Natgraph
EQUIPMENT SOLUTIONS

ULTRA-VIOLET SCREENPRINTING | FORCED AIR STENCIL EXPOSURE | INFRA-RED DRYING TECHNOLOGY

Infra Red Dryers & Flash Cures

- stencil processing
- screen printing
- air force
- ultra violet
- infra red

Natgraph's range of Infra Red Dryers, has been developed from years of experience gained in manufacturing 100's of units that are in world-wide daily use. This equipment has been designed to cure surface coatings in the textile, electronic, glass, nameplate and promotional print industries, as well as many other applications. Plastisol, Discharge, Water Based and 2 pack inks can be processed through these versatile units.

The Natgraph range of Flash Cures has been developed to include high efficiency, medium wave systems for high volume, automatic textile printing as well as for manual carousels. A variety of sizes and control systems are available to make these units compatible with automatic textile printers.

Infra Red Dryers
Flash Cures

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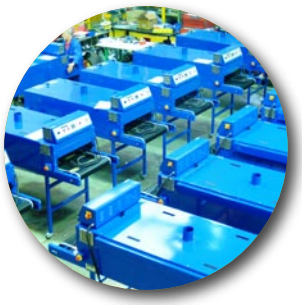
Member SGIA

DSPA

Model P Infra Red Dryers

Large order on test



Final assembley before despatch

In production

Features

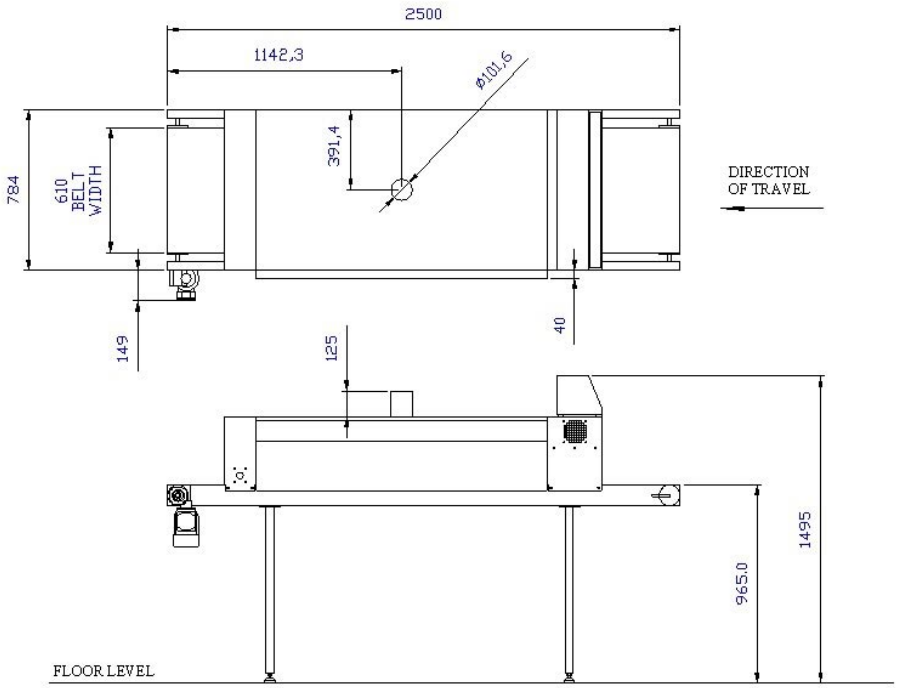
- Short wave pre-heat section
- Electronic temperature control
- Adjustable height long wave element tray
- Compact design
- Fully insulated
- Flat long wave elements
- Stainless steel filters
- Exhaust spigot

The Natgraph range of Model P Infra Red Dryers has been developed to provide a versatile and efficient conveyorised infra red dryer for many applications. A combination of a short wave infra red pre-heat section and a height adjustable, long wave infra red element tray make these dryers usable in many industries.

Available in 3 standard belt widths, there is a version of these dryers to accept all popular print formats. These units are especially suitable for drying individual components that will accept direct infra red etc, they are particularly efficient at curing Plastisol inks in the textile industry. A 'slide up' steel door at both ends of the unit and the height adjustable long wave element tray allows the dryer to accept 3D objects as well as flat pieces.

The short wave section and cooling are independently selectable. The flat, long wave heating elements are of Natgraph's own design, emitting energy all over their surface to ensure complete curing. A lockable temperature controller is fitted with the sensor located below the element tray for accuracy.

The drying section is fully insulated, with an exhaust spigot located on the large removable access door. Easy clean, stainless steel filters are fitted to the cooling fans and electrical control box fan. The box section legs can be removed for easy access. These dryers require a three phase power supply.



