



TECHNICAL DATA FOR THE XRGI® 9

Product data sheet in accordance with Regulation (EU) No. 811/2013; 813/2013, Dated 26.09.2019









The XRGI* is a combined heat and power plant (CHP) that works on the principle of cogeneration.

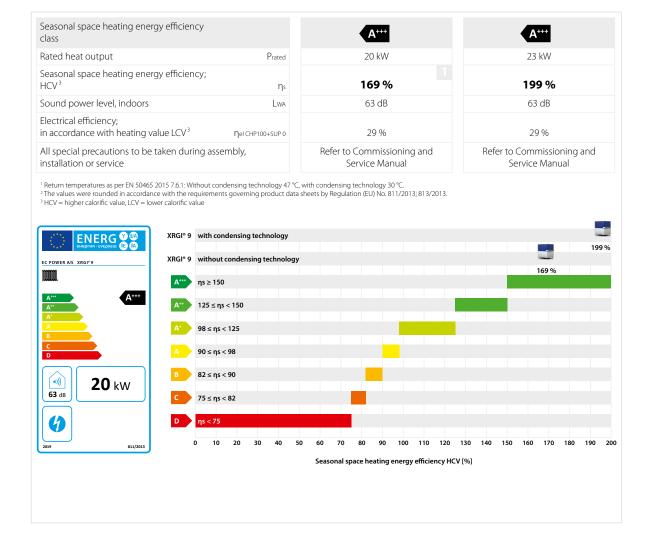
An XRGI* system consists of three main components – the Power Unit, Q-Heat Distributor and the iQ-Control Panel.

In addition, you can also extend your XRGI* system with a storage tank with a capacity of 500, 800 or 1,000 litres for optimum operation.

ORDERING DATA

Supplier's name or trademark	EC P	OWER
Supplier's model identifier	XRGI [*] 9 without condensing technology ¹	XRGI* 9 with condensing technology ¹
Article number	X090001	X090001+K000104
Modules	Power Unit, iQ10-Control Panel, Q20-Heat Distributor	Power Unit, iQ10-Control Panel, Q20-Heat Distributor + Condensing and exhaust gas heat exchanger BW4+

ErP-LABEL DATA²



OUTPUT

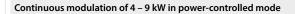
XRGI® system			RGI° 9 witho nsing techn			XRGI° 9 with nsing techn	=
Power modulation*		50 %	75 %	100 %	50 %	75 %	100 %
Electrical output, modulating*	kW	4.5	6.8	9.0	4.5	6.8	9.0
Thermal output, modulating*	kW	12.4	15.7	20.1	14.2	18.4	23.3
Power consumption, gas in accordance with LCV ²	kW	17.7	23.7	30.7	17.7	23.7	30.5
Electrical own demand, production	kW	0.100		0.100			
Electrical own demand, stand-by	kW		0.039			0.039	

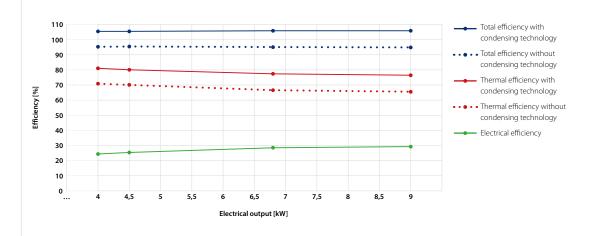
EFFICIENCIES & OPERATING PARAMETERS

Power modulation*			50 %	75 %
Electrical efficiency	in accordance with LCV ²	%	25.4	28.5
Thermal efficiency	in accordance with LCV ²	%	70.1	66.5
Total efficiency	in accordance with LCV ²	%	95.5	95.1
Seasonal space heating er in operating mode ^{3,4}	nergy efficiency ¶son	%		174

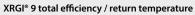
28.5 29.3 25.4 28.5 29.4 66.5 65.6 80.1 77.4 76.5 95.1 94.9 105.5 105.9 105.9	75 %	100 %	50 %	75 %	100 %
	28.5	29.3	25.4	28.5	29.4
95.1 94.9 105.5 105.9 105.9	66.5	65.6	80.1	77.4	76.5
	95.1	94.9	105.5	105.9	105.9
174 204	174			204	

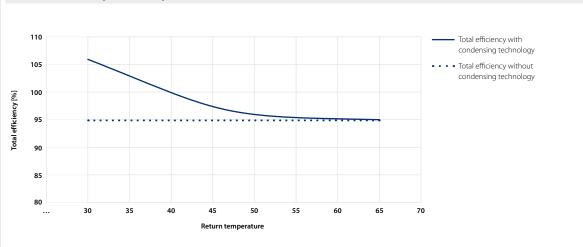
POWER MODULATION





TOTAL EFFICIENCY AT FULL LOAD





 $[\]hbox{* Continuous modulation in power-controlled mode}\\$

 $^{^{1}}$ Return temperatures as per EN 50465 2015 7.6.1: Without condensing technology 47 °C, with condensing technology 30 °C.

