Sustainable printing for the future

A comparison on eco-friendliness and profitability

With the ever-growing concern of climate change and more stringent rules and regulations on CO2 emissions, it's important to consider the environmental impact when choosing a printer to purchase. But which technology offers the best balance between sustainability and profitability? To help you get a better picture, we've made a comparison between the two digital printing technologies at the forefront of sustainable development: UV LED and Latex.

Max. Power Consumption

UV **1.4kw Comparable to**

1 microwave

Less power consumption because no drying heater is needed.

Latex **5.0kw Comparable to**

4 microwaves

Uses thermal heads and needs drying heater to cure the inks.

Based on their max. power consumption, we can estimate the CO2 emission:

UV **per month**

40.58 kg CO_2

UV **per year**

140.91 kg CO_2

Comparable to the emission of a **Tesla Model S** driving from Los Angeles to DC and back **(8,608 km)**.

Latex **per month**

485.99 kg CO_2

Latex **per year**

1,687.46 kg CO_2

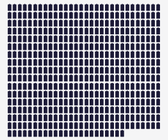
Comparable to the emission of a **family SUV** driving the **same distance**.

Printing the same 4m² data output for a week

Cumulative power

UV **0.23 kW/h**
Comparable to **77 dry cell batteries**.

Latex **1.51 kW/h**
Comparable to **503 dry cell batteries**.



*Number of dry cell batteries is calculated using AA Alkaline dry cell batteries of 1.5V, 2000mAh.

CO2 emission

UV **26.34 kg**
= Driving **113 km** with a standard car.

Requires **3 trees** to absorb the emission.

Latex **259.22 kg**
= Driving **1,115 km** with a standard car.

Requires **29 trees** to absorb the emission.

Head replacement

UV once after

72L of use

1 head is disposed of as industrial waste within **2 years**.

Latex once after

6L of use

25 heads are replaced within **2 years**.

Thermal heads used by latex printers are consumables that need to be replaced when image quality deteriorates, usually after 6L of use.

Within two years

UV ink consumption

107L

Running cost

$16,292

Latex ink consumption

149L

Running cost

$28,213

Overall, the running costs of UV are lower:

Lower ink consumption.

Lower cumulative power consumption also means a lower electricity bill.

Only one head replacement in two years.

Lower wastage of ink and maintenance cartridge replacement costs

UV printing is a great option when you want to make the best choice for your business and the environment in the long run.

Discover our Mimaki UV printers that will help you meet your sustainability goals.

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