CLAIMS

What is claimed:

1. A heat exchanger system, comprising:
   a rigid framework;
   a first heat exchanger coupled to a first support structure on a top of the rigid framework;
   a second heat exchanger positioned below the first heat exchanger, wherein the second heat exchanger is coupled to a second support structure, the second support structure hanging from the rigid framework via a first set of tethers, wherein the first set of tethers is configured to vertically and horizontally move the second support structure;
   a second set of tethers connected to the second support structure and extend downward to hang a support beam;
   a third set of tethers connected to the support beam and extend downward to hang a third support structure, wherein the third set of tethers is configured to vertically and horizontally move the third support structure; and
   a third heat exchanger coupled to the third support structure,
   wherein the vertically and horizontally movement of the second support structure is based on a thermal expansion of the second heat exchanger, and
   wherein the vertically and horizontally movement of the third support structure is based on a thermal expansion of the third heat exchanger.

2. The heat exchanger system of claim 1, wherein the first heat exchanger is configured to operate at a higher temperature than the second heat exchanger, and the second heat exchanger is configured to operate at a higher temperature than the third heat exchanger.

3. The heat exchanger system of claim 1, wherein the first set of tethers, the second set of tethers, and the third set of tethers are selected from a structural tension member, a steel rod, chain links, or a wire rope.

4. The heat exchanger system of claim 1, wherein the first set of tethers and the third set of tethers are angled.

5. The heat exchanger system of claim 1, wherein the rigid framework comprises two columns spaced a distance from each other.

6. The heat exchanger system of claim 5, wherein the first heat exchanger, the second heat exchanger, and the third heat exchanger are between the two columns.

7. The heat exchanger system of claim 5, wherein a first end of each of the two columns is removably fixed to a floor.

8. The heat exchanger system of claim 7, wherein the first support structure is movably coupled to a second end of each of the two columns distal to the first end.

9. The heat exchanger system of claim 1, further comprising one or more protrusions extending from the rigid framework, wherein an end of the first set of tethers is connected to the one or more protrusions.

10. The heat exchanger system of claim 1, wherein the first heat exchanger is thermally decoupled from the second heat exchanger, and the second heat exchanger is thermally decoupled from the third heat exchanger.

11. A heat exchanger system, comprising:
    a rigid framework;
    a first heat exchanger coupled to a first support structure on a top of the rigid framework; and
    a second heat exchanger positioned below the first heat exchanger, wherein the second heat exchanger is coupled to a second support structure, the second support structure hanging from the rigid framework via a first set of tethers, wherein the first set of tethers is configured to vertically and horizontally move the second support structure,
    wherein the vertically and horizontally movement of the second support structure is based on a thermal expansion of the second heat exchanger.

12. The heat exchanger system of claim 11, wherein the first heat exchanger is thermally decoupled from the second heat exchanger.

13. The heat exchanger system of claim 11, wherein the first set of tethers is angled.

14. The heat exchanger system of claim 13, wherein ends of the first set of tethers are connected to the rigid framework and the second support structure via a rack and pinion or a gear driven cam.

15. The heat exchanger system of claim 13, wherein an angle of the first set of tethers is selected based on a predetermined thermal expansion or contraction.

16. The heat exchanger system of claim 11, wherein the first heat exchanger is configured to operate at a higher temperature than the second heat exchanger.

17. A heat exchanger system, comprising:

a rigid framework;

a first support structure hanging from the rigid framework via a first set of tethers having one end coupled to the rigid framework and another end coupled to the first support structure, wherein the first set of tethers is configured to vertically and horizontally move the first support structure;

a first heat exchanger coupled to the first support structure;

a second set of tethers connected to the first support structure and extend downward to hang a support beam;

a third set of tethers connected to the support beam and extend downward to hang a second support structure, wherein the third set of tethers is configured to vertically and horizontally move the second support structure; and

a second heat exchanger coupled to the second support structure,

wherein the vertically and horizontally movement of the first support structure is based on a thermal expansion of the first heat exchanger, and

wherein the vertically and horizontally movement of the second support structure is based on a thermal expansion of the second heat exchanger.

18. The heat exchanger system of claim 17, wherein the first heat exchanger is thermally decoupled from the second heat exchanger.

19. The heat exchanger system of claim 17, wherein the first set of tethers and the third set of tethers are angled.

20. The heat exchanger system of claim 17, wherein the first heat exchanger is configured to operate at a higher temperature than the second heat exchanger.