



Avalon N8

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Overview

Avalon N8 is a complete range of B1-size platesetters. Start off with one of the eight models, and upgrade as your business prospers. Plate productivity is linked to the laser technology of the imaging heads. The fastest model uses high-tech Grating Light Valve (GLV) technology with 1024 beams, resulting in a top speed of 65 plates per hour.

On top of that, a variety of automated functions adds to your overall productivity and profitability. This allows you to customize your computer-to-print solution according to your unique needs.

Related Information

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[Avalon N8-60 & N8-80 Datasheet](#)

[Avalon N8-60 & N8-80 Datenblatt](#)

Key Benefits

- Reliable platesetting
- Exceptional registration accuracy
- High-quality imaging
- Advanced automation

Features

Unmatched Plate Productivity

The Avalon N8-60 and Avalon N8-80 models apply state-of-the-art GLV imaging head technology, using 512 and 1024 beams to deliver between 32 and 65 B1 plates per hour in a fully automated CtP configuration.

These precision imaging heads produce exceptional tonal accuracy and uniformity from corner to corner, plate to plate and job to job.

External Drum Design

The Avalon N8 series features an external drum design. An automated lightweight clamping and vacuum system secures plates to the drum.

Internal Punching

The Avalon N8 internal punching system punches for the on-press registration immediately before mounting the plate on the drum. Internal punching improves register on press and reduces make ready times. Because the punching is done while another plate is being imaged, there is no loss of plate throughput.

By adding optional press punch blocks, imaged plates can be loaded straight onto presses with different punching, eliminating further manual steps and dramatically increasing make ready efficiency.

Perfect Upgradability

The Avalon N8 can be upgraded to meet your expanding production requirements. Using the same base engine, you can upgrade from an entry-level manual machine to a high-productivity, fully automated model by simply replacing certain key parts on the job.

Technical Specs

Avalon	N8-24 E
Imaging technology	32 beams fiber-coupled
Laser type	830 nm thermal laser diodes
Recording system	External drum
Resolution	1200-2400-2540 dpi
Plate characteristics	
Maximum (lead edge x wrap)	1.160 x 940 mm (45.6" x 37.0")
Minimum (lead edge x wrap)	304 x 370 mm (11.9" x 14.6")
Plate thickness	0.15 to 0.3 mm (6 to 12 mil, options for 0.4 mm support available)
Maximum imaging size	1160 x 916 mm (1160 x 920 mm)* *grip setting is 8 mm, drum rotation limits to 600 rpm
Plate compatibility	
Approved Agfa Graphics plates	Azura TS, Azura TU, Azura TE, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
Plate Loading and unloading configurations	
Manual loading	Yes

Internal punching	Option: support for up to 4 sets of punches. Standard and custom punches are available.
Automatic loading	Yes
Single cassette autoloader	Yes
Multi cassette autoloader	Yes
Manual unloading	Yes
On-line processor (OLP)	Yes
Throughput	
Energy Elite Pro: 1030 x 800 mm plate, 2400 dpi	13 pph, depending on plate sensitivity, screening and other factors
Weight & dimensions	
Dimensions (w x d x h)	2440 x 1295 x 1390 mm (96.1 x 51.0 x 54.7")
Including built in bridge	
Approx. weight (including the blower)	1150 kg (2530 lb)
Environment	
Temperature range	21° C to 25° C (70°F to 77°F)
- Recommended	18° C to 26° C (64°F to 79°F)
- Required	
Humidity range	40% to 70% RH (non-condensing)
Power	1• 200-240 V

	32 A
	50 or 60 Hz

Avalon	N8-24 S
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Imaging technology	64 beams fiber-coupled
Laser type	830 nm thermal laser diodes
Recording system	External drum
Resolution	1200-2400-2540 dpi

Plate characteristics	
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Maximum (lead edge x wrap)	1.160 x 940 mm (45.6" x 37.0")
Minimum (lead edge x wrap)	304 x 370 mm (11.9" x 14.6")
Plate thickness	0.15 to 0.3 mm (6 to 12 mil, options for 0.4 mm support available)
Maximum imaging size	1160 x 916 mm (1160 x 920 mm)* *grip setting is 8 mm, drum rotation limits to 600 rpm

