Freestanding UV Glass Dryers

Natgraph manufacture a range of Freestanding Ultra Violet (UV) Glass Dryers developed from years of experience gained in the production of over 500 conveyorised UV Dryers that are in world-wide daily use. Natgraph UV Dryers are widely acknowledged as the coolest and most efficient available.

These dryers have been designed for curing UV surface coatings applied to glass, in the automotive and gaming machine industries. Whatever the requirement for curing a UV ink onto glass, Natgraph have a solution.

With 8 standard belt widths, 2 transport systems, Touch Screen PLC Control Systems, 4 layouts, optional pre IR, Ozone Filters and Intelligent UV Control Systems, this range of dryers is extremely adaptable, versatile and efficient.

Freestanding UV Glass Dryers

The Natgraph range of Freestanding UV Glass Dryers are designed to meet the requirements of flat glass printing operations and are built to the same modular design as Natgraph's Air Force Dryers. Available in 8 standard curing widths from 90cm through to 260cm, all standard glass formats can be processed.

High efficiency lamphouses are positioned above and below the transport system to ensure full cure of the dense black UV inks used for automotive glass. 2 lamps above and 1 below are vital to ensure curing of large areas of ink, particularly when screen printed onto dark 'sun screen' glass.

Natgraph's UV technology is acknowledged as the coolest running and most efficient available. This has been achieved with extensive knowledge of discharge lamp requirements for optimum performance and the use of Natgraph's in-house manufactured transformer systems.

The standard belt is of an open mesh P.T.F.E. coated fibre glass construction, with reinforced edges and protective flap below the joint. The lamp located below the belt shines through the belt itself. The alternative transport system is a set of driven rollers fitted with peek wheels, this material is not affected by the high UV intensity or temperature within the dryer. This system gives an unobstructed light path from the lamp below and is ideal for glass over 300mm in size.

Freestanding UV Glass Dryer Features

- Touch Screen, PLC Control System
- High efficiency fully focused reflectors
- Curing from above and below the glass
- Inter-lamp cooling zone
- After cure cooling zone
- Castors & jacking feet
- Gas filled lifting arms on the hood
- 8 Standard model sizes
- Optional Intelligent UV System
- Optional higher power output
- Optional Ozone filter

Ozone Filters

Natgraph have designed Ozone Filter units to operate with their range of UV Dryers. Ozone gases are produced by UV lamps and must be extracted from the dryer efficiently. The ozone is normally extracted from the dryer through ducting to the outside of the building. All of Natgraph's UV Dryers have an efficient and fully sealed extraction system to ensure that all the ozone produced is removed.

If there is no easy route to the outside of the factory, or there are environmental reasons that gases or noise should not be emitted from the factory, then the ozone must be removed by a filter system. Natgraph's Ozone Filter does this and also allows the heat generated by the UV dryer to be re-used within the factory, thus saving on heating costs.

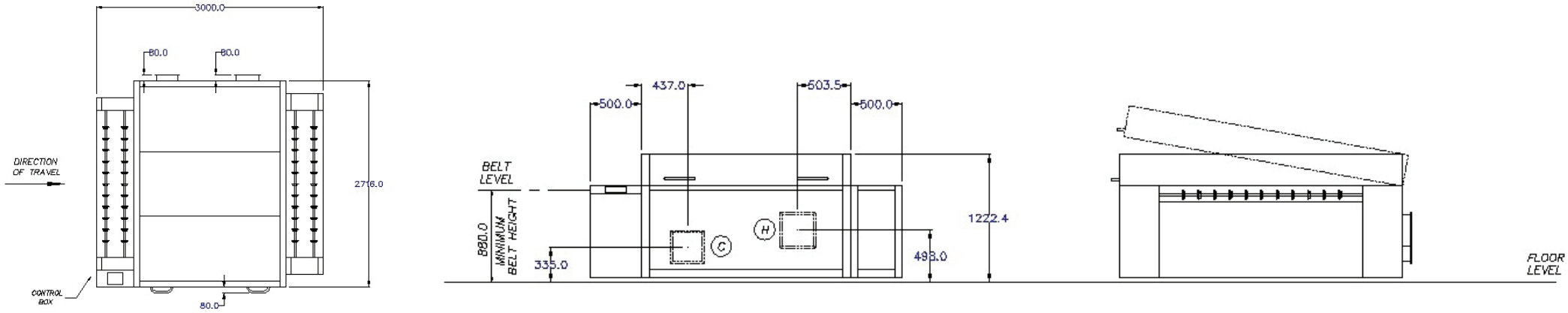
There is a replaceable pre-filter that removes any airborne particles within the unit. If this filter is regularly replaced, then the charcoal filters within the unit will never need to be changed. These units are designed to function without reducing the efficiency of the UV Dryer.

In-house UV transformer fitting

Gas filled lifting arms on the hood

Glowing UV lamps

Ozone Filter



Specifications:

Freestanding UV Glass Dryers

The following specifications are common to all Freestanding UV Dryers								
Module Type	**1m entry, 2m UV/Cooler, 0.5m exit. (1m exit on model 260)**							
Belt Height	79cm - 90cm (31” - 37”) Adjustable by the feet, higher options available							
Belt Speed	2-20m per minute (6’ - 60’) Other speeds are available to order							
Height	114cm - 129cm (45” - 51”) Adjustable by the module’s feet, higher options available							
Module Length	All standard models are 3.5m (140”) long, except model 260 which is 4m (160”) long							
Voltage	Three Phase 400V 50Hz.AC							
Electrical	**These figures apply to individual model sizes.**							
Model No.	**90**	**110**	**130**	**155**	**170**	**185**	**215**	**260**
Belt / Drying / Curing Width	90cm (36”)	110cm (43”)	130cm (51”)	155cm (61”)	170cm (67”)	185cm (73”)	215cm (84”)	260 (102”)
Module Width	158cm (62”)	178cm (70”)	198cm (78”)	223cm (88”)	238cm (94”)	253cm (112”)	283cm (100”)	370cm (145”)
Weight	910kgs (2006lbs)	1130kgs (2486lbs)	1320kgs (2910lbs)	1510kgs (3322lbs)	1700kgs (3740lbs)	1870kgs (4114lbs)	2010kgs (4422lbs)	3000kgs (6600lbs)
	The following power figures are for 3 lamps at full power, 120 watts/cm (300 watts/inch)							
Power	38kW	48kW	56kW	66kW	72kW	80kW	93kW	115kW
Current	55	67	80	95	105	119	136	115
Air	**The following air volumes are in 1,000m^3/hour**							
Air Intake	2.8	3.2	3.8	4	4.3	4.8	5.6	6
Extracted	2.9	3.4	4	4.2	4.6	5	5.8	6

The manufacturer’s policy is one of continuous improvement and the manufacturer therefore reserves the right to change or modify the design without prior notice. The technical specifications given are therefore for information only.

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