



THE ADVANTAGES OF SIMONS AUTOMATIC ELECTRIC STEAM IRONING UNITS AND ELECTRICALLY HEATED IRONING TABLES

- The Simons Automatic Electric Steam Ironing Unit manufactured by W Simons & Sons (Aust) Pty Ltd consists basically of an electric fully automatic steam boiler, thumb switch controlled electric steam iron and, if required, an electrically heated ironing table.
- The steam is produced in a miniature fully automatic packaged electric steam boiler measuring 250mm x 350mm x 640mm high and is situated adjacent the ironing table as illustrated on our brochure.
- Simons miniature steam boilers of the size indicated above are available in capacities to produce an adequate quantity of steam for 1, 2, 3, 4, 5 or 6 irons. The boiler produces steam at between 550 - 690 kPa, is fully automatic in that it has a built-in feedwater pump which automatically during the day pumps water into the boiler as and when required, and is fitted with a fully automatic pressure switch which maintains the pressure at the desired working pressure without any operator's supervision. The automatic electric steam boiler is enclosed in an attractive marvi-plate sheet metal enclosure which consists of vinyl covered sheet metal to ensure maintenance free care and attractive appearance. The boiler is fitted with a pressure gauge, safety valve and pilot lights. In addition a blowdown valve is fitted to the side of the boiler beneath the automatic feedwater pump for thorough draining and cleaning of the boiler.
- The boiler requires only switching on in the morning and switching off at the end of the day's work. There is no supervision, no attention, no operator required to ensure the satisfactory operation of the boiler. Once switched on it will automatically maintain the desired pressure and water level to produce the steam required for the number of irons for which the boiler is selected. The steam from the boiler is transferred to an electric solenoid valve as illustrated on the brochure. The electric solenoid valve which controls the flow of steam to the iron is controlled from a thumb switch fitted to the handle of the iron. The thumb switch and solenoid valve controlling the flow of steam to the iron is reduced in voltage to 24V so that there is no danger from the micro switch fitted to the thumb switch on the handle of the iron should damage occur to same. Steam is supplied to the iron via a P.T.F.E. tefane steam hose which is supported from a spring stanchion to provide a neat assembly of hoses and flexes as illustrated on the brochure.
- The steam iron is available in four weights - 1½, 2½, 3 and 4½ kg. The 1½kg iron is fitted with a polished aluminium base whilst the 2½, 3 and 4½kg irons are fitted with a gun-metal base, bright nickel plated. All model steam irons are fitted with a fully automatic thermostat to control accurately the temperature of the base of the iron, adjustable between 90 C and 230 C so as to provide a full range of temperatures for the ironing of all types of garments. The thermostat adjustment knob is located beneath the iron handle as illustrated on the brochure. The construction of the iron is such that maintenance may be carried out with the least possible inconvenience. The iron is constructed with the base from which two studs rise vertically and each component, which includes an element, superheater and thermostat are placed in turn on the base before the fitting of the iron bonnet. Therefore, for maintenance, by the removal of the iron bonnet each component may be individually replaced without the destruction of any other one component, thus maintenance costs are kept to an absolute minimum.
- The steam produced in the boiler when transferred from the boiler through the solenoid valve and teflon steam hose to the steam iron leaves the steam iron with such velocity that it has the capacity to blow a distance of 15 metres from the iron. The actual amount of steam used for steam pressing is a quantity of steam equal to a blow of approximately 1½ metres and this flow is controlled from a needle valve fitted to the solenoid valve, as can be seen on the illustration. A table is included at the end of this precis detailing approximate "Pressing Time" for various types of garments when using a Simons automatic steam iron



and which has been compiled from information supplied by Australian Clothing Manufacturers using Simons steam irons.

- The steam iron unit can be supplied as a one-iron unit, two-iron unit, three, four, five or six-iron unit. A typical example of the lay-out of a two-iron unit is as illustrated on our brochure. The first iron is served from the solenoid valve located immediately on top of the boiler, the second iron is served from the solenoid valve fixed to the table where the second iron is to be located, and steam is supplied to the second iron via pipework which is connected into a socket provided on the right hand side of the boiler. The unit can be further extended to a three-iron unit as illustrated on our typical "3-iron unit lay-out" drawing. The configuration and lay-outs as illustrated and as detailed on our drawing are typical only, but with these types of lay-outs they ensure a very economical installation utilising the principle of gravity condensate drainage, thus avoiding expensive pipework and steam traps, etc. A close study of the drawings and illustrated brochure will indicate to the user the simplicity of installation, pipework lay-out and freedom of maintenance.

