

Electro Heat From Idea to Order

New Load Resistor - 500kg to 7.5 ton - 500kW to 765kW



The old load resistor for test of light and heat generators in electrical and diesel locomotives had to surrender after 30 years of dedicated service.

When SAN first received the enquiry for designing a new load resistor, customer had quite many intensified requirements together with a request for higher power and increased voltage. Furthermore, an intelligent control with wireless remote control was needed, and finally noise level should be limited to maximum 65dB.

Now SAN's technical department was ready to start calculating and designing the new load resistor.

The new requirements to power and voltage:

750kW

1750 Volt

Full double insulation to all contact parts

Option for connection in 32 steps.

The new load resistor tool shape on the drawing table with the following dimensions:

Length: 6400mm

Width: 2600mm

Height: 2750mm

Weight: 7500kg

The fundamental construction was designed as a powder painted steel construction and the inner construction at the load resistors was manufactured in stainless steel. All terminal boxes were manufactured in stainless steel as well.

The new data are now:

765kW

1750 Volt

Full double insulation to all contact parts tested at 8000 Volt.

Digital control with monitoring and data locking, full wireless remote control with data reading and operation.

Connection in 32 steps.

Monitoring of air temperature in air inlet and outlet during the entire operation.

Digital readings of Watt, Volt and Ampere.

Noise level 0dB, as only natural cooling without fans is used.

