

SmartNotes

What is the simplest way to operate your biological safety cabinet (BSC)?

Q
A

The Thermo Scientific™ Herasafe™ 2030i Biological Safety Cabinet (BSC) uses its programmable interface to provide a customized on/off button, called “AutoStart”/“AutoStop”. With a single button, users have the ability to set up their BSC to energize the fans, raise the window and turn on the lights.

AutoStop features a one button shut down that can be customized to include pre-set UV disinfection cycles and continued operation of fans in stand-by mode. For users with no UV disinfection who turn the BSC completely off at the end of the day, AutoStop will close the window, turn out the light and de-energize the fans. Other users can use AutoStop to close the window, turn out the white light, turn on the UV disinfection cycle for a preset time, and at the end of that time either de-energize the fans or leave them running in stand-by mode. For most users, they can control all desired functions of the BSC in a normal day with just one button.



BSC Controls

The beginning

Early BSC models just had three mechanical on/off switches; one for the fans, one for the lights, and one for the internal electrical receptacles. Sometimes the light switch was a double throw switch where if you pushed it down the white lights would come on, if you pushed it up the UV lamp would come on, and the middle was “off”.

Today

Mechanical switches were replaced by membrane switches due to the increased need for timed UV disinfection cycles, motorized windows and acknowledged audible alarms. With these added complexities, more BSCs are becoming equipped with graphical displays and touch screens. However, many of these features are just graphical versions of the old switched-based controls.

Thermo Scientific Herasafe 2030i

While BSC controls and displays have become more sophisticated, the fundamental use for the majority of operators is to simply activate the BSC at the beginning of the day and de-activate it at the end. Some operators and applications may require a more complex activation and deactivation process, including disinfection, stand-by modes and even energizing or de-energizing the BSC’s internal electrical receptacles. Herasafe 2030i BSC’s intelligent interface facilitates detailed control and monitors the cabinets’ features and performance, while providing a customizable one step activation/deactivation.

Summary

The revolutionary interface used by the Herasafe 2030i BSC enables controls that are simpler than traditional switch controlled units, while being the most flexible and powerful BSC interface to date.



Figure 1: Herasafe 2030i BSC display in Auto Start/Stop settings mode



Figure 2: Herasafe 2030i BSC display in Main Operation mode



Figure 3: Herasafe 2030i BSC display in Not Ready mode

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