



LC6B with I300MB lamp installed*

Heraeus Noblelight LC6B & LC6B-2 Benchtop Conveyor

The LC6B/LC6B-2 Benchtop Conveyor is a UV curing unit that is suitable for laboratory and R&D applications. It can also be used in testing of adhesives, inks and coatings for qualification, cure response testing, or performance evaluation. It can handle a variety of substrates up to 190 mm (7.5 inches) wide with an effective UV width up to 152 mm (6 inches). The lightshield entry/exit doors are adjustable to accommodate differing part heights. The focus height (lamp to belt) can be adjusted to allow a part height maximum of 3 inches.

With the compact Heraeus Noblelight model F300S, LightHammer® 6 Mark II lamp system, Semray® UV4103-2S LED System and Altair 75 LED System, the LC6B/LC6B-2 offers an ideal curing system for small production parts.

LC6B – A unique and simple mechanism allows the lamp to be rotated and set to any angle to part travel, or raised and lowered to vary its distance from the part.

LC6B-2 – Only has vertical adjustment.

The LC6B and LC6B-2 use air flowing through the belt to provide cooling and to help keep small sheets or parts in place throughout the curing process. An internal exhaust blower assists with cooling. An external blower is required for specific configurations. The specially designed open-weave Kevlar® belt is Teflon®-coated for smooth performance, and treated to eliminate static charges. The unique seam design provides an essentially uninterrupted belt surface.

There is a choice of 4 models and speed ranges from 0.6 to 76 meters-per-minute (2.0 to 250 feet-per-minute).

A convenient lamp control switch is also located on the front panel, with a zero-speed sensor incorporated, to provide lamp control and protection for the belt.

*For more information about the lamp systems, refer to the F300S and LightHammer® 6 Mark II Sales Bulletins. Lamp requires: 200–240 V. Lamp system sold separately.

Specifications: LC6B & LC6B-2

Available Accessories: LED boot for Semray® UV4103-2S System; LED mounting support for Altair 75 LED; snap-in light shields; out feed knife; quartz air deflector; feed chute; external end reflectors; exhaust blower; exhaust duct transition; exhaust duct fitting.

Weight: Without lamp: 25 kg (55 lbs.).

Overall Length: 1,070 mm (42 in.).

Overall Width: 510 mm (20 in.).

Overall Height: Without lamp: 310 mm (12.2 in.); with lamp: 695 mm (27.4 in.).

Nominal Width: 152 mm (6 in.).

Microwave Lamp Position (using Microwave Boot):

LC6B: Rotatable, 360°; vertical adjustment from focus at belt surface to 76.2 mm (3.0 in.), beyond focus.

LC6B-2: Vertical adjustment only up to 76.2 mm (3.0 in.), beyond focus.

Lamp Types: Microwave: F300S, LH6 Mark II

LED: Altair 75, Semray® UV4103-2S

Exhaust Blower: Included – internal or external optional.†

Belt: Teflon®-coated 6.35 mm (.25 in.) weave Kevlar® fiber, carbon-impregnated, with conductive (anti-static) coating and unique fold-back loop seam, standard.

Available/Optional Belt Types: Open weave TFE/Kevlar® belt (standard); close weave TFE/glass belt; TFE/Kevlar® woven belt w/ solid center strip; stainless steel belt.

Direction of Belt Travel: Right-to-left, standard; opposite available.

Speed Indicator: LED Digital display in m/min. or ft./min.

Speed Ranges: Four options available. See Table 1.

Power: 115/230 VAC, single phase, 50/60 Hz, internally selected. IEC-style power connection with power switch.

Drive: PMDC gearmotor; synchronous belt drive; interchangeable pulleys provide two ranges for each model, low speed and standard speed.

Controls: Power on/off, speed adjust, lamp on/off.**

Interconnections: Lamp on/off (incorporates zero-speed switch).

Fasteners: Metric.

†Certain system configurations may require an external exhaust blower.

