

## TS-14S Hotplate Stirrers (Advanced)

Manufacturer:

SKU#: 8194-10-0805

Digital heating and stirring control with high advanced features such as auto-tuning and various control modes.



### Product Description

**Operating Features** Feedback control allows constant stirring speed. Fast and precise stirring operations are enabled by BLDC motor and special magnet with extremely strong magnetic coupling power. Smooth-start mechanism provides virtually no decoupling of stir bars even with viscous media. Instant halt of the stirring operation. Microprocessor PID temperature control. Precise temperature is set by digital display and optimum heating level is adjustable. Auto-tuning and temperature calibration functions. Multi-functional temperature control modes. (Optimal Mode / Fast Mode / Slow Mode / User Mode / Point Mode) Two user-selectable timer activation modes. Hot Top warning Indicator, built in thermal shutdown, current limit protection. Upper and lower temperature limit setting for users convenience and safety. Separate operation RUN/STOP button.

**Constructional Features** Integrated design of the heater and the top plate provides exceptional heat transfer rate and quick heat up capability. The provided temperature probe detects the actual temperature of media in real time. (PT100, Max. 250 , SN-8-4 connector sensor)

### TS-14S Hotplate Stirrers (Advanced) Specification

| Model                                  | TS-14S                            | TS-17S                  | TS-18Q              |
|--|-----------------------------------|-------------------------|---------------------|
| Technical Data                         | Heating                           | Temperature Range ( / ) | Max. 350 / 662      |
| Control                                | Feedback Control with PID         |                         |                     |
| Display                                | LED digital (0.1 resolution)      |                         |                     |
| Heating Power (W)                      | 600                               | 800                     |                     |
| Stirring                               | Speed Range (RPM)                 | 30 to 2,000             |                     |
| Capacity (L / cu ft, H2O)              | 20 / 0.71                         |                         |                     |
| Magnetic Bar, Max.<br>( xL, mm / Inch) | 8 x 40 / 0.31 x 1.57              |                         |                     |
| Safety                                 | Hot Top Indicator ( / )           | Warning lamp (50 / 122) |                     |
| Over Temp.                             | Top plate / Main body / PCB       |                         |                     |
| Over Current                           | Current limit protection          |                         |                     |
| Motor                                  | BLDC motor                        |                         |                     |
| Timer                                  | 2 type, 1min. to 99 hours 59 min. |                         |                     |
| Load, Max (kg / lbs)                   | 25 / 55.1                         |                         |                     |
| General Data                           | Top plate                         | Shape                   | Round Type          |
| Material                               | Ceramic coated aluminum           |                         |                     |
| Dimension                              | 140 / 5.51                        | 170 / 6.69              | 180x180 / 7.08x7.08 |

|   |                 |                 |                              |
|---|-----------------|-----------------|------------------------------|
| ( or WxD, mm / Inch)                        |                 |                 |                              |
| Body  | Material        | Aluminum        |                              |
| Dimension                                   | 161x290x100 /   | 191x330x101 /   | 209x326x102 / 8.22x12.83x4.0 |
| (WxDxH, mm / Inch)                          | 6.34x11.42x3.94 | 7.52x12.99x3.98 |                              |
| Net Weight (kg / lbs)                       | 2.8 / 6.17      | 3.5 / 7.72      | 3.8 / 8.37                   |
| Electrical Requirements<br>(230V,50Hz/60Hz) | 3.0 A           | 4.0 A           |                              |
| Cat. No.                                    | AAH34415K       | AAH34425K       | AAH34435K                    |
| Electrical Requirements<br>(120V,60Hz)      | 5.0 A           | 6.7 A           |                              |
| Cat. No.                                    | AAH34413U       | AAH34423U       | AAH34433U                    |

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