Plate compatibility	
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Approved Agfa Graphics plates	Azura TS, Azura TU, Azura TE, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
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Plate Loading and unloading configurations	
Manual loading	Yes
Internal punching	Option: support for up to 4 sets of punches. Standard and custom punches are available.
Automatic loading	Yes
Single cassette autoloader	Yes
Multi cassette autoloader	Yes
Manual unloading	Yes
On-line processor (OLP)	Yes
Throughput	
Energy Elite Pro: 1030 x 800 mm plate, 2400 dpi	23 pph, depending on plate sensitivity, screening and other factors
Weight & dimensions	
Dimensions (w x d x h)	2440 x 1295 x 1390 mm (96.1 x 51.0 x 54.7")
Including built in bridge	
Approx. weight (including the blower)	1150 kg (2530 lb)
Environment	
Temperature range	21° C to 25° C (70°F to 77°F)
- Recommended	18° C to 26° C (64°F to 79°F)
- Required	

Humidity range	40% to 70% RH (non-condensing)
Power	1• 200-240 V 32 A 50 or 60 Hz

Avalon	N8-24 Sr
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Imaging technology	64 beams fiber-coupled
Laser type	830 nm thermal laser diodes
Recording system	External drum
Resolution	1200-2400-2540 dpi

Plate characteristics	
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Maximum (lead edge x wrap)	1160 x 940 mm (45.6" x 37.0")
Minimum (lead edge x wrap)	304 x 370 mm (11.9" x 14.6")
Plate thickness	0.15 to 0.3 mm (6 to 12 mil, options for 0.4 mm support available)
Maximum imaging size	1160 x 916 mm (1160 x 920 mm)* *grip setting is 8 mm, drum rotation limits to 600 rpm

Plate compatibility	
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Approved Agfa Graphics plates	Azura TS, Azura TU, Azura TE, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
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Plate Loading and unloading configurations

Manual loading	Yes
Internal punching	Option: support for up to 4 sets of punches. Standard and custom punches are available.
Automatic loading	Yes
Single cassette autoloader	Yes
Multi cassette autoloader	Yes
Manual unloading	Yes
On-line processor (OLP)	Yes

Throughput

Energy Elite Pro: 1030 x 800 mm plate, 2400 dpi	23 pph, depending on plate sensitivity, screening and other factors
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Weight & dimensions

Dimensions (w x d x h)	2440 x 1295 x 1390 mm (96.1 x 51.0 x 54.7")
Including built in bridge	
Approx. weight (including the blower)	1150 kg (2530 lb)

Environment

Temperature range	21° C to 25° C (70°F to 77°F)
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- Recommended	18° C to 26° C (64°F to 79°F)
- Required	
Humidity range	40% to 70% RH (non-condensing)
Power	1• 200-240 V 32 A 50 or 60 Hz

Avalon	N8-24 Sc
Imaging technology	64 beams fiber-coupled
Laser type	830 nm thermal laser diodes
Recording system	External drum
Resolution	1200-2400-2540 dpi
Plate characteristics	
Maximum (lead edge x wrap)	1150 x 940 mm (45.3" x 37.0")
Minimum (lead edge x wrap)	450 x 370 mm (17.7" x 14.6") Option: 304 x 370 mm (11.9" x 14.6")
Plate thickness	0.15 to 0.3 mm (6 to 12 mil)
Maximum imaging size	1150 x 916 mm (grip 12/12mm) 1150 x 920 mm (grip 8/12mm)*

* Drum rotation limits up to 600 rpm

Plate compatibility

Approved Agfa Graphics plates	Azura TS, Azura TU, Azura TE, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
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Plate Loading and unloading configurations

