Claims

What I claim is:

1. A cooled enclosure of the type which cools installed equipment by thermal contact between a surface of a portion of installed equipment and a surface of the cooled enclosure, the cooled enclosure comprising a multi-port extrusion coolant guide in thermal contact with the surface of the cooled enclosure.

2. A wall of a cooled enclosure, the cooled enclosure of the type which cools installed equipment by thermal contact, the wall comprising:

- a channel comprising a coolable surface;
- a first coolant guide comprising inlet and outlet apertures, and;
- a plurality of thermally conductive features in thermal contact with the coolable surface, the thermally conductive features being disposed within the first coolant guide in such a way that a coolant flowing between the inlet and the outlet apertures flows across at least some portion of the thermally conductive features.

3. The wall of claim 2, wherein the thermally conductive features are fins.

4. The wall of claim 2, wherein the thermally conductive features are pins.

5. The wall of claim 2, wherein the thermally conductive features are projections projecting from a surface in thermal contact with the coolable surface.

6. The wall of any of claims 2 to 5, wherein the first coolant guide is manufactured by an extrusion process.

7. The wall of any of claims 2 to 5, wherein the first coolant guide is a multi-port extrusion and the thermally conductive features comprise a wall of the multi-port extrusion.

8. The wall of any of claims 2 to 7, wherein the first coolant guide comprises a first guideway and a second guideway, the first coolant guide configured such that coolant flowing in the first guideway is separated from coolant flowing in the second guideway.

9. The wall of any of claims 2 to 8, further comprising:

- a second coolant guide, and;
- a tubing network connected to the inlet aperture of the first coolant guide and the inlet aperture of the second coolant guide.

10. The wall of claim 9, wherein the tubing network is configured to deliver an approximately similar rate of coolant flow to the first coolant guide and the second coolant guide.

11. The wall of claim 10, wherein the tubing network is bifurcated.

12. The wall of any of claims 2 to 11, the wall further comprising a coolant distribution system comprising

- a tubing network connected to the inlet aperture of the first coolant guide, and;
- an automatic air-vent connected to the tubing network.

13. A wall of a cooled enclosure, the wall comprising:

- a plurality of channels comprising a coolable surface, each channel configured to receive a rail portion of installed equipment;
- a coolant distribution system;
- one or more coolant guides, each having an inlet and an outlet which are both connected to the coolant distribution system, the coolant guides being configured to guide the flow of a coolant entering the guide from the inlet to allow the cooling of at least a portion of the coolable surface of at least one of the channels before exiting via the outlet, and;
- a lid component being adapted to be joined to the plurality of channels in such a way that the space enclosed by the lid component and the plurality of channels contains at least a part of the coolant distribution system and the inlet and outlet of the one or more coolant guides.

14. The wall of claim 13, the space enclosed by the lid component and the plurality of channels being sufficiently sealed to allow a modified pressure environment.

15. The wall of claim 13, the modified pressure environment being created by evacuating air.

16. The wall of any of claims 14 or 15, the wall further comprising a pressure sensitive switch configured to change state when the state of the modified pressure environment is changed.

17. The wall of any of claims 13 to 16, wherein at least two of the one or more coolant guides are configured to independently cool a portion of the same coolable surface.

18. A cooled enclosure which cools installed equipment by thermal contact between a surface of a portion of installed equipment and a surface of the cooled enclosure, the cooled enclosure being configured such that the surface of the cooled enclosure is maintained at a temperature below a dry bulb temperature of surrounding air.

19. The cooled enclosure of claim 18, the cooled enclosure being further configured such that the surface of the cooled enclosure is further maintained at a temperature above a dew point of the surrounding air.

20. A cooled enclosure which cools installed equipment by thermal contact between a surface of a portion of installed equipment and a surface of the cooled enclosure, the cooled enclosure being configured such that the surface of the cooled enclosure is maintained at a temperature above a dew point of surrounding air.

21. The cooled enclosure of claim 20, the cooled enclosure being further configured such that the surface of the cooled enclosure is further maintained at a temperature below a dry bulb temperature of the surrounding air.