What is claimed is:

1. An air wall type air conditioning unit, comprising a plurality of refrigeration modules (100) distributed in a vertical direction, each refrigeration module (100) comprises:

a housing (205), which defines a cavity (206), and an air inlet (115) and an air outlet (116) are disposed on the housing (205);

a heat exchanger (102), located in the cavity (206), and the heat exchanger (102) is configured for cooling air; and

a draught fan (104), located in the cavity (206), and the draught fan (104) is configured for conveying cooled air to an equipment to be cooled;

wherein, in a direction from the air inlet (115) to the air outlet (116), the heat exchanger (102) and the draught fan (104) are distributed in sequence;

wherein the each refrigeration module (100) further comprises:

a water pan (220), which is located below the heat exchanger (102); and

a drainage structure (117), which is disposed in the cavity (206) and located on a side of the heat exchanger (102), the water pan (220) communicates with the drainage structure (117), and drainage structures (117) of two adjacent refrigeration modules (100) communicate through a connecting pipe (125);

wherein the water pan (220) is provided with a collecting groove (123), the drainage structure (117) comprises:

a first drainage pipe (121), connected with the water pan (220) and located above the water pan (220), and an end of the first drainage pipe (121) extends into the collecting groove (123); and

a second drainage pipe (124), which communicates with the collecting groove (123);

wherein, a second drainage pipe (124) of the refrigeration module (100) located above in the two adjacent refrigeration modules (100) communicates with an end of the connecting pipe (125), and a first drainage pipe (121) of the refrigeration module (100) located below in the two adjacent refrigeration modules (100) communicates with the other end of the connecting pipe (125), so as to communicate two drainage structures (117) of the two adjacent refrigeration

modules (100).

2. The air wall type air conditioning unit as claimed in claim 1, wherein the drainage structure (117) further comprises:

a support piece (122), which comprises a bottom plate (1221) and two side plates (1222) connected with the bottom plate (122), an assembly through hole (1223) allowing the first drainage pipe (121) to pass through is formed in the bottom plate (1221), and the side plates (1222) are connected with the collecting groove (220).

3. The air wall type air conditioning unit of as claimed in claim 1 or 2, wherein the housing (205) of the each refrigeration module (100) is provided with a first side and a second side which are oppositely disposed, the first side is provided with a protrusion, and the second side is provided with a groove which is matched with the protrusion in a clamping manner, so that two adjacent refrigeration modules (100) are matched in a clamping manner.

4. The air wall type air conditioning unit as claimed in claim 3, wherein the housing (205) comprises a supporting frame (201), a base (112) connected with the supporting frame (201), a top cover (113) and circumferential side walls (108) connected with the supporting frame (201), the base (112) is disposed opposite to the top cover (113), a lower surface of the base (112) protrudes from a lower surface of the supporting frame (201) to form the protrusion, and the top cover (113) and the supporting frame (201) define the groove (203), when the air wall type air conditioning unit is assembled, a base (112) of a refrigeration module (100) located above in adjacent two refrigeration modules (100) is placed in a groove (203) of a refrigeration module (100) located below.

5. The air wall type air conditioning unit as claimed in claim 1 or 2, wherein an inner wall face of the housing (205) is provided with an installation groove (2051) communicating with the cavity (206), and the each refrigeration module (100) further comprises an electric control box (106) located in the installation groove (2051), and a door plate (107) of the electric control box (106) is flush with the inner wall face of the housing (205).

6. The air wall type air conditioning unit as claimed in claim 1 or 2, wherein the heat exchanger (102) comprises a plurality of heat exchange tubes (1021) which

communicate with each other, and the plurality of heat exchange tubes (1021) form a "W”-shaped structure; or, the plurality of heat exchange tubes (1021) form a "V” shape.

7. The air wall type air conditioning unit as claimed in claim 1 or 2, wherein each refrigeration module (100) further comprises a flow equalizing plate (103) disposed between the heat exchanger (102) and the draught fan (104), a shape of the flow equalizing plate (103) is matched with at least part of a shape of the heat exchanger (102), and a plurality of through holes are formed in the flow equalizing plate (103) and the through holes are evenly distributed.

8. The air wall type air conditioning unit as claimed in claim 1 or 2, wherein the air wall type air conditioning unit further comprises a foundation (900) capable of supporting the plurality of refrigeration modules (100), and the each refrigeration module (100) further comprises:

an air valve (105), which is located at the air outlet (116), and the air valve (105) is able to control the cavity (206) to be communicated or disconnected with the external environment; and

an air filter (101), which is located at the air inlet (115) to filter incoming air.