



TECHNICAL DATA FOR THE XRGI® 6

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





A+++



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.

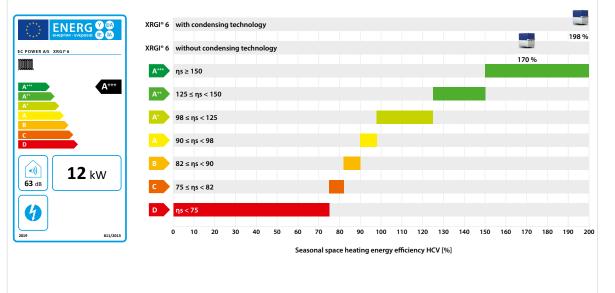
ORDERING
DATA

Supplier's name or trademark	EC POWER			
Supplier's model identifier	XRGI [®] 6 without condensing technology ¹	XRGI [°] 6 with condensing technology ¹		
Article number	X060001	X060001+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

Seasonal space heating energy efficiency class		A***	A***
Rated heat output	Prated	12 kW	14 kW
Seasonal space heating energy efficiency; $\rm HCV^3$	ηs	170 %	198 %
Sound power level, indoors	Lwa	63 dB	63 dB
Electrical efficiency; in accordance with heating value LCV ³	ηel CHP100+SUP 0	30 %	30 %
All special precautions to be taken during asse 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

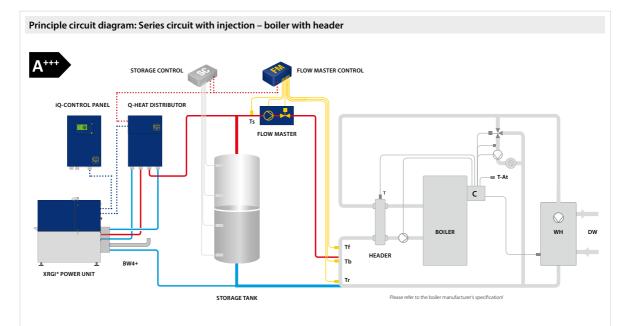


ουτρυτ		XRGI [®] system				XRGI [®] 6 without condensing technology ¹			XRGI [®] 6 with nsing techn			
	Pow	ver modulat	ion*				50 %	75 %	100 %	50 %	75 %	100 9
		trical outpu		rina*		kW	3.0	4.5	6.0	3.0	4.5	6.0
		ermal output		-		kW	8.1	10.1	12.4	9.3	11.7	14.4
					ce with LCV ²	kW	12.0	15.7	20.0	12.0	15.7	20.0
		ctrical own c				kW	0.035	0.035	0.035	0.035	0.035	0.035
		ctrical own c				kW	0.055	0.033	0.055	0.055	0.033	0.05.
	Liec					KVV		0.024			0.024	
FICIENCIES	Pow	ver modulat	ion*				50 %	75 %	100 %	50 %	75 %	100 9
OPERATING		trical efficie		in accor	dance with L	_CV ² %	24.8	28.5	30.1	24.8	28.5	30.1
RAMETERS		rmal efficier			dance with L		67.6	64.5	62.3	77.5	74.5	72.3
		al efficiency			dance with L		92.4	93.0	92.4	102.3	103.0	102.4
	Sea	sonal space	heating e		iency	ηson %	52.4	175	52.4	102.5	202	102.
	[%]	110 100 90 80 70								••••• Total ef conder —•— Therma	fficiency with nsing technology fficiency without nsing technology al efficiency with nsing technology	/
	Efficiency [%]	60 50									al efficiency with nsing technology	
	ú	40 30							-	Electric	al efficiency	
		20										
		0	2,5	3	3,5	4 4,	5 5	5,5	6			
						Electrical output [I	w]					
TAL FICIENCY AT LL LOAD	XRC	5I [®] 6 total e	fficiency /	return te	emperature							
		105								conder	ficiency with using technology	
		100	<u> </u>								ficiency without using technology	
	_	100										
	iency [%]											
	stal efficiency [%]	95	••••	•••			•••••	••••				
	Total efficiency [%]	95 90	••••	••••			•••••					
	Total efficiency [%]	95	••••						-			
	Total efficiency [%]	95 90	30	35	40	45 50	0 55	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

