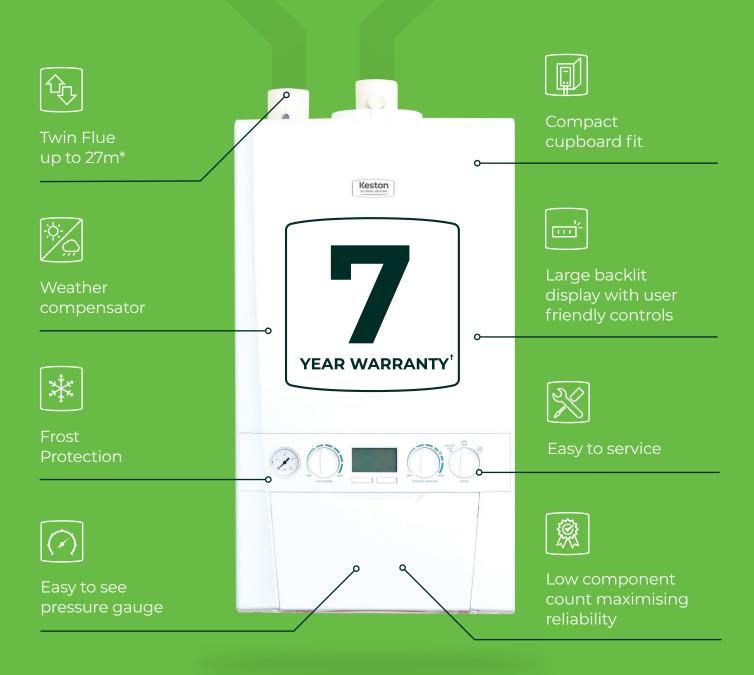


KESTON COMBI

30kW & 35kW Output Combi Boiler



Features & specification

Offering first-class comfort in a compact, wall-hung appliance small enough to fit inside a standard kitchen cupboard*, the Keston Combi range enables heating and hot water to be controlled independently, ensuring maximum comfort and efficiency.

Keston Combi can be sited almost anywhere in the home, without the need for a separate tank. And because it connects to the unique Keston Twin Flue system, the boiler can be situated anywhere up to 27** metres from the flue outlet, helping to provide further flexibility when required.

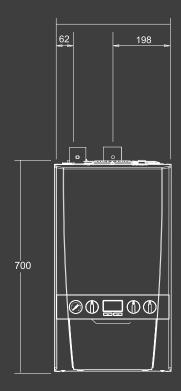
Fully modulating, and with weather compensation, Keston Combi provides excellent energy savings, making it the perfect choice for new or replacement installations alike.

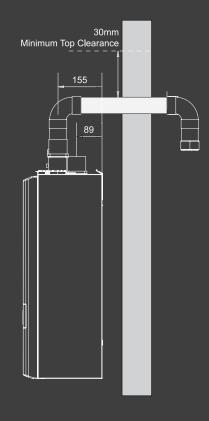
THE FACTS

- · 7 year warranty†
- · Easy to see pressure gauge
- Large backlit display with user friendly controls
- · Low lift weight
- Low component count maximising reliability
- · Compact dimensions
- · Twin flue up to 27m**

- 50mm muPVC (PVC-C) solvent weld flue allowing simple, cost effective installations***
- Weather compensator supplied as standard making Keston Combi Boiler Plus compliant out of the box
- · Pre-fitted filling loop
- · Inbuilt frost protection
- · Fully modulating
- · LPG conversion kit available

DIMENSION & CLEARANCES





keston.co.uk British built since 2013

^{† 7} year warranty when installed with a Keston 22mm System Filter and registered within 30 days of installation. 5 year parts & labour warranty as standard. Terms and conditions apply,* Please check cupboard size prior to installation.** For the maximum total equivalent flue length, please refer to the installation manual.*** The only systems approved for this application are: Marley muPVC (PVC-C) Solvent Weld Waste System (50mm), Polypipe System 2000 muPVC (PVC-C) Solvent Weld Waste System (50mm), Polypipe Terrain Solvent Weld System (50mm) and Wavin Osma PVC-C Solvent Weld System (50mm). Please use the recommended Solvent Weld Cement for each system.

