DESCRIPTION

REFRIGERATION APPARATUS FOR TRANSPORT AND TRANSPORT CONTAINER

TECHNICAL FIELD

[0001]

The present disclosure relates to a refrigeration apparatus for transport and a transport container.

BACKGROUND ART

[0002]

Patent Document 1 discloses a container refrigeration apparatus. In this container refrigeration apparatus, an inverter box housing a substrate is provided below a condenser formed in a flat plate shape. Radiation fins are provided on a rear surface of the inverter box. The radiation fins in this container refrigeration apparatus dissipate heat to the air flowing between the rear surface of the inverter box and a casing.

CITATION LIST

PATENT DOCUMENT

[0003]

Patent Document 1: Japanese Unexamined Patent Publication No. 2015-127630

SUMMARY OF THE INVENTION

TECHNICAL PROBLEM

[0004]

In the container refrigeration apparatus of Patent Document 1, the inverter box, which

second portion (82) of the duct (80) in order, and flows out of the air passage (85) through the air outlet (84).

[0119]

Specifically, in the duct (80) of this embodiment, the air inlet (83) is formed at the lower end of the first portion (81) and the air outlet (84) is formed at the protruding end of the second portion (82) extending laterally from the first portion (81). Thus, this embodiment keeps rainwater and sea water from entering the air passage (85) in the duct (80). This can reduce corrosion of the heat sink (75) in the air passage (85), maintaining the reliability of the refrigeration apparatus for transport (10).

[0120]

Further, in the duct (80) of this embodiment, the air outlet (84) at the protruding end of the second portion (82) faces the external heat exchanger (32). Thus, the air flowed from the air outlet (84) goes toward the external heat exchanger (32), causing the air in the air passage (85) in the duct (80) to reliably flow from the air inlet (83) toward the air outlet (84). This can maintain the amount of heat that the heat sink (75) dissipates to the air, keeping the temperature of the power module (71) in a proper range.

[0121]

–Feature (6) of Embodiment–

The heat sink (75) of the refrigeration apparatus for transport (10) of this embodiment includes the single base plate (76) and the plurality of fins (78). The plate-shaped base plate (76) has the mounting surface (77) that makes contact with the power module (71). The plate-shaped fins (78) protrude from the surface of the base plate (76) different from the mounting surface (77).

[0122]

In the refrigeration apparatus for transport (10) of this embodiment, the air passage