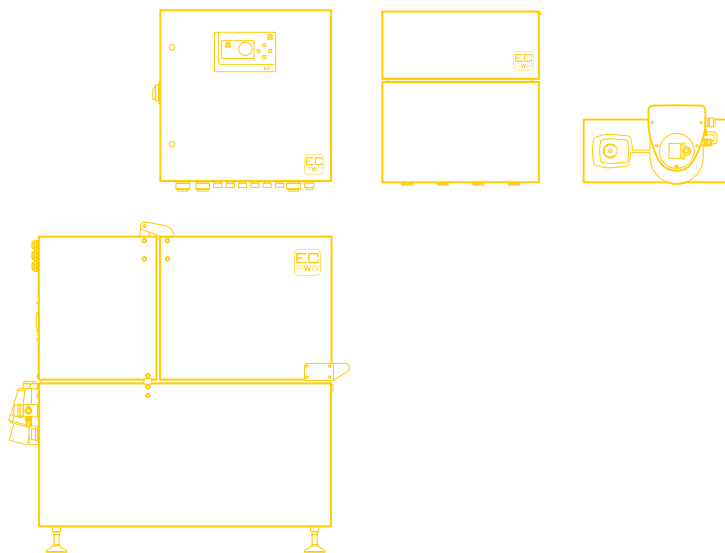
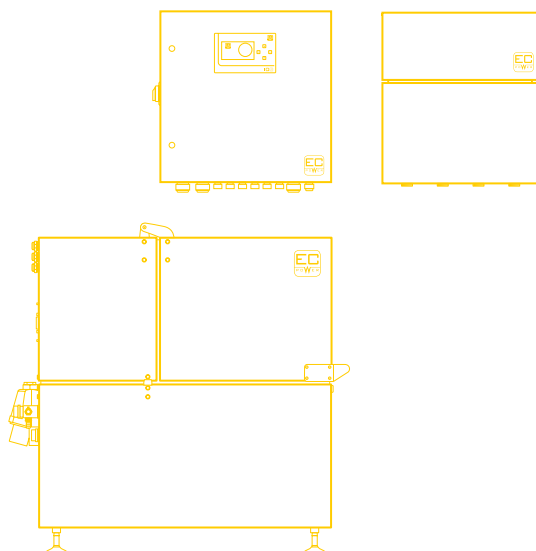


A+++



A+++



XRGI[®] 20

TECHNICAL DATA

TECHNICAL DATA FOR THE XRGi® 20

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® system with a storage tank with a capacity of 500, 800 or 1,000 litres for optimum operation.

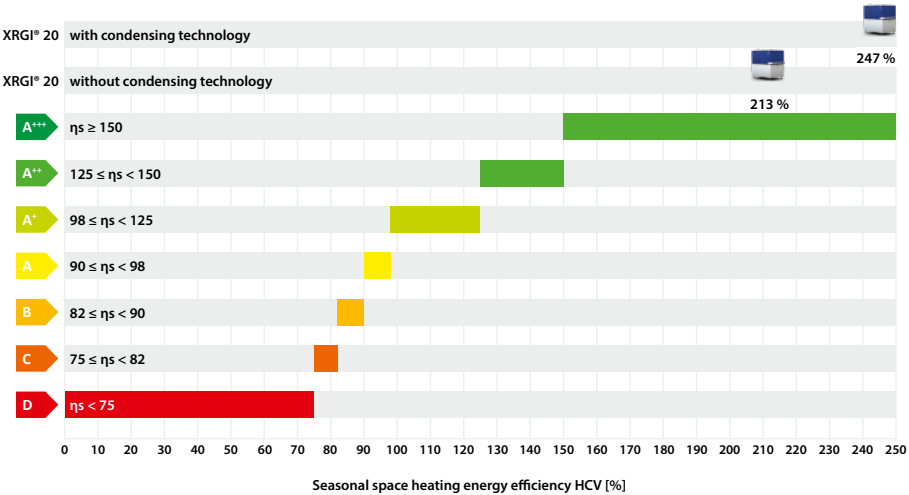
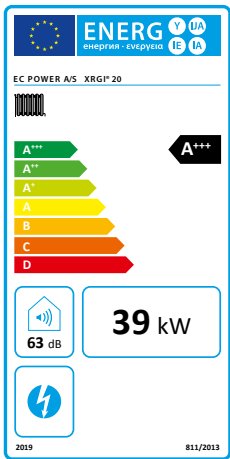
ORDERING DATA

