TITLE

USE OF REFRIGERANTS COMPRISING E-1,3,3,3-TETRAFLUOROPROPENE AND AT LEAST ONE TETRAFLUOROETHANE FOR COOLING

ABSTRACT OF THE INVENTION

Disclosed herein is a method for producing cooling comprising evaporating a liquid refrigerant comprising (a) *E*-$CF_3CH=CHF$ and (b) at least one tetrafluoroethane of the formula $C_2H_2F_4$; provided that the weight ratio of *E*-$CF_3CH=CHF$ to the total amount of *E*-$CF_3CH=CHF$ and $C_2H_2F_4$ is from about 0.05 to 0.99, in an evaporator, thereby producing a refrigerant vapor. Also disclosed herein is a method for replacing HCFC-124 or HFC-134a refrigerant in a chiller designed for said refrigerant comprising providing a replacement refrigerant composition comprising (a) *E*-$CF_3CH=CHF$ and (b) at least one tetrafluoroethane of the formula $C_2H_2F_4$; provided that the weight ratio of *E*-$CF_3CH=CHF$ to the total amount of *E*-$CF_3CH=CHF$ and $C_2H_2F_4$ is from about 0.05 to 0.99. Also disclosed herein is a chiller apparatus for cooling, said apparatus containing a working fluid comprising a refrigerant comprising (a) *E*-$CF_3CH=CHF$ and (b) at least one tetrafluoroethane of the formula $C_2H_2F_4$; provided that the weight ratio of *E*-$CF_3CH=CHF$ to the total amount of *E*-$CF_3CH=CHF$ and $C_2H_2F_4$ is from about 0.05 to 0.99.

[Figure 1]