electric burner for various experimental applications

Electric burner is a kind of electric heating equipment commonly used in laboratories and households, which adopts the heating principle of resistance wire and can provide fast and even heat treatment for various containers.

Electric Burner

The electric burner features a sturdy and compact design, ideal for desktop use. Equipped with a thermostat system, it allows precise control of heating intensity, ensuring experimental stability and safety.

Features

1. **High-Strength Body Shell:** Made from premium cold-rolled steel with electrostatic spraying for a flat, attractive, and highly corrosion-resistant surface.
2. **Optimized Operating Interface:** Slanted, closed control panel protects circuits from liquid splash, suitable for diverse environments.
3. **Electronic Temperature Control:** Stepless temperature knob enables continuous heating adjustment from low to high; intuitive and flexible control.

4. **High Heating Efficiency:** Built-in quality resistance wire for fast thermal response and uniform heating, suitable for long-term stable operation.

Technical Advantages

1. **Stable Structure & Long Service Life:** Cold-rolled steel shell resists deformation and ensures durability.
2. **Safety Protection:** Closed control panel design minimizes liquid corrosion risk.
3. **Precise Temperature Control:** Electronic regulation is more stable and accurate than mechanical controls.
4. **Rapid Heating & High Efficiency:** High-quality resistance wire reduces energy loss for efficient heating.
5. **Easy Maintenance:** Simple structure for convenient daily cleaning and upkeep.

Working Principle

Based on Joule's law, the electric burner generates heat as current passes through a resistance wire wound on a high-temperature substrate. The wire heats quickly and transfers energy to the heating plate surface by radiation and conduction. Users adjust voltage and temperature via the front panel thermostat knob for precise power and temperature control. The inclined, enclosed panel protects internal circuits and offers ergonomic monitoring and adjustment.

electric stove with teflon totally closed heating plate

Model	ES10	ES11	ES20	ES40	ES60
Heating element	resistance wire				
Temperature adjustment method	varistor				
Power	1.0kw	2.0kw	1.0x2kw	1.0x4kw	1.0x6kw
Heating plate size	125x125mm	155x155mm	125x125mm		
External dimensions	W150xD180xH140 mm	W185xD220xH160 mm	W305xD180xH140 mm	W610xD180xH140 mm	W910xD180xH140 mm
Power supply	220Vac, 50Hz, 4.5A	220Vac, 50Hz, 9.1A	220Vac, 50Hz, 9.1A	220Vac, 50Hz, 18.2A	220Vac, 50Hz, 27.3A

electric stove with teflon totally closed heating plate

Model	ES10	ES11	ES20	ES40	ES60
Weight	1.5Kg	2.5Kg	3Kg	5.3Kg	7.5Kg