

COMPOSITION CONTAINING MIXTURE OF FLUORINATED HYDROCARBONS, AND
METHOD FOR PRODUCING SAME

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ABSTRACT

This invention provides, as alternative refrigerants
for R404A, a refrigerant and refrigerant composition that have,
for example, a nonflammability similar to that of R404A, a
10 refrigerating capacity that can replace that of R404A, a ratio of
refrigerating capacity to power consumed in a refrigeration cycle
(coefficient of performance (COP)) that is equal or superior to
that of R404A, and a lower GWP than that of R404A.

More specifically, this invention provides a
15 composition comprising a mixture containing fluorinated
hydrocarbons, the composition ratio of the fluorinated
hydrocarbons contained in the mixture falling within a triangle
having the following three points as vertices in a ternary
composition diagram in which the sum of the concentrations of
20 difluoromethane (R32), pentafluoroethane (R125), and 1,1,1,2-
tetrafluoroethane (R134a) is 100 wt%:
point A (R32/R125/R134a = 37.3/17.0/45.7 wt%),
point F (R32/R125/R134a = 30.7/10.9/58.4 wt%), and
point G (R32/R125/R134a = 29.4/14.1/56.5 wt%).

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[Fig. 1]