

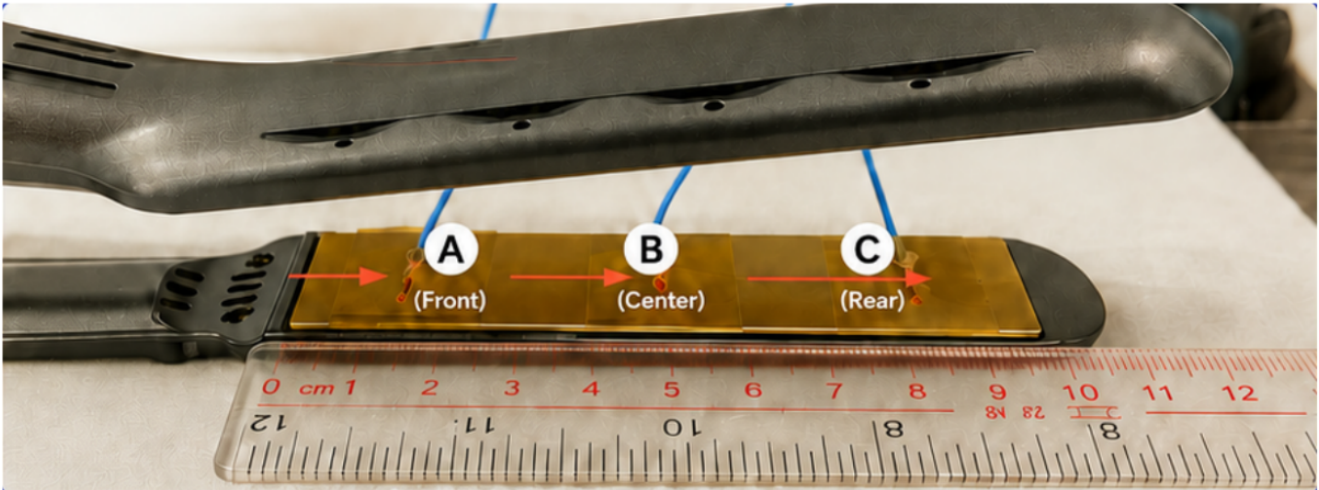
All Three Measured Points Reach 200°C After 15 Seconds

Rapid heating and temperature stability test
European-market maximum setting: 260°C | Test voltage: 230 V

Time	Temperature at measurement points (°C)			Temperature difference (°C)		
(s)	A (Front)	B (Center)	C (Rear)	A – B	C – B	C – A
10	159.5	168.4	148.5	-8.9	-19.9	-11.0
13	197.3	209.6	167.7	-12.3	-41.9	-29.6
15	212.5	227.5	200.0	-15.0	-27.5	-12.5
20	233.0	248.1	224.3	-15.1	-23.8	-8.7
25	241.4	254.2	235.1	-12.8	-19.1	-6.3
30	246.0	257.4	241.5	-11.4	-15.9	-4.5
45	250.5	258.8	249.7	-8.3	-9.1	-0.8
60	252.3	259.5	252.8	-7.2	-6.7	0.5
90	254.6	260.5	254.9	-5.9	-5.6	0.3
120	255.1	260.3	255.5	-5.2	-4.8	0.4
150	256.2	260.3	255.6	-4.1	-4.7	-0.6
180	256.7	260.4	255.7	-3.7	-4.7	-1.0

All three measured locations reached at least 200°C after 15 seconds.

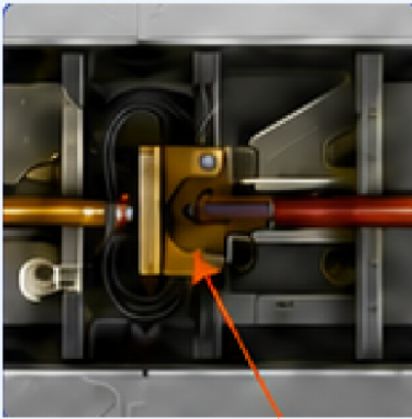
From around 60 seconds onward, the temperature spread among the three measured locations narrowed and showed a stable trend.



Precision Temperature Control Technology

NTC sensing inside the MCH, MCU control and independent heater control

NTC sensor inside the MCH



NTC sensor

An NTC sensor positioned inside the metal ceramic heater (MCH) detects temperature.

1 TEMPERATURE SIGNAL

The NTC sensor detects temperature.

2 MCU CONTROL

The microcontroller (MCU) reads the signal and adjusts heater output.

UPPER MCH HEATER

Independent temperature control

LOWER MCH HEATER

Independent temperature control

The upper and lower heaters are independently temperature-controlled.

Designed to support stable temperatures after rapid heat-up.

Multiple Protection Circuits

Five protection functions | European-market maximum setting: 260°C

1

Overcurrent protection

A 6.3 A fuse cuts off power if a short circuit or overcurrent occurs.

2

Input overvoltage protection

Power shuts off if input voltage exceeds 270 V AC.

3

Input undervoltage protection

Power shuts off if input voltage falls below 85 V AC.

4

First-stage overheat protection

Power shuts off if plate temperature exceeds 280°C.

5

Second-stage overheat protection

A 300°C thermal protection switch provides a second stage of overheat protection.