Manual loading	Yes
Internal punching	Option: support for up to 4 sets of punches. Standard and custom punches are available.
Automatic loading	Yes (Autoloader connection kit required)
Single cassette autoloader	Yes (Autoloader connection kit required)
Multi cassette autoloader	Yes (Autoloader connection kit required)
Manual unloading	Yes (Rear discharge unit required)
On-line processor (OLP)	Yes (Rear discharge unit required)

Throughput

Energy Elite Pro: 1030 x 800 mm plate, 2400 dpi	23 pph, depending on plate sensitivity, screening and other factors
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Weight & dimensions

Dimensions (w x d x h)	2440 x 1295 x 1302 mm (96.1" x 51.0" x 51.3")
Including built in bridge	
Approx. weight (including the blower)	1150 kg (2530 lb)

Environment	
Temperature range	21° C to 25° C (70°F to 77°F)
- Recommended	18° C to 26° C (64°F to 79°F)
- Required	
Humidity range	40% to 70% RH (non-condensing)
Power	1• 200-240 V 32 A 50 or 60 Hz

Avalon	N8-60 S
Imaging technology	Grating Light Valve (GLV) 512 beams
Laser type	830 nm thermal laser diodes
Recording system	External drum
Resolution	1200-2400-2540 dpi 4000 dpi (factory option)

Plate characteristics	
Maximum (lead edge x wrap)	1165 x 950 mm (45.9" x 37.4")
Minimum (lead edge x wrap)	304 x 305 mm (11.9" x 12.0")
Plate thickness	0.15 to 0.3 mm (6 to 12 mil, options for 0.4 mm support available)

Maximum imaging size	1165 x 938 mm (45.9" x 36.9") grip 6/6mm 304 x 293 mm (17.8" x 11.5") grip 6/6mm* *grip setting is 8 mm, drum rotation limits to 600 rpm
Plate compatibility	
Approved Agfa Graphics plates	Azura TS, Azura TU, Azura TE, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
Plate Loading and unloading configurations	
Manual loading	Yes
Internal punching	Option: support for up to 6 sets of punches. Standard and custom punches are available.
Automatic loading	Yes
Single cassette autoloader	Yes
Multi cassette autoloader	Yes
Manual unloading	Yes
On-line processor (OLP)	Yes
Throughput	
Energy Elite Pro: 1030 x 800 mm plate, 2400 dpi	33 pph, depending on plate sensitivity, screening and other factors
Weight & dimensions	

Dimensions (w x d x h)	2640 x 1475 x 1394 mm (103.9" x 58.0" x 54.9")
Approx. weight	1115 kg (2458 lb)
Including the blower	

Environment

Temperature range	21° C to 25° C (70°F to 77°F)
- Recommended	18° C to 26° C (64°F to 79°F)
- Required	
Humidity range	40% to 70% RH (non-condensing)
Power	1• 200-240 V 32 A 50 or 60 Hz

Avalon **N8-60 XT**

Imaging technology	Grating Light Valve (GLV) 512 beams
Laser type	830 nm thermal laser diodes
Recording system	External drum
Resolution	1200-2400-2540 dpi 4000 dpi (factory option)

Plate characteristics

Maximum (lead edge x wrap)	1165 x 950 mm (45.9" x 37.4")
Minimum (lead edge x wrap)	304 x 305 mm (11.9" x 12.0")
Plate thickness	0.15 to 0.3 mm (6 to 12 mil, options for 0.4 mm support available)
Maximum imaging size	1165 x 938 mm (45.9" x 36.9") grip 6/6mm 304 x 293 mm (17.8" x 11.5") grip 6/6mm* *grip setting is 8 mm, drum rotation limits to 600 rpm

Plate compatibility

Approved Agfa Graphics plates	Azura TS, Azura TU, Azura TE, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
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Plate Loading and unloading configurations

Manual loading	Yes
Internal punching	Option: support for up to 6 sets of punches. Standard and custom punches are available.
Automatic loading	Yes
Single cassette autoloader	Yes
Multi cassette autoloader	Yes
Manual unloading	Yes

On-line processor (OLP)	Yes
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Throughput

Energy Elite Pro: 1030 x 800 mm plate, 2400 dpi	43 pph, depending on plate sensitivity, screening and other factors
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Weight & dimensions

