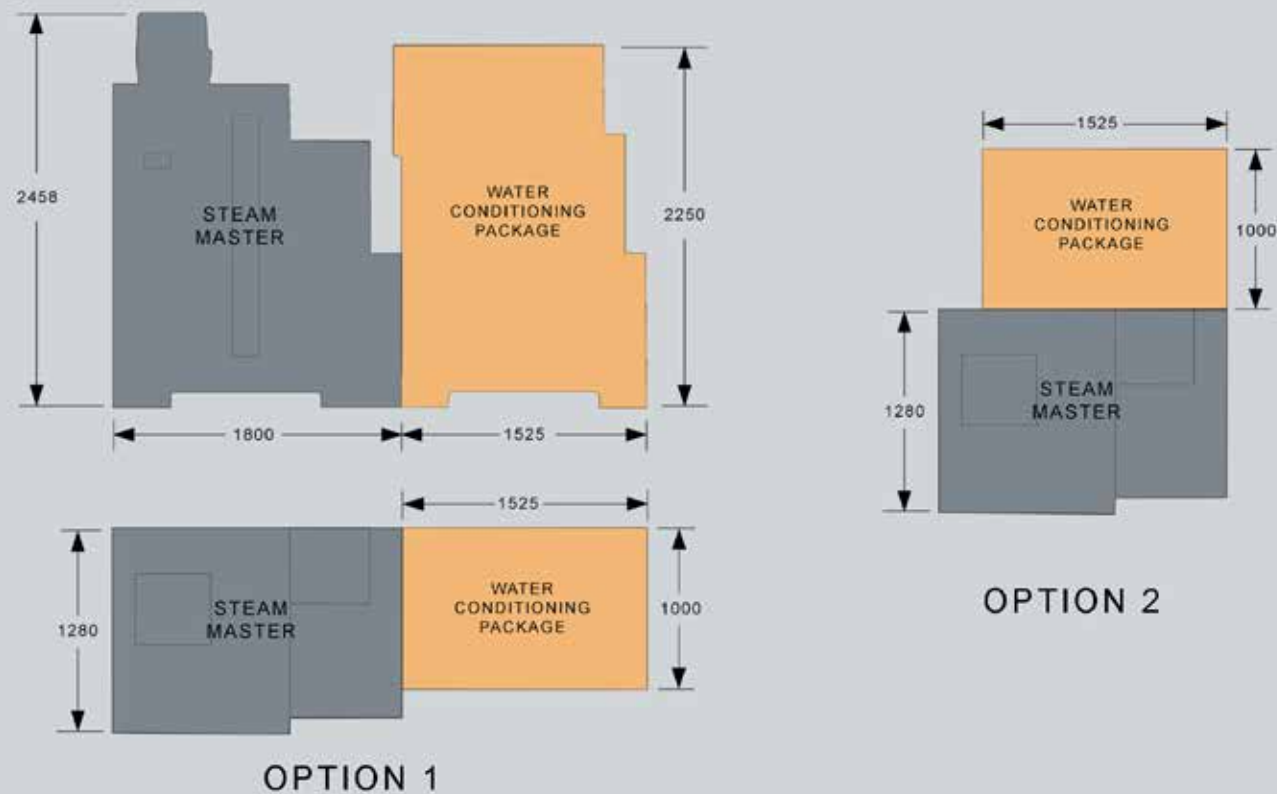


## Positioning Options for Water Conditioning Package



# STEAM MASTER

Easy to Operate • Touchscreen Control  
High Efficiency • Five Year Warranty • Fully Modulating  
Low Emissions • Safe • Runs Without Supervision  
Short Start-up Time • Reliable • Low Maintenance

Our success is built on the expertise of our staff who are committed to providing exceptional levels of customer service and support. The Clayton lifetime customer care is second to none and our dedicated service team is ready to assist with immediate technical support that is available 24 hours a day - 7 days a week.



