

Emergency braking resistors



Marine application

Our resistors are yet installed in LNG carriers and cruise ships.

Due to innovative combination between resistor cubicle, none heating internal skin and hydro-cooler, our resistors can absorb and dissipate your braking energy without heat impact on ambient environment.

Legend

1. water cooling system
2. none heating internal skin
3. resistor banks

Characteristics of our last emergency braking resistors :

- Nominal voltage : 6 kV DC
- Resistance value at 45°C : 4 x 3.5 Ohms
- Maximal energy to dissipate per braking : 80 MJ
- Time per braking : 40s
- Maximal accessible outer face temperature of resistor cabinet : 60°C.
- No temperature rise on resistor cubicle.

Water cooling system characteristics :

- Water pressure : 8 bar
- Water quality : can sustain sea water.

In case of pump breakdown, these resistors can also dissipate the breaking energy without water cooling system.

