having a working fluid cooler or condenser operating temperature above about 50°C.

11. The method of claim 10 wherein the working fluid being replaced is HFC-236fa, HCFC-124, HFC-134a or CFC-12, HCFC-22, HFO-1234yf, E-HFO-1234ze, HFO-1243zf or blends containing HFO-1234yf or E-HFO-1234ze or HFO-1243zf and wherein the maximum feasible condensing temperature is increased above that achievable with said replaced working fluid.

12. The method of claim 11, wherein the maximum feasible condensing temperature is increase to about 118°C.

13. The method of claim 11 wherein the chiller designed for said working fluid is converted to a heat pump.

14. A method for supplying simultaneous heating and cooling in a cascade heat pump system comprising providing a low temperature cascade stage containing a working fluid selected from the group consisting of NH_3, CO_2, N_2O, HFC-32, HFC-125, HFC-143a, HFC-227ea, HFC-227ca, HFC-245cb, HFC-236fa, HFC-236ea, HFO-1234yf, E-HFO-1234ze, HFO-1243zf, E-HFO-1234ye, HFO-1336yf, HFO-1243yf, Z-HFO-1234ze, HCFO-1233xf, HFC-134a, HFC-134, HFC-161, HFC-152a, hydrocarbons and mixtures thereof; and providing a high temperature cascade stage containing a working fluid comprising E-HFO-1336mzz; wherein said low temperature cascade stage and said high temperature cascade stage are in thermal contact.

~~15. A composition comprising: (i) a working fluid consisting essentially of E-HFO-1336mzz; and (ii) a stabilizer to prevent degradation at temperatures of 50ºC or above, or (iii) a lubricant suitable for use at 50ºC or above, or both (ii) and (iii).~~

~~16~~15. A method for replacing HCFC-22 working fluid in a heat pump or chiller designed for HCFC-22 working fluid comprising providing a replacement working fluid comprising E-HFO-1336mzz.

~~17~~16. A method for replacing a working fluid comprising HFO-1234yf, E-HFO-1234ze, Z-HFO-1234ze or HFO-1243zf and optionally one or more saturated hydrofluorocarbons or hydrocarbons in a heat pump or chiller designed for said working fluid comprising providing a replacement working fluid comprising E-HFO-1336mzz.