



Heraeus Noblelight DRS 10/12 Conveyor Systems

Fully Engineered Conveyor-Equipped UV Curing Systems

Heraeus Noblelight's popular DRS conveyor system will accept one or two rows of Heraeus Noblelight modular electrodeless lamps, with either standard or variable power supply units.

The conveyor will accept two 6-inch lamp systems (F300S or LH6 Mark II) side-by-side for a nominal 12-inch wide system, or two 10-inch lamps (F450T, F600S, LH10 Mark II or LH10 Mark III) in a two-row arrangement.

The DRS 10/12 is designed to accommodate a variety of part geometries up to 4 inches high.

Heraeus Noblelight Advantages:

- Conveyor-equipped systems for laboratory R&D or production line use
- A wide range of standard and optional features to meet your specific UV curing needs
- Increased productivity, lower energy costs and product quality improvement

Specifications: DRS 10/12 Conveyor Systems

Lamp Configurations (lamps purchased separately)

■ F450T, F600S, LH10 Mark III, LH10 Mark II:

One lamp wide, one or two rows.

■ F300S: Two lamps wide, one row.

■ LH6 Mark II: Two lamps wide, one or two rows.

■ LED Options: Available as a custom solution. Please inquire.

(Conveyor base can accommodate two power supplies.)

UV Width, Nominal: 254 mm (10 in.) or 305 mm (12 in.), depending on lamp system.

Conveyor Belt Width: 355 mm (14 in.).

Length (overall): 1,676 mm (66 in.).

Width (overall): 813 mm (32 in.).

Conveyor Belt Height: 819.2 mm ± 50.8 mm (32.2 in. ± 2.0 in.).

Maximum Part Height: 101 mm (4.0 in.). **Infeed Length, Clear:** 380 mm (15 in.).

Outfeed Length, Clear: 280 mm (11 in.).

Belt Material: Kevlar®, Carbon/Graphite impregnated PTFE Coating.

Belt Speed Range: Variable speed in five (5) ranges;

0.3-4.6 mpm, 1.5-22.9 mpm, 3-45.7 mpm, 4.6-68.6 mpm, 10.7-152.4 mpm (1-15 fpm, 5-75 fpm, 10-150 fpm, 15-225 fpm, 35-500 fpm).

Speed Control: Variable with digital display.

Clutch Slip Limit: 13.5 kg (30 lbs.) belt pull.

Vacuum Hold Down: At infeed, cure zone, and outfeed.

Slider Bed: Perforated aluminum sheet.

Drive System: P.M.D.C. Motor, 1/8 HP.

Lamp Focus: Focal point adjustable from 0.0 mm-101.6 mm (0.0 in.-4.0 in.) from belt in 12.7 mm (0.5 in.) increments (i.e., 53.4 mm-154.9 mm [2.1 in.-6.1 in.] from belt to face of lamp).

Exhaust Blower: 45.3 m³/min. (1,600 cfm) @ 50.8 mm (2 in.) SP (outlet). Blower included and installed in base cabinet.

Exhaust Duct Connection Size: 149 mm x 298 mm (5.9 in. x 11.8 in.).

Standard Power Requirements

Voltage: 115 V, 50/60 Hz, 1 phase, 30 A (230 V, 50/60 Hz, 1 phase, 15 A, optional).

Lamp System: See appropriate lamp data sheet.



System control panel.

Tough and Safe

The conveyor frame and lamp housing of the DRS 10/12 conveyor system are constructed of welded steel for strength and durability.

As with all Heraeus Noblelight equipment, personal safety and substrate protection are prime considerations.

The DRS 10/12, when used with standard Heraeus Noblelight Lamp Systems, protects against:

- Lamp and blower failure
- Microwave leakage
- Excessive power supply temperature
- Power imbalance
- Power error
- Power interruption
- Zero speed

In addition, there is an external interlock provision for user connection to other equipment.

Contact your local Heraeus Noblelight office for an engineered solution for your specific requirements.