



TECHNICAL DATA FOR THE XRGI® 6 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 $^{\circ}$ system with a storage tank with a capacity of 500, 800 or 1,000 litres for optimum operation.

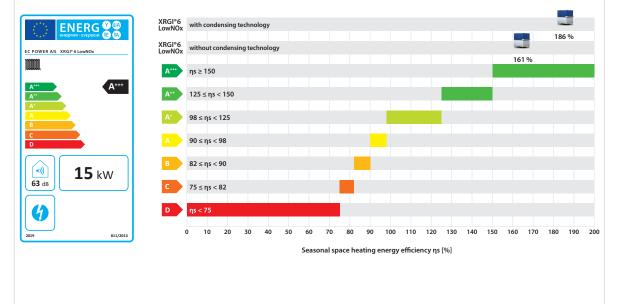
ORDERING
DATA

Supplier's name or trademark	EC POWER		
Supplier's model identifier	XRGI [®] 6 LowNOx without condensing technology ¹	XRGI [®] 6 LowNOx with condensing technology ¹	
Article number	X060003	X060003+K000104	
Modules	Power Unit, iQ20S-Control Panel, Q20-Heat Distributor	Power Unit, iQ20S-Control Panel, Q20-Heat Distributor + Condensing and exhaust gas heat exchanger BW4+	

ErP-LABEL DATA²

Seasonal space heating energy efficiency class		A***	A***
Rated heat output	Prated	15 kW	17 kW
Seasonal space heating energy efficiency; HCV^{3}	ηs	161 %	186 %
Sound power level, indoors	Lwa	63 dB	63 dB
Electrical efficiency; in accordance with heating value LCV ³	ηel CHP100+SUP 0	28 %	28 %
All special precautions to be taken during ass installation or service	embly,	Refer to Commissioning and Service Manual	Refer to Commissioning and Service Manual

¹ Return temperatures as per EN 50465 2015 7.6.1: Without condensing technology 47 °C, with condensing technology 30 °C.
² The values were rounded in accordance with the requirements governing product data sheets by Regulation (EU) No. 811/2013; 813/2013.
³ HCV = higher calorific value, LCV = lower calorific value

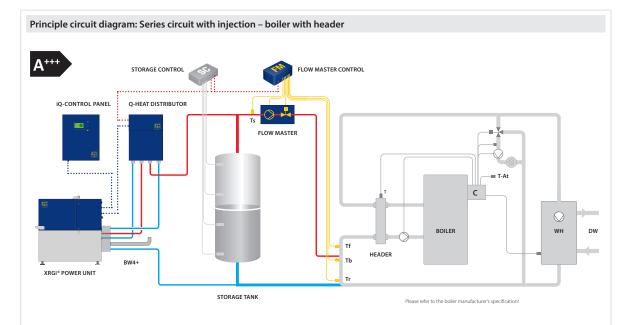


TPUT	XRGI® system				LowNOx withou sing technology		XRGI [®] 6 LowNOx with condensing technology ¹			
	Powe	er modulation	1 [*]			75 %	100 %		75 %	100 %
	Electr	rical output, r	nodulating*		kW	4.5	6.0		4.5	6.0
	Therr	mal output, m	nodulating*		kW	12.5	14.6		14.3	16.8
	Powe	er consumptio	n, gas in acco	rdance with LCV ²	kW	17.8	21.5		17.8	21.5
	Electr	rical own den	nand, produc	tion	kW	0.100	0.100		0.100	0.100
	Electr	rical own den	nand, stand-b	у	kW		0.039		0.0	39
Γ										
ICIENCIES	Powe	er modulation	1*			75 %	100 %		75 %	100 %
PERATING	Electr	rical efficiency	y in a	ccordance with LCV ²	%	25.3	27.9		25.3	27.9
	Therr	mal efficiency	in a	ccordance with LCV ²	%	70.0	67.8		80.3	78.2
	Total	efficiency	in a	ccordance with LCV ²	%	95.3	95.7		105.6	106.1
		onal space he erating mode		efficiency η _{son}	%		167		19	1
	Efficiency [%]	70 60 50 40			••••	••••••	••••		Thermal efficien condensing tecl Thermal efficien condensing tecl	hnology icy without hnology
		30 20 10		•					Electrical efficien	ncy
		0								
TAL	XRGI	° 6 LowNOx	4 total efficier	4,5 Electri ncy / return tempera	5 ical output [k iture	5,5 V]	6	6,5		
ICIENCY AT L LOAD										
		110							Total efficiency v	
		105							condensing tech	nnology
								••••	Total efficiency v condensing tech	
	[%] V	100	-						concerning teel	
	cienc)									
	Total efficiency [%]	95		•••••						
	Tota	90								
		85								
		80	30 35	40 45	E0.	55	60 65	70		
			30 35		50 n temperatur	55 e	60 65	70		

