

**RANGE**  
**SPACE HEATING**  
**27kW to 81kW**

**WATER HEATING**  
**805 to 1250ltrs/hr**

# HBE-S20

## ELECTRIC COMBINATION BOILER

Quiet operation

No flues, no pollution

Precise controls give low running costs

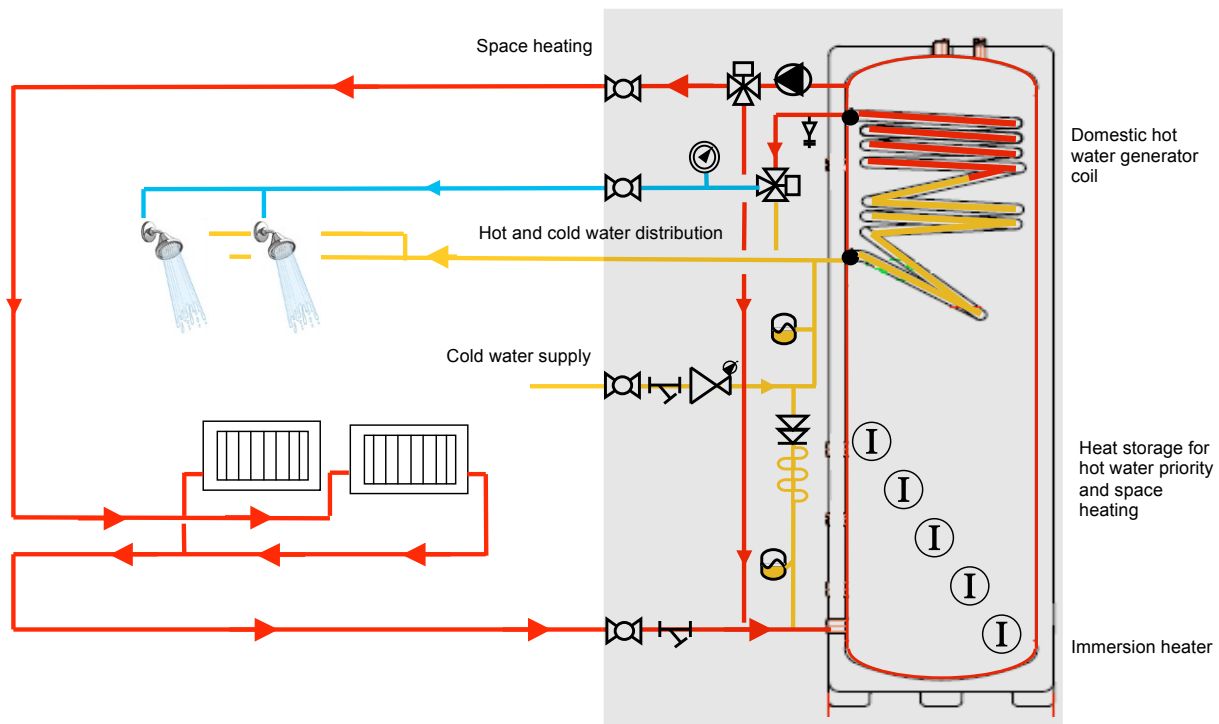
Easy installation into a variety of spaces  
 (eg under stairs, in attics)



The HBE-S20 electric combination boiler has a 750litres store of heated water ready to serve a space heating system and also, through a powerful heat exchanger coil, provides substantial domestic hot water as and when required.