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

HYDRAULIC



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 without condensing technology ¹	XRGI [®] 6 with condensing technology ¹	
Flow temperature, constant	°C	~ 80	~ 80	
Return temperature, variable	°C	5-70	5-70	

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

EXHAUST GAS	Power modulation*	50 %	75 %	100 %	50 %	75 %	100 %		
	Max. exhaust gas temp	°C	-	-	100	-	-	90	
Emissions (Condensate	kg/h	-	-	-	1.4	1.8	2.1	
	Emissions (Test data	CO < 150	mg/Nm ³		12			13	
	at max. output)	NOx, pond, HCV ^{2,3} < 240	mg/kWh		230			217	

Sound pressure level at a distance of up to 1 m dB(A) 49 SOUND (based on surroundings) POWER Voltage, 3 phases + N + Earth V 400 CONNECTION Frequency 50 Ηz SERVICE Service interval (operating hours) 10,000 Hours

DIMENSIONS AND WEIGHT

FUELS

		XRGI° 6 Power Unit	Q20-Heat Distributor	iQ10-Control Panel
Dimensions, W x H x D	mm	640 x 960 x 930	400 x 600 x 195	400 x 600 x 210
Footprint	m ²	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

Subject to technical modifications, deviations from design and errors.

Deviations in values depend on the ambient and operating conditions, tolerance +/- 5 %.

TECHNICAL DATA FOR THE XRGI® 6 WITH FLOW MASTER (Temperature control, Class II = 2 %)

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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 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 Δ T of 20 K.





ORDERING DATA

Supplier's name or trademark	EC POWER				
Supplier's model identifier	XRGI° 6 v condensing t			6 with technology ¹	
Article number	X0600	001	X060001+K000104		
Modules	Power Unit, iQ10 Q20-Heat D	,	Power Unit, iQ10-Control Panel, Q20-Heat Distributor + Condensing and exhaust gas heat exchanger BW4+		
Supplier's model identifier	Flor	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

easonal space heating energy efficient	riency			
f package		172 %		200 %
	: Without condensing technology 47 °C, with cor			
he values were rounded in accordance with th	e requirements governing product data sheets by	/ Regulation (EU) No. 811/2013; 8	313/2013.	
	Seasonal space heating	energy efficiency of the	e space heater	
	with cogeneration			170 %
	Temperature control	Class I = 1 %, Class II =		
	From fiche of temperature control	Class IV = 2 %, Class V = Class VII = 3,5 %, Class V		2 %
•••••••••••••••••••••••••••••••••••••	Supplementary boiler	Seasonal space heating	g energy efficiency in %	
m				
		i	(-'l') x'll'=	%
	Solar contribution (From	fiche of solar device)		
+ 🏘 🗖 🕌	Collector size Tank volu		Tank rating A ⁺ = 0,95, A = 0,91, B = 0,8	36
	(in m ²) (in m ³)	(in %)	C = 0,83, D-G = 0,81	
+ 🗐 🗖 📩				
	('III' x + 'IV' x) x 0,7 x (/ 100) x =	+ %
+ 👸 🗵 📔				5
	Seasonal space heating e	nergy efficiency of packa	age	172 %
			-5-	
e energy efficiency of the package of products	Seasonal space heating e	nergy efficiency class of	package	
d for in this fiche may not correspond to its actual efficiency once installed in a building, as this effic	iency			×
influenced by further factors such as heat loss i stribution system and the dimensioning of the pro		D C	B A A ⁺	A** A***
relation to building size and characteristics.				

Subject to technical modifications, deviations from design and errors.



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