Monitoring and Control System

BSI stands apart in our ability to offer a closed loop control scheme. Upon exposure to a programmed light intensity, the sensor feedback is sent to the panel with embedded control. The control regulates the dimming boards to produce a light level equal to the control signal. The benefits are a steady light level through varying reflective conditions and lamp degradation. You will not only be able to read and record the output level of the light bank, but you will also be assured that the level will remain constant through each cycle with no manual adjustments.

Wide Range Light Level Adjustment

Our light banks feature a dimming system down to approximately 15% of full output. This allows you to conduct comparative studies at lower light intensities. Lower level light studies can be equipped with optional low light level filters.

Removable Light Banks & Sensors

Our stainless steel light banks are constructed for easy removal, ballot servicing, and for bulb change-outs. The banks feature a special hampering acrylic barrier to prevent bulb breakage when handling the lamp housing. The light banks also feature quick removal. By removing the light banks and sensors, you can run extended temperature ranges typical of other ES2000 models. Consult ES for more information.

Factory-Documented Performance

BSI performs standard calibrations/mapping and maintains all documentation of the lighting systems prior to shipment. You can feel confident in knowing that your lighting system is calibrated with NIST-traceable instrumentation and that all documentation of the lighting systems prior to shipment.

These features make our light chamber the perfect solution for your testing requirements.

Dual Source Lamp Bank Option

We can provide a unique system with two independently controlled lamp sources in one bank. Product can be loaded on one shelf and receive a complete ES2000 cycle. The dual source systems can be accommodated to suit your specific testing needs; you may order either one, two, or three shelves as a dual source. These banks provide you with great flexibility and less product rotation time.

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Removable Light Banks & Sensors

Our stainless steel light banks are constructed for easy removal, ballot servicing, and for bulb change-outs. The banks feature a special hampering acrylic barrier to prevent bulb breakage when handling the lamp housing. The light banks also feature quick removal. By removing the light banks and sensors, you can run extended temperature ranges typical of other ES2000 models. Consult ES for more information.

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BES offers illuminated photostability chambers designed for high-demand testing, biological growth, aging or conditioning.

**Lighting System**

BES upright floor models provide up to 12 simultaneous light studies with independent on/off control. Light mounted controls allow you to select, monitor, and control the light distribution. The lighting system features a temperature control to within ±0.2°C. A wide selection of bulbs are provided to customize the lighting environment. The bulbs include:
- Cool white, near-ultraviolet, full spectrum, and dual source cool white/UV.

**Conditioning System**

BES precise air control system ensures conditioned air is distributed through the conditioning components within the enclosed chamber. Our double-wall chamber construction provides you with years of trouble-free performance and rigidity. The door is also completely foamed for thermal added heat loads.

**Proportional Refrigeration System**

BES incorporates a proportional liquid/hot gas refrigeration design to maintain close tolerance temperature and rapid acceleration to your specifications.

**Alarm/Monitoring System**

Our control panel features standard high/low visual and audible alarms as well as a power failure alarm. All controls are mounted on a hinged access panel for ease of maintenance. A non-volatile memory retains your setpoints for re-start in the event of a power failure. All controls are mounted on a hinged access panel for ease of maintenance. A non-volatile memory retains your setpoints for re-start in the event of a power failure. All controls are mounted on a hinged access panel for ease of maintenance.

**Temperatures Control System**

BES user-friendly microprocessor-based control system incorporates a PID controller with a direct digital setpoint display. This feature allows you to set and monitor all parameters (temperature, humidity, light). Data communication capabilities are available for remote computer monitoring and control of all parameters (temperature, humidity, light).

**Options & Accessories**

- **Chamber Recorder**
  - Optional chamber recorder provides you a permanent record of chamber conditions. The chamber recorder can accommodate up to 10 channels of temperature, humidity, and light. Additional recording systems can be provided upon request.

- **Single Chamber Water System**
  - A water purification system is available to protect your photostability chamber from deposits build-up from untreated tap water. A water purification system is available to protect your photostability chamber from deposit build-up from untreated tap water.

- **Combustion Pump**
  - A variable speed, exhaust duty pump is available to move exhaust air in tandem with a remote exhaust air manifold.

**Photostability Chambers as on discussion**

Our Sales Department is dedicated to helping you select the appropriate Photostability Chamber and Photostability System. We provide you with assurance of our products, an excellent service department, and the highest quality assurance. An optimal five-year warranty is also available.

**Options & Accessories**  

- **Lighting System**
  - Time (individually adjusted for each parameter).

- **Temperature/Light Control**
  - Standard N.O./N.C. dry alarm contact for remote monitoring of each parameter.

- **Data Communication**
  - A water purification system is available to protect your photostability chamber from deposit build-up from untreated tap water. A water purification system is available to protect your photostability chamber from deposit build-up from untreated tap water.

- **Combustion Pump**
  - A variable speed, exhaust duty pump is available to move exhaust air in tandem with a remote exhaust air manifold.