

UV-5 and UV-10 Cure Systems

5 and 10" Lighthouse irradiators equipped with fully encased power supplies provide maximum focused energy and 1600 watts of power from a standard 110v outlet



UV-10 10" Non-Shuttered Lamp System & UV-5 5" Shuttered Lamp System

Producing 1600 watts of curing power from a standard 110v outlet, each Con-Trol-Cure® **UV-5 and UV-10 Curing System** incorporates an encased power supply and a fully focused Lighthouse irradiator to deliver the required UV cure energy for a variety of small area applications.

Patent-pending, fully focused geometry

Incorporating a $\frac{3}{4}$ reflector, dual end reflectors, plus reflectors mounted inside the shutters (where applicable), the Lighthouse produces 20% more cure energy than standard reflector designs. With the addition of a v-shaped reflector positioned directly above the lamp, energy is redirected around the quartz tube and to the $\frac{3}{4}$ reflector. Supported by a multi-rib network designed in CAD with a Light Ray tracing tool to ensure proper focus, the $\frac{3}{4}$ reflector gathers all available energy and directs it onto the substrate's surface for optimal performance. Field evaluations have indicated 20% additional cure energy is being received at the substrate surface as compared to competitive systems.

Unique air flow design maximizes lamp efficiency

By replacing the aluminum extrusion found in most UV lamp housings with the multi-rib network, the Lighthouse's air flow pattern permits unobstructed cooling throughout the housing. The Lighthouse's innovative v-shaped reflector is also supported in a manner to create an air channel along the inside of the reflector. As the air is directed along the reflector so as not to interfere with lamp performance, overall efficiency is maintained. Fan-blown air also flows along the outside of the reflector so both sides are cooled simultaneously.

In addition, since energy which accumulates around the quartz tube turns into unwanted infrared, the redirection of trapped energy by the v-shaped reflector further dissipates heat within the housing.

Versatile design

The Lighthouse's universal lamp holders feature a swivel clamping system which accepts any lamp of any manufacture - ceramic or metal end fitting. This system also permits adjustment of lamp focus to ensure that any lamp can be placed in exact focus for optimal performance.



10" Non-Shuttered & Shuttered Lighthouse

Easy maintenance

The Lighthouse's side panels, which secure the housing's reflector material in place, can be easily removed without tools. This allows yellowed, scratched or damaged reflector material to be removed and replaced in approximately 5 minutes. This quick changeover system minimizes downtime and encourages frequent replacement of reflector material so lamp efficiency is optimized. By maintaining optimum brilliance at all times, the operator can maximize performance by directing maximum lamp energy to the substrate surface.



1600 Watt Power Supply for UV-5 & UV-10 Cure Systems

24-HOUR PRODUCT SERVICES

Internet: www.uvprocess.com

E-mail: info@uvps.com

UVPS[®]
UV PROCESS SUPPLY, INC.

UV Process Supply • 1229 W. Cortland Street • Chicago, IL 60614 • 1-800-621-1296 • 1-773-248-0099 • Fax: 1-773-880-6647

©COPYRIGHT 2003 U. V. PROCESS SUPPLY, INC.

UV-5 and UV-10 Cure Systems

5 and 10" Lighthouse irradiators equipped with fully encased power supplies provide maximum focused energy and 1600 watts of power from a standard 110v outlet



UV-10 10" Non-Shuttered Lamp System & UV-5 5" Shuttered Lamp System

Also, as the Lighthouse's universal lamp holders accept any lamp and permit focus adjustment for any type of lamp, the operator can choose the lamp(s) which suits his application or purchasing requirements.

Quick and easy retrofit into any 3rd party production system

Designed as a universally retrofittable housing, each Lighthouse incorporates two parallel 1/4" channels into three sides of its external extrusion (accepting 1/4"-20 bolts) for universal mounting into any 3rd party production line.

Each power supply plugs directly into a standard 110v outlet for use anywhere in your production shop. Ideal for a variety of small field applications, the UV-5 and UV-10 are the most economical UV curing systems available today.

Specifications:

- Power: 110v, 17.5 amp service (grounded)
- Arc Length: 5 and 10" (adjustable)
- Lamp output: 5": 300W/in 10": 160W/in
- Controls: On/Off switch, ammeter, indicator lights, optional power high/low switch

Item No.

A012-019
A012-018
A012-024
A012-022

Description

UV-5 5" Shuttered Curing System (3/4 reflector)
UV-10 10" Shuttered Curing System (3/4 reflector)
UV-10 10" Unshuttered Curing System (3/4 reflector)
UV-10 10" Unshuttered Curing System (parabolic reflector)



Lighthouse Conveyorized UV Curing System

NEW!!! LIGHTHOUSE CONVEYORIZED CURING SYSTEMS

Designed to produce 1600 watts of UV curing power from a standard 110v outlet, the **Lighthouse Conveyorized UV Curing System** incorporates a 10" Lighthouse irradiator, an encased power supply, and a compact 12" wide conveyor to suit the needs of duplicators, small press operators and laboratories.

Incorporating a new 3/4 reflector design, the Lighthouse produces 20% more cure energy than standard reflector designs. With a v-shaped reflector positioned directly above the lamp, energy is redirected around the quartz tube to increase energy and reduce heat. The Lighthouse's air flow pattern permits unobstructed cooling on both sides of the reflector. As the air is directed along the reflector, lamp efficiency is maintained. The Lighthouse's universal lamp holders feature a swivel clamping and adjustable focus system which accepts any lamp of any manufacture - ceramic or metal end fitting - and of any diameter. The housing's side panels can be easily removed without tools for quick reflector replacement.

The **Lighthouse Conveyor** features a variable speed DC drive with maximum belt speed of 100 feet per minute. Features a heat-resistant mesh belt to withstand thermal build-up and degradation, speed and belt tension/tracking adjustment.

Item No.

A161-126

Description

Lighthouse 12" x 6' Conveyorized Curing System

24-HOUR PRODUCT SERVICES

Internet: www.uvprocess.com

E-mail: info@uvps.com

UVPS[®]
UV PROCESS SUPPLY, INC.

UV Process Supply • 1229 W. Cortland Street • Chicago, IL 60614 • 1-800-621-1296 • 1-773-248-0099 • Fax: 1-773-880-6647

©COPYRIGHT 2003 U. V. PROCESS SUPPLY, INC.