ZDR-22 Water-cooled Braking Resistor Unit

Features

- Stainless steel shell and heat-transfer filler separate water and electrics
- Metal resistor core withstands transient current surges
- Resistant to thermal expansion and contraction
- Fresh/pure-water cooling; high water-quality requirements



Applications

For water-cooled tanks used in load and braking applications.

Electrical & Operating Specifications

Parameter	Specification
Resistance range	10-500 Ω
Braking power per unit	100 kW
Load power per unit	30 kW
Insulation withstand	DC 10 kV; AC 7 kV
Insulation resistance	Cold ≥200 MΩ; hot ≥20 MΩ
Cooling	Fresh water or pure water
Inlet/outlet water temperature rise	>15 K
Protection	Sealed tank ≥IP68; other parts ≥IP44; salt-spray and moisture resistant
Resistor size	1310×φ240 mm; customizable

Design & Installation

Uses stainless tubular power resistors for high reliability, thermal conductivity, voltage withstand and insulation.

Modular construction facilitates installation, use, maintenance and replacement.

Argon-arc-welded flanges and supporting flanges resist shock, vibration and collision.

Installation tanks can be sized to the required power volume and voltage withstand.