

# MODEL 2500 RTD

*The Distek Model 2500 RTD Dissolution System offers great flexibility and configurability. It can be configured as USP Apparatus 1, 2, 5 and 6 plus intrinsic dissolution. The extensive users, method and reporting storage capabilities are enabled by a brilliant touch screen. Patent pending wireless temperature sensors continuously monitor and display the in-vessel temperature for each vessel. Unparalleled control of the instrument plus automatic storage of component serial numbers and automatic qualification reminders make the Model 2500 RTD robust and reliable enough for QC applications yet flexible enough for R&D use.*

- **WIRELESS IN-SHAFT TEMPERATURE SENSORS**

"Patent Pending" wireless temperature sensors control and monitor the temperature.

- Continuously monitor, display and record the in-vessel temperature for each vessel
- Ensure and document temperature compliance throughout the entire dissolution test
- Eliminate additional labor to measure actual temperature in vessels

- **VOLUME FLEXIBILITY**

Accommodates up to 8 vessels ranging in size from 100 mL (utilizing Distek's small volume conversion kit) to 1L, allowing the user to run a diverse range of tests.

- **SELF-PRIMING CIRCULATOR / HEATER**

The self-priming design and precise microprocessor control allow for improved temperature uniformity and reduced heating times. The low-profile design allows the circulator to be stowed behind the bath, requiring no additional bench space.

- **ELECTRONIC QUALIFICATION GUIDANCE**

Settable automatic electronic instrument requalification reminders eliminate missed validation dates and ensures continuous instrument uptime.

- **COLOR TOUCH SCREEN DISPLAY**

The icon driven user interface lowers overall cost by reducing training time and user errors while maximizing productivity and command of the dissolution test.

- **QUICK CHANGE PADDLES AND BASKETS**

Interchangeable stirring elements coupled with the automatic height adjustment provide a fast transition between Apparatus 1 and 2 without having to remove the shaft.

- **AUTOMATIC HEIGHT ADJUSTMENT**

Setting the height is done through a one-time adjustment and utilization of the interchangeable paddles and baskets

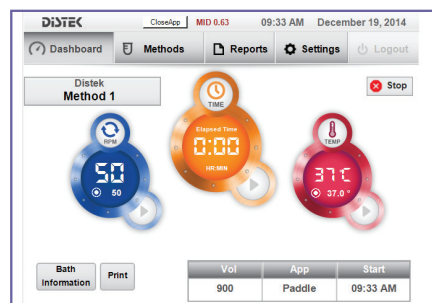
- **WAKE UP AND SLEEP MODE**

Programmable wake up and sleep modes allow the user to schedule thermocirculator start up and shutdown times to save time and conserve energy.

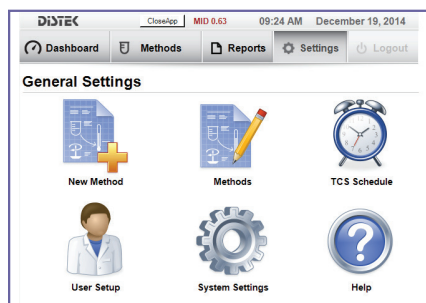


## SPECIFICATIONS

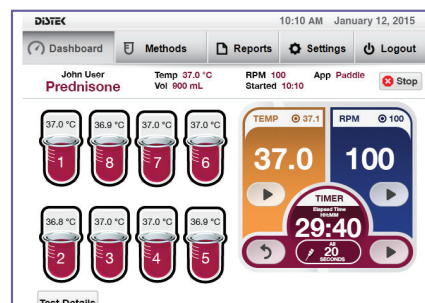
|                                   |   |
|-----------------------------------|---|
| <b>Dissolution Vessels</b>        | Six Vessels Standard (7 or 8 Optional)  |
| <b>Volume</b>                     | 25 - 1000 mL (Volumes below 500 mL Require Low Volume Kit)  |
| <b>Water Bath</b>                 | One Piece Molded Acrylic  |
| <b>RPM Control Range</b>          | 25 - 300 RPM, Digitally Controlled, Closed Loop   |
| <b>RPM Resolution</b>             | 0.1 RPM   |
| <b>RPM Accuracy</b>               | ±1 RPM up to 100 RPM and ±1% >100 RPM   |
| <b>Motor</b>                      | High Torque, Permanent Magnet   |
| <b>Vessel Temperature Control</b> | Ambient to 55°C, TCS-0500 Thermocirculator  |
| <b>Temperature Resolution</b>     | 0.01°C  |
| <b>Temperature Accuracy</b>       | ±0.25°C   |
| <b>Shaft Wobble</b>               | Less than 0.010" / 0.254 mm (Total Indicator Runout)  |
| <b>Lab Temperature Min/Max</b>    | 20°C / 25°C   |
| <b>Lab Humidity Min/Max</b>       | 20% / 80% Relative Humidity   |
| <b>Display</b>                    | 5.7" Color Touch Screen   |
| <b>User Management</b>            | Manage up to 50 Users with Multiple Access Levels   |
| <b>Program Modes</b>              | <ul style="list-style-type: none"> <li>• Manual</li> <li>• Automatic (Up to 100 Pre-Programmed Methods)</li> <li>• Distek EVO 4300, Eclipse 5300, Opt-Diss 405, Opt-Diss 410</li> </ul> |
| <b>Interface Ports</b>            | USB, Ethernet, RS-232, RS-485   |
| <b>Construction Materials</b>     | Cast Aluminum, Stainless Steel, Engineered Plastic  |
| <b>Dimensions</b>                 | 27.5" (w) x 38.5" (h) x 19.5" (d) / (70 cm x 98 cm x 50 cm)<br>TCS: 11.5" (w) x 8.5" (h) x 7" (d) / (29 cm x 22 cm x 18 cm)   |
| <b>Weight</b>                     | 80 lbs. / (36 kg)<br>TCS: 7 lbs. / (3 kg)   |
| <b>Electrical Power</b>           | 115V ± 15V 50/60 Hz 10A or 230V ± 15V 50/60 Hz 6A (Operating Voltage Pre-Set at Factory)<br>TCS: 115V ± 15V 50/60 Hz 10A or 230V ± 15V 50/60 Hz 7A                                      |



**Dashboard screen when wireless in-shaft temperature sensors are Disabled**



**General Settings screen for both Enabled & Disabled in-shaft temperature sensors**



**Dashboard screen when wireless in-shaft temperature sensors are Enabled**