

# REMEHA R-GEN 5.0 SENERTEC DACHS

TECHNICAL SPECIFICATION SHEET

May 2017

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

PERFORMANCE	
Fuel	Natural Gas
Load	100%
Electrical output <sup>(1)</sup> (kW)	5
Electrical efficiencies (H <sub>i</sub> / H <sub>e</sub> )	26% / 23%
Thermal output <sup>(2)</sup> (kW)	14.6
Thermal efficiencies (H <sub>i</sub> / H <sub>e</sub> )	74% / 67%
Total efficiencies (el.+Th.) (H <sub>i</sub> / H <sub>e</sub> )	100% / 90%
Power Performance coefficient	0.34
Fuel input <sup>(3)</sup> (kW)	19.6
Gas volume flow (m <sup>3</sup> /h)	1.87
Seasonal space heating energy efficiency	156%
Annual energy consumption (kWh / GJ)	7487 / 27
Operation	On/off condensing
ENGINE	
Type/stroke	Lean burn gasoline engine / 4
Number of cylinders	1
Speed (RPM)	2450
Service intervals (Running hours)	3500
ELECTRICAL	
Voltage (V)	400
Frequency (Hz)	50
Own use Auxiliary demand (kW)	0.09
Generator type	Asynchronous
Grid application type	G83/2
Grid system type	TN-S
Circuit breaker	C
NOISE	
Sound pressure (1m) (max./min.) dB(A)	54
Sound power level L <sub>WA</sub> indoors (dB)	69
DIMENSIONS AND WEIGHT	
Unit	Module without controller
Width (mm)	720
Depth (mm)	1070
Height (mm)	1200
Weight (kg)	530

SERVICE SPACE	
Side (mm)	600
Front (mm)	600
Rear (mm)	350
EFFICIENCY CLASS	
ErP <sup>(4)</sup>	A+++
CONNECTIONS	
Exhaust (DN in mm)	80
Flow (Inches)	1"
Return (Inches)	1"
Gas (Inches)	1/2"
Condensate (Inches)	1/2"
PRESSURES	
System Working Pressure min. (bar)	1
System Working Pressure max. (bar)	3
CHP Safety Valve Fitted (bar)	3
Gas pressure min. (mbar)	15
Gas pressure max. (mbar)	24
EMISSIONS	
BREEAM NO <sub>x</sub> Emission (mg/kWh)	1
Grid NO <sub>x</sub> Emission (mg/kWh)	617
Electrical (mg/kWh)	839
Thermal (mg/kWh)	76
COMBUSTION AIR	
Mass flow (kg/h)	37
Volume flow (m <sup>3</sup> /h)	On application
FLUE GAS	
Waste gas mass wet (kg/h)	40.8
Waste gas mass dry (kg/h)	On application
Waste gas volume wet (m <sup>3</sup> /h)	33
Waste gas volume dry (m <sup>3</sup> /h)	27

(1) According to DIN ISO 3046, measured at the generator terminals. Values may differ depending on altitude, environmental conditions and conditions of use.

(2) Values from type/component test report for a return temperature of 30°C with integrated condensing unit; maximum supply flow temperature 83°C, maximum return flow temperature 70°C.

(3) Values from type/component test report for a return flow temperature of 60°C according to Hi, tolerance ±5%.

(4) Calculation according to EN 50465:2015 with Remeha packages with temperature controller. Information correct on the date of publishing.