

ABSTRACT

Heat Exchanger and Refrigeration Cycle Apparatus

5 An auxiliary heat exchange unit (40) of a heat exchanger (10) has a first
auxiliary heat exchange region (411) and a second auxiliary heat exchange region (412).
A main heat exchange unit (30) has a first main heat exchange region (311), a second
main heat exchange region (312), a third main heat exchange region (313), and a fourth
main heat exchange region (314). The first auxiliary heat exchange region (411), the
10 first main heat exchange region (311), and the third main heat exchange region (313)
are disposed windward of the second auxiliary heat exchange region (412), the second
main heat exchange region (312), and the fourth main heat exchange region (314),
respectively, in a flow direction. The auxiliary heat exchange unit (40) and the main
heat exchange unit (30) are configured to cause refrigerant to flow successively through
15 the first auxiliary heat exchange region (411), the second auxiliary heat exchange
region (412), the first main heat exchange region (311), the second main heat exchange
region (312), the fourth main heat exchange region (314), and the third main heat
exchange region (313) when the heat exchanger (10) functions as an evaporator.

20 Fig.9