

# ULTRA VIOLET CURING MACHINE



# ULTRA VIOLET CURING MACHINE

GRAFICA's Ultra Violet Curing Machine is built with our 10 years of experience in UV Curing technology. No other curing system offers this remarkable combination of performance control and safety features. Engineered for high speed curing of vinyls, polyesters, papers, and other heat sensitive substrates. The computer designed cooling system minimizes heat transmission to stock in the curing chamber. Our ozone removal system vents ozone and hot air from the point of origin then safely out of the working area. Specially engineered light guards protect the operator from exposure to actinic light output. The lamp can be operated in half power/full power as required and prolongs the lamp life. Powerful vacuum hold down system helps to cure the thinnest substrates with ease. Individual lamp control gear. Teflon coated conveyor belt for long life and stability.

## STANDARD FEATURES:

- Compact design
- Heavy duty foundation bolts for leveling of all individual modules accurately
- High pressure mercury vapor UV lamps 300 watts/inch can also be run at 200 watts/inch for low production speed if required. Helps reduces power consumption
- Individual lamp control gear
- Variable lamp power
- Anti Static PTFE Teflon coated fiber glass conveyor belt with rubber rollers to avoid belt breakage, hence increases safety of belt
- Conveyor belt drives with imported AC geared motor pre lubricated coupled with imported AC frequency inverter (sensor less vector control inverter to maintain constant torque and constant speed)
- Digital belt speed indicator in M/Min
- Power switching through imported capacitor banks
- Ozone free UV lamps
- Individual lamp control gear
- Easy cleaning & maintenance of lamps
- Digital display for current lamp hours (re stable) and total lamp hours
- Individual lamp ampere meter
- Safety switch for lamps
- Imported aluminum extruded elliptical concentrate UV irradiators with special replaceable mirror coated reflective aluminum sheets for UV light reflections which transfers maximum energy of UV radiation
- Special Teflon coated lamps wires for maximum efficiency of lamp output
- Unique temperature sensors with digital indicator to avoid excessive heating of lamps. Helps increase in lamp life
- UV module consists of complete vacuum hold down system for substrate during curing process. Helps deliver each substrates with uniform curing all over
- Powerful lamp cooling system increases lamp life and delivers correct UV radiation

- Compact ballast cum transformer using constant wattage technology (Imported)
- Transformer coils has excellent insulation properties with vacuum impregnation technology to reduce transformer humming and failures
- All blower motors are coupled with electronic phase failure and overload protection systems
- Lamps and heaters are coupled with miniature circuit breakers for load protection
- Complete control system is protected with earth circuit leakage breakers
- Accurate and durable controls
- Major electrical components are "CE" certified
- Vacuum blower for holding the substrate while curing
- Easy cleaning & maintenance of lamps
- Ampere meter (for both the lamps)
- Hour meter (for both the lamps)

## OPTIONAL FEATURES:

- Special extended conveyor to suit various delivery height
- Air cooled quartz glass filters under each lamp to reduce excess heat generated through UV lamps. Helps reducing of variations of heat sensitive substrates and also maintains adhesive properties for self adhesive labels
- Quartz glass filters also protects dust to settle on wet inks during curing process and eliminate sheet contact directly to lamp to prevent fire
- Unique cool cure system to avoid excessive heat on substrate while curing, materials such as PVC/Vinyl's/Thin Plastic sheets etc. which are heat sensitive and can be deformed if heated above 50°C can be easily cured
- User friendly controls
- Higher Intensity upto 600 Watts / Inch \*

## TECHNICAL DATA:

	GF-24 UV	GF-30 UV	GF-40 UV	GF-50 UV
Max. Curing Width	24"	30"	40"	50"
Max. Conveyor Width	27"	32"	44.5"	52"
Max. Conveyor Speed	50 Mt/Min	50 Mt/Min	50 Mt/Min	50 Mt/Min
High Pressure Mercury Vapor Lamp	2 Lamps 7500 watts each (300 watts per inch each)*	2 Lamps 9000 watts each (300 watts per inch each)*	2 Lamps 12600 watts each (300 watts per inch each)*	2 Lamps 15000 watts each (300 watts per inch each)*
Power Supply	440 V AC / 63 Amps / 3 PH / 50 Hz	440 V AC / 63 Amps / 3 PH / 50 Hz	440 V AC / 100 Amps / 3 PH / 50 Hz	440 V AC / 100 Amps / 3 PH / 50 Hz
Power Consumption	24.0 HP (18.0 kW)	28.0 HP (21.0 kW)	40.0 HP (30.0 kW)	45.0 HP (33.0 kW)
Overall Dimensions (Standard)	9.0' (L) x 4.7' (D) x 4.0' (H)	9.0' (L) x 4.7' (D) x 4.0' (H)	9.1' (L) x 6.6' (D) x 4.0' (H)	13.2' (L) x 6.6' (D) x 4.0' (H)

**Custom design available for low/high pile offset printing machines on request**  
**Technical data subject to change without notice**  
**We accept any custom sized orders**

## GRAFICA FLEXTRONICA

**Head Office:** 3 "Saurabh A" CHS, Sahaji Raje Marg, Vile Parle East, Mumbai 400 057, India  
**Tel:** +91 22 26838815/6 **Email:** sales@graficaindia.com **Website:** www.grficaindia.com