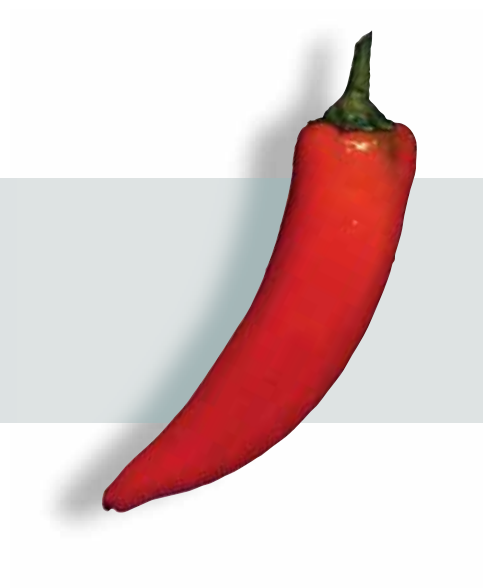


# KESTON DOMESTIC

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

# THE KESTON QUDOS DUET

Solar Ready

## QUDOS 28S BOILER COMBINED WITH qSPA 120,150 OR 210 AND CONTROLS

Keeping in line with Keston's unswerving commitment to cost efficiency, innovation and simplifying installation, the company have pioneered the ultimate domestic heating system. The Keston Qudos Duet incorporates technology normally associated only with the most advanced commercial boiler systems into a domestic system with full functionality, which optimises capability and provides the ultimate in control and simplicity.

## Power Points

### HEATING FEATURES

- Keston Qudos 28s intelligent system fully modulating gas condensing boiler
- Filling loop included
- Automatic bypass valve
- 22mm 2-port CH valve
- Sealed system discharge tundish
- Flow and return isolation valves
- 8 litre system expansion vessel

### HOT WATER FEATURES

- qSpa unvented cylinder made from ultra durable Duplex stainless steel
- 22mm 2-port DHW valve
- Potable water expansion vessel
- Cylinder control/overheat thermostat
- 3kW immersion heater
- CWS pressure-reducing valve set
- CWS expansion relief valve
- Potable discharge tundish

### ELECTRICAL FEATURES

- Wiring centre
- 2-channel programmer
- Switched fused spur

Larger capacity units available on request

Models shown are the qDuet 120 & 210



The Keston Qudos Duet offers a harmonised blend of the Qudos 28s and the Keston qSpa unvented water storage cylinder with full 'future ready' control options fitted as standard, including a revolutionary facility for hot water modulating control and legionella protection. The Keston Qudos Duet is available in one compact ready-to-install unit, all contained in a pre-assembled, pre-plumbed and pre-wired floor-standing rig. The integrated Qudos 28s is fully modulating from 7kW to 28.4kW output. The unvented qSpa water storage cylinder in this rig is available in 120l, 150l and 210l volumes and larger sizes are available on request. No anode is required and the cylinder offers rapid heat recovery with dramatic savings through reduced boiler cycling.

### SIMPLIFYING FOR THE INSTALLER

The Keston Qudos Duet has all the cost and energy-saving benefits of condensing technology, combined with speedy, uncomplicated and clear installation.

### HOW TO INSTALL

Site the unit where convenient, connect to the radiators or the underfloor heating system, all hot and cold services and the gas supply. Connect 230V permanent electrical supply into a switched fused spur box fitted on the unit and finally connect to any choice of 230V AC room thermostat. All servicing is from the front and the water cylinder is fitted with a 3kW (21/4") immersion heater as backup. As with all Keston boilers, the Qudos 28 carries the Energy Efficiency logo\*. Additionally, the Keston Qudos Duet is designed to fully comply with CHES HR7 recommended Best Practice system specification. In addition, for multiple installations, Keston is able to modify the design to provide a bespoke solution to meet any customer needs.

## 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.

### KESTON BOILERS LIMITED

Telephone: 020 8462 0262

Fax: 020 8462 4459

34 West Common Road, Bromley, Hayes, Kent BR2 7BX, United Kingdom

### WWW.KESTON.CO.UK

General Information: info@keston.co.uk

Technical Support: technical@keston.co.uk

Sales: sales@keston.co.uk

Spares: spares@keston.co.uk

Accounts: accounts@keston.co.uk