

FORMENTERA KC

WALL-HUNG CONDENSING COMBI BOILER
WITH INSTANTANEOUS PRODUCTION OF HOT WATER

EN



➤ Modulation range 1:9

➤ Touch screen user interface

➤ Controls to manage three different types of solar thermal systems fitted as standard

➤ Room temperature can be set from the boiler if an external probe is installed

➤ 26-plate DHW heat exchanger

Available heat outputs:

12
kW

24
kW

28
kW

32
kW

Pre-set to run on natural gas or propane

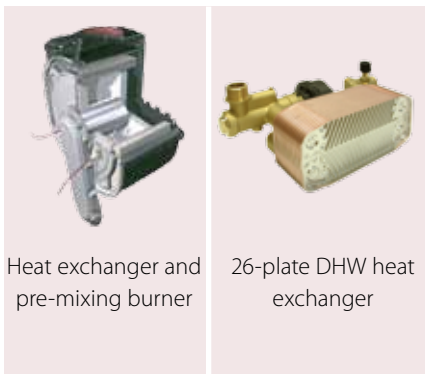
FORMENTERA KC



- Thermopolymer-covered stainless steel heat exchanger
- Fully pre-mixed burner
- Modulating gas valve with constant air-to-gas ratio
- Variable-speed combustion fan
- 3-speed pump with integrated air purging device
- 10-litre expansion vessel
- Plate stainless steel DHW heat exchanger
- Installation flexibility thanks to IPX5D electrical protection degree
- Multifunctional relay for connection to systems with zone valves or to solar systems or to remote boiler shutdown alarms
- Boiler hydraulic replacement kit available as optional equipment
- Energy efficiency marking (92/42 CEE): ★★★★★
- NOx emission class (EN 297): 5

Ready for connection to:

- external probe
- remote control
- PCBs for low-temperature zones



Heat exchanger and pre-mixing burner

26-plate DHW heat exchanger

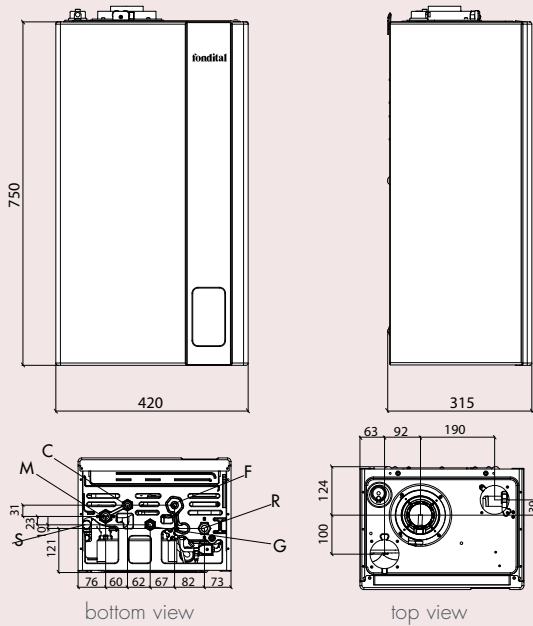
Model	Type of gas	Code	Heat output kW	Efficiency at nominal heat output	Gross weight (kg)
FORMENTERA KC 12	METHANE	CFOxx2CR12	12.6	105.1 %	36.50
	PROPANE	CFOxx6CR12			
FORMENTERA KC 24	METHANE	CFOxx2CR24	24.9	105.1 %	38.50
	PROPANE	CFOxx6CR24			
FORMENTERA KC 28	METHANE	CFOxx2CR28	27.9	105.5 %	39.50
	PROPANE	CFOxx6CR28			
FORMENTERA KC 32	METHANE	CFOxx2CR32	32.3	106.2 %	40.50
	PROPANE	CFOxx6CR32			

INCLUDED IN THE PRICE: standard hydraulic kit, paper template, air-intake blanking taps kit

WALL-HUNG CONDENSING COMBI BOILER WITH INSTANTANEOUS PRODUCTION OF HOT WATER



DIMENSIONS AND CONNECTION CENTRE DISTANCES



G Gas inlet (1/2")
M CH flow (3/4")
C DHW outlet (1/2")
F Cold water inlet (1/2")
R CH return (3/4")
S Condensate drain

ACCESSORIES

Article	Description	Code
	Ø 100/60 mm, 0.75 metre coaxial kit	0CONDASP00
	Ø 100/60 mm coaxial kit	0KITATCO00
	90° elbow and flange kit Ø 60/100	0KCURFLA00
	Split pipe kit Ø 80+80	0KITSDOP00
	Remote control	0CREMOTO04
	External probe	0SONDAES01
	Electric zone kit with external probe	0KITZONE05
	Fixing template (metal)	0DIMMECO11
	Pipes and taps cover	0COPETUB03

Article	Description	Code
	Cock fitted with filter and check valve	0KITFILT01
	Solar connection kit (for combination boilers)	0KITSOLC07
	Connection kit for complex solar systems	0KITSOLC08
	Baxi/Formentera replacement kit	0KITSOST08
	Beretta/Formentera replacement kit	0KITSOST09
	Immergas/Formentera replacement kit	0KITSOST10
	Vaillant/Formentera replacement kit	0KITSOST11
	Ariston/Formentera replacement kit	0KITSOST12
	Tahiti/Formentera replacement kit	0KITSOST13
	Protection kit for outdoor installation, with anti-freeze kit, for condensing boilers	0KITCOPE01
	Protection kit for outdoor installation, for condensing boilers	0KITCOPE02
	Coaxial air intake/flue gas outlet for B23 installation type	0ATTCOVE06
	Sludge remover	0KITDEFA00
	Ø 80 flue gas discharge chimney (height 1380 mm)	0CAMISCA00

