

Data sheet

CHP ECO 210 EG



Complete System

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| Fuel | Natural Gas/Biomethane/Biogas |
| Operation Mode | Parallel network operation |
| Electrical Power | 210 kW (kVA) |
| Thermal Power | 248 kW |
| CHP Coefficient | 0.85 |
| Rated Thermal Input | 529 kW |
| Fuel Consumption | 52.9 Nm ³ /h |
| Electrical Efficiency (measured) | 39.5 % |
| Electrical Efficiency (acc. to DIN 3046-1) | 41 % |
| Heating Supply Temperature | 85 °C (max 90 °C) |
| Heating Return Temperature | 65 °C (max 70 °C) |

Engine

MAN E2676

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| Type | 6 Cylinder In-Line Engine |
| Operation Process | 4-Cycle Otto with Turbocharging |
| Displacement / Bore / Stroke | 12.4 l / 126 mm / 166 mm |
| Rotation Speed | 1500 1/min |
| Exhaust Gas Flow Rate (humid) | 1196 kg/h |
| NOx | < 500 mg/m ³ based on 5% O ₂ |
| CO | < 300 mg/m ³ based on 5% O ₂ |
| Formaldehyde | < 60 mg/m ³ based on 5% O ₂ |
| Exhaust Gas Treatment | Oxidation Catalyst |
| Oil Consumption | ca. 0.034 l/h; max. 0.167 l/h |

Synchronous Generator

Leroy Somer LSA 47.2 M8

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|-----------------------------------|-------------------|
| Cooling System | Air cooled |
| max. Power (Based on cos Phi 0.8) | 550 kVA |
| Voltage / Frequency / cos Phi | 400 V / 50 Hz / 1 |
| Efficiency | 96 % |

Dimensions, Weight and Connections

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|-------------------------|--------------------------|
| Length / Width / Height | 3760mm / 1730mm / 2600mm |
| Weight with coolant | 4690 kg |
| Heating Connection | DN50 |
| Electrical Connection | 3 x 400V 32A |

The technical data are based on natural gas with a heat value of 10.0 kWh/Nm³ and a Methane number higher 80. The technical data are specified on standard terms and conditions according to DIN ISO 3046-1. All values are based on the system in norm operation. Standard terms and conditions: absolute air pressure 100 kPa; air temperature: 25 °C; relative air humidity: 30%. Power adaptation at ambient condition specified in DIN ISO 3046-1. At nominal power the tolerance for the specific fuel consumption is 5% and for the usable thermal power it is 7%. Reservation: We reserve the right to change the data and features without notice.