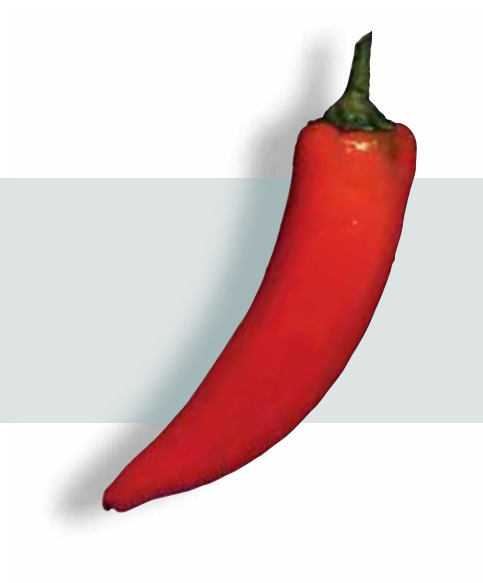


# KESTON DOMESTIC

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 C36 COMBI

## 36kW CONDENSING COMBINATION BOILER

The Keston C36 Combi, a wall-mounted gas condensing combination boiler. A core Keston philosophy is to identify current industry trends, issues and demands and act quickly and professionally in response, securing its reputation as forward thinking and proactive. It is this precise quality that inspired the design, development and production of the C36 Combi.

The C36 Combi was created in response to installers' requests for units that exceed the standard requirements and changes in the 2005 Part L Building Regulations. The C36 Combi offers a comprehensive list of features as standard. In addition, it is available with optional outside sensor and indoor time/temperature control which communicate constantly with the boiler. This ensures the unit's consistent running at optimum efficiency and desired user-comfort levels. The system is complemented with low voltage two-core cabling for straightforward, simple installation.



## Power Points

- **SEDBUK A-rated**
- **Small diameter muPVC plastic flue system**
- **Flue can be extended 20 metres from the boiler, vertically or horizontally**
- **Lightweight and compact dimensions 840H x 450W x 300D**
- **Massive flow rate: 14.5L/min (at 35°C rise), 17.0L/min Specific Flow Rate (at 30°C rise)**
- **Super accurate DHW temperature control**
- **Fully modulating 7 to 27kW (CH mode)**
- **Independent DHW and heating temperature settings**
- **Comprehensive diagnostics**
- **Intelligent lock-out avoidance**
- **Modulating pump**
- **Weather compensation (optional)**
- **Room compensation (with optional room control sensor)**
- **Integral frost protection and pump/fan exercise**
- **Pre-installation jig (optional)**
- **Filling loop included**
- **Front access for maintenance/service ease**
- **Stainless steel heat exchanger with 5-year guarantee**
- **Natural Gas and LPG models**
- **Intelligent controls**

## INNOVATIVE. CREATIVE. UNIQUE.

Keston offers cutting-edge technology so advanced, it runs itself. No complex buttons, no high-tech instructions, just effortless reliability and up-to-date equipment.

The C36 Combi boasts a small diameter muPVC plastic flue system up to 20 metres long. The boiler uses third generation technology, offering advanced, yet uncomplicated optional extras such as weather compensation and intelligent room control with optional room control sensor (using 'open-therm' technology), providing ideal temperatures for any environment without any specialist knowledge required from the user. Pioneering performance with control.

### KESTON'S FLUE REMEDY



A small diameter (50mm) muPVC standard kitchen waste pipe is the sole requirement for our innovative flue and air intake system. Vertically or horizontally, the flue can be extended up to 20 metres, depending on model, from the boiler allowing for easy and hassle-free installation, and up to 60m, depending on model, using 70mm Keston composite flue. Keston boilers can therefore be sited in the most convenient and practical locations.

The standard muPVC waste pipe is a fraction of the cost of conventional flues and is available from all builders merchants – therefore no more waiting days for traditional flue system extensions.

## Physical data

		<b>C36 &amp; C36P Combi</b>	<b>Qudos 28h</b>	<b>Qudos 28s</b>	<b>C40 &amp; C40P</b>	<b>qDuet 120/150/210</b>
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)
<b>Flue and Air Intake Material: 50mm muPVC (BSEN1566-1 Pipe &amp; BSEN1329 Fittings)</b>						
Max. Flue Outlet Length	m	20	20	20	15	20
Max. Total Flue Outlet and Air Intake Length	m	40	40	40	30	40
<b>Flue and Air Intake Material: 75mm Keston Composite</b>						
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

		<b>C36 COMBI</b>	<b>C36P COMBI</b>	<b>QUDOS 28H</b>	<b>QUDOS 28HP</b>	<b>QUDOS 28S</b>	<b>QUDOS 28SP</b>	<b>C40</b>	<b>C40P</b>
		<b>Nat. Gas (G20) LPG (G31)</b>						<b>Nat. Gas (G20) LPG (G31)</b>	
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 <sup>3</sup> /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 <sup>2</sup>		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.