



KDB-S Oil-fired Water Heater



KDB-S Gas-fired Water Heater

**84% GCV minimum efficiency**  
**Oil, Kerosene, Gas or LPG Pressurised burners**  
**Stainless Steel DHW exchanger prevents scale build-up**  
**Models 1035, 1535 & 2035 are copper throughout the domestic hot water heat exchanger and storage**  
**Fast recovery heat up – 10/60°C in less than 5 minutes**  
**Balanced flue capability on all models.**

MODEL	500/535S	700/735S	1000/1035S	1500/1535S	2000/2035S
<b>PERFORMANCE</b>	<b>535</b>	<b>735</b>	<b>1035</b>	<b>1535</b>	<b>2035</b>
Heating Input kW	58.1	81.3	116.3	174.4	232.6
Heating input 000's BthU/Hr	198	277	397	595	794
Peak hot water output (boiler @ 82°C, water 10°C to 60°C) (ltr/min for 10 minutes)	16.7	23.4	47.5	57.0	71.2
(ltrs per hour)	1010	1410	2860	3430	4280
Peak hot water output (boiler @ 82°C, water 10°C to 40°C) (ltr/min for 10 minutes)	27.8	39.0	79.2	95.0	118.7
(ltrs per hour)	1683	2350	4767	5717	7133
Efficiency (% gcv)	84	84	84	84	84
35secs oil used (l/Hr)	6.79	9.66	13.57	20.36	27.15
Gas used (m3/Hr)	7.40	10.36	14.80	22.19	29.59
Electricity-oil boiler (w)	260	270	300	434	434
Electricity-gas boiler (w)	179	179	332	374	374
Dry weight (kgs)	93	102	248	370	450
HWS water content (ltrs)	46	68	148	188	255
HWS max. pressure (BARS)	17.8	17.8	17.8	17.8	17.8
HWS min. pressure (BARS)	0.3	0.3	0.3	0.3	0.3
HWS pressure drop at Peak flow (kPA)	8	15	13	17	31

## Dimensions & Connections (mm)

MODE[	WIDTH	HEIGHT	LENGTH	FLUE DIAMETER	DHW INLET/OUTLET
535	547	1032	848	148	40
735	547	1240	848	148	40
1035	626	1344	994	200	65
1535	726	1353	1094	200	80
2035	726	1655	1165	200	80

