

REMEHA R-GEN 100/112 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 CH ₄		
Load	50	75	100
Electrical output ⁽³⁾ (kW)	50	75	100
Electrical efficiencies (gross) ⁽¹⁾⁽²⁾	29.6%	32.9%	34.6%
Thermal output (kW)	69	91	112
Thermal efficiencies (gross) ⁽¹⁾⁽²⁾	41.0%	40.0%	38.7%
Total efficiencies (el.+Th.) (gross) ⁽¹⁾⁽²⁾	70.6%	72.9%	73.3%
Power Performance coefficient ⁽¹⁾⁽²⁾	0.72	0.82	0.90
Fuel input ⁽¹⁾ (kW)	152	205	260
Gas volume flow (m ³ /h)	14.48	19.52	24.76
Operation	Modulating		
ENGINE			
Type/stroke	Row / 4		
Number of cylinders	4		
Speed (RPM)	1500		
Service intervals (Running hours)	2000		
Aspiration type	Turbo charged		
ELECTRICAL			
Voltage (V)	400		
Frequency (Hz)	50		
Generator type	Synchronous		
Grid application type	G59		
Grid system type	TN-S		
Circuit breaker	C		
NOISE			
Sound pressure (1m) (dB(A))	70		
Sound power (1m) (dB(A))	102		
DIMENSIONS AND WEIGHT			
Unit	Module	Control panel	
Width (mm)	1170	800	
Depth (mm)	3090	600	
Height (mm)	1835	2000	
Weight (kg)	3980	200	

SERVICE SPACE	
Side (mm)	1000
Front (mm)	1000
Rear (mm)	1000
EFFICIENCY CLASS	
ErP	N/A
CONNECTIONS	
Exhaust	DN100 / PN10
Flow	DN40 / PN16
Return	DN40 / PN16
Gas	DN25 / PN10
Intercooler circuit	DN50 / PN16
Condensate (Inches)	3/4"
PRESSURES	
System Working Pressure min. (bar)	0.8
System Working Pressure max. (bar)	6
CHP Safety Valve Fitted (bar)	6
Gas pressure min. (mbar)	30
Gas pressure max. (mbar)	70
EMISSIONS	
BREEAM NO _x Emission (mg/kWh)	Zero
Grid NO _x Emission (mg/kWh)	617
Electrical (mg/kWh)	190.9
Thermal (mg/kWh)	370.5
COMBUSTION AIR	
Mass flow (kg/h)	559
Volume flow (m ³ /h)	472
FLUE GAS	
Waste gas mass wet (kg/h)	580
Waste gas mass dry (kg/h)	539
Waste gas volume wet (m ³ /h)	456
Waste gas volume dry (m ³ /h)	408

(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 cos ϕ =1.

Information correct on the date of publishing.