

R-Gen Senertech Dachs

technical specification sheet.

Date: October 2021

DACHS G5.5 ⁽²⁾							
Power Level		1	2	3			
Seasonal space heating efficiency Class		A+++					
Rated heat output (P rated)		kW		7.5	10.6	14.8	
Seasonal space heating energy efficiency		%		186			
Annual energy consumption		kWh/GJ		6366/23			
Sound Power Level L WA indoors		dB		63			
Electrical efficiency		%		26.5	26.5	25.6	
Fuel		Natural Gas			LPG		
Power Level		1	2	3	1	2	3
Electrical Output ⁽³⁾		kW		2.85	4.1	5.5	3.0 4.1 5.5
Thermal output ⁽⁴⁾		kW		7.5	10.6	14.8	7.4 10.2 13.8
Fuel input ⁽⁵⁾		kW		9.7	14.1	19.5	10.1 14.0 19.0
Voltage / frequency		3 ~ 230 V / 400V / 50 Hz					
Electrical auxiliary demand ⁽⁴⁾		kW		0.065	0.070	0.080	0.065 0.070 0.080
Efficiency							
Electrical (H _s /H _i)		%		26.5/29.4	26.5/29.4	25.6/28.4	27.6/30.0 27.4/29.7 26.8/29.1
Thermal (H _s /H _i)		%		68.9/76.4	68.1/75.5	68.4/75.9	67.7/73.5 67.2/73.0 67.0/72.8
Overall efficiency (H _s /H _i)		%		95.3/105.7	94.6/104.9	93.9/104.2	95.3/103.5 94.6/102.7 93.8/101.9
Primary Energy Factor f PE,WV ⁽⁶⁾		0.417			0.416		
Power Coefficient				0.39	0.39	0.37	0.41 0.41 0.40
Sound Pressure Level ⁽⁷⁾		dB(A)		48			47
Flexible Service interval		oh		7000-11000 (8)			
Engine Stroke		N°		4			
Engine Cylinders		N°		1			
Generator Type		Type		Asynchronous			
Grid Connection		Type		G98/1			
Grid System		Type		TN-S			
Circuit Breaker		Type		C			
Dimensions WxDxH		mm		720 x 1070 x 1270			
Weight		kg		580			
Space Requirements min (W X D)		mm		1920 x 2020			
Exhaust Connection Size		DN		80			
Mass Flue Gas Volume (wet)		Kg/h		40			
Flue gas volume (wet)		m ³ /h		33			
Flue gas volume (dry)		m ³ /h		27			
Flow Connection Size		Inch		1"			
Return Connection Size		Inch		1"			
Gas Connection Size		Inch		½"			
Condensate Connection Size		Inch		½"			
System working pressure (min)		Bar		1			
System working pressure (max)		bar		2.8			
CHP Safety Valve Fitted		bar		3			
Gas Pressure (min)		mbar		15		37	
Gas Pressure (max)		mbar		24		54	

1) The Dachs complies with the high efficiency criteria according to German CHP law; Values measured with standard gas G20 and/or G31 under standard conditions.
 2) Minimum methane number: 35; including setting and nozzle adjustment on site. 3) According to ISO 30461, measured at the frequency converter outlet, tolerance ± 3 %; values may differ depending on altitude, ambient and operating conditions. 4) Values from type/component test report for a return temperature of 30 °C with integrated condensing heat exchanger; maximum supply flow temperature 83 °C, maximum return flow temperature 70 °C. 5) Values for a return temperature of 30 °C referred to Hi, tolerance ± 5 %.
 6) Calculation with the following power level percentages of the annual system uptimes: I = 30 %, II = 15 %, III = 55 %. 7) Sound power level at a distance of 1 m according to DIN EN ISO 3744, ambient conditions according to DIN EN 15036-1. 8) Depending on the operating hours on the respective power level; but not later than 2 years.