BRAKING RESISTOR

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.

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
- Barge and offshore support vessel
- Crane System
- 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.

Note: ATEX/IECEx certified products are available.

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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