

# HELIOS™ T



## Large Format Textile Screen Exposure System



### FEATURES

- Maximum screen frame capacities range from 152 x 183 cm (60" x 72") to 183 x 244 cm (72" x 96")
- Computer-controlled blanket frame opens and closes automatically
- Increases productivity by exposing multiple screens simultaneously

NuArc's largest textile screen exposure system enables high-volume screen printers to maximize productivity by exposing numerous screens at once. Helios T also offers the ultimate in computerized operation. Three Job Recall keys allow operators to program Helios T to repeatedly perform entire exposure sequences—from automatic door closing through vacuum draw down, screen exposure, vacuum release, blowback, and door opening—at the touch of a single button. Each Helios T model uses a powerful instant-start 6 kW multi-spectrum lamp to speed production while retaining fine lines and dots.

Computer-generated diagnostics monitor all functions to quickly identify and resolve problems. The computer-directed pneumatic door prevents the blanket frame from twisting, and it frees operators from the tedious task of manual operation. NuArc's Light-Loc™

automatically shuts off lamps if the door is opened, allowing Helios T to be located in darkrooms. The exposure area is angled to ease screen loading and glass cleaning.

Standard features include improved heavy-duty blanket material, automatic blowback to release vacuum, and a static electricity reduction system. With two standard models and a wide range of custom sizes available, there's a Helios T for virtually any need. Standard models are sized to accommodate maximum screen frame sizes from 152 x 183 cm (60" x 72") to 183 x 244 cm (72" x 96"). All models come with screen-support shelves that allow operators to expose two rows simultaneously. Helios T is an exceptionally fast, quiet, and efficient large format exposure system, with an ergonomic design that's extremely user-friendly.

[www.nuarc.com](http://www.nuarc.com)

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## STANDARD FEATURES

### Blanket & Vacuum

- Automated power door prevents the blanket frame from twisting
- Blanket frame is pneumatically operated and opens and closes under computer direction
- Dual air-driven pumps are fast, quiet, and efficient
- Exceptionally flexible and resilient material ensures intimate contact and blanket longevity
- Exclusive air blowback system dispels vacuum after exposures are completed
- Unique manifold system ensures intimate contact by drawing vacuum evenly around the perimeter of the blanket frame

### Certification

- CE & UL compliant: Built to specifications established by the European Committee for Standardization® (CE) and Underwriters Laboratories® (UL)

### Controller/Integrator

- Computer controlled and fully programmable
- Computer-controlled system monitors lamp life
- Computer-generated diagnostics speed problem identification and resolution
- Fully automatic operation
- Job Recall™ allows operators to store & sequence multiple functions on each of three buttons for one-touch exposure operations
- Job Recall™ allows storage and recall of vacuum and exposure values
- LCD display with pushbutton control
- Light integrator ensures precise exposures

### Design & Construction

- 1.27 cm (½") thick plate glass
- Angled design simplifies screen loading and glass cleaning
- Ceiling/Door clearance is under 244 cm (8')
- Centrally located pneumatic controllers
- Fixed bottom shelf and site-installable second shelf allow operators to maximize the number of screens that can be exposed at once
- Fully-enclosed, heavy-duty all steel cabinet
- Light-Loc™ automatically turns off the light source if the door is opened
- Removable covers provide easy access to components to clean or replace any serviceable item
- Self-contained design speeds production by allowing placement in darkrooms
- Ships fully assembled and ready to deploy
- Square tubular steel welded frame

### Inspection Light

- Allows the operator to check for alignment, dust, and pinholes before exposing screens
- Yellow safelight turns on and off automatically when the blanket frame is raised or closed

### Light Source

- 6 kW multi-spectrum instant-start metal-halide lamps produce fast, efficient exposures
- Computerized light balance and lamp life monitoring systems
- Exposes all emulsions: direct, capillary, and indirect
- Access door simplifies maintenance and lamp replacement
- Patented (U.S. Patent No. 4,339,692) instant-start lamp and rapid recovery power supply eliminate warm-up and idling times, saving energy and reducing heat build-up
- Point-light source provides maximum collimation and optimum coverage to hold fine lines and dots

### Warranty, Service & Support

- 24-hour hotline is staffed 365 days a year
- Access to M&R's Training Center
- One-year limited warranty excluding blanket, glass, and lamps

## OPTIONS

### Replacement Lamp

- 6 kW multi-spectrum metal-halide lamp: Part Number MH153

## SPECIFICATIONS

	Helios T 6072	Helios T 7296
Maximum Screen Frame Size	152 x 183 cm (60" x 72")	183 x 244 cm (72" x 96")
Vacuum Frame Size	175 x 206 cm (69" x 81")	206 x 267 cm (81" x 105")
Overall Size	193 x 254 x 231 cm (76" x 100" x 91")	218 x 315 x 231 cm (86" x 124" x 91")
Lamps	6 kW Instant Start x 1	6 kW Instant Start x 1
Air @ 6.9 bar (100 psi)	283 l/min (10 cfm)	283 l/min (10 cfm)
Electrical Requirements <sup>1</sup>	208/230 V, 1 ph, 27/21 A, 60 Hz, 4.8 kW 208/230 V, 1 ph, 30/27 A, 50 Hz, 6.2 kW	208/230 V, 1 ph, 27/21 A, 60 Hz, 4.8 kW 208/230 V, 1 ph, 30/27 A, 50 Hz, 6.2 kW
Shipping Weight	880 kg (1940 lb)	1098 kg (2421 lb)

<sup>1</sup> If incoming voltage differs from the voltage(s) listed in this brochure, calculate amperage accordingly. Other electrical configurations are available. Contact The M&R Companies for details.