CLAIMS:

1. Use as a refrigerant in a heat pump system in an electric vehicle of a composition comprising from 3 to 30% by weight 1,1-difluoroethylene (R-1132a) based on the total weight of the composition and at least one fluorocarbon refrigerant compound selected from the group consisting of 2,3,3,3-tetrafluoropropene (R-1234yf), difluoromethane (R-32), 1,3,3,3-tetrafluoropropene (R-1234ze(E)) and 1,1-difluoroethane (R-152a).

2. The use of claim 1 wherein the refrigerant composition further comprises at least one of trifluoroethylene (R-1123), trifluoroiodomethane (CF_3I), carbon dioxide (R-744, CO2) and 1,1,1,2-tetrafluoroethane (R-134a).

3. Use as a refrigerant in a heat pump system in an electric vehicle of a composition comprising from 3 to 30% by weight 1,1-difluoroethylene (R-1132a) based on the total weight of the composition and trifluoroiodomethane (CF_3I).

4. The use of claim 1 wherein the refrigerant composition comprises from 3 to 30% by weight R-1132a, R-152a and R-1234yf, such as from 4 to 10 weight % R-1132a, from 2 to 30 weight % R-152a and from 60 to 94 weight % R-1234yf.

5. The use of claim 1 wherein the refrigerant composition comprises from 3 to 30% by weight R-1132a, at least one tetrafluoropropene refrigerant compound selected from the group consisting of R-1234yf and R-1234ze(E), and optionally difluoromethane (R-32).

6. The use of any of claims 1 to 5, wherein the R-1132a is present in an amount of from 3 to 20 weight %, such as from about 3 to about 15 weight %, based on the total weight of the refrigerant composition.

7. The use of claim 5 or 6, wherein R-32 is present in an amount of from 1 to 21 weight % based on the total weight of the refrigerant composition.

8. The use of any of claim 5 to 7, wherein the refrigerant composition further comprises CF_3I, preferably wherein the CF_3I is present in an amount less than R-1234yf or R-1234ze(E).

9. The use of claim 8 wherein the refrigerant composition comprises R-1132a, R-32, R-1234yf and CF_3I.

10. The use of any of claim 5 to 7, wherein the refrigerant composition further comprises CO_2 (R-744), preferably wherein the combined CO_2 and R-1132a content is less than about 30 weight %, such as less than about 20 weight %.

11. The use of claim 10 wherein the refrigerant composition comprises R-1132a, R-32, R-1234yf and CO_2.

12. The use of claim 1, 2 or 6 wherein the refrigerant composition comprises from 3 to 30% by weight R-1132a, R-152a and optionally R-32.

13. The use of claim 1, 2 or 6 wherein the refrigerant composition comprises R-1132a, R-32, R-152a and at least one tetrafluoropropene refrigerant compound selected from the group consisting of R-1234yf and R-1234ze(E).

14. The use of any of claims 3 to 8, 12 or 13 wherein the refrigerant composition further comprises R-134a, preferably in an amount of from about 1 to about 10 weight % R-134a.

15. The use of claim 2 wherein the refrigerant composition comprises from 3 to 30% by weight R-1132a, R-1123 and R-1234yf.

16. The use of claim 2 wherein the refrigerant composition comprises from 3 to 30% by weight R-1132a, R-152a, R-134a and R-1234yf.

17. The use of claim 2 wherein the refrigerant composition comprises from 3 to 30% by weight R-1132a, R-32 and CO_2, preferably from about 3 to about 20 weight % R-1132a, from about 1 to about 32 weight % R-32 and from about 50 to about 95 weight % CO_2, such as from about 3 to about 15 weight % R-1132a, from about 2 to about 32 weight % R-32 and from about 55 to about 93 weight % CO_2, for instance from about 64 to about 93 weight % of carbon dioxide, from about 2 to about 25 weight % of difluoromethane and from about 3 to about 14 weight % of R-1132a, for example from about 65 to about 93 weight % of carbon dioxide, from about 2 to about 22 weight % of difluoromethane and from about 3 to about 14 weight % of R-1132a.

18. The use of any of the preceding claims wherein the refrigerant composition has a Global Warming Potential (GWP) below 150.

19. The use of any of the preceding claims wherein the heat pump system is also adapted to perform air-conditioning.

20. The use of any of claims 1 to 14 wherein the composition consists essentially of the stated components.

21. The use of any of the preceding claims, wherein the refrigerant composition is less flammable than R-1132a alone, preferably wherein the refrigerant composition has:

a. a higher flammable limit'

b. a higher ignition energy; and/or

c. a lower flame velocity

compared to R-1132a alone.

22. The use of any of the preceding claims wherein the refrigerant composition is non-flammable, preferably wherein the refrigerant composition is non-flammable at ambient temperature, or wherein the composition is non-flammable at 60 °C.

23. The use of any of the preceding claims wherein the heat pump system further comprises a lubricant, preferably a polyolester (POE) or polyalkylene glycol (PAG) lubricant.

24. The use of any of the preceding claims, wherein the refrigerant composition evaporates at temperatures below -30°C, preferably wherein the refrigerant composition also condenses at temperatures above 40°C.

25. The use of any of the preceding claims, wherein the refrigerant composition can operate in heat pump mode at an ambient temperature lower than about -15 °C, preferably lower than above -20°C.

26. The use of any of the preceding claims wherein the refrigeration composition has a temperature glide in an evaporator or condenser of less than about 15K, preferably less than about 10K, such as less than about 5K.

27. An electric vehicle equipped with a heat pump system and a refrigerant composition as defined in any of claims 1 to 30.

28. A method of producing cooling in an electric vehicle which method comprises evaporating a refrigerant composition as defined in any of claims 1 to 26 in the vicinity of a body to be cooled.

29. A method of producing heating in an electric vehicle which method comprises condensing a refrigerant composition as defined in any one of claims 1 to 26 in the vicinity of a body to be heated.