Supplier's name or trademark	EC POWER	
Supplier's model identifier	XRGi® 20 without condensing technology¹	XRGi® 20 with condensing technology¹
Article number	X200001	X200001+K000105
Modules	Power Unit, iQ20-Control Panel, Q80-Heat Distributor	Power Unit, iQ20-Control Panel, Q80-Heat Distributor + Condensing and exhaust gas heat exchanger BW8+

ErP-LABEL DATA²

Seasonal space heating energy efficiency class	A+++	A+++
Rated heat output P_{rated}	39 kW	45 kW
Seasonal space heating energy efficiency; HCV ³ η_s	213 %	247 %
Sound power level, indoors L_{WA}	63 dB	63 dB
Electrical efficiency; in accordance with heating value LCV ³ η_{el} CHP100+SUP 0	33 %	33 %
All special precautions to be taken during assembly, installation or service	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



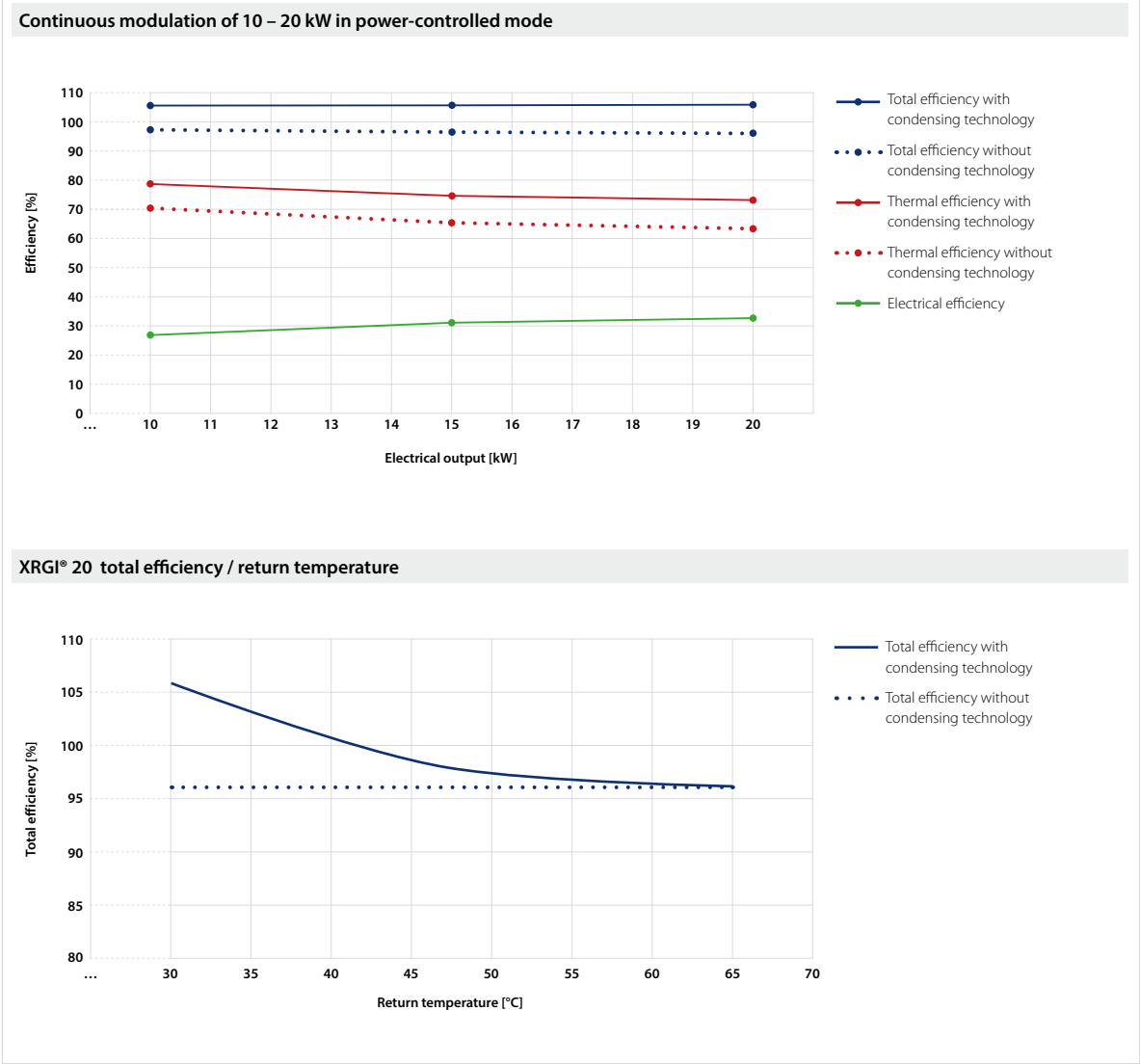
OUTPUT

XRGI® system		XRGI® 20 without condensing technology ¹			XRGI® 20 with condensing technology ¹		
Power modulation*		50 %	75 %	100 %	50 %	75 %	100 %
Electrical output, modulating*	kW	10.0	15.0	20.0	10.0	15.0	20.0
Thermal output, modulating*	kW	26.1	31.4	38.7	29.3	35.9	44.7
Power consumption, gas in accordance with LCV ²	kW	37.1	48.1	61.1	37.1	48.1	61.1
Electrical own demand, production	kW	0.078	0.078	0.078	0.083	0.082	0.081
Electrical own demand, stand-by	kW	0.025			0.025		

EFFICIENCIES & OPERATING PARAMETERS

Power modulation*		50 %	75 %	100 %	50 %	75 %	100 %
Electrical efficiency	in accordance with LCV ²	26.9	31.1	32.7	26.9	31.1	32.7
Thermal efficiency	in accordance with LCV ²	70.4	65.4	63.4	78.8	74.6	73.2
Total efficiency	in accordance with LCV ²	97.3	96.5	96.1	105.7	105.7	105.9
Seasonal space heating energy efficiency in operating mode ^{3,4}	η_{son}	217			251		

