



VS 300 series & VS 610 series

**SUGGESTED SPECIFICATION FOR SIMONS MODEL VS-300 AND VS-610
PACKAGED AUTOMATIC ELECTRIC STEAM BOILERS**

- Supply one packaged type vertical automatic electric steam boiler with a capacity of not less than ___kg/h of steam "from and at 100 C".
- The construction and installation of the boiler shall be in accordance with the SAA Code No. A.S. 1228 and amendments thereto.
- The boiler and fittings shall be suitable for a working pressure of 725 Kpa.
- The boiler shell shall be vertical and shall be of steel construction with welded end plates.
- The boiler shall be fitted with readily accessible alloy sheathed type electric elements directly in contact with the water. The element assemblies shall be flanged and bolted to the shell of the boiler to facilitate removal.
- An element over-temperature protection thermostat fitted with remote bulb sensing and manual reset shall be provided. The thermostat shall be failsafe and on actuation de-energise the complete boiler heating circuit.
- A pressurestat set at ___ Kpa shall be fitted to provide ___ step control of the elements.
- The boiler shall be fitted with probe water – level control system or a readily accessible type ball float switch with switching contacts for control of the feed water pump and low water level cut-out mounted external to the boiler shell. The water level sensing probe or the float switch assembly shall be flanged and bolted to the shell of the boiler to facilitate removal.
- An electrically driven feed water pump shall be mounted inside the boiler case and shall be supplied pre-piped as part of the packaged boiler assembly.
- The boiler shall be supplied completely factory wired complete with internal sub-board and with all necessary safety controls and controls for automatic operation. The boiler shall be provided with a boiler pressure gauge, low water safety cut-out, pressure safety valve, pressure stat, automatic water level control, water gauge glass assembly, blown down cock, spring loaded check valve, etc., and all other standard auxiliary fittings normally provided.
- The boiler shall be supplied with a 'Pump' and 'Element' on/off control switch complete with pilot lights all flush mounted on the front control panel.
- The boiler shall be supplied completely factory insulated with not less than ___ mm (Model VS-300 25mm, Model VS-610 38mm) thick fibre-mesh blanket.
- The boiler assembly including feed water pump and electrical sub-board shall be enclosed in a neat rigid baked enamel sheet steel case. The case shall be constructed with hinged access doors fitted with locks to provide ready access to all internal equipment including electric heating elements, float control switch, pressure stat, electrical sub-board and feed water pump.
- The boiler shall be of the type as manufactured by W. Simons & Sons (Aust.) Pty. Ltd., Model No. VS-300/ ___ kw. or VS-610/ ___ kw.