



GROUP	<b>GAS</b>	PRODUCT INFORMATION	INDEX
<b>IC</b>		<b>IC-G-B-48-033</b>	
<b>POWER RATING</b>			DATE <b>16-08-07</b>
			DEP. <b>2</b>

<b>ENGINE:</b>	<b>SFGLD 480</b>	<b>SPEED:</b>	<b>1800</b>
<b>JACKET WATER TEMPERATURE(°C):</b>	<b>90</b>	<b>FUEL TYPE:</b>	<b>Natural Gas</b>
<b>INTERCOOLER WATER TEMP(°C):</b>	<b>55</b>		

APPLICATION: COOLING SYSTEM:	<b>CONTINUOUS TWO CIRCUITS</b>	COMPRESSION RATIO: REGULATION:	<b>11.8:1 Electronic</b>
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	<b>10°</b>
EMISSIONS:		MAX. BACK PRESSURE:	<b>450 mmH2O</b>
NOX	mg/Nm3 (8)	<b>450</b>	
CO	mg/Nm3(8)	<b>&lt;800</b>	
NMHC	mg/Nm3	<b>&lt;300</b>	
		AMBIENT CONDITIONS ISO 3046/1:	
		Atmospheric pressure (kPa)=	<b>100</b>
		Ambient temperature (°C)=	<b>25</b>
		Relative humidity (%)=	<b>30</b>

<b>POWER RATING (4)</b>		<b>NOMINAL</b>	<b>PARTIAL LOADS</b>			
LOAD		%	80%	60%	40%	
MECHANICAL POWER	(3, 4, 5)	kWb	<b>906</b>	725	544	362
BMEP		bar	<b>126</b>	101	76	5
FUEL CONSUMPTION	(1)	kW	<b>2495</b>	2040	1595	1135
THERMAL EFFICIENCY		%	<b>36.3</b>	35.5	34.1	31.9
HEAT IN MAIN WATER CIRCUIT	(1)	kW	<b>654</b>	555	462	350
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	<b>255</b>	195	144	102
HEAT IN CHARGE COOLER	(1)	kW	<b>155</b>	102	58	22
HEAT IN OIL COOLER	(1)	kW	<b>100</b>	93	86	80
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	<b>647</b>	536	419	301
HEAT IN EXHAUST GASES (120°C)	(1)	kW	<b>497</b>	414	326	236
EXHAUST GAS TEMPERATURE	(1)	°C	<b>435</b>	445	453	461
HEAT TO RADIATION	(1)	kW	<b>33</b>	29	26	20
<b>CARBURETION SETTINGS (2)</b>						
O <sub>2</sub> TO EXHAUST(DRY)(ONLY A REFERENCE)		%	<b>8.0</b>	7,8	7,5	7,2
<b>MASS FLOWS</b>						
INTAKE AIR FLOW	(1)	kg/h	<b>4750</b>	3830	2940	2080
EXHAUST GAS FLOW (WET)	(1)	kg/h	<b>4940</b>	3990	3060	2160

<b>NOTES:</b>
1. 100% LOAD TOLERANCES: FUEL CONSUMPTION ±5%, COOLING CIRCUIT AND EXHAUST GASES ± 15%, RADIATION ±25 EXHAUST TEMPERATURE ±20°C, MASS FLOWS ± 10%.
2. THE ENGINE PERFORMANCE DATA, TIMING ADVANCE AND CARBURETION SETTINGS ARE VALID FOR A GAS THAT FULFILS THE REQUIREMENTS DEFINED IN IC-G-D-30-001, IC-G-D-30-002 AND IC-G-D-30-003
3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.
4. POWERS ARE VALID FOR AMBIENT TEMP. < 25°C AND AN ALTITUDE OF < 500m. OTHER CONDITIONS IN IC-G-B-00-001
5. OVERLOAD NOT ALLOWED
6. THE SPECIFICATIONS AND MATERIALS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION
7. A ENGINE WITH INLET OR OUTPUT RESTRICTION OVER PUBLISHED LIMITS, OR WITH INADEQUATE MAINTENANCE OR INSTALLATION CAN MODIFY POWER RATING DATA.
8. EMISSIONS ARE CORRECTED TO 5% OF O2