WE CLAIM:

1. An air handler building structure, comprising:

a floor;

a plurality of lateral walls, including a lower and an upper lateral walls opposing to each other having different respective heights determined in accordance with a ratio;

a roof with a pitch consistent with the ratio associated with the lower and upper lateral walls; and

~~one or more~~ a plurality of openings, located on ~~at least one of~~ the roof and ~~at least one of~~ the lower and upper lateral walls, ~~wherein~~

~~the shape of the building structure allows~~that enable air within the building structure to rise and exit the building structure via natural convection, and

a first dimension along a first direction defined between the lower and upper lateral walls relative to a second dimension along a second direction perpendicular to the first direction such that the building structure provides access to outside natural air via one or more openings on the lower lateral wall.

2. The building structure of claim 1, further comprising:

a ceiling having one or more openings;

a first space defined between the floor and the ceiling; and

a second space defined between the ceiling and the roof, wherein

the outside natural air enters the first space through the one or more openings on the lower lateral wall, and

air in the first space exits, via natural convection, through the one or more openings on the ceiling.

3. The building structure of claim 2, wherein air in the second space exits, via natural ~~l~~convection, through the ~~one or more~~ openings located on ~~at least one of~~ the roof and ~~at least one of~~ the upper lateral ~~walls~~ wall above the ceiling.

4. The building structure of claim 2, wherein air in the second space enters the first space via one or more openings on the ceiling near the lower lateral wall and is mixed with the outside natural air entered into the first space.

one or more air-handling units coupled with the air inlet to draw the outside natural air and to provide air to the first space;

an air outlet coupled with a second lateral wall and operable to allow air in the second space to exit; and

a control system configured to control the one or more air-handling units to ~~provide air to the first space in accordance with~~ operate in one of a plurality of modes that is determined based on temperatures measured within and outside of the first space.

13. The system of claim 12, wherein the control system controls the one or more air-handling units to directly draw ~~provide~~ the outside natural air to the first space when the temperatures measured within and outside of the first place is within a first range.

14. The system of claim 13, wherein when the temperatures measured within and outside of the first place is within a second range lower than the first range, the control system controls the one or more air-handling units to provide air to the first space based on a mixed outside natural air and air exhausted from the plurality of servers through one or more openings on the ceiling near the air inlet.

15. The system of claim 14, wherein when the temperatures measured within and outside of the first place is within a third range higher than the first range, the control system controls the one or more air-handling units to provide evaporative cooling air to the first space based on the outside natural air drawn from the air inlet through saturated media.

16. The system of claim 15, wherein

the first range is substantially between 70°F and 85°F,

the second range is about below 70°F, and

the third range is substantially between 85°F and 110°F.

17. The system of claim 12, wherein the air inlet includes one or more louvered openings on the first lateral wall.

18. The system of claim 12, wherein the air outlet includes one or more louvered openings on at least one of the roof and the second lateral wall.

19. The system of claim 12, further comprising an air exchanging unit coupled to the one or more openings on the ceiling and configured to draw air from the second space into the first space in order to mix with the outside natural air entering into the first space.

20. The system of claim 17, wherein the control system is further configured to selectively activate one or more of the openings on the first lateral wall to control the amount of the outside natural air drawn into the first space based on the temperatures measured within and outside of the first place.

21. The system of claims 12, wherein the first space comprises:

a substantially enclosed interior space engaging the ceiling and open to the second space; and

a rack engaging the interior space in a substantially sealed manner and having the plurality of servers mounted thereon, wherein

respective front faces of the rack-mounted servers interface with the first space,

respective back faces of the rack-mounted servers interface with the interior space, and

each rack-mounted server includes one or more fans therein operable to draw air from the first space through its front face and expel heated air to the interior space through its back face.

22. The system of claim 12, wherein the one or more air-handling units include:

an evaporative cooling unit configured to generate evaporative cooling air based on the outside natural air; and

a filter configured to filter the outside natural air entering the first space.

23. A server cooling system, comprising:

a first space defined by a floor, a plurality of lateral walls including a lower and an upper lateral walls opposing to each other having different respective heights, and a ceiling;

a second space defined by the ceiling and a sloped roof constructed in accordance with a pitch;

~~one or more~~ a plurality of openings, located on ~~at least one of~~ the roof, the ceiling, and ~~at least one of~~ the lower and upper lateral walls, that enable outside natural air to enter the first space and air in the second space to exit by natural convection;

31. An air handler building structure, comprising:

a floor;

a plurality of lateral walls;

a roof portion having opposing sides, each having a pitch;

a protruding portion extending above the roof portion; and

~~one or more~~ a plurality of openings, located on ~~at least one of~~ the roof portion, at least one of the lateral walls, and the protruding portion, ~~wherein~~

~~the shape of the building structure allows~~ that enable outside natural air to enter through one or more openings on at least one of the lateral walls via natural convection and exit through one or more openings on ~~at least one of~~ the roof portion and the protruding portion.

32. The building structure of claim 31, further comprising:

a ceiling having one or more openings;

a first space defined between the floor and the ceiling; and

a second space defined between the ceiling and the roof portion and the protruding portion, wherein

outside air enters the first space through the one or more openings on one or more of the lateral walls, and

air in the first space exits, via natural convection, through one or more openings on at least one of the ceiling, the roof portion, and the protruding portion.

33. The building structure of claim 32, wherein air in the second space exits, via natural convection, through one or more openings located on ~~at least one of~~ the roof portion and the protruding portion.

34. The building structure of claim 32, wherein air in the second space enters the first space via one or more openings on the ceiling near one or more of the lateral walls and is mixed with the outside natural air entered into the first space.

35. The building structure of claim 31, wherein

a first dimension is defined along a first direction between a first pair of opposing lateral walls;

a second dimension is defined between a second set of opposing lateral walls aligning along a second direction perpendicular to the first direction;