SPAN

AUTOMATION

BOMB CALORIMETER

Model : SABC-292

SPAN make Bomb Calorimeter Comparison Sheet

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Feature	Our Product	Other company Product
Display	Graphic LCD with high resolution	Standard LCD or LED display
Printer	In-built thermal printer (compact & efficient)	External printer or no printer
Control System	Microprocessor-based with automated features	Manual control or basic electronic control
Build Quality	High-quality, corrosion-resistant materials, laser-cut body parts, CNC-machined mechanical parts	Standard materials, potentially prone to wear
Warranty	2 years warranty with full coverage	1 year warranty, limited coverage
Spare Parts	Extra spares included for easy maintenance	Limited or no spares included
Keypad	16-key membrane keypad with intuitive layout	10-key or less, more difficult navigation
Power On/Off	Soft power on/off switch with no wear	Mechanical switch prone to wear over time
USB Interface	Yes, USB interface for easy data transfer & export	No USB interface or outdated connection
Data Logging and Transfer	Seamless integration with software for automatic data logging and transfer	Requires additional software or manual data entry
Automatic Calorific Calculation	Automatic calorific value calculation for ease	Manual calorific calculation or less automation
PDF Report Generation	Automated PDF report generation from logged data	Requires additional software or manual report generation
Real-Time Clock	Built-in real-time clock for accurate timestamping	No real-time clock, manual time input required
Calibration & Accuracy	Advanced, automatic calibration for high precision	Manual calibration, potentially less accurate
Software Compatibility	Compatible with modern software for analysis and reporting	Limited or outdated software compatibility
Safety Features	Advanced safety mechanisms (e.g., pressure safety, auto-shutdown)	Basic safety features or no advanced protections
User Interface	Modern and intuitive touchscreen or keypad interface	Basic interface with fewer control options
Energy Efficiency	Low power consumption with energy-saving features	Higher power consumption
Price Range	Competitive pricing for premium features	Cheaper, but may lack essential features
Customer Support	24/7 customer support and dedicated service team	Limited customer support or no dedicated support

Key Points for our Product:

1. **Advanced Display & Printing**: The high-resolution graphic LCD and built-in thermal printer offer superior functionality, displaying data clearly and enabling immediate printouts for documentation, reducing dependency on additional devices.
2. **Precision Manufacturing**:
    - **Laser-Cut Body Parts**: Ensures a perfect fit and high precision for all components, increasing durability and structural integrity.
    - **CNC-Machined Mechanical Parts**: Adds precision to the moving and functional components, reducing wear and tear for a longer lifespan.
    - **Automatic Pick & Place for Electronics**: Ensures accurate and reliable placement of components on the electronic board, improving the overall quality of the calorimeter.
3. **Microprocessor Control**: With automatic, precise control mechanisms, our product offers easier calibration and higher accuracy in the measurements, eliminating human error and improving repeatability.
4. **USB & Data Integration**: The USB interface provides easy data transfer for detailed analysis, while modern software compatibility ensures seamless integration with other lab equipment, making data analysis more efficient.
5. **Automatic Calorific Calculation**: The calorific value is calculated automatically by the software, saving time and eliminating the need for manual calculations.
6. **PDF Report Generation**: Generates professional PDF reports directly from the software, streamlining the process of documenting results and improving efficiency.
7. **Real-Time Clock**: The built-in real-time clock ensures accurate timestamping of each test, making it easier to track and report results, especially for long-term or complex experiments.
8. **Energy Efficiency**: The low-power consumption design contributes to energy savings, which is ideal for labs that run multiple tests per day, making it both cost-effective and eco-friendly.
9. **Ease of Maintenance & Self-Diagnostics**: The bomb calorimeter is equipped with a self-diagnostic system that simplifies maintenance. The inclusion of extra spare parts also reduces downtime and service costs.
10. **Safety First**: Enhanced safety features such as automatic shutdowns and pressure valve offer an additional layer of protection, giving our customer confidence that the system is safe and reliable.
11. **Comprehensive Warranty & Support**: The **2-year warranty** and 24/7 customer support ensure that your customer will always have access to assistance when needed, unlike the competitor's shorter or more restrictive warranty period.
12. **User-Friendly Interface**: Whether using the 16-key keypad or touchscreen, your bomb calorimeter's intuitive interface makes operation simple for new and experienced users alike. The additional keys offer more control options, enhancing versatility.
13. **Superior Accuracy & Precision**: With an advanced calibration system and extended temperature range, your product provides reliable, precise results across a broader spectrum, perfect for high-level research and industrial applications.
14. **Advanced Manufacturing Processes**: The use of state-of-the-art manufacturing techniques ensures that every part is made to the highest standards, resulting in a more durable and precise calorimeter.