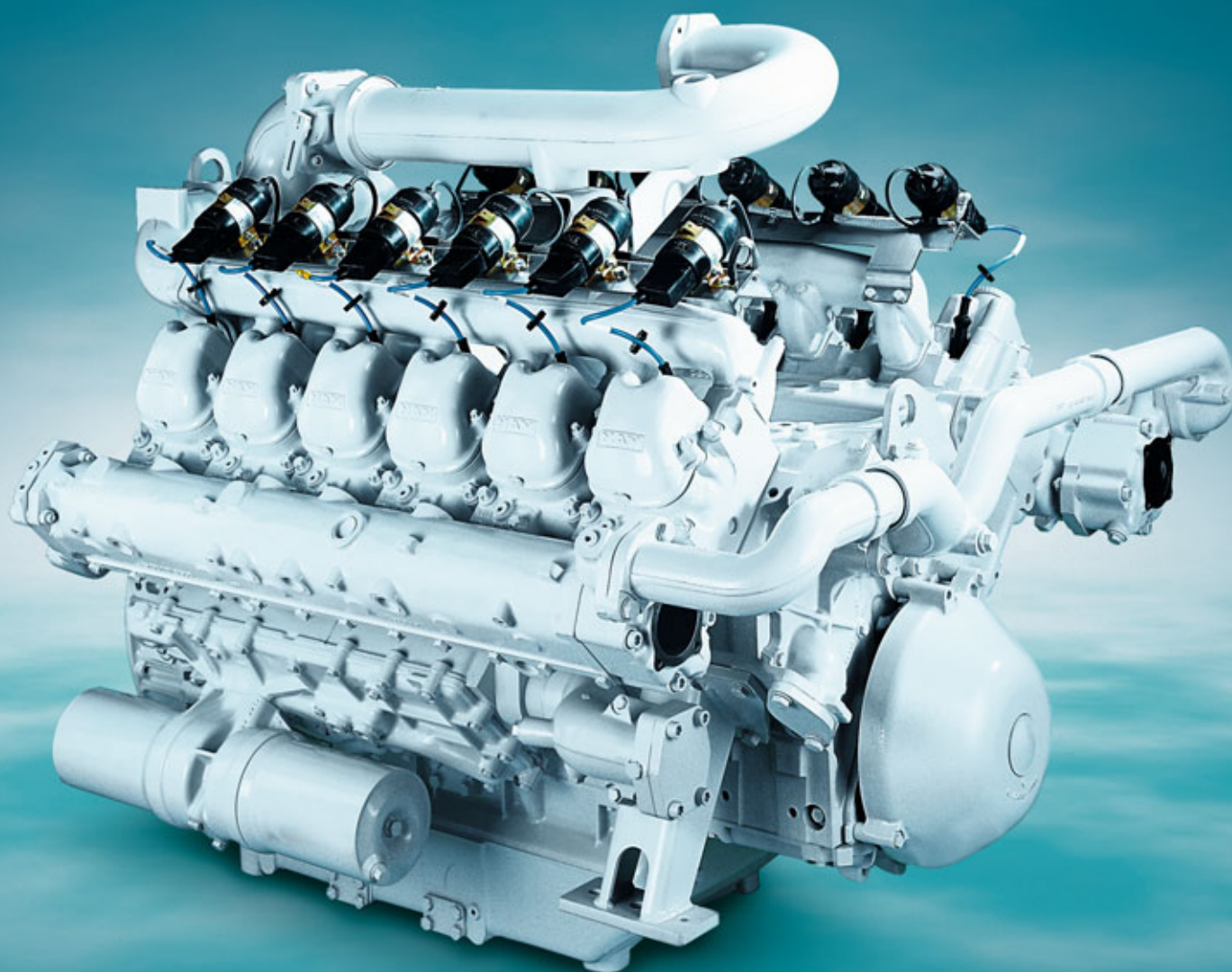


E2842 E



V12 gas engine for CHP.

Engineering the Future – since 1758.

MAN Nutzfahrzeuge





Efficient and Clean.

Producers and operators of cogeneration plants have stringent demands. Robust and compact engines have to work reliably round-the-clock. Economic operation is important for the lifetime of the complete plant. Economic means highly efficient use of resources and low running costs of the plant. Due to continuous development MAN engines always work highly efficiently, reliably and environmentally-friendly.

Engine description E2842 E.

Characteristics

Cylinder	12-cylinder
Arrangement	V-design
Operation mode	4-stroke otto gas engine
Type of cooling	Watercooled

Dimensions E2842		
Type of engine		E 312
A-Overall length	mm	1,490
B-Overall width	mm	1,265
C-Overall height	mm	1,240
Weight (dry)	kg	1,300

Customer Benefits

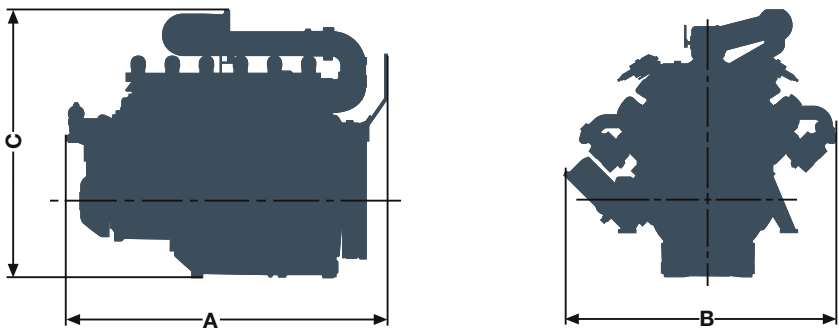
- High efficiency due to optimal combustion
 - Reduced operating costs due to low fuel and oil consumption as well as long service life
 - Low emissions to save the environment
- Compact design
 - Sophisticated and well-tested technology ensures reliable operation and long lifetime

Technical Data E2842

Operation mode		COP with natural gas	
at speed	rpm	1,500 (50 Hz)	1,800 (60 Hz)
Type of engine		E 312	E 312
Bore	mm	128	128
Stroke	mm	142	142
Displacement	l	21.9	21.9
ISO standard rating		250	280
Air ratio	λ	1.0	1.0
Coolant heat ¹	kW	236	260
Exhaust heat up to 120°C ¹	kW	129	156
Efficiency ¹			
mechanical	%	37.5	37.2
thermal	%	54.5	55.1
total	%	92.0	92.4
Emissions ² NO _x	mg/Nm ³	< 6,500	< 6,500
Combustion ³		st	st
¹ At 100% load. ² Correlation 5% oxygen. ³ st=stoichiometric. Technical data are based on natural gas with calorific value 10 kWh/Nm ³ . The values given in this data sheet are for information purposes only and not binding.			

Definition of Application

Engines for COP (continuous power) are designed for 8,000 annual operation hours at a load factor of 100%. Usually, these engines are used in cogeneration plants.



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Text and illustrations are not binding.

We reserve the right to make modifications in the course of technical progress.

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