

CHP - Module Type UPB 12-L-W-E3262E302 Woodgas

Energy balance CHP			General data		
Electrical power	kWel	130	Noise level CHP @ 1m	dB(A)	70±3
Thermal output	kW	226	Noise level exhaust @ 1m	dB(A)	70±3
Fuel consumption	kW	404	Exhaus gas mass flow (wet)	kg/h	526
Gas flow*		-	Exhaus gas flow	Nm³/h	426
Electrical efficiency	%	32,9	Exhaust backpressure max	mbar	40
Thermal efficiency	%	55.9	Exhaust stack temperature	°C	150
Total efficiency	%	88.8	Air mass flow	kg/h	496
Emission data (5% O2)	%	5	Air flow (101.3 kPa)	Nm³/h	346
NOx	mg/Nm³	<6000	Intercooler temp. max	°C	-
CO	mg/Nm³	<4000	Combustions air suction restrain	mbar	10
			Heating water temperature in	°C	70
			Heating water temperature out	°C	90
			Heating water flow max.	m³/h	9,9
			Ventilation	m³/h	9100
Engine			Generator		
Engine manufacturer	Mann		Manufacturer	Marelli	
Configuration	V		Type	MBX-E 250 MA4	
Number of cylinder		12	Power	kVA	169
Bore	mm	132			
Stroke	mm	157			
Displacement	lit	25	Efficiency @ cos phi=1	%	95
Engine Speed	rpm	1500	Efficiency @ cos phi=0,8	%	95,5
Mean piston speed	m/s	7,85	Nominal power cos phi=1	kW	135
BMEP (Brake Mean Effective Pressure)	bar	0	Nominal power cos phi=0,8	kW	135
Compression ratio	epsilon	12:1	Frequency	Hz	50
Engine power ISO/ICFN	kW	273	Voltage	Volt	400
Spec. Fuel consumption	kWh/kWh	95	Protection class		IP23
Max. specific lube oil consumption	g/kWh	<0.3	Insulations class		H
Weight (dry)	kg	1763	Speed	rpm	1500
Oil volume	lit	-	Weight	kg	599
Methan number	MZ	95			

* - depending on quality of the gas, to defined later

Conditions

- 1 ISO / ICFN power without over load regarding to ISO 3046/1-1991 (DIN 6271).

Nominal conditions

Air pressure 100 kPa (100 m over NN)
 Air temperature 25° C
 Air humidity rel. 30%

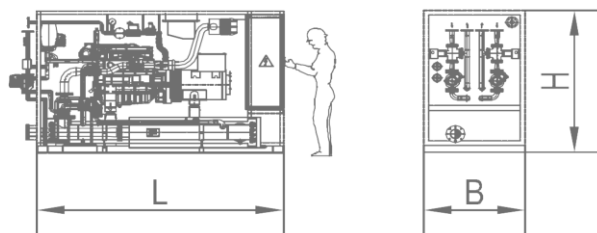
Power for other conditions on request

- 2 Electrical power at cos phi = 1, F = 50 Hz, U = 400V
- 3 Gas consumption Hu regarding to ISO 3046/1-1991 (DIN 6271), tolerance +/- 5 %.
- 4 Specific lube oil consumption as average. The maintenance schedule of upb has to be respected
- 5 Thermal power tolerance +/-8 %
- 6 Subject to change without prior notice

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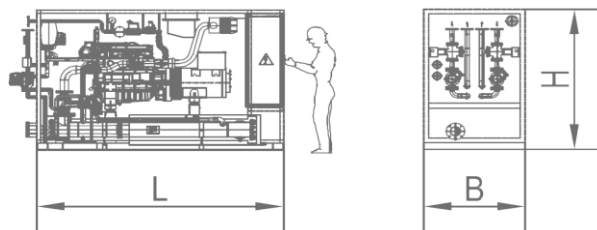
Dimensions

Genset



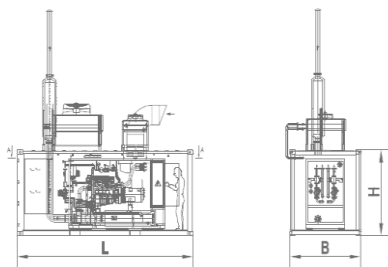
Main dimensions and weights			Connections		
Length L	mm	4 100	Heat water	DN/PN	65
Width B	mm	1 550	Exhaust gas	DN/PN	150
Height H	mm	2 500	Fuel	DN/PN	125
Weight dry	kg	*	Inter cooler	DN/PN	-
Weight	kg	*	Emergency cooler (option)	DN/PN	-

Compact Module



Main dimensions and weights			Connections		
Length L	mm	4 100	Heat water	DN/PN	65
Width B	mm	1 550	Exhaust gas	DN/PN	150
Height H	mm	2 500	Fuel	DN/PN	125
Weight dry	kg	6 000	Inter cooler	DN/PN	-
Weight	kg	*	Emergency cooler (option)	DN/PN	-

Container 20'



Main dimensions and weights			Connections		
Length L	mm	12 000	Heat water	DN/PN	65
Width B	mm	2 500	Exhaust gas	DN/PN	150
Height H	mm	2 500	Fuel	DN/PN	125
Weight dry	kg	*	Inter cooler	DN/PN	-
Weight	kg	*	Emergency cooler (option)	DN/PN	-



UPB ENERGY dealer in your country:

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