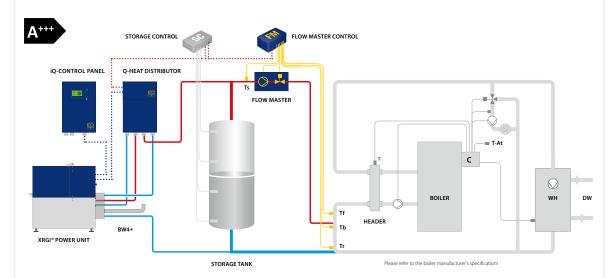
 $^{^{2}}$ LCV = lower calorific value

³This values are based on independent, certified and authorised inspection bodies. Test reports are available upon request.

 $^{^4}$ Efficiency at rated heat output as per the delegated Commission Regulation (EU) No. 811/2013; 813/2013

HYDRAULIC INTEGRATION

Principle circuit diagram: Series circuit with injection – boiler with header



More principle circuit diagrams and information can be found in the EC POWER, Hydraulic Solutions".

NOTE:

If products from other companies are used in the system in addition to EC Power products, EC POWER assumes no liability for the accuracy of the energy efficiency class calculation for the entire system.

XRGI® system		XRGI* 9 without condensing technology ¹	XRGI* 9 with condensing technology ¹
Flow temperature, constant	°C	~ 80	~ 80
Return temperature, variable	°C	5-70	5-70

FUELS

Natural gas (all qualities), propane, butane

yes	yes

EXHAUST GAS

Power modulation*			50 %	75 %	100 %	50 %	75 %	100 %
Max. exhaust gas temp	erature	°C	-	-	100	-	-	90
Condensate		kg/h	-	-	-	2.3	3.1	3.8
Emissions (Test data	CO < 70	mg/Nm³		33			31	
at max. output)	NOx, pond, HCV ^{2,3} < 240	mg/kWh		25			25	

SOUND

Sound pressure level at a distance of up to 1 m	dB(A)	49
(based on surroundings)		

POWER CONNECTION

Voltage, 3 phases + N + Earth	V	400
Frequency	Hz	50

SERVICE

Service interval (operating hours) Hours 10,000

DIMENSIONS AND WEIGHT

		XRGI° 9 Power Unit	Q20-Heat Distributor	iQ10-Control Panel
Dimensions, $W \times H \times D$	mm	640 x 960 x 930	400 x 600 x 195	400 x 600 x 210
Footprint	m²	0.59	wall mounted	wall mounted
Weight	kg	440	25	30

^{*} Continuous modulation in power-controlled mode

 $^{^{1}}$ Return temperatures as per EN 50465 2015 7.6.1: Without condensing technology 47 °C, with condensing technology 30 °C.

² as per the delegated Commission Regulation (EU) No. 811/2013; 813/2013

 $^{^3}$ HCV = higher calorific value

Deviations in values depend on the ambient and operating conditions, tolerance +/- $5\,\%$. Subject to technical modifications, deviations from design and errors.

TECHNICAL DATA FOR THE XRGI® 9 WITH FLOW MASTER

(Temperature control, Class II = 2 %)

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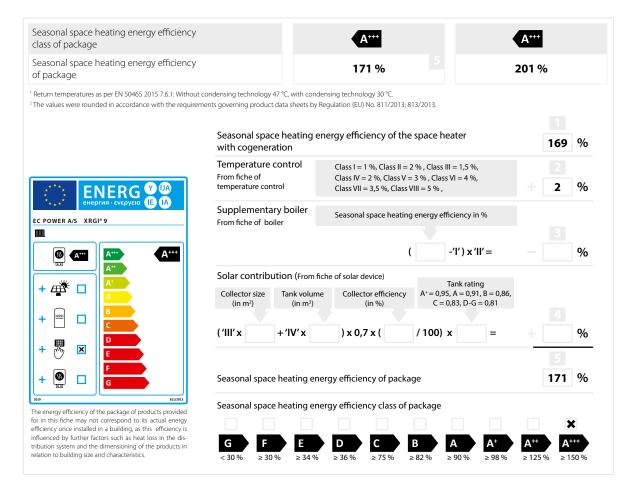
The Flow Master including Flow Master Control regulates the supply of heat from the XRGI* and from the storage tank to the consumer network. This technology enables a significantly higher heat output to be temporarily made available to the consumer side. This allows peaks of heat demand to be handled by the XRGI*, thereby extending its service life and increasing electricity production.

The 4 models can deliver a heat output of 50, 150, 250 or 350 at a ΔT of 20 K.

ORDERING DATA

Supplier's name or trademark		EC PC	OWER		
Supplier's model identifier	XRGI° 9 s condensing t		XRGI* 9 with condensing technology ¹		
Article number	X090	001	X090001+K000104		
Modules	Power Unit, iQ10-Control Panel, Q20-Heat Distributor		Power Unit, iQ10-Control Panel Q20-Heat Distributor + Condensing and exhaust gas heat exchanger BW4+		
Supplier's model identifier	Flo	w Master includin	g Flow Master Con	trol	
FM-type (Temperature control, Class II = 2 %)	FM 50	FM 150	FM 250	FM 350	
Article number	17D1130	17D1131	17D1132	17D1133	

ErP-LABEL DATA²







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