CLAIMS

1. A plate heat exchanger disposed in thermal contact with a cooling media within or near a beverage dispenser for cooling one or more fluids, the plate heat exchanger comprising:

a top plate;

a bottom plate;

an outer boundary wall;

a plurality of fluid flow paths disposed between the top plate and the bottom plate; and

a fin disposed within each of the plurality of fluid flow paths and in thermal contact with the top plate and the bottom plate,

wherein each of the plurality of fluid flow paths comprise an inlet flow path and an outlet flow path,

wherein the inlet flow path of a respective fluid flow path is disposed adjacent to another inlet flow path of a respective fluid flow path that is adjacent thereto, and

wherein the adjacent inlet flow paths are separated by and share an internal wall.

2. The plate heat exchanger of claim 1, further comprising a plurality of the plate heat exchangers stacked together.

3. The plate heat exchanger of claim 2, wherein the inlet flow path of a respective fluid flow path is disposed adjacent to another inlet flow path of a respective fluid flow path that is stacked adjacent thereto.

4. The plate heat exchanger of claim 2, wherein the outlet flow path of a respective fluid flow path is disposed adjacent to another outlet flow path of a respective fluid flow path that is stacked adjacent thereto.

5. The plate heat exchanger of claim 1, wherein the fin comprises a single unitary structure folded to form a number of U-shaped channels.

6. The plate heat exchanger of claim 1, wherein the fin comprises a single unitary structure comprising a plurality of rows and a plurality of columns.

7. The plate heat exchanger of claim 6, wherein the plurality of rows are at least partially offset from adjacent rows.

8. A plate heat exchanger disposed in thermal contact with a cooling media within or near a beverage dispenser for cooling one or more fluids, the plate heat exchanger comprising:

a top plate;

a bottom plate;

an outer boundary wall;

a plurality of fluid flow paths disposed between the top plate and the bottom plate; and

a fin disposed within each of the plurality of fluid flow paths and in thermal contact with the top plate and the bottom plate,

wherein each of the plurality of fluid flow paths comprise an inlet flow path and an outlet flow path,

wherein the outlet flow path of a respective fluid flow path is disposed adjacent to another outlet flow path of a respective fluid flow path that is adjacent thereto, and

wherein the adjacent outlet flow paths are separated by and share an internal wall.

9. The plate heat exchanger of claim 8, further comprising a plurality of the plate heat exchangers stacked together.

10. The plate heat exchanger of claim 9, wherein the inlet flow path of a respective fluid flow path is disposed adjacent to another inlet flow path of a respective fluid flow path that is stacked adjacent thereto.

11. The plate heat exchanger of claim 9, wherein the outlet flow path of a respective fluid flow path is disposed adjacent to another outlet flow path of a respective fluid flow path that is stacked adjacent thereto.

12. The plate heat exchanger of claim 8, wherein the fin comprises a single unitary structure folded to form a number of U-shaped channels.

13. The plate heat exchanger of claim 8, wherein the fin comprises a single unitary structure comprising a plurality of rows and a plurality of columns.

14. The plate heat exchanger of claim 13, wherein the plurality of rows are at least partially offset from adjacent rows.