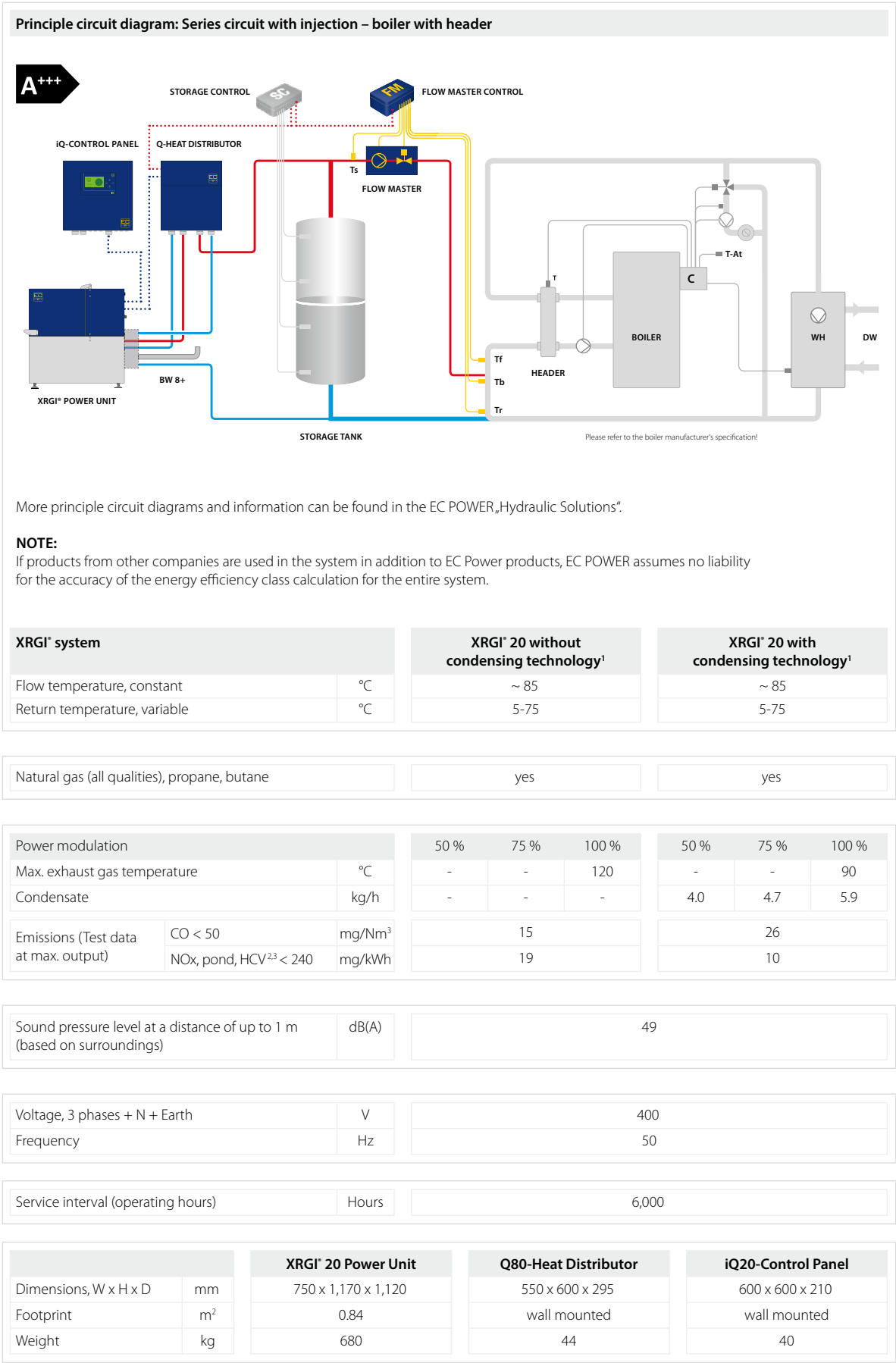
POWER MODULATION



TOTAL EFFICIENCY AT FULL LOAD

* 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
³ This 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



TECHNICAL DATA FOR THE XRGI® 20 WITH FLOW MASTER

(Temperature control, Class II = 2 %)

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



Q80 iQ20 FM

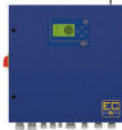


Figure shows FM type 350

A+++



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.

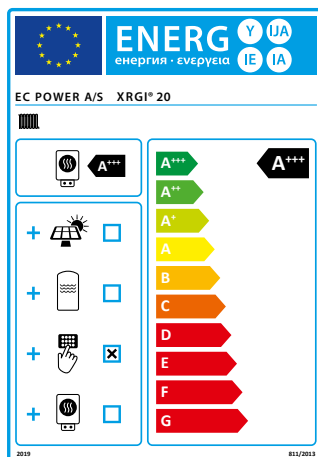
The 4 models can deliver a heat output of 50, 150, 250 or 350 at a ΔT of 20 K.

ORDERING DATA

Supplier's name or trademark	EC POWER			
Supplier's model identifier	XRGI® 20 without condensing technology¹		XRGI® 20 with condensing technology¹	
Article number	X200001		X200001+K000105	
Modules	Power Unit, iQ20-Control Panel, Q80-Heat Distributor		Power Unit, iQ20-Control Panel, Q80-Heat Distributor + Condensing and exhaust gas heat exchanger BW8+	
Supplier's model identifier	Flow Master including Flow Master Control			
FM-type (Temperature control, Class II = 2 %)	FM 50	FM 150	FM 250	FM 350
Article number	17D1130	17D1131	17D1132	17D1133

ErP-LABEL DATA²

Seasonal space heating energy efficiency class of package	A+++		A+++	
