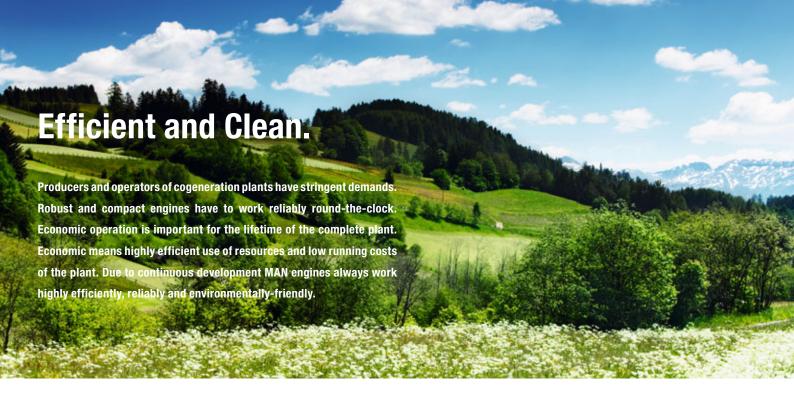
E2876



6-cylinder gas engine for CHP.





Engine Description E2876.

Characteristics

Cylinder and arrangement 6-cylinder in line

Operation mode 4-stroke otto gas engine

Charging Exhaust turbocharger with watercooled turbine housing for the LE 302 und TE 302

Type of cooling Watercooled

Mixture cooling Two-stage for the LE 302

| Dimensions E2876 | | | | | |
|------------------|----|-------|--------|--------|--------|
| Type of engine | | E 312 | TE 302 | LE 302 | LE 202 |
| A-Overall length | mm | 1,330 | 1,545 | 1,520 | 1 520 |
| B-Overall width | mm | 830 | 835 | 830 | 830 |
| C-Overall height | mm | 1,035 | 1,210 | 1,210 | 1 226 |
| Weight (dry) | kg | 830 | 920 | 990 | 985 |

Customer Benefits

- High efficiency due to optimal combustion
- Reduced operating costs due to low fuel and oil consumpton 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 E2876

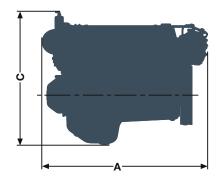
| Operation mode | COP with natural gas | | | | COP with biogas | | | | | |
|--|----------------------|---------------|--------|---------------|-----------------|---------------|--------|---------------------|---------------|--|
| at speed rpm | | 1,500 (50 Hz) | | 1,800 (60 Hz) | | 1,500 (50 Hz) | | | 1,800 (60 Hz) | |
| Type of engine | | E 312 | LE 302 | E 312 | LE 302 | TE 302 | LE 302 | LE 202 ⁴ | LE 302 | |
| Bore | mm | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | |
| Stroke | mm | 166 | 166 | 166 | 166 | 166 | 166 | 166 | 166 | |
| Displacement | 1 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | 12.8 | |
| ISO standard rating | kW | 150 | 210 | 170 | 210 | 130 | 200 | 220 | 200 | |
| Air ratio | λ | 1.0 | 1.6 | 1.0 | 1.6 | 1.4 | 1.4 | 1.4 | 1.4 | |
| Coolant heat ¹ | kW | 128 | 99 | 145 | 106 | 124 | 98 | 103 | 106 | |
| Exhaust heat up to 120°C¹ | kW | 79 | 143 | 98 | 157 | 57 | 129 | 127 | 137 | |
| Efficiency ¹ | | | | | | | | | | |
| mechanical | % | 38.4 | 39.0 | 38.0 | 37.0 | 38.0 | 40.4 | 40.4 | 38.5 | |
| thermal | % | 52.8 | 48.9 | 54.1 | 50.7 | 52.8 | 49.5 | 44.7 | 50.8 | |
| total | % | 91.2 | 87.9 | 92.1 | 87.7 | 90.8 | 89.9 | 85.1 | 89.3 | |
| Emissions ² NO _x | mg/ Nm³ | < 4,500 | < 500 | < 4,250 | < 500 | < 500 | < 500 | < 500 | < 500 | |
| Combustion ³ | | st | m | st | m | m | m | m | m | |

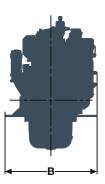
¹ At 100% load. ² Correlation 5% oxygen. ³ m=lean burn, st=stoichiometric; ⁴ Data are with reservation and on request.

Technical data are based on natural gas with calorific value 10 kWh/Nm³ and bio gas with calorific value 6 kWh/Nm³ (E2876 LE 202: HU=5kWh/ 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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