SPECIFICATION DATA

Maximum Installation Weight

CENTRAL HEATING			C30	C35
CH Output @ 70°C	Max	kW	24.2	24.2
	Max	kW	25.6	25.6
CH Output @ 40°C	Min	kW	6.4	7.5
Clillanuit	Nett CV Max	kW	24.3	24.3
CH Input	Nett CV Min	kW	6.1	7.1
CH Input	Gross CV Max	kW	27.0	27.0
Спіприс	Gross CV Min	kW	6.7	7.9
CH Gas Consumption	Max	m^3/h	2.512	2.512
or cas consumption	Min	m³/h	0.623	0.734
HOT WATER			C30	C35
DHW Output	Max	kW	30.3	35.3
DHW Input	Nett CV Max	kW	30.4	35.4
DHW Input	Gross CV Max	kW	33.7	39.3
DHW Gas Consumption		m³/h	3.135	3.658
DHW Flow Rate at 35°C Rise		I/min	12.4	14.5
DHW Specific Rate		l/min	14.5	16.9
OTHERS			C30	C35
	SEDBU	< 0/	01.1	011
C	2005	%	91.1	91.1
Seasonal Efficiency	SEDBU	<	00.6	00.6
	2009	%	89.6	89.6
Seasonal Space Heating Efficiency Cla	ass		А	А
NOx Classification			Class 5	Class 5
GENERAL DATA			C30	C35
Max Horizontal Flue Length		m	27 Flue / 2 Air	25 Flue / 2 Air
Max Horizontal Flue Length (Parallel)		m	18 Flue / 18 Air	/
Flue Terminal Diameter			10 1 10 0 / 10 / 11	15 Flue / 15 Air
		mm	50	
Gas Supply		mm)
Gas Supply Connection		mm	50) 20mbar
		mm	50 2H - G20 -) 20mbar
Gas Supply Connection			50 2H - G20 - 15mm copper	20mbar compression 4.90
Gas Supply Connection Injector Size			50 2H - G20 - 15mm copper 4.65	20mbar compression 4.90 compression
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (CH) Inlet Connection (DHW)			2H - G20 - 15mm copper 4.65 22mm copper	20mbar compression 4.90 compression compression
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (CH) Inlet Connection (DHW) Outlet Connection (DHW)			2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper	20mbar compression 4.90 compression compression compression
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (CH) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate		mm	2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper	20mbar compression 4.90 compression compression compression
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (CH) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH)			2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8	20mbar compression 4.90 compression compression compression compression compression
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (CH) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW)	(DHW)	mm % %	2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3	20mbar compression 4.90 compression compression compression compression 73°C - 15g/s 8.9 9.5
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (CH) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System	(DHW)	mm % % ar (psi)	2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3	20mbar compression 4.90 compression compression compression compression 73°C - 15g/s 8.9 9.5
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (DHW) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System Max DHW Inlet Pressure	(DHW) ms) ba	mm % % ar (psi) (psi) (kPa)	2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3 2.5 (3	20mbar compression 4.90 compression compression compression compression 73°C - 15g/s 8.9 9.5 6.3)
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (CH) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System Max DHW Inlet Pressure Min DHW Inlet Pressure	(DHW) ms) ba	mm % % ar (psi)	2H - G2O - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3 2.5 (3 10.0 (145)	20mbar compression 4.90 compression compression compression compression 73°C - 15g/s 8.9 9.5 6.3) (1000)
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (CH) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System Max DHW Inlet Pressure Min DHW Inlet Pressure Electrical Supply	(DHW) ms) ba	mm % % ar (psi) (psi) (kPa)	2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3 2.5 (3 10.0 (145) 1.3 (18.9 230V -	20mbar compression 4.90 compression compression compression compression 73°C - 15g/s 8.9 9.5 6.3) (1000) (130)
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (DHW) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System Max DHW Inlet Pressure Min DHW Inlet Pressure Electrical Supply Power Consumption	(DHW) ms) ba	mm % % ar (psi) (psi) (kPa)	2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3 2.5 (3 10.0 (145) 1.3 (18.9 230V -	20mbar compression 4.90 compression compression compression compression 73°C - 15g/s 8.9 9.5 6.3) (1000) (130) 50Hz
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (DHW) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System Max DHW Inlet Pressure Min DHW Inlet Pressure Electrical Supply Power Consumption Fuse Rating	(DHW) ms) bar (mm % % ar (psi) (psi) (kPa) psi) (kPa)	2H - G2O - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3 2.5 (3 10.0 (145) 1.3 (18.9 230V - 101 External 3A / Internal	20mbar compression 4.90 compression compression compression compression 73°C - 15g/s 8.9 9.5 6.3) (1000) (130) 50Hz 114 al: T4A HRC L250V
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (DHW) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System Max DHW Inlet Pressure Min DHW Inlet Pressure Electrical Supply Power Consumption Fuse Rating Water Content (CH)	(DHW) ms) bar (mm % % ar (psi) (psi) (kPa) (psi) (kPa) W (gal)	2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3 2.5 (3 10.0 (145) 1.3 (18.9 230V - 101 External 3A / Interna	20mbar compression 4.90 compression compression compression 73°C - 15g/s 8.9 9.5 6.3) (1000) (130) 50Hz 114 al: T4A HRC L250V
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (DHW) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System Max DHW Inlet Pressure Min DHW Inlet Pressure Electrical Supply Power Consumption Fuse Rating Water Content (CH) Water Content (DHW)	(DHW) ms) bar (mm % % ar (psi) psi) (kPa) psi) (kPa) W (gal) (gal)	2H - G2O - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3 2.5 (3 10.0 (145) 1.3 (18.9 230V - 101 External 3A / Internal 1.2 (0 0.5 (6	20mbar compression 4.90 compression compression compression compression 73°C - 15g/s 8.9 9.5 6.3) (1000) (130) 50Hz 114 al: T4A HRC L250V .26) 0.11)
Gas Supply Connection Injector Size Flow Connection (CH) Return Connection (DHW) Inlet Connection (DHW) Outlet Connection (DHW) Average Flue Temp - Mass Flow Rate CO ₂ Content (±0.7) (Max CH) CO ₂ Content (±0.7) (Max DHW) Max Working Pressure (Sealed System Max DHW Inlet Pressure Min DHW Inlet Pressure Electrical Supply Power Consumption Fuse Rating Water Content (CH)	(DHW) ms) bar (mm % % ar (psi) (psi) (kPa) (psi) (kPa) W (gal)	2H - G20 - 15mm copper 4.65 22mm copper 22mm copper 15mm copper 15mm copper 68°C - 13g/s 8.8 9.3 2.5 (3 10.0 (145) 1.3 (18.9 230V - 101 External 3A / Interna	20mbar compression 4.90 compression compression compression 73°C - 15g/s 8.9 9.5 6.3) (1000) (130) 50Hz 114 al: T4A HRC L250V

