

18.04.2020

ElectroGas Malta Ltd

Unit Reference : CP 4 – FSU Aux.Diesel Generator 1

Thermal Input Calculation-

Maximum fuel consumption = $157 \text{ gr/hr} \times \text{power load (1800)} = 282.60 \text{ kg/hr}$
At 100% load

Fuel consumption = $282.60 \text{ kg/hr} = 0.0785 \text{ kg/sec}$

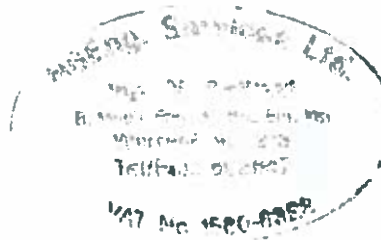
Heating value = 43 MJ/kg

Power Thermal input = $43 \text{ MJ/kg} \times 0.0785 \text{ kg/sec} = 3.4 \text{ MWth}$

Power = 3.4 MWth



Ing. Nicholas Bellizzi



Fuel Consumption rate	157 g/PS.hr
Rated output	1800 PS
HHV of natural gas	43 MJ/kg
Thermal Heat Input	3.3755 MWth

Rated output - Rated engine speed	1800 PS × 720 rpm
21. Performance	<ul style="list-style-type: none"> • 10% overload: 60min • Fuel consumption rate: 157 g/PS.hr (100% load, heavy oil A At lower heat value 10200kcal/kg) • Lubricant consumption rate: 0.8 g PS hr (at 100% load) • Speed variation: Instant within 10%, Setting within 5% Setting time within 5sec • Frequency variation time by governor motor: About 8-12 sec Hz • Frequency variation range by governor motor: Above $\pm 10\%$ vs rated (at no load) • Min start-up temperature: 0°C • Min start-up air pressure: 8 kg cm² (at -20°C)

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