

BRAKING RESISTOR

THE KEY TO THERMAL AND PROCESS HEATING

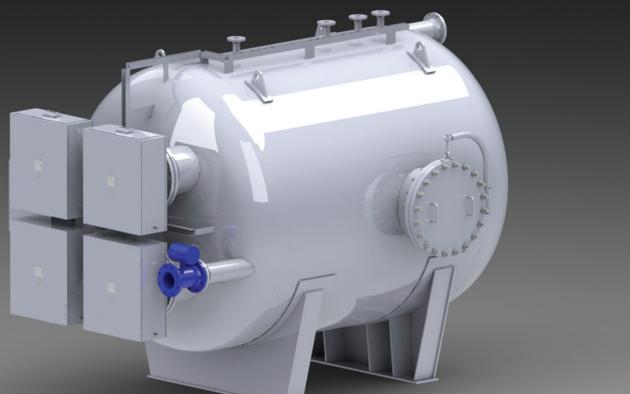


Unlike a heater where electric current passes through resistive wire to generate heat for specific purposes such as heating a medium, a Braking Resistor works the reverse way and is used in electrical drive system.

ABOUT

When a machinery is required to stop, the action of decelerating of the motion transforms kinetic energy into electrical energy and this process is known as dynamic braking which can be either regenerative braking or rheostatic braking.

In regenerative braking, the electrical power generated is put back into power system whereas in rheostatic braking, it is being dumped through the resistor which acts as a load bank and dissipated as heat.



What We Offer

DFINITI customises design and builds Braking Resistor in a wide range of duty and can be water-cooled or air-cooled, arranged in single or multiple bank unit to suit different needs.

Application

Braking Resistors are commonly used in various types of industries and they play a part in different applications specifically for Marine and Offshore industry which include:

- ▣ Drilling Rigs
- ▣ Ships
- ▣ Crane System
- ▣ Barge and offshore support vessel
- ▣ Winches, etc.

Certification

The resistors can be designed to high voltage to meet the system specification and in accordance with Marine classification requirements such as DNV, ABS, BV, CCS and alike.

Specification

Supply voltage	Max 1500VDC
Power	Up to 5000kW in a single unit
Configuration	Single or multiple units

	Fresh Water Cooled	Seawater Cooled	Fan Cooled
Operating Pressure	Typically 2 ~ 6 barg		Atm
Operating Temperature	< 95°C		N/A
Location	Indoor or outdoor		Outdoor
Element Sheath Material	SS316	Titanium	Alloy or SS
Element Diameter	16mm		
Terminal Box	SS316, IP66		
Vessel/Enclosure	SS316	SS316 with internal marine grade coating	SS316
Instruments	Flowmeter, Pressure/temperature/level transmitter, PSV, thermowell etc		Temperature sensor, airflow sensor



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