* 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

A This values are based on independent, certified and authorised inspection bodies. Test reports are available upon request.
 Efficiency at rated heat output as per the delegated Commission Regulation (EU) No. 811/2013; 813/2013

HYDRAULIC INTEGRATION



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 [®] 6 LowNOx without condensing technology ¹	XRGI [®] 6 LowNOx 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*			75 %	100 %	75 %	100 %
Max. exhaust gas temi		ax. exhaust gas temperature		-	100	-	90
	Condensate		kg/h	-	-	2.3	2.8
	Emissions (Test data	CO < 150	mg/Nm ³	62		64	
	at max. output)	NOx, pond, HCV ^{2,3} < 240	mg/kWh	2	28	2	9
SOUND	Sound pressure level a (based on surrounding	t a distance of up to 1 m s)	dB(A)		4	9	

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

Hours

SERVICE

DIMENSIONS AND WEIGHT

		Power Unit XRGI° 6 LowNOx	Q20-Heat Distributor	iQ20S-Control Panel
Dimensions, W x H x D	mm	640 x 960 x 930	400 x 600 x 195	500 x 600 x 255
Footprint	m ²	0.59	wall mounted	wall mounted
Weight	kg	440	25	21

10,000

* Continuous modulation in power-controlled mode

Service interval (operating hours)

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® 6 LowNOx + FLOW MASTER

(Temperature control, Class II = 2 %) Product data sheet in accordance with Regulation (EU) No. 811/2013; 813/2013, Dated 26.09.2019





Figure shows FM type 350

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 $\mathsf{XRGI}^\circ\!\!,$ 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 Δ T of 20 K.





Supplier's name or trademark		EC POWER			
Supplier's model identifier		XRGI [®] 6 LowNOx without condensing technology ¹		wNOx with g technology ¹	
Article number	X060	X060003		+K000104	
Modules	, -	Power Unit, iQ20S-Control Panel, Q20-Heat Distributor		Power Unit, iQ20S-Control Panel, Q20-Heat Distributor + Condensing and exhaust gas heat exchanger BW4+	
Supplier's model identifier	Flow Master including Flow Master Control				
FM-type (Temperature control, Class II = 2 %)	2 FM 50	FM 50 FM 150		FM 350	
Article number	17D1130	17D1131	17D1132	17D1133	

ErP-LABEL DATA²

ORDERING DATA

ss of package		A	A
asonal space heating energy efficiency package		163 %	188 %
urn temperatures as per EN 50465 2015 7.6.1: Withou e values were rounded in accordance with the require			
	Seasonal space heating e with cogeneration	energy efficiency of the space heater	1 161 %
	Temperature control From fiche of temperature control	$ Class I = 1 \ \%, Class II = 2 \ \%, Class III = 1,5 \ \%, \\ Class IV = 2 \ \%, Class V = 3 \ \%, Class VI = 4 \ \%, \\ Class VII = 3,5 \ \%, Class VII = 5 \ \%, $	2 + 2 %
eHepruя · ενεργεια Ε IA POWER A/S XRGI* 6 LowNOx	Supplementary boiler From fiche of boiler	Seasonal space heating energy efficiency in %	
		('l') x 'll'=	= %
- 🎼 🗖 🔺	Solar contribution (From fi	Tank rating	
	Collector size Tank volum (in m ²) (in m ³)	(in %) C = 0,83, D-G = 0	,81
- 閼 🖬 📮	('III'x +'IV'x) x 0,7 x (/ 100) x	= + %
	Seasonal space heating en	ergy efficiency of package	5 163 %
energy efficiency of the package of products provided n this fiche may not correspond to its actual energy	Seasonal space heating en	ergy efficiency class of package	
iency once installed in a building, as this efficiency is enced by further factors such as heat loss in the dis-			
ition system and the dimensioning of the products in	G F E	D C B A A	A ⁺ A ⁺⁺ A ⁺⁺⁺

Subject to technical modifications, deviations from design and errors.



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