

## AS-3012 BET Surface Area Analyzer Features

### ◇ Combination of fully-enclosed modules with industrial automation control

AS-3012 BET Surface Area Analyzer is designed and installed on basis of fully-enclosed modular design. It is divided into modules of control system, vacuum air path system and module of data analysis, acquisition, storage and transmit. Each module contributes to the stability of unit. In case the experimental conditions are ready, operator simply sets the parameters and click Start. The following procedures are automatically done without human control or monitoring. Such way minimize human disturbance and error rate. At same time it maximize the laboratory work efficiency and test accuracy.

### ◇ Imported solenoid valve and sensor work with ingenious control systems

Programmable control system and imported solenoid valve from Japan contribute to low heat, excellent anti-interference ability, high stability and long working life. Sensor of stepping control system for liquid nitrogen ensures the constant position of liquid level to sample tube, as a result eliminates measurement error due to introduction of dead volume change. High-precision pressure sensor improves the accuracy to the 0.15% of the readings, much better than the 0.15% accuracy full scale (FS) sensors. Unique system for gas inlet and control effectively prevents the splash during sample vacuum and air intake. It also prevents the pipeline from dirty, the matter of the sample from loss and data from deviation due to dramatic pressure change. Integrated cartridge pipeline reduces leakage, dead air space and improve the ultimate vacuum. Special gas closed-system made of stainless steel ensures the tightness of the pipeline and prevents the sample from contamination.

### ◇ Powerful software is developed by renowned professionals.

USB connection between the computer and the unit makes for fast communication. Adoption of multiple theoretical models in the analysis gives users a complete analysis on materials. Automatically saved test data contributes to easy management and query. Result analysis report is automatically printed out after test. In case of power failure, test can be continued after re-power to save test time.

### ◇ Superior design, precise mechanical processing and high quality accessories.

Outer case is designed in line with the modern requirement and corrosion is prevented by high quality plastic coating. Robust mechanical parts give the unit a stronger bone and hence a longer working life. Selected valves and tubes make for stability and reliability of the unit. Vacuum pump is imported from USA, it gives the users a higher vacuum limit, effective oil return prevention as well as a smooth and safe operation.

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