CLAIMS

1. A refrigerated transport system (20) comprising:
    a body (22) enclosing a refrigerated compartment (69) and comprising:
        a pair of side walls (22C, 22D);
        a top (22A);
        a bottom (22B); and
        one or more doors (28A, 28B); and
    a refrigeration system (30) comprising:
        a vapor compression loop (31) having a first heat exchanger (38) positioned to reject heat to an external environment in a cooling mode;
        a heat transfer loop (32) having a second heat exchanger (58) positioned to absorb heat from the refrigerated compartment in the cooling mode; and
        an inter-loop heat exchanger (44) having a first leg (42) along the vapor compression loop and a second leg (43) along the heat transfer loop in heat exchange relation with the first leg.

2. The refrigerated transport system of claim 1, wherein:
    the vapor compression loop sequentially comprises:
        a compressor (36);
        said first heat exchanger;
        an expansion device (40); and
        said first leg; and
    the heat transfer loop sequentially comprises:
        a pump (56);
        said second heat exchanger; and
        said second leg.

3. The refrigerated transport system of claim 2, further comprising:
    an electric fan (60A, 60B) positioned to drive a recirculating air flow from the refrigerated compartment across the second heat exchanger.

4. The refrigerated transport system of claim 2, wherein:
    the first heat exchanger is a refrigerant-air heat exchanger.

5. The refrigerated transport system claim 1, wherein:
    the inter-loop heat exchanger is a brazed plate heat exchanger.

6. The refrigerated transport system of claim 1, further comprising:
    a carbon dioxide detector.

7. The refrigerated transport system of claim 6 wherein:
    a carbon dioxide detector (232) is coupled to control:
        a ventilation fan (81A, 60A).

8. The refrigerated transport system of claim 1, wherein:
    a refrigerant charge of the vapor compression loop comprises at least 50% by weight propane.

9. The refrigerated transport system of claim 1, wherein:
    a refrigerant charge of the vapor compression loop comprises at least 90% by weight propane.

10. The refrigerated transport system of claim 1, wherein:
    a heat transfer fluid of the heat transfer loop comprises at least 50% carbon dioxide, by weight.

11. The refrigerated transport system of claim 1, being an intermodal shipping container, wherein:
    the one or more doors are at a first end (28A, 28B); and
    the refrigeration system is mounted in an equipment module (26) at a second end of the body opposite the first end.

12. The refrigerated transport system of claim 11, wherein:

a wall (67) of the equipment module divides the external environment from the refrigerated compartment;

the inter-loop heat exchanger is on the external environment side of the wall; and

the second heat exchanger is on the refrigerated compartment side of the wall.

13. The refrigerated transport system of claim 12, wherein:

the pump is on the refrigerated compartment side of the wall.

14. The refrigerated transport system of claim 11, further comprising:

one or more flame arrestors across one or more openings of the equipment module.

15. The refrigerated transport system of claim 14, wherein:

said openings are along the front of the equipment module.

16. The refrigerated transport system of claim 14, wherein:

the one or more flame arrestors comprise metallic wire mesh or perforated mesh.