Seasonal space heating energy efficiency of package	215 %		249 %	
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.				
Seasonal space heating energy efficiency of the space heater with cogeneration			1	213 %
Temperature control			2	
From fiche of temperature control			2 %	
Supplementary boiler			Seasonal space heating energy efficiency in %	
From fiche of boiler			3	
			('I') x 'II' =	
Solar contribution (From fiche of solar device)			Tank rating	
Collector size (in m²)			A* = 0,95, A = 0,91, B = 0,86, C = 0,83, D-G = 0,81	
Tank volume (in m³)				
Collector efficiency (in %)				
('III' x + 'IV' x) x 0,7 x (/ 100) x =			4	
Seasonal space heating energy efficiency of package			5	215 %
Seasonal space heating energy efficiency class of package			G F E D C B A A+ A++ A+++	
			< 30 % ≥ 30 % ≥ 34 % ≥ 36 % ≥ 75 % ≥ 82 % ≥ 90 % ≥ 98 % ≥ 125 % ≥ 150 %	



The energy efficiency of the package of products provided for in this fiche may not correspond to its actual energy efficiency once installed in a building, as this efficiency is influenced by further factors such as heat loss in the distribution system and the dimensioning of the products in relation to building size and characteristics.



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XRGI[®] 20

TECHNICAL DATA