TECHNICAL SPECIFICATIONS		KC 12	KC 24	KC 28	KC 32
Nominal heat input	kW	12.0	23.7	26.4	30.4
Nominal heat output (80-60°C)	kW	11.6	22.9	25.4	29.4
Nominal heat output (50-30°C)	kW	12.6	24.9	27.9	32.3
Minimum heat output (80-60°C)	kW	1.8	2.7	3.0	3.9
Minimum heat output (50-30°C)	kW	2.1	3.22	3.58	4.4
Useful efficiency at nominal heat input (80-60°C)	%	97.1	96.7	96.4	96.8
Useful efficiency at minimum heat input (80-60°C)	%	90.3	91.4	92.3	92.9
Useful efficiency at nominal heat input (50-30°C)	%	105.1	105.1	105.5	106.2
Useful efficiency at minimum heat input (50-30°C)	%	105.0	104.9	104.5	104.8
Useful efficiency at 30%	%	106.0	106.5	107.0	108.3
Casing heat loss with burner on at nominal heat input	%	0.26	0.97	1.40	0.99
Casing heat loss with burner on at minimum heat input	%	7.78	6.49	5.70	5.06
Casing heat loss with burner off	%	0.55	0.28	0.25	0.22
Chimney heat loss with burner on at nominal heat input	%	2.64	2.62	2.40	2.61
Chimney heat loss with burner on at minimum heat input	%	1.92	2.09	2.00	2.04
Energy efficiency marking (92/42 CEE)		★★★★	★★★★	★★★★	★★★★
NOx emission class (EN 297/EN 483)		5	5	5	5
CH maximum working pressure	bar	3.0	3.0	3.0	3.0
Maximum CH working temperature	°C	83	83	83	83
CH temperature range	°C	20-78	20 - 78	20 - 78	20 - 78
Expansion vessel capacity	l	10	10	10	10
Consumption at nominal heat output (CH) (80-60°C)	Methane m³/h	1.27	2.51	2.79	3.22
Consumption at minimum heat output (CH) (80-60°C)	Methane m³/h	0.21	0.31	0.34	0.44
Consumption at nominal heat output (CH) (80-60°C)	Propane kg/h	0.93	1.84	2.05	2.36
Consumption at minimum heat output (CH) (80-60°C)	Propane kg/h	0.15	0.23	0.25	0.33
DHW nominal heat output (ΔT 30°C)	kW	18.6	27.4	29.2	33.4
DHW minimum heat output (ΔT 30°C)	kW	2.0	3.0	3.0	3.9
DHW nominal heat input	kW	18.0	27.3	30.4	34.5
DHW min. flow	kW	2.0	3.0	3.3	4.2
Useful DHW efficiency at nominal heat input (ΔT 30°C)	%	103.3	100.4	96.05	96.8
DHW maximum pressure	bar	6.0	6.0	6.0	6.0
DHW minimum pressure	bar	0.5	0.5	0.5	0.5
DHW nominal heat output (ΔT 30°C)	l/min	8.8	13.4	15.5	16.2
DHW maximum working temperature	°C	62	62	62	62
DHW temperature range	°C	35-57	35 - 57	35 - 57	35 - 57
Consumption at nominal heat output (DHW)	Methane m³/h	1.90	2.89	3.22	3.65
Consumption at minimum heat output (DHW)	Methane m³/h	0.21	0.31	0.34	0.44
Consumption at nominal heat output (DHW)	Propane kg/h	1.40	2.12	2.36	2.67
Consumption at minimum heat output (DHW)	Propane kg/h	0.15	0.23	0.25	0.33
Air-flue ΔT at nominal heat input (CH and DHW)	°C	57.9	61.0	60.0	60.0
Air-flue ΔT at minimum heat input	°C	34.5	33.0	45.0	40.5
Flue gas flow at nominal heat input (DHW)	g/s	8.25	12.43	13.93	15.81
Flue gas flow at min. heat input	g/s	0.89	1.33	1.47	1.87
CO ₂ content at nominal heat input	Methane %	9.0	9.0	9.0	9.0
CO ₂ content at nominal heat input	Propane %	10.0	10.0	10.0	10.0
Residual available head at nominal heat input	Pa	114	130	170	183
Residual available head at minimum heat input	Pa	1.4	1.56	2.0	3.5
Supply pressure	Methane mbar	20	20	20	20
Supply pressure	Propane mbar	37	37	37	37
Power supply voltage/frequency	V/Hz	230/50	230/50	230/50	230/50
Fuse on the power supply	A	3.15	3.15	3.15	3.15
Power absorption	W	121	121	121	121
Electric protection rating		IPX5D	IPX5D	IPX5D	IPX5D
Gas fitting		G 1/2	G 1/2	G 1/2	G 1/2
CH fittings		G 3/4	G 3/4	G 3/4	G 3/4
DHW fittings		G 1/2	G 1/2	G 1/2	G 1/2
LxHxD	mm	420x750x315			
Boiler net weight	kg	32.73	33.88	35.17	36.53
Boiler gross weight	kg	36.50	38.50	39.50	40.50