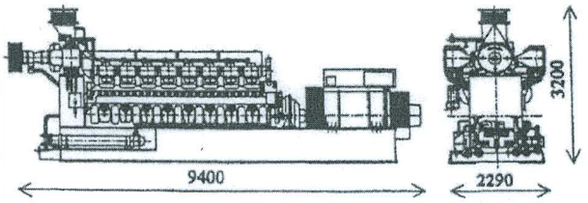
WÄRTSILÄ

CR 26 GD

GAS-DIESEL ENGINE 16V CR26GD

ENGINE DESIGN

Bore	mm	260
Stroke	mm	320
Number of cylinders		16 V
Displacement	l	272
Engine water capacity (LT circuit)	l	350
Engine water capacity (HT circuit)	l	600
Engine luboil capacity	l	1100
Genset weight	kg	53000



TECHNICAL DATA

Cycle/Rated speed			50 Hz 750 rpm	
Fuel mode			**Gas-diesel**	**Diesel**
NOx (5% O2 dry)		g/Nm3	**< 1,8**	**< 3,5**
		g/kWh	**< 4,8**	**< 10,5**
Energy input gas (LHV)	1)	kW	5730	0
Energy input fuel oil	1)	kW	370	5800
Total energy input	1)	kW	6100	5800
Mechanical	2)	kW	**2500**	**2500**
Electrical	3)	kWe	2400	2400
Jacket water , oil , intercooler 1st stg	4)	kW	800	940
Exhaust to 150°C	5)	kW	1250	1200
Mechanical efficiency		%	41,0%	43,1%
Electrical efficiency		%	39,3%	41,4%
Thermal efficiency		%	33,6%	36,9%
Total efficiency		%	73,0%	78,3%
Intercooler 2nd stage	4)	kW	560	600
Radiated power	4)	kW	150	150
Exhaust and combustion losses		kW	840	410
Jacket water inlet temperature		°C	72	72
Jacket water outlet temperature		°C	80	80
Jacket water flow		m3/h	100	100
Intercooler inlet temperature		°C	46	46
Intercooler outlet temperature		°C	51	51
Intercooler flow		m3/h	100	100
Air intake flow	4)	kg/h	15800	16900
Exhaust gas flow	4)	kg/h	16300	17500
Exhaust gas temperature	4)	°C	405	385
Maximum exhaust back pressure		kPa	5	5
Minimal gas pressure required		bar	0,5	0,5
Lube oil consumption		g/kWh	<0,7	<0,7

Engineering data subject to change without prior notice - All data according to full load at ISO conditions.

1) According to ISO 3046/I with a tolerance of +5% - Natural gas LHV: 33440 kJ/Nm3 and methan index >72 - Light diesel oil : 42700 kJ/kg

2) Continuous output and reference conditions according to ISO 3046/I (100 kPa, 35°C)

Derating factors:

For each additional degree of ambient temperature above 35°C : 0,2 % of the mechanical output

For each additional 100m of altitude above 800 m : 1,0 % of the mechanical output

For each additional degree of inlet A/C water temperature (max:+10°C) above the nominal value: 1,0% of the mechanical output

For each methan index unit below 72 : 1,0% of the mechanical output

3) Generator terminals at PF=0,8 according to IEC 34.1

4) Tolerance +/- 5%

5) Tolerance +/- 8%

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