CLAIMS

1. An enclosure assembly (100) for storage of products, comprising:

a plurality of panels (102), wherein the panels (102) are joinable to form at least one enclosure (104) and wherein each panel (102) includes at least one groove (112) formed on at least one opposing pair of edges of the panel (102);

at least one cooling means (106) coupled to said enclosure (104) to introduce a cooling medium and maintain a predetermined temperature within said enclosure (104); and

a frame (108), wherein the enclosure (104) is removably secured to the frame (108) using at least one support and locking means (110), wherein one end of the support and locking means (110) is mechanically fitted to the frame (108) and the other end is fastenable to the enclosure (104), wherein the frame (108) is a storage rack and wherein the enclosure (104) is configurable to accommodate a storage rack.

2. The assembly (100) of claim 1, wherein a panel (102) is securable with an adjacent panel (102) to form at least one airtight enclosure (104).

3. The assembly (100) of claim 1, wherein each panel (102) includes a sealing means (118) attached to its peripheral edges.

4. The assembly (100) of claim 3, wherein the sealing means (118) is an adhesive material.

5. The assembly (100) of claim 4, wherein the adhesive material is selected from the group consisting of ethylene propylene diene terpolymer, nitrile butadiene rubber and silicon gasket.

6. The assembly (100) of claim 3, wherein a panel (102) is securable to an adjacent panel (102) using the sealing means (118).

7. The assembly (100) of any of the claims 1 to 4, wherein at least one panel (102) is pivotable, removable or slidable to access the products stored within the enclosure (104).

8. The assembly (100) of claim 1, wherein the cooling medium is a gas.

9. The assembly (100) of claim 1, wherein the cooling medium is an inert gas.

10. The assembly (100) of claim 7, wherein the cooling medium is selected from the group comprising of chilled water, refrigerant, coolant or dry ice.