

**RANGE  
SPACE HEATING  
6kW to 27kW**

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

# HBI-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)

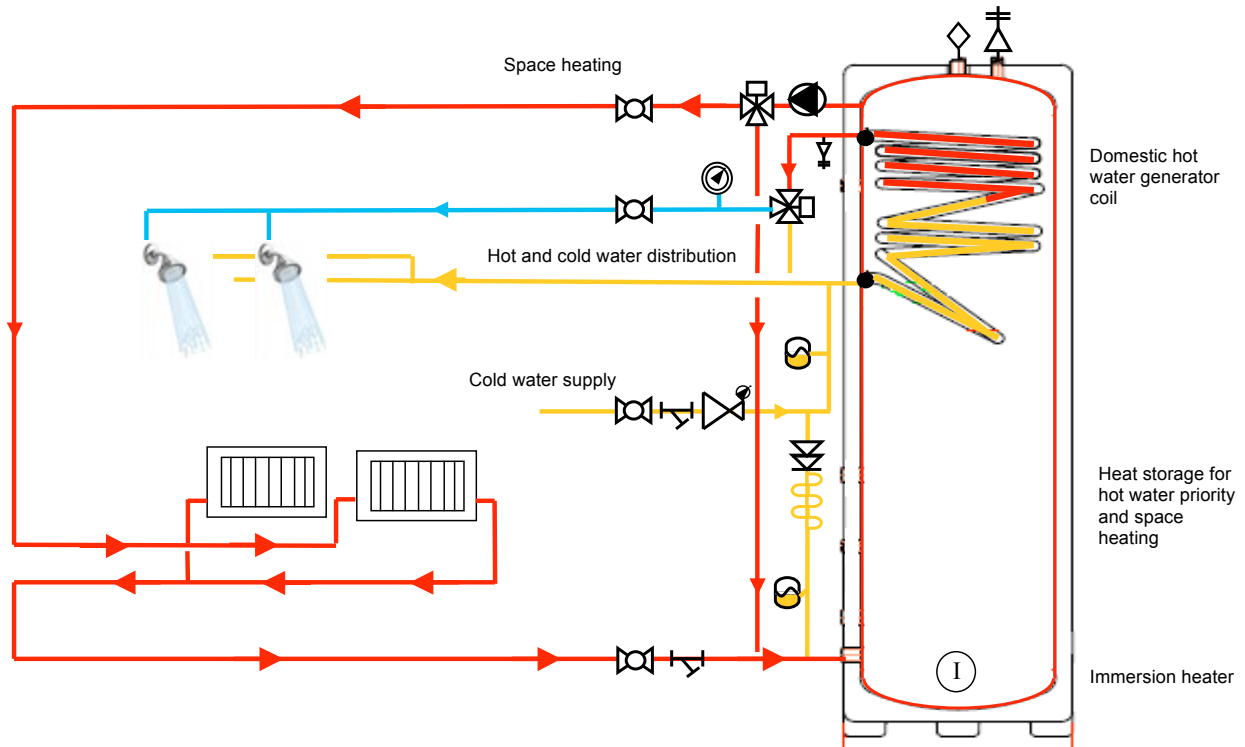
**ATLANTIC  
BOILERS**  
HIGH EFFICIENCY CONDENSING BOILER-PLANT



The HBI-S20 electric combination boiler has a 265litres 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	9kW/265ltrs	27kW/265ltrs
Heat Input	9kW 3-step control	27kW 3-step control
Full load efficiency GCV	98.6%	99.3%
Maximum output kW	8.875	26.875
Maximum space heating range kW	6.0 to 8.875	12 to 26.875
Available 10min domestic hot water output against maximum space heating	120 ltrs 10 to 45°C	120 ltrs 10 to 45°C
Maximum domestic hot water output priority over space heating	3.0kW	9.0kW
In 10 minutes	295 ltrs 10 to 45°C	355 ltrs 10 to 45°C
In one hour	445 ltrs 10 to 45°C	805 ltrs 10 to 45°C
Dry weight kg	68	76
Water content litres	265	265
Minimum water pressure BARS	0.5	0.5
Standard water pressure BARS	3.0	3.0
*Maximum pressure available BARS	6.0	6.0
Height mm	1600	1600
Diameter mm	570	570
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	0	20
Balanced hot water flow mm	20	20
Balanced cold water flow mm	20	20
Space heating cold feed mm	20	20
Space heating flow mm	20	20
Space heating return mm	20	20
Boiler drain valve mm	15	15
Electrical supply - single phase amps	48	130
Electrical supply - three phase amps	16 per phase	45amps per phase

## TYPICAL CIRCUIT



**SPECIFICATION** The inner vessel is fabricated from 316L austenitic 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. Two or three 3kW 240V 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 & exchanger, 316L austenitic stainless steel 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 3kW to 9kW single 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  
or email [info@atlanticboilers.com](mailto:info@atlanticboilers.com)

**FOR FULL PRODUCT RANGE & LITERATURE**  
Visit [www.atlanticboilers.com](http://www.atlanticboilers.com)