Dimensions (w x d x h)	2640 x 1475 x 1394 mm (103.9" x 58.0" x 54.9")
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Approx. weight	1115 kg (2458 lb)
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Including the blower	
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Environment

Temperature range	21° C to 25° C (70°F to 77°F)
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- Recommended	18° C to 26° C (64°F to 79°F)
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- Required	
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Humidity range	40% to 70% RH (non-condensing)
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Power	1• 200-240 V
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	32 A
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	50 or 60 Hz
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Avalon N8-80 XT

Imaging technology	Grating Light Valve (GLV) 1024 beams
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Laser type	830 nm thermal laser diodes
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Recording system	External drum
Resolution	1200-2400-2540 dpi
Plate characteristics	
Maximum (lead edge x wrap)	1165 x 950 mm (45.9" x 37.4")
Minimum (lead edge x wrap)	304 x 305 mm (11.9" x 12.0")
Plate thickness	0.15 to 0.3 mm (6 to 12 mil, options for 0.4 mm support available)
Maximum imaging size	1165 x 938 mm (45.9" x 36.9") grip 6/6mm 304 x 293 mm (17.8" x 11.5") grip 6/6mm *grip setting is 8 mm, drum rotation limits to 600 rpm
Plate compatibility	
Approved Agfa Graphics plates	Azura TS, Azura TU, Azura TE, Amigo TS Thermostar P970, Energy Elite, Energy Elite Pro
Plate Loading and unloading configurations	
Manual loading	Yes
Internal punching	Option: support for up to 6 sets of punches. Standard and custom punches are available.
Automatic loading	Yes
Single cassette autoloader	Yes

Multi cassette autoloader	Yes
Manual unloading	Yes
On-line processor (OLP)	Yes
Throughput	
Energy Elite Pro: 1030 x 800 mm plate, 2400 dpi	67 pph, depending on plate sensitivity, screening and other factors
Weight & dimensions	
Dimensions (w x d x h)	2640 x 1475 x 1394 mm (103.9" x 58.0" x 54.9")
Approx. weight	1115 kg (2458 lb)
Including the blower	
Environment	
Temperature range	21° C to 25° C (70°F to 77°F)
- Recommended	18° C to 26° C (64°F to 79°F)
- Required	
Humidity range	40% to 70% RH (non-condensing)
Power	1• 200-240 V 32 A 50 or 60 Hz

Auto Loaders

Autoloaders		N8-AL S
Model	Single Cassette Autoloader	
Applicability	Avalon N8 24 Series	
Description		
Cassettes, max. number online	1 cassette	
Plates per cassette	0.15 mm: 100 plates 0.2 mm: 100 plates 0.3 mm: 100 plates 0.4 mm: 75 plates Between 450 x 370 and 304 x 370 mm: 50 plates	
Removable cassettes	Yes	
Cassette carrier	Yes, included	
Slip sheet removal	Standard, capacity 100 sheets	
Plate sizes		
Maximum	1160 x 940 mm (45.6 x 37.0")	
Minimum	304 x 370 mm (11.9 x 14.6")	
Thickness	0.15 to 0.3 mm (0.4 mm as field option)	
Physical specifications		

Dimensions (w x d x h)	1758 x 1806 x 1280 mm (69.2 x 71.1 x 50.4")
Weight (no plates)	530 kg (1168 lb)

Environment

Temperature range	21° to 25° C (69.8° tot 77.0° F) 18° to 26° C (64.4° to 78.8° F)
Humidity range	40% to 70% RH (no condensation)
Power	Powered by main unit

Options

0.4 mm support	Yes
Additional carrier type cassette (dustproof cover)	Yes
Cassette carrier	Yes
Additional cassettes	No
Left layout (optional)	Yes