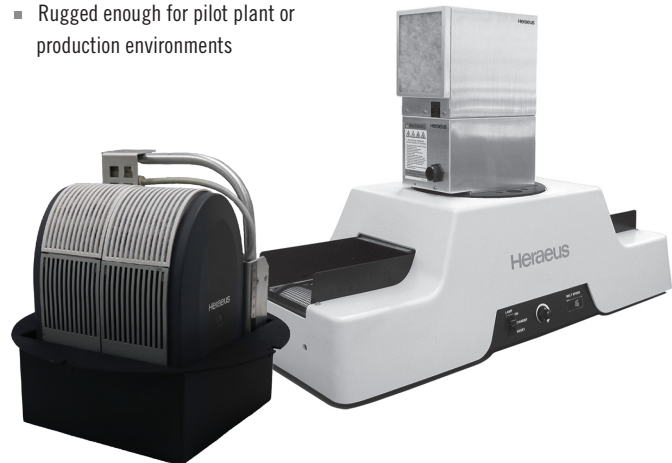
**For F300S, LH6 Mark II, and Semray® UV4103-2S only.



Altair 75 Mounting Kit – Optional

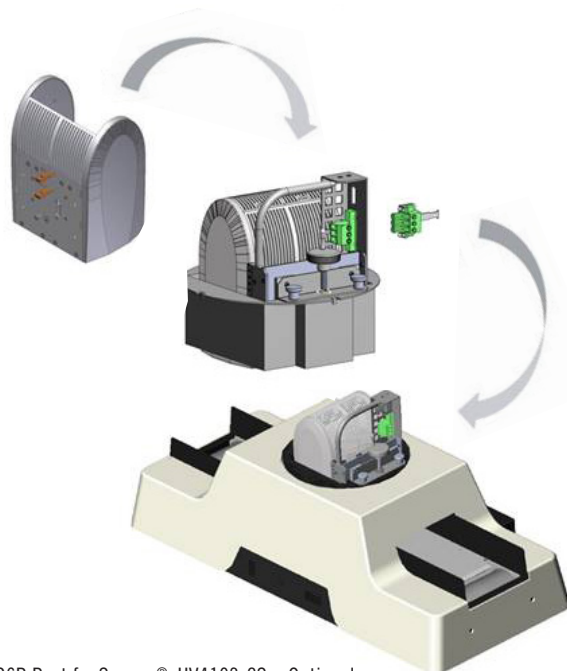
Benchtop Conveyor Systems

- Ideal curing system for small parts
- Lamp can be rotated or raised and lowered
- Belt speeds of 0.6 to 76 m/min. (2 to 250 fpm)
- Ideal for laboratory and R&D applications
- Rugged enough for pilot plant or production environments



LC6B Semray® LED Boot – Optional

- Drop-in retrofit for Fusion UV and Heraeus LC6 Conveyors
- Easy integration of 2-segment Semray® UV4103 for 6 inches of cure width
- Lamp position can be parallel or perpendicular to belt travel
- Infinite lamp height adjustments while lamp installed
- Quick removal of lamp assembly for segment change
- Easy plug and play power and control cables
- Robust aluminum and stainless steel construction



LC6B Boot for Semray® UV4103-2S – Optional

Feature/Model



	F300S and F300SQ	LightHammer® 6 Mark II	Semray®	Altair 75
Lamp Type	Electrodeless UV	Electrodeless UV	UV LED	UV LED
Bulb Length	15 cm (6-inch)	15 cm (6-inch)		
Optimum Focus	5.3 cm (2.1 inches)	5.3 cm (2.1 inches)	77 mm wide (~3") per segment emission window	80 mm wide (~3") emission window
Distance to Sample		Optional Mechanical		
Power Class	120 W/cm (300 W/inch)	200 W/cm (500 W/inch)	14 W/cm* (90 W/inch*)	16 W/cm* (103 W/inch*)
Power Level	Fixed or Quick Restart (optional)*	Variable (35–100%) Quick Restart*	Instant on/off, Variable (40–100%)	Instant on/off, Variable (40–100%)
Compliance	CE, TÜV	CE, TÜV	CE, TÜV	CE, TÜV

