

# REMEHA R-GEN 20/44 NG

TECHNICAL SPECIFICATION SHEET

This is a quick reference specification sheet, full details can be found at [remeha.co.uk](http://remeha.co.uk)

May 2017

PERFORMANCE			
Fuel	Natural Gas – MN >80 CH4		
Load	50	75	100
Electrical output <sup>(3)</sup> (kW)	10	15	20
Electrical efficiencies (gross) <sup>(1)(2)</sup>	25.3%	27.6%	28.8%
Thermal output (kW)	29	37	44
Thermal efficiencies (gross) <sup>(1)(2)</sup>	73.4%	67.8%	63.4%
Total efficiencies (el.+Th.) (gross) <sup>(1)(2)</sup>	98.7%	95.4%	92.3%
Power Performance coefficient <sup>(1)(2)</sup>	0.34	0.41	0.45
Fuel input <sup>(1)</sup> (kW)	36	49	62
Gas volume flow (m <sup>3</sup> /h)	3.43	4.67	5.90
Operation	Modulating		
ENGINE			
Type/stroke	Row / 4		
Number of cylinders	4		
Speed (RPM)	1540		
Service intervals (Running hours)	6000		
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))	52		
Sound power (1m) (dB(A))	67		
DIMENSIONS AND WEIGHT			
Unit	Module	Control panel	
Width (mm)	929	760	
Depth (mm)	1625	368	
Height (mm)	1220	600	
Weight (kg)	807	51	

SERVICE SPACE	
Side (mm)	≥600
Front (mm)	≥1200
Rear (mm)	≥600
EFFICIENCY CLASS	
ErP	A++
CONNECTIONS	
Exhaust (DN in mm)	80
Flow (Inches)	1"
Return (Inches)	1"
Gas (Inches)	3/4"
Intercooler circuit (Inches)	N/A
Condensate (Flue) (Inches)	3/4"
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 <sub>x</sub> Emission (mg/kWh)	0
Grid NO <sub>x</sub> Emission (mg/kWh)	617
Electrical (mg/kWh)	47.7
Thermal (mg/kWh)	92.6
COMBUSTION AIR	
Mass flow (kg/h)	77
Volume flow (m <sup>3</sup> /h)	65
FLUE GAS	
Waste gas mass wet (kg/h)	82
Waste gas mass dry (kg/h)	72
Waste gas volume wet (m <sup>3</sup> /h)	65
Waste gas volume dry (m <sup>3</sup> /h)	54

(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.