

## Dissolution Media Preparation and Delivery Station

EFFICIENT · REPRODUCIBLE · SAFE



### IMPORTANCE OF MEDIA PREPERATION

The correct and reproducible media preparation for dissolution is an important part of tablet testing in the pharmaceutical industry due to false absorbance readings caused by wrong or not repeatable media volumes and by bubbles of dissolved gases in the vessels. The reproducible media preparation and dosing into the vessels in combination with a good and compliant documentation is a time consuming process, if done manually. Automated heating, degassing, mixing and dosing can help a lot ensuring compliance with USP and FDA requirements, as well as cost-effectiveness.

### RIGGTEK MEDIA PREPERATION „DissoPrep“

The DissoPrep media preparation unit is an automated, compact system for preparing and gravimetrically dispensing the preheated, mixed, degassed dissolution media required for accurate tablet dissolution testing. Operating principle is filtering, heating, and stirring under vacuum, recommended by the USP and FDA. It prepares fresh 8 litres of highly degassed dissolution media in less than 15 minutes. This fast preparation time, in combination with rapid dispensing increases the amount of dissolution tests per day, compared to manual preparation.

### „DissoPrep“ SMART FEATURES



All these specifications and features have one target – MAKE YOUR EVERYDAY WORK EASIER. And they ensure, that the „DissoPrep“ is your ideal partner to reduce your labor cost and working time to prepare degassed and heated media for your dissolution tester.

Introducing the DissoPrep: Elevate your media preparation with unparalleled reproducibility and 21 CFR Part 11 compliance. Crafted with German precision and sustainable engineering, it embodies our commitment to excellence. Experience the „Made in Germany“ advantage in every batch.



|  | DissoPrep X8   | DissoPrep X15  |
|--|--|--|
| STORAGE VOLUME                               | 8,000g net, apportionable from<br>1 - 36 vessels, 11,000g gross  | 15,000g net, apportionable from<br>1 - 72 vessels, 16,000g gross |
| INPUT CHANNELS                               | 2 Inputs (water/premixed media line, additive line); Input pressure max. 0.1 bar)  |  |
| INPUT FILTER                                 | PP Cartridge Filter 20 $\mu$   |  |
| MAX. ACID CONCENTRATION                      | 10% acid at the additive input line, 0.5% acid or SDS/SLS $\leq$ 2%<br>at the medium input/output line   |  |
| OUTPUT CHANNEL                               | 1 dispense output<br>Optional: Remote Control Nozzle   |  |
| DOSING PRINCIPLE                             | Gravimetric (internal)   |  |
| CALIBRATION                                  | Manual/Automated calibration capabilities with Protocol consolidation<br>of the calibration instruments  |  |
| PREFILL VOLUME                               | 1,500g (necessary for prefilling the tank)   | 1,800g (necessary for prefilling the tank)                       |
| PREHEATING                                   | till 45 °C (setting in 0.1 °C digits) max. 25 °C temperature difference  |  |
| TEMPERATURE ACCURACY                         | <1.5°C at 32°C to 37°C and >5,000g, monitored, inlet temperatur must be > 20°C   |  |
| MIXING UNIT                                  | Magnetic Stirrer, functionally monitored   |  |
| ADDITIVE MIXING                              | 1:3 - 1:100 (33% to 1%) (setting in 0.1g digits) Max. 1000g Additive per vessel  |  |
| MIXING ACCURACY                              | <0.5% of ratio 1:3 - 1:100, typ. 0.2%, monitored   |  |
| DEGASSING                                    | Vacuum typ. < 100mbar pressure absolute, monitored<br><5.5 ppm, typ. 3.5 - 4.5 ppm   |  |
| THROUGHPUT                                   | 24 - 32 l/h  | 26 - 35 l/h  |
| DOSING RATE                                  | 2,000mL/min  |  |
| DOSING VOLUME                                | 50g - 8,000g (setting in 1g digits)  | 50g - 15,000g (setting in 1g digits)                             |
| DOSING ACCURACY                              | <1% at 500 - 8,000g, typ. 2g, monitored  | <1% at 500 - 15,000g, typ. 3g, monitored                         |
| AUTOWASH                                     | volume and number of cycles selectable 1 cycle, 3,000g, typ. 13 - 14 min   |  |
| INTERFACES                                   | USB, LAN, RS232  |  |
| PRINTER                                      | USB, LAN<br>PCL-5 and PCL-6, ASCII Font  |  |
| USER MANGEMENT                               | Manage unlimited number of users with individual user permissions, PIN-Login optional  |  |
| STORAGE                                      | > 100.000 Methods and > 100.000 Reports  |  |
| OPTIONAL PACKAGES                            | CFR PACKAGE: with multiple settings, electronic signature, comment on Audit Trail,<br>etc. (for CFR comliant working)<br>BACKUP PACKAGE: for fully manual or automatic backup to USB or FTP-server |  |
| REMOTE ADMINISTRATION /<br>BROWSER INTERFACE | Effortless management of methods, reports, users, roles, audit trails, and system settings<br>using the latest versions of Microsoft Edge®, Google Chrome®, or equivalent browsers.                |  |
| DIMENSIONS                                   | W 30cm x D 60cm x H 65cm   |  |
| WEIGHT                                       | 26kg (net)   | 28kg (net)   |
| VOLTAGE SUPPLY AND<br>POWER RATINGS          | 230V, 50/60Hz, 1,85kW<br>115V, 50/60Hz, 1,85kW<br>100V, 50/60Hz, 1,50kW  |  |
| ENVIRONMATENTAL                              | 18 to 30°C (Minimum 10°C below the test temperature),  |  |

\* specifications are subject of change

