I CLAIM:

1. ____A non-chlorofluorocarbon (CFC) refrigerant mixture for use in multistage auto cascade ~~ultralow and cryogenic temperature~~ refrigeration systems operating at an ultralow and cryogenic temperature of -123°C and below, containing at most ~~only~~ one hydrochlorofluoro carbon (HCFC) component, the refrigerant mixture comprising:

(i) At least four refrigerants from group consisting of:

Gases		Range of Content
R-124	:	20% - 30% by weight;
R-227ea	:	15% - 35% by weight;
R-236fa	:	15% - 35% by weight;
R-600	:	1% - 3% by weight;
R-600a	:	1% - 3% by weight;
R-134a	:	10% - 20% by weight; and
R-125	:	10% - 20% by weight,

(ii) At least two refrigerants from group consisting of:

Gases		Range of Content
R-116	:	0% - 8% by weight;
R-744	:	0% - 6% by weight;
R-23	:	5% - 10% by weight; and
R-170	:	2% - 4% by weight,

and

(iii) At least two refrigerants from group consisting of:

Gases		Range of Content
Krypton	:	5% - 15% by weight;
Argon	:	5% - 15% by weight;
R-14	:	5% - 30% by weight; and
Nitrogen	:	5% - 10% by weight,

~~wherein R-134a and R-125 works at both first and second stages of the multistage auto cascade system,~~

wherein the refrigerant mixture has an ozone depletion potential between 0.005 and 0.007 combined with global warming potential in the range of 3500 to 4300 by eliminating the use of CFCs and using only one HCFC component, and

wherein the refrigerant mixture is adapted to operate ~~operates~~ a compressor of the multistage auto cascade system with an operating temperature below 28°C ~~degree Celsius~~ thereby controlling ~~high~~ discharge temperatures and ~~high~~ initial discharge pressures of the system.

2. ____A non-chlorofluorocarbon (CFC) refrigerant mixture as claimed in claim 1, wherein the refrigerant mixture is adapted to ~~provides~~ refrigeration through the multistage auto cascade system for obtaining high temperature difference refrigeration of above 55°C down to ultralow and cryogenic temperatures ~~of~~ -123°C and below.

3. ____A non-chlorofluorocarbon (CFC) refrigerant mixture as claimed in claim 1, wherein the refrigerant mixture is a non-flammable and non-toxic mixture.

4. ____A non-chlorofluorocarbon (CFC) refrigerant mixture as claimed in claim 1, wherein the refrigerant mixture is adapted for use in ~~functions in both~~ multistage auto cascade systems which uses alkylbenzene or polyol-ester oils as lubricant.

5. ____A non-chlorofluorocarbon (CFC) refrigerant mixture as claimed in claim 1, wherein the refrigerant mixture is adapted for use in the multistage auto cascade system operating ~~with the refrigerant mixture delivers~~ at a refrigerating temperature between -130°C ~~degree Celsius~~ and -160°C ~~degree Celsius~~.

6. ____A non-chlorofluorocarbon (CFC) refrigerant mixture as claimed in claim 1, wherein the refrigerant mixture ~~which~~ is adapted for ~~universally developed for~~ use in auto cascade systems irrespective of the type of lubricant used in the systems, whether alkylbenzene or polyol ester oils.