



**ATTRIBUTES**

Zymark® TPW3 and APW3 include unique features and capabilities that provide precise and productive unattended sample preparation.

| <b>CAPACITY AND FLEXIBILITY</b>   | <b>APW3</b> | <b>TPW3</b> |
|---|-------------|-------------|
| <i>*Up to 300 samples can run unattended using single tube methods</i>  | X           |             |
| <i>*150 single step dilutions can be performed</i>  | X           |             |
| *Up to 100 samples can run unattended using a single step dilution  |             | X           |
| <i>*Depending upon method settings, a very large number of methods may be linked together</i>                                   | X           | X           |
| <i>*Depending upon method settings, a very large number of methods may be overlapped</i>  | X           | X           |
| *Up to nine solvents or reagents are available  | X           |             |
| *Up to five solvents or reagents are available  |             | X           |
| <i>*Abbreviated methods may be used to evaluate functionality</i>   | X           | X           |
| <i>*Variables can be easily modified for method developers</i>  | X           | X           |
| <b>DISPERSIONS AND EXTRACTION</b>   |             |             |
| *Disperses samples in vessel with volumes from 50-500mL   |             | X           |
| *High shear homogenizer for fast dispersion and extraction  |             | X           |
| *Disperses samples in test tubes with volumes from 1-8 mL in 16X100 mm tubes  | X           |             |
| <i>*Redesigned optional sonicating probe to facilitate rapid solubility or extraction</i>                                       | X           |             |
| <i>*Infrared temperature measurement for optional sonicating probe</i>  | X           |             |
| *Filter dispersion with a wide variety of Pall Automation Certified filters   | X           | X           |
| *Mixing with reciprocating vortexer   | X           | X           |
| <b>WEIGHING</b>   |             |             |
| *Gravimetric confirmation assures dispenses meet USP and ASTM requirements for volumetric measurement                           | X           | X           |
| *Utilizes a dual range four to five-place balance to weigh samples, add reagents and carry out dilutions                        | X           | X           |
| *Uses a three place balance to weigh dispersant solvent for high shear mixing   |             | X           |
| <i>*Gravimetric assist dispensing may be de-selected to allow for faster operation when accuracy is less critical</i>           | X           | X           |
| *Gravimetric traceability throughout the sample prep provides a record for OOS investigations and assurance of sample integrity | X           | X           |
| <b>DILUTION</b>   |             |             |
| *Dilutions ratios as high as 1:10,000 can be performed  | X           | X           |
| *Dilution step details are automatically suggested  | X           | X           |
| <i>*Two single-step dilutions can be performed within a method</i>  | X           | X           |
| <i>*Overlapping methods allows serial dilutions to be performed</i>   | X           | X           |
| <b>FINISH</b>   |             |             |
| *HPLC injection is enabled with an on board Rheodyne injector   | X           | X           |
| <i>*Integrated interface for Waters Empower</i>   | X           | X           |
| <i>*Versatile control of standards for bracketing</i>   | X           | X           |
| <i>*Multiple injections may be performed within a method</i>  | X           | X           |
| *On-line UV/VIS detection via contact closure   | X           | X           |
| *Samples may be collected in a variety of formats for off line analysis   | X           | X           |
| *Flexible cleaning capabilities   | X           | X           |
| <b>SOFTWARE</b>   |             |             |
| <i>*Provided with SQL Server Developer Edition</i>  |             |             |
| <i>*SQL Enterprise Edition Database compatible</i>  | X           | X           |
| *21CFR11 Compliant  | X           | X           |
| *Easy to use step by step LUO (Laboratory Unit Operation)   | X           | X           |
| <i>*Software makes all variables available for each LUO for complete control</i>  | X           | X           |
| <i>*Security is customer IT configurable to meet your corporate policy</i>  | X           | X           |
| <i>*Customer IT configurable for LIMS</i>   | X           | X           |
| <i>*XML, Excel, PDF output supported</i>  | X           | X           |
| <i>*Diagnostics are captured in the compliant database</i>  | X           | X           |
| <i>*Fault tolerant networking to shared SQL database</i>  | X           | X           |
| <b>HARDWARE</b>   |             |             |
| <i>*All new control architecture for supportability and reliability</i>   | X           | X           |
| <i>*Positive encoder feedback for precise device control</i>  | X           | X           |
| <i>*Multipoint position referencing</i>   | X           | X           |
| <i>*Position and click teaching</i>   | X           | X           |
| <i>*Indicates a NEW feature</i>   |             |             |

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