

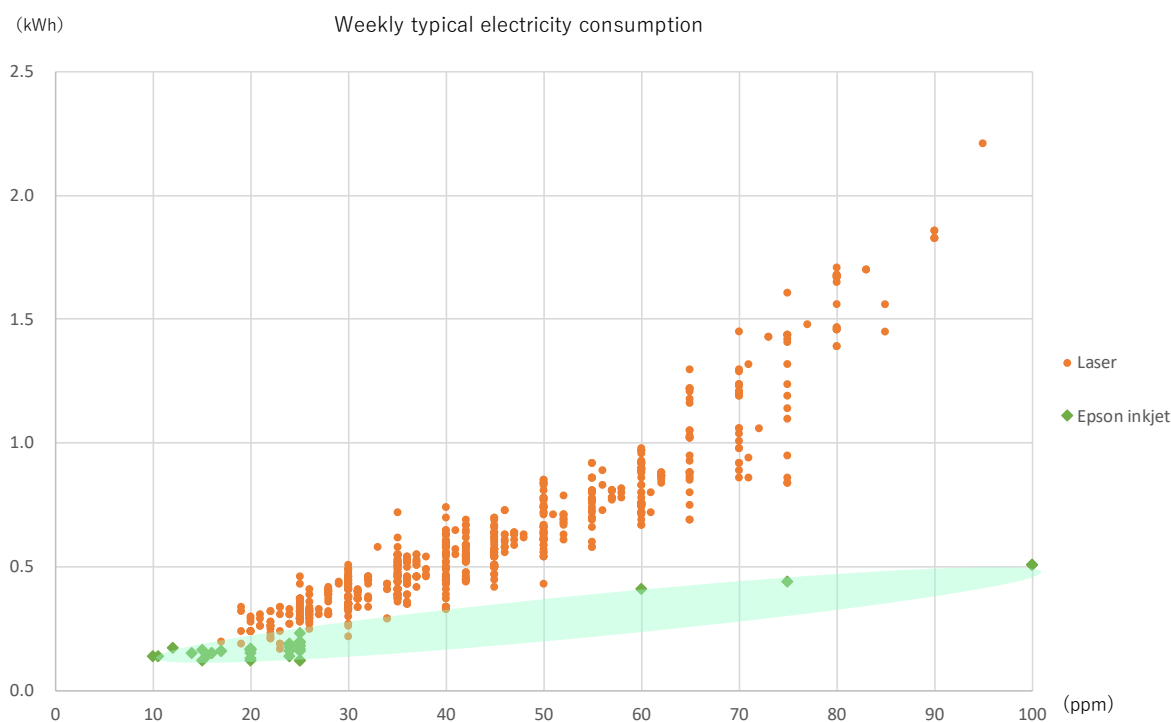
Report:

## Energy efficiency of Heat-Free Technology

This report shows the data how Epson inkjet printers in SOHO/SMB/Enterprise are energy efficient.

Epson inkjet printers use Heat-Free Technology to deliver environmental benefits. Energy saving is one of them. Heat-Free Technology does not require heat in the ink ejection process. Instead pressure is applied to the Piezo element, which flexes backwards and forwards firing the ink from the printhead. Unlike laser printers which need heat for the fuser to enable printing, inkjets require no heat in the printing process which results in significantly low energy consumption.

The graph below plots the weekly typical electricity consumption (TEC) of laser and Epson inkjet printers.



All A4/A3 Monochrome & Color Electro-photographic models with outputs of 100 ppm or less (excluding Digital Front End) which are posted on [energystar.gov](http://energystar.gov) as of May 16, 2022. Typical electricity consumption (TEC) for Epson inkjet printers are calculated by Epson based on the ENERGY STAR® TEC test method criteria. Electricity consumption will vary according to the customer printer use.

TEC (Typical Electricity Consumption) refers to the power consumption for one week (five days when operation and sleep/off are repeated + two days when sleep/off) assuming the use of a standard printer usage in the office.

Epson inkjet product list (The following is for the US at 115V, but TEC is almost the same in other voltage regions.)

Model Number	Print Speed (ppm)	TEC (kWh)
WF-C21000 series	100	0.51
WF-M21000 series	100	0.51
WF-C20750 series	75	0.44
WF-C20600 series	60	0.41
WF-879R series	25	0.23
WF-878R series	25	0.20
WF-C8690 series	25	0.19
WF-C8190 series	25	0.18
WF-4830 series	25	0.18
WF-3820 series	25	0.17
WF-4820 series	25	0.16
WF-7840 series	25	0.12
WF-7820 series	25	0.12
WF-C579R series	24	0.19
WF-C529R series	24	0.18
WF-M5299 series	24	0.16
ET-5850 / L6500 series	24	0.14
ST-M3000 / ET-M3180 series	20	0.17
ET-M3170 series	20	0.16
WF-3730 series	20	0.15
ET-M2170 series	20	0.13
ST-M1000 / M1180 series	20	0.12
ET-8500 / L8160 series	16	0.15
ET-8550 / L8180 series	16	0.15
WF-2860 / 2880 series	14	0.15
ET-15000 / L14150 series	12	0.17
ET-3850 / L6270 series	15.5	0.14
ET-4750 / L6190 series	15	0.16
ET-3830 / L6260 series	15	0.12
ET-2850 / L4260 series	10.5	0.14
ET-2800 / L3260 series	10	0.14
ET-5170 / L6490 series	17	0.16
ET-5150 / L6460 series	17	0.16

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