

 	GROUP	GAS	PRODUCT INFORMATION	INDEX
	IC		IC-G-B-24-011	E
	POWER RATING			DATE
			11-02-04	
			DEP.	2

GENSET:	FGLD 240	SPEED:	1500
JACKET WATER TEMPERATURE(°C):	90	FUEL TYPE:	NATURAL GAS
INTERCOOLER WATER TEMP(°C):	55		

APPLICATION:	CONTINUOUS	COMPRESSION RATIO:	11:1
COOLING SYSTEM:	TWO CIRCUITS	REGULATION:	Manual
EXHAUST MANIFOLD TYPE:	WATER COOLED	IGNITION TIMING:	18°
EMISSIONS:		MAX. BACK PRESSURE:	450 mmH2O
	NOX mg/Nm3(8)	AMBIENT CONDITIONS ISO 3046/1:	
	CO mg/Nm3(8)	Atmospheric pressure (kPa)=	100
	NMHC mg/Nm3	Ambient temperature (°C)=	25
		Relative humidity (%)=	30

POWER RATING (4)			NOMINAL	PARTIAL LOADS		
LOAD		%	100%	80%	60%	40%
MECHANICAL POWER	(3, 4, 5)	kWb	360	288	216	144
BMEP		bar	12,0	9,6	7,2	4,8
ELECTRICAL POWER (cosφ 1)		kWe	347,0	278,0	208,0	137,0
ELECTRICAL POWER (cosφ 0,8)		kWe	342,0	274,0	206,0	136,0
FUEL CONSUMPTION	(1)	kW	951	791	621	447
THERMAL EFFICIENCY		%	37,9	36,4	34,8	32,2
ELECTRICAL EFFICIENCY (cosφ 1)		%	36,5	35,1	33,5	30,6
HEAT IN MAIN WATER CIRCUIT	(1)	kW	258	219	180	137
HEAT IN SECONDARY WATER CIRCUIT	(1)	kW	90	75	54	39
HEAT IN CHARGE COOLER	(1)	kW	44	32	16	3
HEAT IN OIL COOLER	(1)	kW	46	43	38	36
HEAT IN EXHAUST GASES (25 °C)	(1)	kW	221	190	154	112
HEAT IN EXHAUST GASES (120°C)	(1)	kW	162	141	115	85
EXHAUST GAS TEMPERATURE	(1)	°C	382	392	405	414
HEAT TO RADIATION	(1)	kW	22	19	17	15
CARBURETION SETTINGS (2)						
O2 TO EXHAUST(DRY)(ONLY A REFERENCE)		%	9,3	9,2	8,8	8,7

MASS FLOWS						
INTAKE AIR FLOW	(1)	kg/h	1870	1560	1220	870
EXHAUST GAS FLOW (WET)	(1)	kg/h	1940	1620	1260	900

NOTES:
1. 100% LOAD TOLERANCES: FUEL CONSUMPTION +5%, COOLING CIRCUIT AND EXHAUST GASES ± 8%, 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 AND IC-G-D-30-002
3. NET POWER, MECHANICAL PUMPS NOT INCLUDED.
4. POWERS ARE VALID FOR AMBIENT TEMP. =35°C AND AN ALTITUDE OF =500m. SEE OTHER CONDITIONS IN PI 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.
9. ALTERNATOR VOLTAGE 400 V

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