

Title (en)
HEAT EXCHANGER UNIT, AND REFRIGERATION CYCLE DEVICE

Title (de)
WÄRMETAUSCHER UND KÄLTEKREISLAUFVORRICHTUNG

Title (fr)
ENSEMBLE ÉCHANGEUR DE CHALEUR ET DISPOSITIF À CYCLE FRIGORIFIQUE

Publication
EP 3842698 A1 20210630 (EN)

Application
EP 18930520 A 20180823

Priority
JP 2018031151 W 20180823

Abstract (en)
An object is to provide a heat-exchanger unit and a refrigeration cycle apparatus that make a flow of air passing through portions of a heat exchanger uniform to improve heat exchange performance. The heat-exchanger unit includes an air-sending device configured to send outside air into a casing, and a heat exchanger laterally surrounding a rotation center axis of the air-sending device. The heat exchanger includes a plurality of flat tubes arranged in parallel and surrounding the rotation center axis of the air-sending device, the plurality of flat tubes each having a pipe axis extending in a vertical direction, and a header connecting the plurality of flat tubes. The plurality of flat tubes include a first flat tube, a second flat tube, and a third flat tube, and each of the second flat tube and the third flat tube is placed adjacent to the first flat tube. Where a radial direction through each of the first flat tube, the second flat tube, and the third flat tube has the rotation center axis of the air-sending device as a center of the radial direction, each of the first flat tube, the second flat tube, and the third flat tube has, among two ends of a longitudinal axis of a section perpendicular to the pipe axis, a first end positioned closer to the center of the radial direction than is the other end, and the first ends are arranged on a virtual annular line surrounding the rotation center axis. The first end of the first flat tube is placed further away from the center of the radial direction than is a virtual straight line connecting the first end of the second flat tube and the first end of the third flat tube.

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