kg

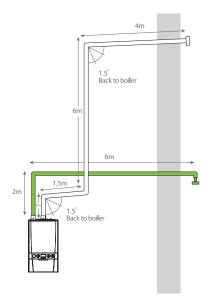
31.4

31.5

EXAMPLE FLUE INSTALLATION

Keston Combi C30 - Flue & Air Pipe Length 38 34 30 Air Pipe Length [m] 26 22 14 8 10 12 14 16 18 20 22 24 26 28 30 Flue Pipe Length [m] acceptable flue operating area

Graph indicates maximum flue run 27m with 2m air. Also, 18m flue with 18m air pipe for parallel twin flue run.

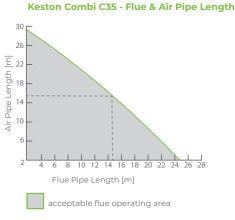


C53 HORIZONTAL

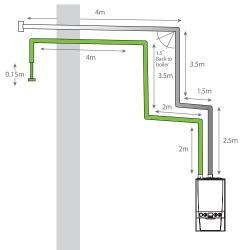
Calculations

Flue Elbows $3 \times 1m = 3m$ Straights 4+6+1.5+1 = 12.5m Total = 15.5m

Elbows $2 \times 1m = 2m$ Straights 6+2+0.1+1 = 8.1m Total = 10.1m



Graph indicates maximum flue run 25m with 2m air. Also, 15m flue with 15m air pipe for parallel twin flue run.



C13 HORIZONTAL

Calculations

Elbows $3 \times 1m = 3m$ Straights 4+3.5+1.5+2.5 = 11.5m Total = 14.5m

Air Elbows $4 \times 1m = 4m$ Straights 2+2+3.5+4+0.15 = 11.65m Total = 15.65m

DIMENSIONS

KESTON COMBI	
Height	700mm
Width	395mm
Depth	278mm

The following minimum clearances must be maintained for operation and servicing. Front of boiler - 450mm Sides of boiler - 2.5mm Above boiler - 350mm, with 30mm above the flue Below boiler - 100mm[†]

 $^{^{\}star}$ Or equivalent length. † Can be reduced to 5mm for cupboard fit, 450mm required for servicing.