

# Introduction

## Hotplates

Stuart® offers a comprehensive range of hotplates, most units are available with either a robust silicon metal alloy or ceramic surface. Ceramic units offer better chemical resistance, and a higher maximum temperature of 450°C. Our latest series of Undergrad units also offer the option of a ceramic coated metal surface.

Stuart® hotplates are available in a variety of sizes, with the smallest units a small footprint and surface size of 15 x 15cm, our medium units offer a 30 x 30cm surface while the largest hotplate units have a 30 x 50cm surface size. Capable of holding up to 30 x 100ml beakers simultaneously. All units are available with simple analogue control and most are also available with more accurate digital control.

In addition to the standard Stuart® hotplates we also offer an acid resistant unit, the CP300. The CP300's external surfaces consist entirely of PTFE or ceramic to offer excellent chemical resistance. The CP300's control unit is remote to the hotplate, so it could be housed outside of a fume cupboard for example.

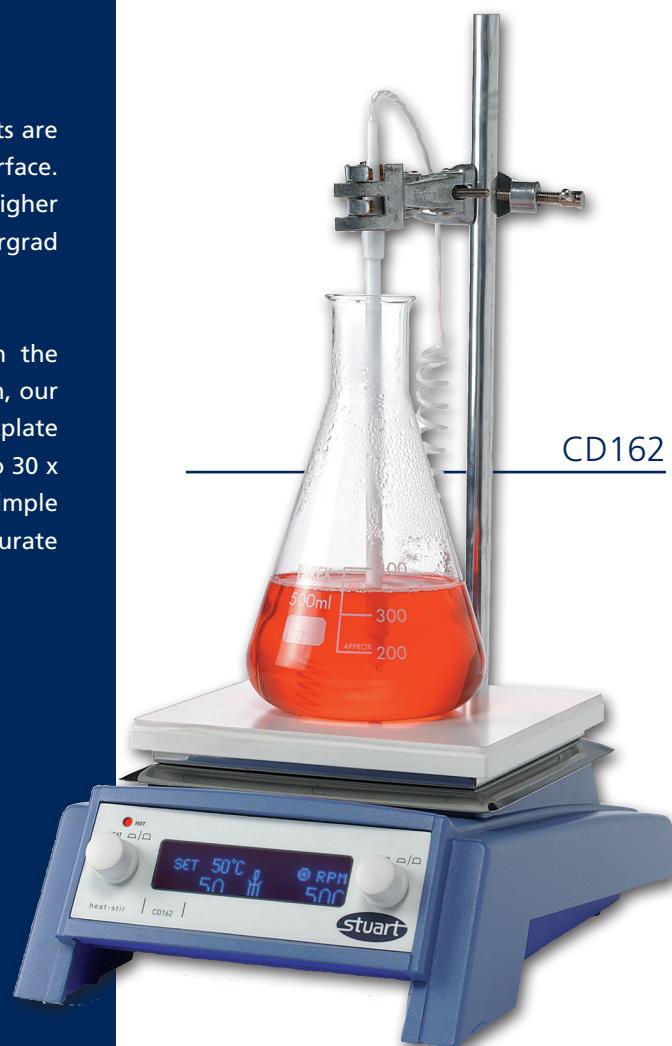
Our CR300 offers infra red heating as an alternative to the traditional resistance element, the advantage of IR is that the heat acts directly upon the sample. Allowing for the fastest heat up times and the most accurate temperature control.

## Hotplate Stirrers

Hotplate stirrers are ideal for making solutions, combining the heat with the action of a magnetic stirrer. As with the hotplates most units are available with either a robust silicon metal alloy or ceramic surface, with the Undergrad units adding a ceramic coated metal surface. The Stuart® hotplate stirrers are also offered in the Standard 15 x 15cm and 30 x 30cm sizes. As with the other units digital and analogue models are generally available, and additionally the SCT1 temperature controller is compatible with the Undergrad units for accurate sample temperature control.

## Stirrers

All Stuart® stirrers use powerful Neodymium magnets to offer the strongest coupling to the stirrer bar and minimise decoupling. Stuart hotplate stirrers are available in 15 x 15cm and 30 x 30cm. With the addition of the three position unit, the SB161-3 with individual speed control for up to three flasks. Additionally the SM27 is available for field applications and can be powered by standard "D" type batteries.



CD162



UC152