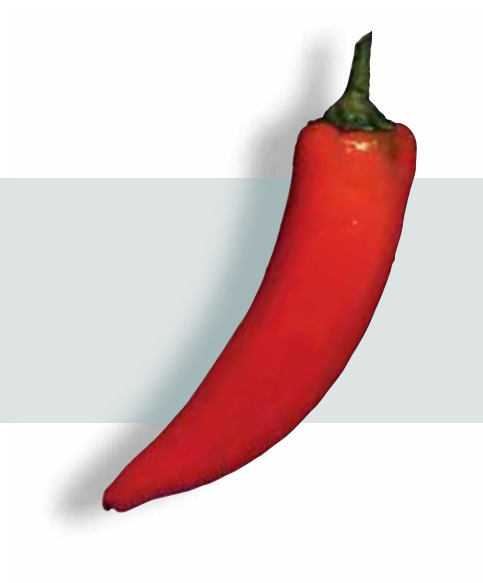


KESTON DOMESTIC

HIGH-EFFICIENCY DOMESTIC GAS BOILERS
ENGINEERED TO PERFORM

NATURAL HEATING

INTRODUCING THE QUDOS



KESTON C36 COMBI • KESTON QUDOS 28s • KESTON QUDOS 28h • KESTON C40 • KESTON DUET • KESTON qSPA



KESTON C40

THE POWERHOUSE CONDENSING BOILER 11 – 44kW

The domestic range of Keston wall-mounted gas condensing boilers covers outputs from 7kW to 44kW with single boiler units. The C40, as with all Keston boilers, has an extremely high efficiency performance of up to 98% (GCV). Despite powerful output the C40 is designed for wall-mounting.

The C40 also offers "dual stat" technology as standard. This enables the boiler to switch between two temperature settings, depending on the demand source. Ideal for underfloor and DHW applications.

For larger domestic applications the C40 delivers a massive 44kW output from a domestic size wall-hung unit with domestic size flueing to match.

For higher output applications Keston offers a complete range of commercial heating products including made-to-order multiple boiler rigs.



Keston's Flue Remedy system can be extended up to 15 metres



Power Points

- SEDBUK A-rated
- Small diameter plastic twin pipe flue system with lengths up to 45m
- Compact design: From 720H x 520W x 320D
- Up to 98% efficiency
- Automatic output modulation
- Suitable for sealed or open systems
- Integrated weather-compensation and dual stat control
- Simple and quick to install and maintain – front access
- Exceptionally high quality stainless steel single pass heat exchanger
- Integral frost protection – two stage
- Pump automatic exercise feature to prevent seizure during non-use
- Compatible with external control brands via 230V signal or 0-10V DC
- CE Marked, British Gas Service Listed and manufactured to ISO 9001
- Pre-fabricated modular systems available to match any heating output
- Purpose-designed boiler plant rigs for easy installation and reduced site time
- LPG option available



HOW IT WORKS

The Keston C40 uses a high-powered combustion blower to deliver a pre-mix of gas and air to a downward-firing burner in a high-efficiency single pass stainless steel heat exchanger, made from corrugated cross-flow tube sections. Hot combustion gases pass across the tubes providing heat to the water system.

A modulating shunt pump, integral to the appliance, will ensure the heat exchanger receives the correct water flow when firing and operates at optimum efficiency. Keston boilers are of low mass and low water content giving a rapid response when there is a call for heat.

The C40's streamlined design avoids the complications associated with other condensing boilers. The unit is totally room-sealed and requires no ventilation for combustion air to the room or compartment in which it is installed. The C40 boilers are exceptionally easy to install and maintain. They are entirely eco-friendly with negligible NOx emissions (Class 5 rated) and can save 30% on heating bills.

Physical data

		C36 & C36P Combi	Qudos 28h	Qudos 28s	C40 & C40P	qDuet 120/150/210
Cabinet Height	mm	840	680	700	720	1933/2120/1933
Cabinet Width	mm	450	390	435	520	600
Cabinet Depth	mm	300	280	280	320	625/625/875
Top Clearance	mm	150	150	150	150	100
Side Clearance	mm	5	5	5	25	25
Base Clearance	mm	100	200	200	150	N/A
Front Clearance (for servicing)	mm	300	300	300	305	400
Weight - Full	kg / (lbs)	50/(110)	39/(86)	47/(104)	70	250/281/344
Weight - Empty	kg / (lbs)	45/(99)	35/(77)	43/(95)	61	125/131/144
Flow and Return Connection		22mm Compression using optional pre-installation jig	G 3/4	G 3/4	Rp 1" F	22mm
DHW and CWS Connection		15mm Compression using optional pre-installation jig	N/A	N/A	N/A	22mm
Gas Connection		15mm Compression	G 1/2	G 1/2	22mm Compression	Rp 0.5" F
Condensate Connection		22mm plastic	22mm plastic	22mm plastic	22mm plastic	22mm plastic
Safety Valve Discharge Connection		15mm copper	15mm copper	15mm copper	N/A	22mm(D2)
IP Rating		IP20 (IPX0)	IP20 (IPX0)	IP20 (IPX0)	IP20 (IPX0)	IP20 (IPX0)
Flue and Air Intake Material: 50mm muPVC (BSEN1566-1 Pipe & BSEN1329 Fittings)						
Max. Flue Outlet Length	m	20	20	20	15	20
Max. Total Flue Outlet and Air Intake Length	m	40	40	40	30	40
Flue and Air Intake Material: 75mm Keston Composite						
Max. Flue Outlet Length	m	60	60	60	45	60
Max. Total Flue Outlet and Air Intake Length	m	120	120	120	90	120

