

# Heat Sink with embedded Heat Pipes RCO1

## Application

This heat sink with embedded heat pipe is aimed at cooling down IGBT modules in traction equipment. It is placed under the floor in traction vehicles.

## Main Characteristics

This system works in natural convection using motion wind speed. 4 IGBT are centered on the heat sink sole making the edges of the heat sink inoperative. The purpose of embedded heat pipes is to spread IGBT heat over the whole radiator surface and thus making heat sink much more efficient.

16 copper heat pipes diameter 12.7, length 390 mm embedded in radiator sole

Length: 790 mm

Wide: 404 mm

Height: 136 mm

Surface treatment: black anodized

3 aluminum profiles are extruded and welded together in order to get the overall required dimensions

Power	1840 W
Working temperature	-30° C to +40° C
Air Flow Rate	From 0 to 6m/s (train motion)
Rth	< 20,6° C/kW