Medium Wave Flash Cure Unit

Features

- High efficiency medium wave carbon lamps
- CAD designed, faceted & vented reflector
- Light aluminium construction
- Large cooling fan with stainless lint filter
- Safety guard
- Digital timer for delay and flash times
- Integration with automatic printers
- Adjustable feet
- Optional platen sensor
- Optional stand

Flash Cure model 1

The Natgraph medium wave Flash Cures have been developed to operate with the majority of automatic multi colour T-shirt carousel printing machines. They are designed to flash dry the surface of Plastisol, Discharge and Water Based textile inks, aiding the overprinting process.

These units achieve their high efficiency by the use of medium wave carbon lamps fitted into a CAD designed, faceted and vented reflector. This mirror finish reflector improves the energy distribution over the pallet area, resulting in faster 'flash times' and lower power consumption.

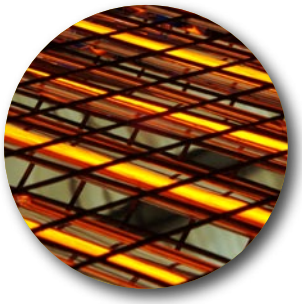
Manufactured from aluminium to a slim design, they are light and easy to move, these units also have a full size, mesh safety guard fitted to protect the lamps when re-locating to a different position.

A large cooling fan with an easy-clean, stainless steel lint filter keeps the unit cool and provides additional efficiency to the flash drying process.

An automatic control system includes a 'pre-heat' function to get the pallets up to temperature and a 'simmer' level to ensure fast and efficient operation is achieved. Controls consist of lamp selection, power setting, timer and delay timer, with digital readout of operation and illuminated switches. The electronics are easily accessible for maintenance purposes behind a fold out panel. Height adjustable location brackets are fitted.

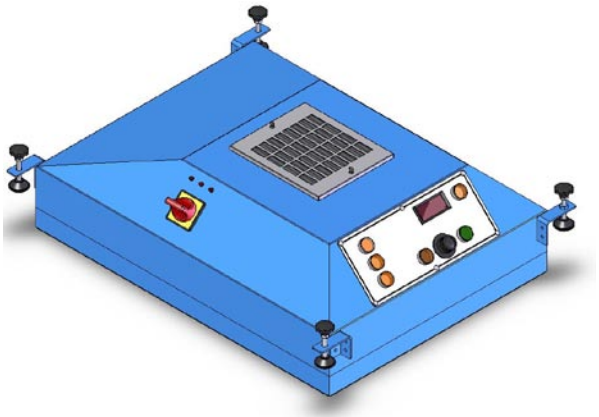
Integration with MHM and many other automatic presses is easily achieved with dedicated connection cables and an optional platen sensor can simply be plugged in to all units. If they are to be used with a manual carousel, these Flash Cures can be fitted to an optional stand that has height adjustment and wheels/feet.

These Flash Cures require a three phase power supply.



Medium Wave Carbon Lamps in faceted reflector

Flash Cure Control Panel



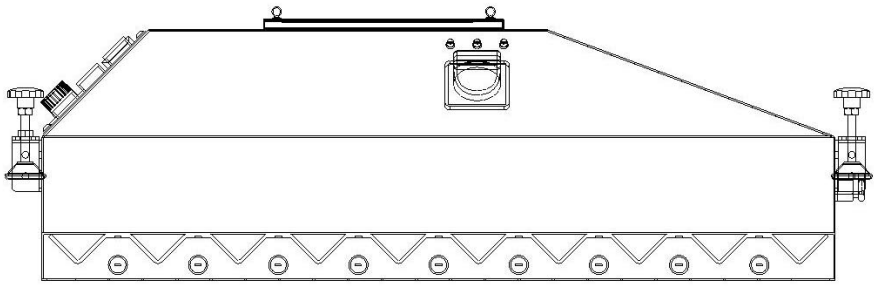
Specifications

Model P Infra Red Dryers

Model No.	2P	3P	4P
Belt Speed	0 - 10m/min (0 - 33'/min)		
Belt Width	61cm (24")	91cm (36")	122cm (48")
Height	135cm (53")		
Depth	79cm (31")	110cm (43")	140cm (55")
Length	250cm (99")	352cm (138")	352cm (138")
Oven Length	184cm (73")	247cm (97")	247cm (97")
Weight	145kgs. (320lbs.)	273kgs. (600lbs.)	341kgs. (750lbs.)
Voltage	Three Phase 400 Volts 50/60Hz. AC		
Power	16kW	30kW	41kW
Current	25 Amps	50 Amps	60 Amps

Medium Wave Flash Cure Unit

Model No.	Model 1 MW
Flash area	70 x 45cm (27" x 18")
No. of lamps	9 (3 banks of 3)
Height	25cm (10")
Width	55cm (22")
Depth	75cm (29")
Weight	16kgs. (35lbs.)
Voltage	Three Phase 400 Volts 50/60 Hz. AC
Power	tbc
Current	tbc



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