



GRT style resistors are medium to high power resistors for constant load as in Filter applications and long braking cycles (example cranes). The GRT is constructed with Ø16mm tubular resistor elements, banded in U-shape and welded into two supports. On one side there is the electrical connection box in IP65 or higher.

The whole construction is made of stainless steel (AISI 304 – 316 – 321) which ensures long lifetime. The connection box can be stainless steel or aluminium. The GRT has no life parts, so there is no danger at all for electrical shock. Standard there is a temperature protection for the R-elements as well as a condensation protection in the connection box.

The GRT resistors are designed for natural convection and are available in three types, using 3-9 or 10 resistor tubes in different length for different power. Maximum rated power is 7 – 21 – 25kW, with high overload capability. Special configurations are on request (12-18 tubes-split configurations-start or delta configurations.). The electrical connection box can be equipped with different cable lands, depending on your application.

The GRT is a very safe and industrial resistor

The GRT series can be used when medium to high power dissipation is required without the need of a ventilator which is always a weak link in industrial environment. Typical applications are brake resistors for cranes, dump resistors for small wind turbines, deck equipment for ships...

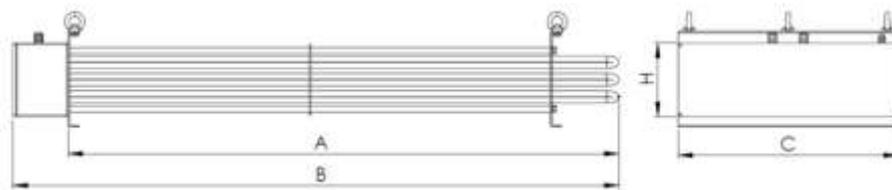
The high dielectric value (3.500V/50Hz @1min) allows this resistor to be used in combination with chopper circuits on the DC-link from motor drives (up to 1.100VDC). The GRT has low inductance which is positive in this type of application. Very low noise level is another advantage from this series.

Outdoor installation of the GRT resistors offers you the advantage of easy installation as well as efficient energy dissipation. As the outside of the complete resistor has no life parts, there is no danger at all for electrocution. Safety regulations are therefore limited to the thermal aspect only.

● Connection box

The connection box can be fitted with different cable glands as per customer specifications. Either in nickel plated copper or in stainless steel. Inside the box the electrical connections can be DIN rail terminals, cable lugs or threaded rods.

● Dimensions



Type	A(mm)	B(mm)	C(mm)	H(mm)
GRT	975	1061	142	100
GRT	975	1100	270	210
GRT	975	1077	250	316

● Applications And Ratings

Type	ohm value(Ω) $\pm 5\%$	Power of fans(kw)	Weight(kg)
GRT	2~60	7	7
GRT	2~40	21	30
GRT	2~40	25	30

● Performance

General Specifications	—
Insulation resistance	> 20 M Ω @500 VDC
Dielectric strength	3.500VAC@50Hz 1min
Limit element voltage	2.500v
Protection degree	Ip65/Ip66
Cooling	natural convection