

Next generation of quality and efficiency driven thermal plate production engines

# :Avalon VLF Thermal



## :Avalon Brings Your Operation into the Next Generation

Dramatic advances in imaging technology and experience in the demands of platesetting have allowed Agfa to deliver a new era of accuracy and efficiency with :Avalon. Agfa's HD Imaging Head, automatic calibration and an advanced operator control terminal are just a few of the new features that improve output quality, increase productivity, and ultimately, allow you to satisfy more customers more profitably.

Stay Ahead. With :Avalon.

### :Avalon VLF platesetter specifications

Imaging System	830nm infrared thermal with Grating Light Valve™ (GLV)	
Minimum plate size	20.0 x 15.7" (510 x 400mm)	
Maximum plate size	Standard Size Machine	Max plate
	VLF 50	50 x 45 in. (1270 x 1145 mm)
	VLF 55	55 x 50 in. (1397 x 1270 mm)
	VLF 60	60 x 50 in. (1525 x 1270 mm)
	VLF 65	65 x 55 in. (1655 x 1400 mm)
	VLF 70	70 x 55 in. (1780 x 1400 mm)
	VLF 75	75 x 58 in. (1905 x 1475 mm)
	VLF 80	80 x 58 in. (2030 x 1475 mm)
	Oversized Machine	Max plate
	VLF 83	83 x 63 in. (2110 x 1600 mm)
Thickness Supported	0.008 to 0.020 in. (0.2 – 0.5 mm)	
Approved plates	:Thermostar P970, LT2, :Ampio, :Azura and :Amigo (selected models) and other 830 nm plates. Please contact your local Agfa representative for more information.	
Resolutions	1200, 2400 dpi	
Non image areas - standard	Lead	.234" (6 mm)
	Trail	.234" (6 mm)
Non image areas - optional	Lead	.16" (4 mm)
	Trail	.16" (4 mm)
Plate Register system	Lead edge	2-point mechanical, up to 5 sets of locatable stop pins
	Side edge	Laser edge finding – anywhere on right, left or left and right edges, each plate programmable
Remote diagnostics	:Intellsyst system as available	
Footprint (wdh)	121 x 87 x 40 in. (3025 x 2210 x 1016 mm)	
Weight	6,410 lbs (2913 kg)	
Plate handling – all models	Loading	Manual continuous loading or automatic using PlateManager
	Unloading	Manual or on-line to an approved processor, stacker or conveyor
Screening levels	E, S, XT, XXT	Up to and including :ABS 200 lpi, :Sublima 240 lpi
	E Elite, S Elite, XT Elite, XXT Elite	Up to and including :Sublima 340 lpi, :CristalRaster 21 micron
Environmental requirements	• 65 to 85° F, (18 to 29° C) • 35% - 80% relative humidity	
Electrical requirements	230 v, single phase, 50/60hz	

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## :Avalon VLF Platesetter configurations

	Standard	Elite	Manual un-load	On-line Support	83 inch version	Dual plate
E	Yes	Yes	Yes	Yes	-	-
S	Yes	Yes	Yes	Yes	-	-
XT	Yes	Yes	Yes	Yes	Yes	Yes
XXT	Yes	Yes	Yes	Yes	Yes	Yes

## :Avalon VLF platesetter options

<b>Dual Plate option</b>	Description	Allows two plates to be loaded and imaged. Available Dec 2005
	Applicability	XT 80, XXT 80, XT 83, XXT 83
	Field upgradable	Yes
<b>Dual Plate specification</b>	Max plate	
VLF 80	38.4 x 58 in. (975 x 1475 mm)	
VLF 83	40.5 x 63 in. (1030 x 1600 mm)	
<b>Machine matching</b>	Description	Allows mixing of plates for 1 print job from two, or more, :Avalon Platesetters
	Applicability	XT 80, XXT 80, XT 83, XXT 83
	Field or factory	Can be ordered at time of purchase or at any time in the field. Inquire.
	Image Registration (fit) machine to machine	± 25 microns error circle
	Accuracy image to plate edge machine to machine	± 50 microns error circle
	Recommended limitation	Up to 200 lpi
<b>Avalon VLF field size upgrades</b>	Method	Available in multiples of 5 inch increments