### SPECIFICATION

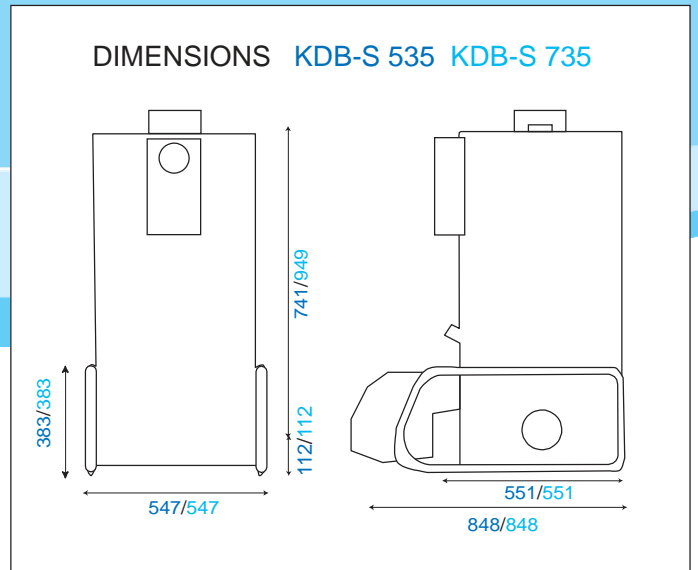
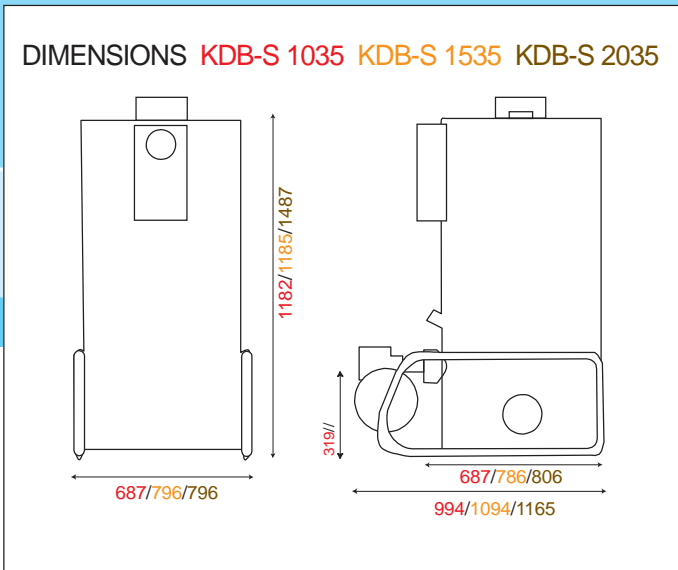
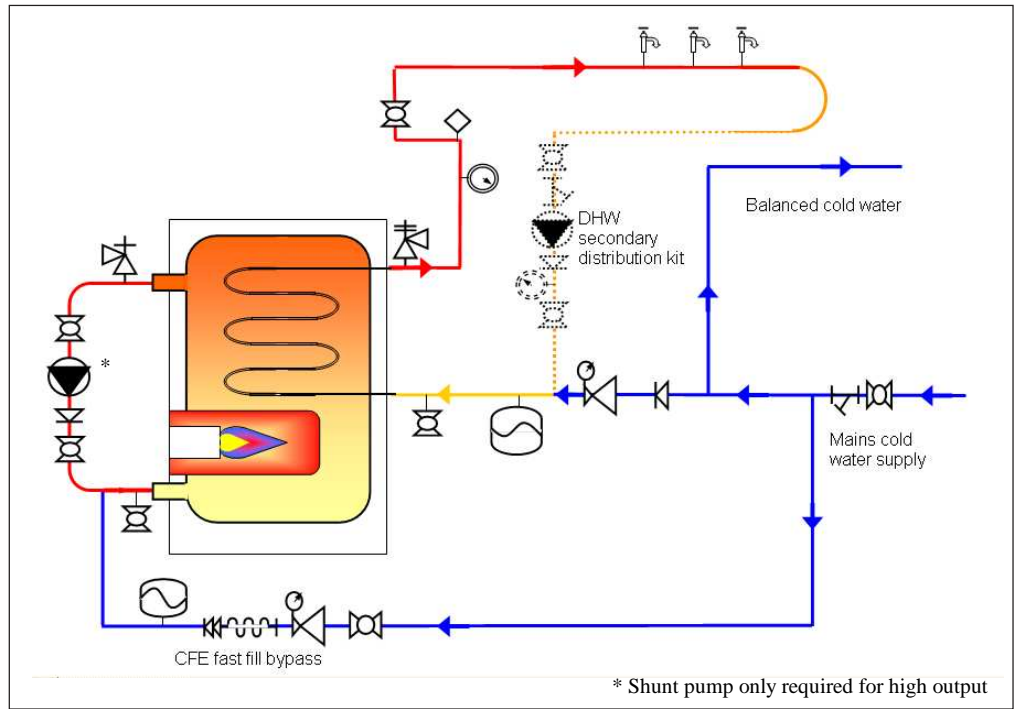
The KDB-S range of water heaters are free-standing, and rated at 1010 to 4280 litres per hour heated from 10°C to 60°C.

The KDB-S water heater package includes:

- ✓ One domestic hot water coil manufactured from SUS 304L austenitic stainless steel (models 535 & 735) or from copper tube (models 1035, 1535 & 2035).
- ✓ One heater shell manufactured from SUS444 austenitic stainless steel (models 535 & 735) or from high grade SHP steel (models 1035, 1535 & 2035) with patented combustion chamber and heat exchanger
- ✓ One control panel having thermometer, heater controller with power button, re-set button, lamps indicating power, combustion, primary water flow, DHW flow, low water level, overheat, failures of sensors, burner lock-out, together with temperature sensor, low water sensor, overheat lock-out.
- ✓ One sealed oil or gas burner with solenoid valves, ignition transformer, flame detector, gas pressure switch, air flow control, air pressure switch, electrode and motor. (gas pressure switch)



KDB-1035S natural gas installation



APPLICATIONS	OPTIONS & DELIVERY DETAILS
<ul style="list-style-type: none"> <li>✓ Hospitals</li> <li>✓ Hotels</li> <li>✓ Leisure Centres &amp; Swimming Pools</li> <li>✓ Large Schools</li> <li>✓ Sports Centres</li> <li>✓ Universities</li> <li>✓ Elderly Facilities</li> <li>✓ Industrial Processes</li> </ul>	<ul style="list-style-type: none"> <li>✓ C20 Buffer Vessels from 200 to 2500 litres on speedy delivery,</li> <li>✓ Mounting packs with drain ball valve, thermometer, pressure gauge &amp; cock, anti-vacuum plug, high capacity automatic air vent</li> <li>✓ Appropriately sized pump/flow packs with wet rotor circulators, bucket strainers, non-return valves and sufficient isolating ball valves</li> <li>✓ Unvented kits consisting of isolating ball valve, high capacity strainer, pressure regulating valve, expansion vessel, temperature &amp; pressure relief valve</li> </ul>



Stainless Steel heat exchanger