Performance data

		C36 COMBI	C36P COMBI	QUDOS 28H	QUDOS 28HP	QUDOS 28S	QUDOS 28SP	C40	C40P
		Nat. Gas (G20) LPG (G31)						Nat. Gas (G20) LPG (G31)	
Max. CH Input (Gross CV)	kW/(Btu/h)	28.3/(96,600)	27.7/(94,500)	29.4/(100,300)	27.8/(94,850)	29.4/(100,300)	27.8/(94,850)	45.6/(155,600)	43.2/(147,400)
Max. DHW Input (Gross CV)	kW (Btu/h)	40.0/(136,500)	39.0/(133,000)	N/A		N/A		N/A	
Max. DHW Output to Water	kW/(Btu/h)	36.0/(122,800)	36.0/(122,800)	N/A		N/A		N/A	
Max. Output To Water (80/60°C Flow/Return)	kW/(Btu/h)	25.2/(86,000)	25.2/(86,000)	26.4/(90,500)	26.4/(90,500)	26.4/(90,500)	26.4/(90,500)	40.3/(137,600)	39.1/(133,300)
Max. Output To Water (50/30°C Flow/Return)	kW/(Btu/h)	28.0/(95,500)	27.7/(94,500)	28.4/(96,900)	28.4/(96,900)	28.4/(96,900)	28.4/(96,900)	44.9/(153,400)	43.2/(147,400)
Min. Output To Water (80/60°C Flow/Return)	kW/(Btu/h)	7.4/(25,250)	7.4/(25,250)	7.0/(24,900)	7.0/(24,900)	7.0/(24,900)	7.0/(24,900)	11.3/(38,500)	11.4/(38,800)
Max. Domestic Hot Water Flow Rate (at 35°C Rise)	litre/min	14.5		N/A		N/A		N/A	
Specific DHW Rate (EN625 30°C Rise)	litre/min	17		N/A		N/A		N/A	
Max. Domestic Hot Water Flow Temp.	°C	65		N/A		N/A		N/A	
Max. Gas Cons. After 10 mins	l/s / (Ft ³ /hr)	1.03/(131)	0.98/(61)	0.76/(96.6)	0.35/(45.0)	0.76/(96.6)	0.35/(45.0)	1.207/(153.4)	0.451/(57.4)
Max. Operating Flow Temp.	°C	82		82		82		82	
Max. Press. (Sealed System)	bar	2.7		2.5		2.5		2.7	
Inlet Gas Pressure	mbar/(in w.g)	20.0 / (8.0)	37.0/(14.8)	20.0/(8.0)	37.0/(14.8)	20.0/(8.0)	37.0/(14.8)	20.0 / (8.0)	37.0/(14.8)
Electrical Supply		230V 50Hz		230V 50Hz		230V 50Hz		230V 50Hz	
Power Consumption (Max)	W	180		84		150		260	
Power Consumption (Standby)	W	6		8.5		8.5		8	
Type of Gas		G20 Natural Gas	G31 LPG	G20 Nat Gas	G31 LPG	G20 Nat Gas	G31 LPG	G20 Natural Gas	G31 LPG
Optimum Flue Gas CO Level (at max CH rate, case on)	%	9.3	10.6	9.1	10.5	9.1	10.5	8.3	9.9
SEDBUK Efficiency ²		90.7	92.9	91.1 (A)	93.1 (A)	91.1 (A)	93.1 (A)	90.4	92.5
NOx Class		5		5		5		5	
Safety Valve	bar / (lbf/sq in)	3/(43.5)		N/A		3/(43.5)		N/A	
Expansion Vessel Capacity	litre	8		N/A		8		N/A	
Expansion Vessel Charge Pressure	bar / (lbf/sq in)	1.0/(14.5)		N/A		1.0 (14.5)		N/A	
DHW Max. Working Pressure	bar / (lbf/sq in)	8/(116)		N/A		N/A		N/A	
GC Number		47-930-01	47-930-02	41-930-19	41-930-20	41-930-17	41-930-18	41 930 07	41 930 08
CE PI Numbers		87BQ006		87BR36	87BR36	87BR36	87BR36	87BN14	

For higher output applications Keston offers a complete range of commercial heating products including made-to-order multiple boiler rigs - refer to the Keston Commercial brochure for more details.

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In accordance with our policy of constant improvement we reserve the right to alter the design and specification without prior notice.