



TECHNICAL DATA FOR THE XRGI® 15 LowNOx

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.

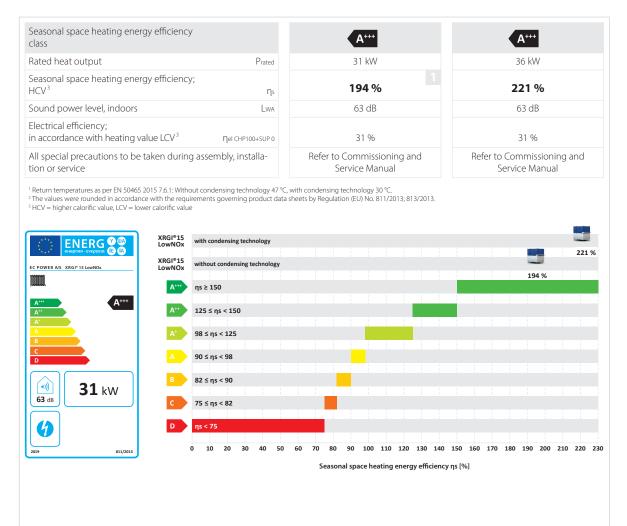
An XRGI* system consists of three main components – the Power Unit, Q-Heat Distributor and the iQ-Control Panel.

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 POWER		
Supplier's model identifier	XRGI* 15 LowNOx without condensing technology ¹	XRGI [*] 15 LowNOx with condensing technology ¹	
Article number	X150003	X150003+K000105	
Modules	Power Unit, iQ20S-Control Panel, Q80-Heat Distributor	Power Unit, iQ20S-Control Panel, Q80-Heat Distributor + Condensing and exhaust gas heat exchanger BW 8+	

ErP-LABEL DATA²



OUTPUT

XRGI® system		XRGI [*] 15 LowNOx without condensing technology ¹		XRGI [®] 15 LowNOx with condensing technology ¹	
Power modulation*		67 %	100 %	67 %	100 %
Electrical output, modulating*	kW	10.0	15.0	10.0	15.0
Thermal output, modulating*	kW	26.1	31.4	29.3	35.9
Power consumption, gas in accordance with LCV ²	kW	37.1	48.1	37.1	48.1
Electrical own demand, production	kW	0.078	0.078	0.083	0.082
Electrical own demand, stand-by	kW	0.025		0.0)25

EFFICIENCIES & OPERATING PARAMETERS

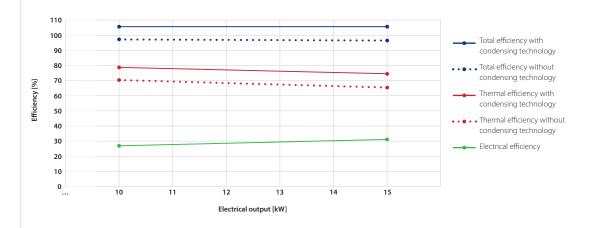
Power modulation*		
Electrical efficiency	in accordance with LCV ²	%
Thermal efficiency	in accordance with LCV ²	%
Total efficiency	in accordance with LCV ²	%
Seasonal space heating en in operating mode 3,4	ergy efficiency ηson	%

67 %	100 %		
26.9	31.1		
70.4	65.4		
97.3	96.5		
197			

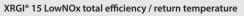
67 %	100 %
26.9	31.1
78.8	74.6
105.7	105.7
22	25

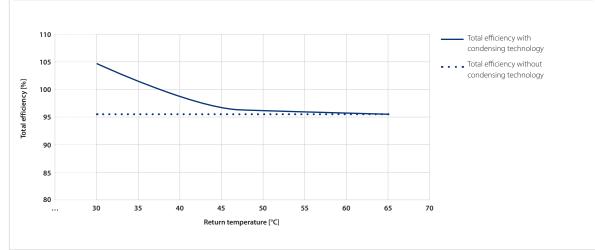
POWER MODULATION

Continuous modulation of 10 – 15 kW in power-controlled mode



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 $^{\circ}$ C, with condensing technology 30 $^{\circ}$ C.