* Not for Cycling operation

Accessories for LC6B & LC6B-2

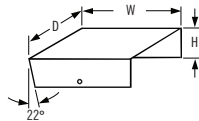
Snap-in Lightshields

These grey tinted, polycarbonate lightshields require no tools to install – simply snap into place on either end of the conveyor. Available in either tunnel (end-access) or box end (top-access) styles, these lightshields improve worker safety in situations where there is prolonged use at eye-level or when taller parts are being cured, which requires the internal adjustable shields to be lifted, increasing the amount of UV escaping into the work area.

Tunnel Style Shield:

Material: GE #713 'grey' tint polycarbonate, 3 mm (.125 in.) thick.

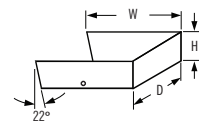
Dimensions: 229 mm (9.0 in.) wide x 76 mm (3.0 in.) high x 198 mm (7.8 in.) deep.



'Box End' Style Shield:

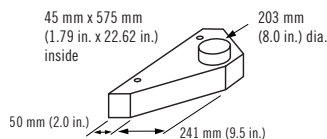
Material: GE #713 'grey' tint polycarbonate, 3 mm (.125 in.) thick.

Dimensions: 229 mm (9.0 in.) wide x 83 mm (3.25 in.) high x 198 mm (7.8 in.) deep.



Exhaust Duct Transition

- Connects rear exhaust to 203 mm (8.0 in.) diameter duct (not included).
- Can be installed upward or downward.
- Material: 1.524 mm (0.060 in.) aluminum.



This aluminum duct transition can be screwed to the rear of the conveyor housing to exhaust the cooling air up or down and away from the immediate work vicinity. It prevents cooling air from blowing directly onto other workers, thus improving the work environment. A 203 mm (8.0 in.) diameter duct (not included) can be connected.†

†Certain system configurations may require an external exhaust blower.

Replacement Belts

- Teflon®-coated 6.35 mm (.25 in.) weave Kevlar® fiber, carbon-impregnated, with conductive (anti-static) coating and unique fold-back loop seam, standard.
- Teflon®-coated 6.35 mm (.25 in.) weave Kevlar®, with conductive (anti-static) coating, and a 76 mm (3 in.) wide tight-weave center strip for small parts; fold-back loop seam.
- Flexible stainless steel belt, Teflon® slider guides, and roller modifications. Available as a retrofit kit. (Not for use with standard slider bed. NOTE: Conveyor must be modified to use this belt).
- Teflon®-coated 1.59 mm (.0625 in.) glass weave; fold-back loop seam.

Other Accessories / Options

- Quartz Plate Air Deflectors
- External End Reflectors
- Left-to-right Belt Travel (opposite direction)
- External Exhaust Blower
- Special Belts for Small Parts
- Stainless Steel Mesh Belt
- Adaptable to Hold 2 Lamps (without rotatable feature)
- Outfeed Catch Tray
- Part Removal Tool
- Semray® LED Boot

Table 1

Speed ranges available on the LC6B/LC6B-2 & LC6U are as follows:

0.6–2.2 m/min. (2.0–7.2 ft./min.)	Some assembly – requires exchange of drive pulleys
1.0–7 m/min. (3.3–23 ft./min.)	Some assembly – requires exchange of drive pulleys
5–23 m/min. (16–75 ft./min.)	Some assembly – requires exchange of drive pulleys
15–76 m/min. (50–250 ft./min.)	Some assembly – requires exchange of drive pulleys

Curing of coatings, inks, paints and adhesives with UV (ultraviolet) is considered a “green” technology. It provides a healthier environment to workers and offers several advantages over solvent-based technologies including a reduction in VOCs (volatile organic compounds), air pollutants and flammability.



All locations of Heraeus subsidiaries and sales partners: heraeus-noblelight.com

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ISO 9001 Certified QMS



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