Clearly Hybrid system specification

(Recommended boilers)

Ultracom$_2$ cxi specifications - Combi

Ultracom$_2$	24cxi	30cxi	35cxi
Size			
Casing dimensions (h w d) (mm)	740 x 418 x 346	740 x 418 x 346	740 x 418 x 346
Weight (lift) (kg)	37.1	37.7	38.3
Performance			
CH output (kW) Min/Max	4.9/18.2	5.9/24.6	8.4/30
DHW output (kW)	25.5	30.6	35.7
DHW flow rate (l/min, 35°C rise)	10.4	12.5	14.6
DHW response[1]	5 seconds	5 seconds	5 seconds
SEDBUK rating	A	A	A
SEDBUK %	90.3	90.3	90.4
NOx class 5 (natural gas)	Yes	Yes	Yes
Adjustable to LPG	Yes	Yes	Yes
Construction			
Main heat exchanger type	Coiled tube	Coiled tube	Coiled tube
Heat exchanger material	Stainless steel isothermic	Stainless steel isothermic	Stainless steel isothermic
Burner type	Pre-mixed	Pre-mixed	Pre-mixed
Fully modulating	Yes	Yes	Yes
DHW plate heat exchanger	Yes	Yes	Yes
Integrated hydrobloc	Yes	Yes	Yes
Installation			
Suitable for sealed systems	Yes	Yes	Yes
Suitable for open-vent systems	No	No	No
Filling loop	Inbuilt	Inbuilt	Inbuilt
Flow restrictor	Yes 8l/min	Yes 10l/min	Yes 12l/min
Inbuilt system bypass	Yes	Yes	Yes
Inbuilt condensate trap/siphon	Yes	Yes	Yes
Inbuilt frost protection	2 stage	2 stage	2 stage
Zero compartment ventilation	Yes	Yes	Yes

Ultracom$_2$ cxi specifications - Combi (Continued)

Ultracom$_2$	24cxi	30cxi	35cxi
Clearances			
Top (mm)	150	150	150
Side (mm)	0	0	0
Bottom (mm)	200	200	200
Front (mm)[2]	600	600	600
User Interface			
User display	Digital/plain text	Digital/plain text	Digital/plain text
Diagnostics	Advanced/Intuitive	Advanced/intuitive	Advanced/intuitive
User adjustable CH temp control	Yes	Yes	Yes
User adjustable DHW temp control	Yes	Yes	Yes
'Eco' setting on DHW	Yes	Yes	Yes
Optional plug in digital timer kit	Yes	Yes	Yes
Optional plug in analogue timer kit	Yes	Yes	Yes
Pipes			
Optional pre-fixing jig [3]	Yes	Yes	Yes
Optional spacing frame	Yes	Yes	Yes
Water connections	2 x 22mm 2 x 15mm	2 x 22mm 2 x 15mm	2 x 22mm 2 x 15mm
Flues			
Max horizontal Ø60/100	10m	10m	10m
Max vertical Ø60/100	10m	10m	10m
Max horizontal Ø80/125	25m	25m	25m
Max Vertical Ø80/125	25m	25m	25m
Optional plume management kit Ø60/100	Yes	Yes	Yes

Notes:

1 1 metre from the tap

2 This can be reduced to 5mm for removable panel

3 Upward and downward piping

Clearly Hybrid system specification

(Recommended boilers) Cont.

Ultracom$_2$ sxi specifications - Sealed System

Ultracom$_2$	12sxi	18sxi	30sxi
Size			
Casing dimensions (h w d) (mm)	740 x 418 x 346	740 x 418 x 346	740 x 418 x 346
Weight (lift) (kg)	37.1	37.1	38.3
Performance			
CH output (kW) Min/Max	3.9/12	4.9/18.2	8.5/30
DHW output (kW)	N/A	N/A	N/A
DHW flow rate (l/min, 35°C rise)	N/A	N/A	N/A
DHW response	N/A	N/A	N/A
SEDBUK rating	A	A	A
SEDBUK %	90.4	90.4	90.5
NOx class 5 (natural gas)	Yes	Yes	Yes
Adjustable to LPG	No	Yes	Yes
Construction			
Main heat exchanger type	Coiled tube	Coiled tube	Coiled tube
Heat exchanger material	Stainless steel isothermic	Stainless steel isothermic	Stainless steel isothermic
Burner type	Pre-mixed	Pre-mixed	Pre-mixed
Fully modulating	Yes	Yes	Yes
DHW plate heat exchanger	N/A	N/A	N/A
Integrated hydrobloc	Yes	Yes	Yes
Installation			
Suitable for sealed systems	Yes	Yes	Yes
Suitable for open-vent systems	No	No	No
Filling loop	N/A	N/A	N/A
Flow restrictor	N/A	N/A	N/A
Inbuilt system bypass	Yes	Yes	Yes
Inbuilt condensate trap/siphon	Yes	Yes	Yes
Inbuilt frost protection	2 stage	2 stage	2 stage
Zero compartment ventilation	Yes	Yes	Yes
Clearances			
Top (mm) (from top of boiler)	150	150	150
Side (mm)	0	0	0
Bottom (mm)	200	200	200
Front (mm)[1]	600	600	600
User Interface			
User display	Digital/plain text	Digital/plain text	Digital/plain text
Diagnostics	Advanced/intuitive	Advanced/intuitive	Advanced/intuitive
User adjustable CH temp control	Yes	Yes	Yes
User adjustable DHW temp control	Yes[2]	Yes[2]	Yes[2]
'Eco' setting on DHW	N/A	N/A	N/A
Optional plug in digital timer kit	Yes	Yes	Yes
Optional plug in analogue timer kit	No	No	No
Pipes			
Optional pre-fixing jig[3]	Yes	Yes	Yes
Optional spacing frame	Yes	Yes	Yes
Water connections	2 x 22mm	2 x 22mm	3 x 22mm
Flues			
Max horizontal Ø60/100	10m	10m	10m
Max vertical Ø60/100	10m	10m	10m
Max horizontal Ø80/125	20m	25m	25m
Max Vertical Ø80/125	20m	25m	25m
Optional plume management kit Ø60/100	Yes	Yes	Yes