## :Avalon VLF PlateManager

<b>Maximum number of cassettes</b>	Up to 4 cassettes at 1 time • Manages up to 16 cassettes
<b>Number of cassettes included</b>	4 included with each :PlateManager
<b>Plates per cassette</b>	8 mil (0.2 mm) = 50 to 70 (depends on size)
	12 mil (0.3 mm) = 40 to 50 (depends on size)
	16 mil (0.4 mm) = 25 to 40 (depends on size)
	20 mil (0.5 mm) = 20 to 30 (depends on size)
<b>Slip sheet removal</b>	Included with system
<b>Extra conveyors required</b>	None
<b>Upgrading</b>	All :Avalons in the field can be upgraded with :PlateManager
<b>Minimum plate size</b>	22.2 x 17.7", 8 mil (565 x 450 mm, .2 mm)
<b>Maximum plate size</b>	80 x 58", 20 mil (2030 x 1475 mm, .5 mm)
<b>Dimensions (wdh)</b>	138 x 86 x 75" (3530 x 2184 x 1905 mm)
<b>Weight</b>	5,380 lbs. (2440 kg) — without plates
<b>Electrical</b>	230v, single phase, 7 amps
<b>Environmental requirements</b>	• 65 to 85° F, (18 to 29° C) • 35% – 80% relative humidity
<b>Locating :PlateManager</b>	On the right or left side of the :Avalon
<b>Options</b>	• Cart (trolley) for transporting cassettes • Extra cassettes • Additional slip-sheet baskets
<b>Manual loading bypass</b>	yes

## Platesetter Imager upgrades

Platesetter	To E Elite	To S	To S Elite	To XT	To XT Elite	To XXT	To XXT Elite
E	Yes	Yes	Yes	Yes	Yes	-	-
E Elite	-	Yes	Yes	Yes	Yes	-	-
S	-	-	Yes	Yes	Yes	Yes	Yes
S Elite	-	-	-	Yes	Yes	Yes	Yes
XT	-	-	-	-	Yes	Yes	Yes
XT Elite	-	-	-	-	-	Yes	Yes
XXT	-	-	-	-	-	-	Yes
XXT Elite	-	-	-	-	-	-	-

## :Avalon VLF Models - Imager Choices

Head	Standard	Universal	Elite
Plates	P-970, LT-2, other qualified plates	P-970, LT-2, other qualified plates Plus :Amigo	P-970, LT-2, other qualified plates
Screening	Up to: 240 Sublima 200 lpi ABS	Up to: 240 Sublima 200 lpi ABS	Up to: 340 Sublima 21 micron CR
E	-	✓	✓
S	-	✓	✓
XT	✓	-	✓
XXT	✓	-	✓

## :Avalon VLF Platesetter Throughputs

Conditions	<ul style="list-style-type: none"> <li>• 140 mj/cm<sup>2</sup> plates (Thermostar only)</li> <li>• 2400 or 1200 dpi</li> <li>• Throughput may vary with screen type (XT Elite and XXT elite only)</li> <li>• Approved processor and configuration</li> </ul>											
Platesetter Throughput	<b>P970</b> plates per hour (up to)						<b>:Amigo</b> plates per hour (up to)					
	Single plate			Dual plate			Single plate			Dual plate		
Plate width (inches)	82,7	66,9	35,4	2 x 40,5	2 x 35,4	2 x 27,6	82,7	66,9	35,4	2 x 40,5	2 x 35,4	2 x 27,6
(mm)	2100	1700	900	2 x 1030	2 x 900	2 x 700	2100	1700	900	2 x 1030	2 x 900	2 x 700
VLF E	-	5,5	10,0	-	-	-	-	5,5	9,0	-	-	-
VLF S	-	8,0	13,0	-	-	-	-	7,5	12,5	-	-	-
VLF XT	-	11,0	17,5	-	-	-	-	11,0	17,5	-	-	-
VLF XXT	-	16,5	24,0	-	-	-	-	-	-	-	-	-
VLF XT with Dual plate option	-	11,0	17,5	-	20,0	23,5	-	11,0	17,5	-	19,5	23,5
VLF XXT with Dual plate option	-	16,5	24,0	-	28,0	28,0	-	-	-	-	-	-
VLF 83 XT	8,0	9,5	14,5	-	-	-	8,0	9,5	14,5	-	-	-
VLF 83 XXT	12,0	14,0	19,5	-	-	-	-	-	-	-	-	-
VLF 83 XT with Dual plate option	8,0	9,5	14,5	15,5	17,5	20,5	8,0	9,5	14,5	15,5	17,5	20,5
VLF 83 XXT with Dual plate option	12,0	14,0	19,5	23,0	25,0	28,0	-	-	-	-	-	-

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