Epson Stylus Pro 7890 and 9890 Print Engine Specifications

Printing Technology
Advanced MicroPiezo TFP print head
   with ink repelling coating technology
8-channel, drop-on-demand, ink jet print head
9-cartridge (C, Lc, VM, VLm, Y, Lk, LLk + PK or MK)
Auto head alignment and cleaning technology
Auto sharing black ink channel
Epson UltraChrome K3 with Vivid Magenta Ink technology
Professional-level pigment-based ink technology

Nozzle Configuration
Color and Monochrome   360 nozzles x 8

Droplet Technology
Smallest droplet size   3.5 picoliters
Variable Droplet Technology produces up to three different droplet sizes per print line

Epson Intelligent Ink Cartridges[C]
Starter cartridge fill volume   110 ml x 9 total colors
                                (used for initial fill at setup)
Replacement cartridge   150 ml, 350 ml or 700 ml
   fill volume   each color x 9 colors total
Ink cartridge shelf life   2 years from printed
   (recommended)   date or 6 months after open

Resolution
2880 x 1440 dpi; 1440 x 1440 dpi; 1440 x 720 dpi;
720 x 720 dpi; 720 x 360 dpi; 360 x 360 dpi

Auto-Sharing Black Ink Technology[D]

Black Ink Conversion	Time	Ink Used
Photo to Matte Black	2:07	1.13 ml
Matte to Photo Black	2:55	3.34 ml

Print Engine Speed[E]
16" x 20" prints from 1:53 to 7:14   —   Normal is 3:47
20" x 30" prints from 4:03 to 12:52   —   Normal is 6:39
40" x 60" prints from 12:26 to 40:05   —   Normal is 24:20

Acoustic Noise Level
Approximately 45 dB(A) according to ISO 7779

Operating Systems Supported
Macintosh   Leopard 10.5 or higher (16-bit file support)
Windows   XP/Vista/7 (both x32 and x64 supported)

Printer Interfaces
Includes as standard one Hi-Speed USB 2.0 (1.1 compatible) and one Ethernet port (10/100Base-T)

Dimensions
SP7890   54" (W) x 27" (D) x 48" (H)
              Weight: 187 lb
SP9890   74" (W) x 27" (D) x 48" (H)
              Weight: 256 lb
Dimensions and weight include printer stand

Electrical Characteristics
Voltage	AC 100 – 240 V
Frequency	50 – 60 Hz
Power consumption	
Operating	70 W
Sleep	< 16 W
Off (standby)	< 1 W

Optional SpectroProofer (24"/44")
Carriage mechanism	24" or 44" wide
Spectrophotometer	X-Rite ILS20EP
Measurement accuracy	Below 0.2 dE94
Minimum patch size	7.9 mm (W) x 7.9 mm (H)
Measurement time	15 patches per second
UV handling	UV and UV-cut version available (at time of order)
Backing color	Both white and black backing plates included
Workflow integration	Most leading third-party RIPs and workflows

Printable Area
Maximum paper width   SP7890 – 24"   SP9890 – 44"
Maximum printable width   SP7890 – 24.16"   SP9890 – 44.16"
Left and right margins   0 to 3 mm each (0.24" total)
Maximum printable length   Limited by application, OS, and driver/RIP used
Minimum paper width   210 mm (8.27")

Media Handling
SP7890	Media input	Single roll up to 24" width
	Cut-sheet size	Up to 24" wide media (auto-loading)
SP9890	Media input	Single roll up to 44" width
	Cut-sheet size	Up to 44" wide media (auto-loading)
Roll media take-up reel (SP9890 only)		Auto forward and backwards; Light-based media tension sensor
Media core compatibility		User-adjustable roll media adapters accept either 2" or 3" media cores
Max. roll media diameter		6" (when using a 3" core)
Media weight		12 lb bond (0.08 mm), up to 1.5 mm posterboard
Minimum sheet size		210 mm x 279 mm / 8.27" x 11"
Built-in media cutter		Rotary cutting, automatic and manual

BorderFree® Printing
Left and right borderless "bleed" printing for the following roll media widths:
SP7890   10", 13", 16", 17", 24"
SP9890   10", 13", 16", 17", 24", 36", 44"
Top and bottom edges can be automatically cut to any length when printing on roll media.

Print Permanence[F]
Epson UltraChrome K3 Ink   Color: Up to 200 years
                                    B&W: Over 200 years

Epson PreciseColor™ Manufacturing
In order to ensure consistent printing between multiple Epson Stylus Pro printers of the same model, Epson has refined the manufacturing process to include colorimetric calibration. This process evaluates and adjusts each printer's performance at the manufacturing stage, ensuring consistent color output from printer to printer and print to print.

Product/Accessories	Part Numbers	
	SP7890	**SP9890**
Epson Stylus Pro Printer	SP7890K3	SP9890K3
Designer Edition	SP7890DES	SP9890DES
(Also includes EFI eXpress RIP for Epson)		
Epson SpectroProofer	SPECTRO24	SPECTRO44
UV-cut filter version	SPECTRO24UV	SPECTRO44UV
Automatic Take-up		
Reel System	Not Available	C12C815321
Replacement 44"		
Take-up Reel Core	Not Available	C815121
Additional Roll Media		
Adapters	C12C811241	C12C811241
Replacement Printer		
Cutter Blade	C12C815331	C12C815331
Replacement		
Ink Maintenance Tank	C12C890191	C12C890191

Extended Service Programs
	SP7890	SP9890
Additional One-year Epson Preferred Plus Service	EPP7898B1	EPP7898B1
Additional Two-year Epson Preferred Plus Service	EPP7898B2	EPP7898B2
Additional One-year Epson Preferred Plus Service SpectroProofer only	EPPSPB1	EPPSPB1

Epson UltraChrome K3 Ink	150 ml	350 ml	700 ml
Photo Black ink cartridge	T642100	T596100	T636100
Cyan ink cartridge	T642200	T596200	T636200
Vivid Magenta ink cartridge	T642300	T596300	T636300
Yellow ink cartridge	T642400	T596400	T636400
Light Cyan ink cartridge	T642500	T596500	T636500
Vivid Light Magenta ink cartridge	T642600	T596600	T636600
Light Black ink cartridge	T642700	T596700	T636700
Matte Black ink cartridge	T642800	T596800	T636800
Light Light Black ink cartridge	T642900	T596900	T636900

A   Photographic graininess could still be visible if present in the actual file being printed.

B   Dmax and L* values are based on Epson Premium Luster Photo Paper (260).

C   Cartridge yields vary considerably for reasons including images printed, print settings, temperature and humidity. Yields may be lower when printing infrequently or predominantly with one ink color. A variable amount of ink remains in the cartridge after the "replace cartridge" signal. Part of the ink from the first cartridges is used for priming the printer. Ink is used for both printing and print head maintenance. All inks are used for both black and color printing. For more information about cartridges, see www.epson.com/cartridgeinfo

D   Ink used in conversion varies considerably based on temperature and other factors.

E   Based upon print engine speed only. Total throughput times depend upon front-end RIP, file size, printer resolution, ink coverage, networking, etc. Normal Mode based on SuperFine — 1440 dpi.

F   Print permanence based on accelerated testing of prints on specialty media, displayed indoors, under UV coated glass. Actual print stability will vary according to media, printed image, display conditions, light intensity, humidity and atmospheric conditions. Epson does not guarantee longevity of prints. For maximum print life, display all prints under glass or lamination or properly store them.

For more details, visit our website at:
www.proimaging.epson.com

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For more information on Epson's environmental programs, go to eco.epson.com

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