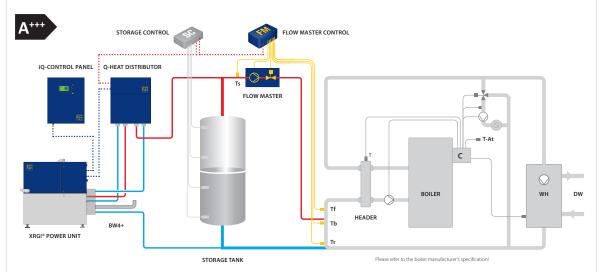
 $^{^{2}}$ LCV = lower calorific value

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* 15 LowNOx without condensing technology ¹
Flow temperature, constant	°C	~ 85
Return temperature, variable	°C	5-75

XRGI° 15 LowNOx with condensing technology ¹		
~ 85		
5-75		

FUELS

Natural gas (all qualities), propane, butane	yes	yes

EXHAUST GAS

Power modulation			67 %	100 %	67 %	100 %
Max. exhaust gas temp	erature	°C	-	120	-	90
Condensate		kg/h	-	-	4.0	4.7
Emissions (Test data	CO < 150	mg/Nm³	1	0	1	3
at max. output)	NOx, pond, HCV ^{2,3} < 240	mg/kWh	3	3	2	2

SOUND

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

POWER CONNECTION

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

SERVICE

Service interval (operating hours)	Hours	6,000

DIMENSIONS AND WEIGHT

		XRGI° 15 LowNOx Power Unit	Q80-Heat Distributor	iQ20S-Control Panel
Dimensions, W x H x D	mm	750 x 1,170 x 1,120	550 x 600 x 295	500 x 600 x 255
Footprint	m ²	0.84	wall mounted	wall mounted
Weight	kg	680	44	21

 $^{^{\}star}$ Continuous modulation in power-controlled mode

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

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

 $^{^{\}rm 2}$ as per the delegated Commission Regulation (EU) No. 811/2013; 813/2013

³ HCV = higher calorific value

TECHNICAL DATA FOR THE XRGI® 15 LowNOx + FLOW MASTER

(Temperature control, Class II = 2 %)

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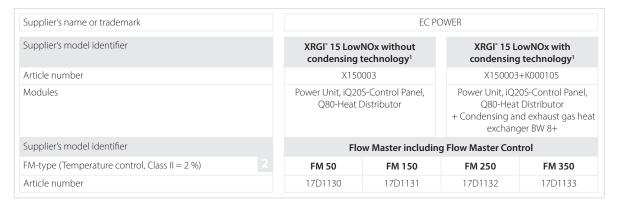




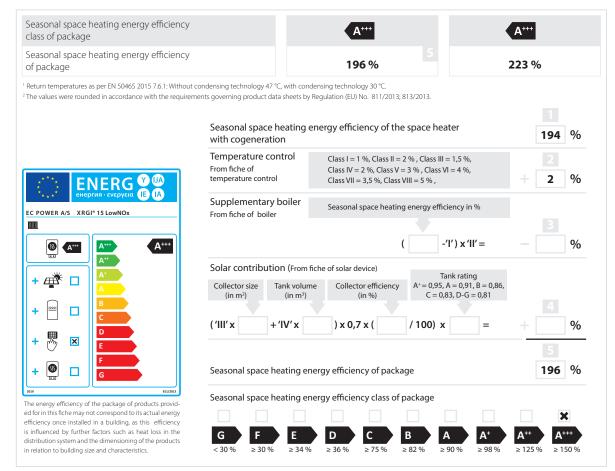
The Flow Master including Flow Master Control regulates the supply of heat from the XRGI* and from the storage tank to the consumer network. This technology enables a significantly higher heat output to be temporarily made available to the consumer side. This allows peaks of heat demand to be handled 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



ErP-LABEL DATA²







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