

PRIME UV IR

Creating a world of possibilities

NITRO UV UV CURING SERIES

MAXIMUM UV CURE SPEED | MINIMAL NITROGEN UTILIZATION



INTEGRATE ANY PRIME UV SERIES
INTO NITRO UV CHAMBER

SUPERIOR UV CHEMISTRY
PERFORMANCE

OXYGEN LEVELS BELOW 50 PPM
AT TOP LINE SPEEDS

PRIME UV  IR

416 Mission Street | Carol Stream, IL 60188, USA | p: +1-630-681-2100 | www.primeuv.com

Web Applications and a Variety of Industrial Applications

Engineered to the highest standards utilizing CFD software, Prime's Nitrogen Inerted UV Curing Chambers excel at purging oxygen while optimizing the utilization of nitrogen. Coupled with Prime's superior UV Processors, Prime's NITRO UV product enables its users to achieve top production speeds while maintaining oxygen exclusion levels below 50 ppm. Oxygen levels are verified utilizing in-line continuous oxygen analyzer.



Applications

- Printing
 - Flexo
 - Offset
 - Digital
- Coating
 - Packaging
 - Industrial
 - Furniture Films
 - Labels
 - Floor Laminates
 - Facade Elements
 - Silicone Release Liners



Increased Productivity

- Increase Process Throughput
- Reduction of Energy Costs
- Lower Heat Exposure to Substrate



Reduce Photo-Initiator Content from 7-16% to Less Than 2%, Thus:

- Odor Reduction of the Coating Chemistry
- Lower Chemistry Costs
- Lower Migration of Raw Materials through Material Critical for Food Packaging
- Reduction of Coating Yellowing



Specifications

UV Type	MINIMAX, OPTIMUM, RADMAX, LEDMAX, UV LED Series
Cooling Method	Water & Air
Max Power	600 wpi (240 wpc)
Max Substrate Width	2000 mm
Max Process Speeds	450 mpm
Oxygen Exclusion Levels	< 50 ppm (0.005%)
Inert Gas	Nitrogen
Nitrogen Chamber Types	Flat or Roll; Lab or Production
Contact Free Entry & Exit of Substrate	Yes
Cassette Style	Easy Access to Quartz Barrier Window



Curing Benefits: Higher Network Density of Polymers

- Superior Gloss
- Improved Chemical Resistance
- Coating Characteristics:
 - Increased Hardness & Abrasion Resistance
- Improved Curing of Difficult Colors