



GxxRT16

**Stainless steel high power
air cooled Resistor**

3kW - 32kW



GxxRT16 style resistors are medium to high power resistors for constant load as in Filter applications and long braking cycles (example cranes). The GxxRT16 is constructed with $\varnothing 16\text{mm}$ tubular resistor elements, bended 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 GxxRT16 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 GxxRT16 resistors are designed for natural convection and are available in three types, using 3 , 9, 10 or 12 resistor tubes in different length for different power. Maximum rated power is up to 32kW, with high overload capability. Special configurations are on request. The electrical connection box can be equipped with different cable glands, depending on your application.

The GxxRT16 is a very safe and industrial resistor.

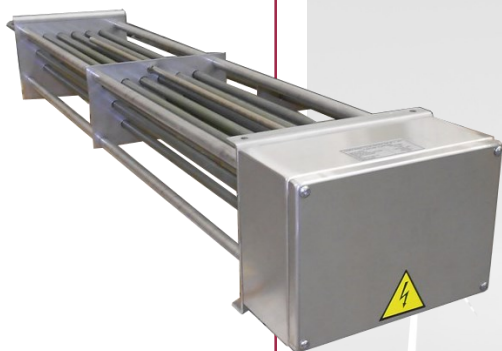
The GxxRT16 series resistors can be used when medium to high power dissipation is required, without the need for a ventilator (considered a weak link in certain industrial environments). Typical applications are brake resistors for cranes, dump resistors for small wind turbines, deck equipment for ships, etc.

The high dielectric value (3,500V/50Hz @ 1min) allows this resistor to be used in combination with chopper circuits on the DC-links of motor drives up to 1,000VDC. Additionally, the GxxRT16 has a low noise level.

Outdoor installation of the GxxRT16 resistors offers the advantage of easy installation as well as efficient energy dissipation. As the outside of the resistor has no live parts, there is no danger of electrocution and safety regulations are therefore limited to thermal aspects only.

Connection box

The connection box can be fitted with different cable glands, 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.



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Type	Ohmic value [Ω] ±5%	Power P _n [kW]	Weight [kg]
G3RT16	2 - 60	3 - 6	4 - 7
G9RT16	2 - 40	7 - 11	15 - 22
G10RT16	2 - 40	8 - 27	18 - 38
G12RT16	1 - 30	9 - 32	

General Specifications

Insulation resistance	≥40 MΩ @ 5,000 VDC
Dielectric strength	3,500 VAC @ 50Hz 1 min
Limit element voltage	1,100 V
Protection degree	IP65 / IP66
Cooling	natural air cooled

Dimensions	A [mm]	B [mm]	C [mm]	H [mm]
G3RT16	900 - 1700	A + 86	142	100
G9RT16	1000 - 1500	A + 125	270	210
G10RT16	1000 - 3200	A + 80	300	260
G12RT16	1000 - 3200			