Autoloaders **N8-AL M**

Model	Multi Cassette Autoloader
Applicability	Avalon N8 24 Series

Description

Cassettes, max. number online	Up to 5 cassette (standard 3 cassettes)
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Plates per cassette	0.15 mm: 100 plates 0.2 mm: 100 plates 0.3 mm: 100 plates 0.4 mm: 75 plates Between 450 x 370 and 304 x 370 mm: 50 plates
Removable cassettes	No
Cassette carrier	No
Slip sheet removal	Standard, capacity 100 sheets
Plate sizes	
Maximum	1160 x 940 mm (45.6 x 37.0")
Minimum	304 x 370 mm (11.9 x 14.6")
Thickness	0.15 to 0.3 mm (0.4 mm as field option)
Physical specifications	
Dimensions (w x d x h)	3213 x 1806 x 1280 mm (126.5 x 71.1 x 50.4")
Weight (no plates)	1250 kg (2750 lb)
Environment	
Temperature range	21° to 25° C (69.8° to 77.0° F) 18° to 26° C (64.4° to 78.8° F)
Humidity range	40% to 70% RH (no condensation)

Power	Powered by main unit
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Options

0.4 mm support	Yes
Additional carrier type cassette (dustproof cover)	No
Cassette carrier	No
Additional cassettes	Yes (max. 5 in total)
Left layout (optional)	Yes

Autoloaders

N8-60/80 AL-S

Model	Single Cassette Autoloader
Applicability	Avalon N8-60 S/XT Avalon N8-80 XT

Description

Cassettes, max. number online	1 cassette
Plates per cassette	0.15 mm: 100 plates 0.2 mm: 100 plates 0.3 mm: 100 plates 0.4 mm: 75 plates Between 450 x 370 and 304 x 370 mm: 50 plates

Removable cassettes	Yes
Cassette carrier	Yes, included
Slip sheet removal	Standard, capacity 100 sheets
Plate sizes	
Maximum	1165 x 950 mm (45.9" x 37.4")
Minimum	304 x 305 mm (11.9" x 12.0")
Thickness	0.15 to 0.3 mm (0.4 mm as field option)
Physical specifications	
Dimensions (w x d x h)	1810 x 2330 x 1530 mm (71.3" x 91.7" x 60.2")
Weight (no plates)	600 kg (1323 lb)
Environment	
Temperature range	21° to 25° C (69.8° to 77.0° F) 18° to 26° C (64.4° to 78.8° F)
Humidity range	40% to 70% RH (no condensation)
Power	Powered by main unit
Options	
0.4 mm support	Yes
Additional carrier type cassette (dustproof cover)	Yes
Cassette carrier	Yes
Additional cassettes	No

Left layout (optional)	Yes
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Autoloaders	N8-60/80 AL-M
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Model	Multi Cassette Autoloader
Applicability	Avalon N8-60 S/XT Avalon N8-80 XT

Description

Cassettes, max. number online	Up to 5 cassettes (standard 3 cassettes)
Plates per cassette	0.15 mm: 100 plates 0.2 mm: 100 plates 0.3 mm: 100 plates 0.4 mm: 75 plates Between 450 x 370 and 304 x 370 mm: 50 plates
Removable cassettes	No
Cassette carrier	No
Slip sheet removal	Standard, capacity 100 sheets

Plate sizes

Maximum	1165 x 950 mm (45.9" x 37.4")
Minimum	304 x 305 mm (11.9" x 12.0")

Thickness	0.15 to 0.3 mm (0.4 mm as field option)
Physical specifications	
Dimensions (w x d x h)	3345 x 2330 x 1530 mm (131.7" x 91.7" x 60.2")
Weight (no plates)	1200 kg (2646 lb)
Environment	
Temperature range	21° to 25° C (69.8° to 77.0° F) 18° to 26° C (64.4° to 78.8° F)
Humidity range	40% to 70% RH (no condensation)
Power	Powered by main unit
Options	
0.4 mm support	Yes
Additional carrier type cassette (dustproof cover)	No
Cassette carrier	No
Additional cassettes	Yes (max. 5 in total)
Left layout (optional)	Yes

Availability

North America

Available in this region

South America

Available in this region

Europe

Available in this region

Asia

Available in this region

Africa

Available in this region

Oceania

Available in this region