-ELECTRICALLY HEATED IRONING TABLES-

- The substantial quantity of steam available from the Simons automatic electric steam ironing unit which is essential for industrial steam ironing to ensure immediate relaxation of the tensions of the fibres of the garment being ironed, provides a problem of condensation of steam into the cotton padding ironing surface covering the ironing table. To overcome this problem Simons manufacture an electrically heated ironing table, the ironing table is of cast aluminium with an electric element and thermostat fitted to the underside. The electric element heats the aluminium table to a temperature of 90 C under the control of the thermostat. The principle of operation is that the heated surface of the ironing table withdraws the moisture which would normally collect in the cotton padding to re-evaporate same to ensure a continuous and perfectly dry ironing. surface. It is essential that the ironing surface on the table is bone dry, as the garment prior to ironing is dry and the garment on completion of ironing must again be dry to ensure retention of tension, shape and finish created by the ironing operation.
- The ironing tables are available in several shapes and sizes, the most common being for the frock trade 300mm wide x 1.2m long and tapered to one end; for the frock and slack trade 360mm wide x 1.4m long tapered to one end; for the tailors a table 180mm wide increasing in size to 430mm and for trouser leg seam busting a seam buster table 100mm wide x 1.2m long. All tables are of cast aluminium, are fitted with an electric element, are thermostatically controlled to maintain a surface temperature of 90 C and are mounted on an attractively finished steel column and aluminium base for securing to the floor, generally as illustrated on our brochure.



-SIMONS SUCTION ELECTRICALLY HEATED IRONING TABLES-

- The Suction (Vacuum) Electrically Heated Ironing Tables as illustrated on the reverse side of the Steam Ironing Unit brochure incorporates all the features of the standard electrically heated ironing table referred to above plus a powerful suction fan to provide quicker ironing with extra dry cool garments, surpassing even the existing standard range of Simons electrically heated ironing tables.

The Simons Suction (Vacuum) Heated Ironing Tables feature:

- Powerful suction (vacuum) guarantees extra dry cool garments
 - Table tapered to ensure proper ironing of shaped garments
 - Electrically heated corrosion-free pressing surface with automatic variable temperature control
 - Supplied with fitted heat resistant ironing covers
 - Lifelong construction with suction tub of rust-free cast aluminium and suction plate of perforated aluminium
 - Suction controlled by a single foot pedal
 - Fitted with continuous suction manual over-ride switch with indicator lamp for ease of operation
 - Quiet operation and fitted with directional discharge outlet
- Options: Sleeve arm with powerful suction and swivel action. Suction is automatic, no levers or arms to pull.
- Simons 'Presrite' electric steam iron low-boy unit. readily fitted.

"PRESRITE" UNIT

For the client who already has an existing steam boiler and requires only the steam iron unit and table for connection to his existing pipework, Simons manufacture a unit known as the "Presrite" unit which consists basically of an electric steam iron, solenoid valve, hoses and flexes, pipework for connection to the existing or proposed steam line and in addition, if required, electric heated ironing tables.

The Presrite unit is used extensively in laundries, hospitals, hotels and dry cleaners where it is located in the pressing section connected to the existing steam supply or proposed steam supply.

LARGER ELECTRIC STEAM BOILERS

Simons manufacture an extensive range of fully automatic packaged electric steam boilers for the clothing manufacturer, the dry cleaner, the laundry, the hospital and basically for any industry where steam is required to a capacity of approximately 48 boiler HP (760kg/hr). For the clothing and textile industry, boilers are manufactured with capacities to supply sufficient steam to one steam iron to five hundred steam irons. Or for utility type presses with top and bottom bucks from one press to fifty presses.



A separate illustrated brochure is available for our 1/3HP - 48HP range of automatic electric steam boilers which have the capacity to supply up to fifty steam presses or five hundred steam irons or a combination of both.

The boiler requires minimal installation. Being an electric steam boiler no provision for flue has to be made, no provision for an oil storage tank has to be made, there is no requirement for a-plant room because there is no danger of explosion or smell from oil and there is no heat generated from the boiler cabinet as there are no external surfaces exposed to flame. The boiler is simply placed in location in the room in which the steam is being supplied to, and to complete the installation only connection of electricity and water is required.

The electric steam boiler requires only minimal maintenance because its principle of operation is utilisation of incolloy sheathed electric elements immersed in the water, and an electrical contactor through which are energised elements under the control of a pressure switch for raising the steam pressure. Thus the boiler is not complicated by controls essential for the satisfactory operation of oil fired boilers, such as pre-purge/post-purge controls, flame failure controls, ignition and pre-ignition controls, oil transfer controls, draught control, flue control, burner controls.

| - No and Type of Garment pressed by iron per 8 hrs a day - | |
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| <ul style="list-style-type: none"> • Blouses - 220 • Dresses - 180 • Frocks - 180 • Jeans - 160 • Pyjamas (Boy's) - 1000 • Pyjamas(Men's) - 700 • Skirts (Men) 200 | <ul style="list-style-type: none"> • Shirts (Dress) - 230 • Shirts (Casual) - 350 • Slacks - 160 • Slacks (Double Knit) - 190 • Ties - 900 • Trousers - 130 • Trousers 160 |

The subcontractor shall supply and install where indicated on the Drawing a packaged wall mounted automatic electrode steam humidifier with a capacity not less than _ kg/hr, or as specified in the Schedule forming part of this specification.