

MAN L21/31



Bore: 210 mm, Stroke: 310 mm

| | | |
|---------|-------|-------|
| Speed | r/min | 1000 |
| mep | bar | 24.0 |
| | | kW |
| 6L21/31 | | 1,290 |
| 7L21/31 | | 1,505 |
| 8L21/31 | | 1,720 |
| 9L21/31 | | 1,935 |

Specific Fuel Oil Consumption (SFOC) to ISO conditions

| | | |
|--------|-----------|-----------|
| MCR | 100% | 85% |
| L21/31 | 195 g/kWh | 192 g/kWh |

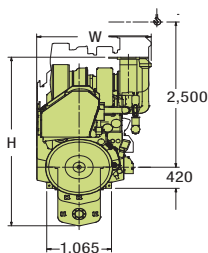
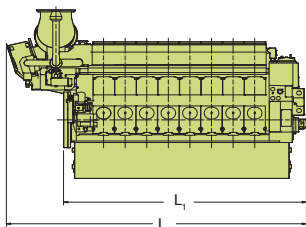
Specific lube oil consumption 0.8 g/kWh

Engine type specific reference charge air temperature before cylinder 40 °C

Dimensions

| Cyl. No. | | 6 | 7 | 8 | 9 |
|----------------|----|-------|-------|-------|-------|
| L | mm | 4,544 | 4,899 | 5,254 | 5,609 |
| L ₁ | mm | 3,424 | 3,779 | 4,134 | 4,489 |
| H | mm | 3,113 | 3,267 | 3,267 | 3,267 |
| W | mm | 1,695 | 1,695 | 1,820 | 1,820 |
| Dry mass | t | 16.0 | 17.5 | 19.0 | 20.5 |

Minimum centreline distance for twin engine installation: 2,400 mm



Main Data

| | | |
|-------------------------|--------|-------------|
| Number of cylinder | | 6,7,8,9 |
| Rated power(MCR) | kW/cyl | 215 |
| Rated speed | rpm | 1000 |
| Idle speed | rpm | 600 |
| Bore | mm | 210 |
| Stroke | mm | 310 |
| Stroke/bore ratio | | 1.5 |
| Cylinder distance | mm | 355 |
| Mean piston speed | m/s | 10.3 |
| Mean eff. Pressure(MEP) | bar | 24.1 |
| Compression ratio | | 16.5 |
| Displacement/cylinder | L | 10.7 |
| Max.combustion pressure | bar | 210 |
| Fuel oil acceptance | | MGO,MDO,HFO |
| Injection viscosity | cSt | Max 14 |
| Lubricating oil | Grade | SAE 40 |

**ISO ambient conditions. Tolerance 5%*

Fuel oil with lower calorific value of 42700 kJ/kg

Without engine-driven pumps

Addition for engine-driven Pumps:

1.5%(3g/kWh)for lubricating oil pump.

0.7%(1.4g/kWh)for each water pump.

***For guidance only.*