Model	27kW/750ltrs	81kW/750ltrs
Heat Input	27kW 3-step control	81kW 3-step control
Full load efficiency GCV	99.3%	99.5%
Maximum output kW	26.0kW	80.0kW
Maximum space heating range kW	12 to 26kW	18 to 80kW
Available 10min domestic hot water output against maximum space heating	500ltrs 10 to 45°C	2,000ltrs 10 to 45°C
Maximum domestic hot water output priority over space heating	9kW	27kW
In 10 minutes	355ltrs 10 to 45°C	1020 ltrs 10 to 45°C
In one hour	805ltrs 10 to 45°C	1650ltrs 10 to 45°C
Dry weight kg	76	140
Water content litres	750	750
Minimum water pressure BARS	0.8	0.8
Standard water pressure BARS	3.0	3.0
*Maximum pressure available BARS	6.0	6.0
Height mm	2040	2040
Diameter mm	810	810
Access front mm	500	500
Access sides mm	300-500	300-500
Access rear mm	100	100
Access top mm	150	1250
<b>CONNECTIONS</b>		
Mains cold water supply mm	32	32
Balanced hot water flow mm	32	32
Balanced cold water flow mm	32	32
Space heating cold feed mm	28	28
Space heating flow mm	50	50
Space heating return mm	50	50
Boiler drain valve mm	20	380
Electrical supply – single phase amps	130	130
Electrical supply – three phase amps	45A per phase	125A per phase

## TYPICAL CIRCUIT



**SPECIFICATION** The inner vessel is fabricated from 316L austenetic stainless steel, fitted with dished ends and argon-arc welded using the tungsten inert gas process. It is the corrugated and finally de-stressed and surface treated. The outer vessel is also made from 316L stainless steel and is fitted around the inner vessel. Overall insulation is 30mm thick polyurethane foam with a hard polystyrene outer case enamelled in white. Three to nine 9kW three phase immersion heaters in accordance with BS EN 60335-2-7 having long life incoloy immersion elements and thermostats.

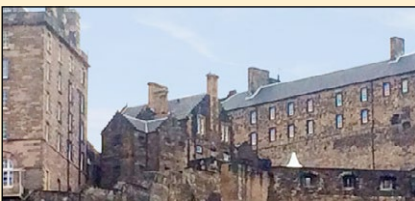
A package of ready-to-fit components are provided with the vessel: A heating circulating pump with cast iron body, stainless steel rotor and can, ceramics, carbon, aluminium and EPDM outer components, a heating 3-port rotary valve suitable for diverting primary hot water in a closed circuit application, an unvented DHW kit with pressure regulating valve, non return valve, expansion vessel, a temperature and pressure relief valve and a set of copper pipes cut to length with necessary fittings.

**Controls are:** A blending valve, a wall mounted weekly temperature controller in compliance with CEI EN 60730-1-2, 8amp switching capacity, comfort and economy control settings (2°C to 62°C,  $\Delta$  0.25 °C), two year battery standby life,

summer/winter modes, a wall mounted control panel comprised of: a polycarbonate enclosure to Ip67, a heavy duty contactor and control relay, DIN-rail terminals and a 24 hour control on the incoming single phase electrical.

The package consists of :-

- The S20 body and exchanger, stainless steel (UNS S3 2205/S3 1803) DUPLEX throughout, and made to directive 97/23/CE and according to EN 2883.1992/A1:1997. Insulated with 30mm thick, CFC-free polyurethane foam (ASTM D-1692) and a polyester hard outer finish
- Three to nine 9kW three phase immersion heaters having brass bosses with fixed elements, a 25mm cold zone and fitted with control and over-heat thermostats
- One space heating pump and a 3-way/2-position motorised valve
- One domestic hot water 3-way mechanical blender valve
- One mounting pack and un-vented kit
- One Master control Panel complete with in-built 24-hours power time-switch, remote 7-day multi-time zone remote room sensor and trailing cables to above items



## EDINBURGH CASTLE

The Castle is the most visited paid-for tourist attraction in Scotland and is maintained by Historic Scotland. The boiler is tucked away in a convenient century's old corner and it gives no problems of noise, no pollution, and no necessity for chimneys. ATLANTIC HBI-S20 electric combination boiler to meet the radiator heating and hot water needs for the History Building and gives precise control and easy installation. The boiler serves loads from 6kW to 27kW and can vary the mix of loads between space heating and domestic hot water.

**FOR TECHNICAL HELP/ADVICE** Call 0161 621 5960  
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