Power

Industrial engines

E2848

V8 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 E2848.

Characteristics

Cylinder and arrangement	8-cylinder in V-design
Operation mode	4-stroke Otto gas engine
Charging	Exhaust turbocharger with watercooled turbine housing
Cooling system	Watercoolded
Mixture cooling	Two-stage

Dimensions E2848		
Type of engine		LE 322
A-Overall length	mm	1,210
B-Overall width	mm	1,172
C-Overall height	mm	1,340
Weight (dry)	kg	1,200

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 E2848

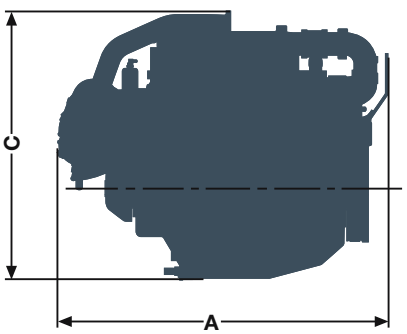
Operation mode		**COP with natural gas**		**COP with biogas**	
at speed	rpm	1,500 (50 Hz)	1,800 (60 Hz)	1,500 (50 Hz)	1,800 (60 Hz)
Type of engine		**LE 322**	**LE 322**	**LE 322**	**LE 322**
Bore	mm	128	128	128	128
Stroke	mm	142	142	142	142
Displacement	l	14.6	14.6	14.6	14.6
ISO standard rating	kW	265	295	265	265
Air ratio	λ	1.6	1.6	1.45	1.45
Coolant heat[1]	kW	150	171	152	164
Exhaust heat up to 120°C[1]	kW	145	179	152	169
Efficiency[1]					
mechanical	%	39.0	38.0	40.5	37.9
thermal	%	47.3	49.5	49.6	51.3
total	%	86.2	87.5	90.1	89.2
Emissions[2] NO_x	mg/Nm[3]	< 500	< 500	< 500	< 500
Combustion[3]		m	m	m	m

[1] At 100% load. [2] Correlation 5% oxygen. [3] m=lean burn.

Technical data are based on natural gas with calorific value 10 kWh/Nm³ and bio gas with calorific value 6 kWh/Nm³
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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MAN Nutzfahrzeuge AG
Sales Engines & Components
Vogelweiherstr. 33
90441 Nuremberg

man-engines@man.eu
www.man-engines.com