USA World Headquarters - [www.claytonindustries.com](http://www.claytonindustries.com)

BELGIUM Headquarters EMEA - [www.clayton.be](http://www.clayton.be)

FRANCE - [www.clayton.fr](http://www.clayton.fr)

UK - [www.claytonindustries.co.uk](http://www.claytonindustries.co.uk)

MEXICO - [www.clayton.com.mx](http://www.clayton.com.mx)

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SPAIN - [www.clayton.es](http://www.clayton.es)

THE NETHERLANDS - [www.clayton.nl](http://www.clayton.nl)

The **Clayton STEAM MASTER** represents progress that can only be achieved after more than 80 years' operating experience of advanced steam boiler technology.

This is the latest product of our progressive research and development programmes and is the next generation Clayton Steam Generator for steam duties in the range up to 700 kg/h.



## TECHNICAL DESCRIPTION

All three sizes of **Clayton STEAM MASTER** can run on either oil or gas. Gas fired units have fully modulating output control from 100% to 20% and oil fired units have the Clayton three step modulating control. Electrical supply required is only 220V single phase with a power rating that is less than a domestic electric kettle.

Steam is produced by a heated, once-through, water tube coil that is the heart of the design. Operating steam pressure is 7 barg. An additional feature is the unique Clayton glandless, packless water pump that has been proven to give outstanding performance, response and reliability. The **Clayton STEAM MASTER** is of an extremely robust construction suitable for industrial environments. This is why we are able to offer a five year guarantee on pressure parts.

The Clayton 'easy start' system is a straightforward means of putting the unit into service. The user-friendly touch screen gives operator prompts and self-diagnostics with immediate visual indication of status. Information is clearly displayed to show that your steam supply is working perfectly. The standard unit is fitted with safeguards to permit unattended operation for up to 1 week.



## OPTION PACKAGES

The five option packages that are available allow configuration of the **Clayton STEAM MASTER** to suit your particular needs.

### FUEL SAVING PACKAGE

By selecting the Fuel Saving Package it is possible to increase fuel efficiency. This reduces fuel consumption and significantly lowers annual running costs. This is achieved by adding a finned tube economiser section that will conserve the optimum amount of heat. The economiser fits neatly within the unit and fuel savings of up to 95% can be attained.

### STEAM QUALITY PACKAGE

For applications that may benefit from high quality steam, the Steam Quality Package provides 99% dry saturated steam under all output conditions. This is made possible by the addition of the unique Clayton High Efficiency Steam Separator. Trapped water is collected and can be recycled. This option also includes an automatic blowdown to remove impurities. This package can be supplied with the unit or easily fitted at a later date.

### WATER PREPARATION PACKAGE

The Water Preparation Package is a self-contained module that houses the essential ancillary equipment needed to condition and monitor the feedwater to be used for steam production. All components are pre-assembled, piped and wired on the module.

|                            |                                                                                                     |
|----------------------------|-----------------------------------------------------------------------------------------------------|
| <b>Hotwell</b>             | to store and de-gas the feedwater, collect returned condensate and blend water treatment chemicals. |
| <b>Chemical Dosing</b>     | to ensure that the system is protected at all times.                                                |
| <b>Blowdown Cooler</b>     | to safely eject any waste water.                                                                    |
| <b>Twin Water Softener</b> | to prevent scale build up. This has two softening columns with automatic changeover.                |
| <b>Sample Cooler</b>       | to allow water samples to be easily and safely collected.                                           |

The Water Preparation Package is a frame construction and two standard alternative positions are possible.

### UNATTENDED BOILER ROOM PACKAGE

For unattended operation of the boiler room for up to one week the Unattended Boiler Room Package includes a conductivity monitor and hardness monitor mounted on the water preparation package, above.

### REMOTE COMMUNICATION PACKAGE

For additional peace of mind while the unit is operating unattended, the Remote Communication Package is a major benefit. This will send messages on the running status to a mobile device so that you are in constant communication with your steam raising plant at all times.