Notes:

1. This can be reduced to 5mm for removable panel
2. Activated with addition of Options Board or Smart Wiring Centre and Glow-worm intelligent controls

Clearly Hybrid system specification

(Heat Pump)

Envirosorb 5 specifications

Description	Unit	Envirosorb 5
Min. operational range (in heating)	°C	-7
Max. operational range (in heating)	°C	35
Dimensions		
Height	mm	935
Width	mm	880
Depth	mm	345
Ø Water circuit connections	"	1
Nett total weight	kg	82.5
Sound power level : overall exterior noise (according to EN 12102 and EN ISO 9614-1)	dBA	62.6
Specifications, with floor heating		
(flow: 35°C, return: 30°C, outside dry temperature (wet): 7 (6)°C)		
Heating output	kW	4.70
Power input	kW	1.26
Rated electrical current	A	5.48
COP* A7(6) W35-30		3.73
Specifications, with radiators		
(flow: 45°C, return: 40°C, outside dry temperature (wet) 7 (6)°C)		
Heating output	kW	4.41
Power input	kW	1.46
Rated electrical current	A	6.34
COP* A7(6) W45-40		3.02
Refrigerant circuit		
Type of refrigerant		R-410A
Quantity of refrigerant	kg	1.8
Type of compressor		Rotary
Type of oil		Polyolester
Type of regulator		Electronic
Fan speed	rpm	180-660
Maximum operating pressure (PS) in low pressure	bar	34
	Pa	34×10^5
Maximum operating pressure (PS) in high pressure	bar	43.2
	Pa	43.2×10^5

Description	Unit	Envirosorb 5
Heat pump circuit		
Min. supply pressure	bar	1
	Pa	1×10^5
Max. supply pressure	bar	3
	Pa	3×10^5
Minimum static pressure	bar	1
	Pa	1×10^5
Nominal water flow rate in heating mode	l/h	800
Minimum water flow rate	l/h	500
Minimum recommended water flow	l/h	750
Maximum recommended water flow	l/h	850
Minimum outlet temperature setting (in heating)	°C	25
Maximum outlet temperature setting (in heating)	°C	55
Heat pump water volume	l	1
Electrical		
Supply voltage/frequency	V/Hz	1/N/PE 230V 50Hz
Fuse (x2)		T2A / 250V
Maximum absorbed power (P max)	kW	1.45
Real power absorbed by the fan and pump (with heating resistors)	kW	1.48
Real power absorbed by the fan and pump (without heating resistors)	kW	1.35
Maximum absorbed current (I max)	A	6.70
Real current absorbed by the fan and pump (with heating resistors)	A	6.43
Real current absorbed by the fan and pump (without heating resistors)	A	5.88
Starting current (with start-up current limiter)	A	<20
Index of electrical protection		IPX4
Electrical classification		I
Surge category		II
Pollution rating		2

Notes:

* Coefficient of Performance (according to EN 14511)

** Energy Efficiency Ratio (according to EN 14511)

The Glow-worm Service Centre lines are open: Monday to Friday 8:00am to 6:00pm,
Saturday 9:00am to 4:00pm and Sunday 9:00am to 12 noon.
Technical Support lines are open: Monday to Friday 8:30am to 5:30pm and Saturday 9:00am to 12 noon.

The information in this brochure was correct at the time of going to print.
Glow-worm reserve the right to make any modifications to product specifications, or any other details, without prior notification. For further clarification, please enquire in writing to the head office address on the reverse of this brochure.