

REMEHA R-GEN 50/100 NG

TECHNICAL SPECIFICATION SHEET

This is a quick reference specification sheet, full details can be found at remeha.co.uk

May 2017

PERFORMANCE			
Fuel	Natural Gas – MN >80 CH4		
Load	50	75	100
Electrical output ⁽³⁾ (kW)	25	38	50
Electrical efficiencies (gross) ⁽¹⁾⁽²⁾	24.5%	28.6%	31.1%
Thermal output (kW)	66	82	100
Thermal efficiencies (gross) ⁽¹⁾⁽²⁾	64.3%	62.5%	61.8%
Total efficiencies (el.+Th.) (gross) ⁽¹⁾⁽²⁾	88.8%	91.1%	92.9%
Power Performance coefficient ⁽¹⁾⁽²⁾	0.38	0.46	0.50
Fuel input ⁽¹⁾ (kW)	92	118	145
Gas volume flow (m ³ /h)	8.76	11.24	13.81
Operation	Modulating		
ENGINE			
Type/stroke	Row / 4		
Number of cylinders	4		
Speed (RPM)	1500		
Service intervals (Running hours)	2500		
ELECTRICAL			
Voltage (V)	400		
Frequency (Hz)	50		
Generator type	Asynchronous		
Grid application type	G59		
Grid system type	TN-S		
Circuit breaker	C		
NOISE			
Sound pressure (1m) (dB(A))	55		
Sound power (1m) (dB(A))	72		
DIMENSIONS AND WEIGHT			
Unit	Module	Control panel	
Width (mm)	990	800	
Depth (mm)	2427	500	
Height (mm)	1625	1800	
Weight (kg)	2070	150	

SERVICE SPACE	
Side (mm)	≥800
Front (mm)	≥1500
Rear (mm)	≥800
EFFICIENCY CLASS	
ErP	N/A
CONNECTIONS	
Exhaust (DN in mm)	80
Flow	DN40 / PN16
Return	DN40 / PN16
Gas (Inches)	1"
Intercooler circuit (Inches)	N/A
Condensate (Inches)	1/2"
PRESSURES	
System Working Pressure min. (bar)	0.8
System Working Pressure max. (bar)	3
CHP Safety Valve Fitted (bar)	3
Gas pressure min. (mbar)	20
Gas pressure max. (mbar)	100
EMISSIONS	
BREEAM NO _x Emission (mg/kWh)	0
Grid NO _x Emission (mg/kWh)	617
Electrical (mg/kWh)	47.7
Thermal (mg/kWh)	92.6
COMBUSTION AIR	
Mass flow (kg/h)	180
Volume flow (m ³ /h)	152
FLUE GAS	
Waste gas mass wet (kg/h)	191
Waste gas mass dry (kg/h)	168
Waste gas volume wet (m ³ /h)	152
Waste gas volume dry (m ³ /h)	125

(1) Tolerance for specific fuel use amounts to +5% of nominal performance.

(2) Tolerance for usable heat output is ±8% under normal load.

(3) Electrical generator terminal power at cosφ =1.

Information correct on the date of publishing.