



Flexibility, no-downtime
now available for
Electric Fusion

The Ultimate electric fusion

Full temperature range for no-compromise methods - Perfect for ICP and XRF sample preparation

At NIEKA®, we used our strong experience from the fusion industry and forged an instrument that is the perfect fit for the most demanding industrial fusion laboratories. Downtime is your enemy, and using the best tool is your only way to remain on top and deliver results on time.

For the past years, we spent thousands of hours to bring reliability and flexibility to electric fusion. We created a new range of products based on the unique and proven Nieka® platform in conjunction with all the latest manufacturing technologies to create these easy-to-maintain and powerful instruments.

You will be able to create perfect fusion methods based on chemistry and not instrument limitation. This will save you time and allow your lab to obtain perfect fused samples, every time.

FEATURES



Fully automated glass bead or solution preparation



Unique safe to touch glass surface



No fragile ceramic parts



Up to 1275°C fusion temperature



Ultra-precise temperature control for complex pre-oxidation



Exhaust fumes concentrated in a small extraction area



Plug and use in seconds



208-240 V single or 3-phase versions available

E1

Real circular stirring motion
for faster sample dissolution

See-through door
with automatic locking

Clip-on heating modules
for instant maintenance

Very large and
intuitive interface

Powerful fan units for rapid
cold-to-cold operation

USB and network for
upgrades and backups

Perfect temperature
control in each
fusion chamber

Clean-air channel for
contamination-free
operation

E3



Technical Specifications

E1

E3

Power	208-240Vac 50-60Hz 1 PH up to 2kW heating power	208-240Vac 50-60Hz 1 or 3PH / 380-415Vac 50-60Hz 3 PH, up to 6kW heating power
Dimension (W, H, D)	45 x 40 x 60 cm; 50 kg	70 x 40 x 63 cm; 64 kg
Ventilation requirement	No full hood required 3 m3 / min. extraction point	No full hood required, 7 m3 / min. extraction point
Heaters	High-emissivity resistive heaters	
Programming	Up to 32 steps per program; 32 program storage space + external USB	
Mixing	Clockwise and counterclockwise agitation, fully configurable	
Heating configuration	25-1275°C temperature for each step	
Bead cooling	Fully configurable cooling steps, from 0 to 100%	
Heater servicing	Modular crucible and mold heaters with quick connectors	
Connectivity	USB/LAN connectivity	
XRF / ICP sample preparation capability	Bead-solution switch using modular system (no tool required)	

