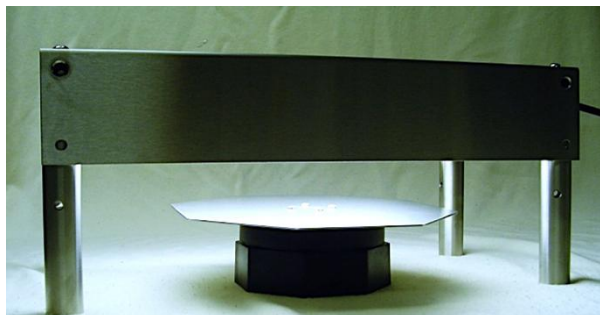


Luzchem Exposure Panels EXPO-01

Luzchem's exposure panels, EXPO-01, are a cost effective and flexible solution for ultraviolet and visible irradiation, specially designed for customers whose requirements are not met by Luzchem's wide range of photoreactors. These ultraviolet building blocks offer a new dimension in ultraviolet and visible exposure tools. A safe exhaust, such as installing the panel(s) in a fumehood, is only needed when using UVC (254 nm) lamps. One set of safety goggles is supplied. A variety of accessories and hardware packages are available.



Expo panel shown here with portable turntable, four 6" posts, and LZC-VIS lamps (accessories sold separately)

Configuration:



The EXPO-01 holds five 8-Watt fluorescent lamps (sold separately), which are controlled by a single switch. EXPO panels can be mounted on posts (sold separately) for top irradiation, on its side for side irradiation, or combined with additional panels or hardware (sold separately) to form a variety of configurations.

Unit Specifications:

Dimensions:	<i>External:</i> 8" wide, 16" long and 3" thick <i>Emissive area:</i> approximately 7" x 12"	(20 x 40 x 8 cm)
Weight:	6.5 lbs. / 3 kg	
Power Rating:	110/220 VAC, 50/60 Hz cycle, 1 Amp	
Housing Material:	<i>External:</i> Stainless Steel <i>Internal (behind lamps):</i> Reflective Aluminum Alloy	
Ambient Temperature:	Must be between 10 °C and 35 °C	
Panel Temperature:	Panel has safety shut-off which will cut power if temperature exceeds 60 C	
Humidity:	Must be between 0% and 95% (non-condensing)	

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Lamps:

All lamps and accessories for the EXPO-01 are sold separately. All Luzchem 8-watt fluorescent lamps can be used, including UVA, UVB, UVC, visible and 420 nm, as well as Visible lamps combined with 540 nm and 600 nm high pass filters. (UVC lamps require an exhaust as ozone is created). See separate sheet for the specifications for available lamps. Ultraviolet radiation can cause skin and eye damage. Proper care must be exercised to protect people from this radiation. Luzchem's UV-Shield is recommended for use with all Luzchem UV lamps.

Options Included:

Option	Specifications
ON/OFF switch	<ul style="list-style-type: none">• A single toggle switch controls all 5 lamps• Single 1-Amp fuse
Panel-to-Panel Power	<ul style="list-style-type: none">• Expo panels are built with a second power socket allowing user to "piggy-back" a second Expo panel off of the first (with panel-to-panel cable, sold separately)
Building cubes	<ul style="list-style-type: none">• Four cubes with 1/4"-20 tapped holes are included, allowing easy installation of posts (sold separately) or connection of multiple panels for various panel configurations.
UV protecting goggles	<ul style="list-style-type: none">• Yellow safety goggles, with 400 nm cut-off

Flexibility:

Expo panels allow virtually infinite design flexibility. You may just need one panel for ultraviolet curing applications, or to irradiate biological samples in Petri dishes. Alternatively, you may want to use multiple panels to expose a conveyor belt, or transform an incubator into a photoreactor, or refinish a separate room into an ultraviolet exposure room that meets your special needs. Each expo panel has building cubes in its four corners, with 1/4-20 threads. In addition, several mounting holes allow installation under counters, and easy interconnection of multiple panels in many geometries.

Accessories

Luzchem offers external shut down digital timers (LZC-TIM-E) designed to optimize exposure control, as well as acrylic UV-shielding panels and interconnection kits. The UV-Shield is recommended for use with any ultraviolet lamps. Photoreactor tools, such as power meters, spectroradiometers, merry-go-rounds, turntables and magnetic stirrers can also be used with expo panels.

Applications:

Applications include organic photochemistry, photobiology, photodegradation, photostability, photocatalysis, contact imaging, disinfection, bacterial sterilization, ultraviolet curing, accelerated aging, and many others.

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