CLAIMS

1. A container refrigeration facility including a refrigeration device (10), which cools an interior of a storage chamber and has an evaporator (24) allowing air inside the storage chamber to pass through, the refrigeration facility comprising:

a condensate treatment unit (40) including a condensate collection unit (41) collecting condensate water generated by the evaporator (24) and a condensate disposal unit (42) disposing condensate water from the condensate collection unit (41); and a corrosive gas detector (50) installed in the condensate treatment unit (40) to detect corrosive gas in air inside the container based on properties of the condensate water, wherein

the corrosive gas detector (50) is installed in the condensate disposal unit (42),

the refrigeration device (10) is a container refrigeration device (10) including a casing (12) mounted to a container (11),

the condensate disposal unit (42) is a drain hose (42) connected to the condensate collection unit (41),

the drain hose (42) has a part at a condensate disposal side located in an external storage space (S1), which is formed in the casing (12) so as to house refrigerant circuit components of the refrigeration device (10), and

the corrosive gas detector (50) is installed in the drain hose (42) at a location inside the external storage space (S1).

2. The container refrigeration facility of claim 1, wherein

a condensate trap (44) is formed in the drain hose (42) at a location inside the external storage space (S1), and

the corrosive gas detector (50) is installed in the condensate trap (44) of the drain hose (42).

3. The container refrigeration facility of claim 2, wherein

the condensate trap (44) includes a first U-turn (44a) curving downward and a second U-turn (44b) curving upward, which are formed in the run of the drain hose (42) and connected from upstream to downstream, and

the corrosive gas detector (50) is installed in the second U-turn (44b) and located above a level of condensate water accumulated in the first U-turn (44a) when the condensate water flows through the second U-turn (44b).

4. The container refrigeration facility of any one of claims 1 to 3, wherein

the corrosive gas detector (50) is a condensate port (43) including a portable pH sensor (45), which measures a pH value as a property of the condensate water.

5. The container refrigeration facility of any one of claims 1 to 3, wherein

the corrosive gas detector (50) includes a stationary pH sensor (47) measuring a pH value as the property of the condensate water, and

the refrigeration facility further includes a measurement result display (48) connected to the pH sensor and displaying measurement results provided by the stationary pH sensor (47).

CLAIMS

1. A refrigeration facility including a refrigeration device (10), which cools an interior of a storage chamber and has an evaporator (24) allowing air inside the storage chamber to pass through, the refrigeration facility comprising:

a condensate treatment unit (40) including a condensate collection unit (41) collecting condensate water generated by the evaporator (24) and a condensate disposal unit (42) disposing condensate water from the condensate collection unit (41); and a corrosive gas detector (50) installed in the condensate treatment unit (40) to detect corrosive gas in air inside the container based on properties of the condensate water.

2. The refrigeration facility of claim 1, wherein

the corrosive gas detector (50) is installed in the condensate disposal unit (42).

3. The refrigeration facility of claim 2, wherein

the refrigeration device (10) is a container refrigeration device (10) including a casing (12) mounted to a container (11),

the condensate disposal unit (42) is a drain hose (42) connected to the condensate collection unit (41),

the drain hose (42) has a part at a condensate disposal side located in an external storage space (S1), which is formed in the casing (12) so as to house refrigerant circuit components of the refrigeration device (10), and

the corrosive gas detector (50) is installed in the drain hose (42) at a location inside the external storage space (S1).

4. The refrigeration facility of claim 3, wherein

a condensate trap (44) is formed in the drain hose (42) at a location inside the external storage space (S1), and

the corrosive gas detector (50) is installed in the condensate trap (44) of the drain hose (42).

5. The refrigeration facility of claim 4, wherein

the condensate trap (44) includes a first U-turn (44a) curving downward and a second U-turn (44b) curving upward, which are formed in the run of the drain hose (42) and connected from upstream to downstream, and

the corrosive gas detector (50) is installed in the second U-turn (44b) and located above a level of condensate water accumulated in the first U-turn (44a) when the condensate water flows through the second U-turn (44b).

6. The refrigeration facility of any one of claims 1 to 5, wherein

the corrosive gas detector (50) is a condensate port (43) including a portable pH sensor (45), which measures a pH value as a property of the condensate water.

7. The refrigeration facility of any one of claims 1 to 5, wherein

the corrosive gas detector (50) includes a stationary pH sensor (47) measuring a pH value as the property of the condensate water, and

the refrigeration facility further includes a measurement result display (48) connected to the pH sensor and displaying measurement results provided by the stationary pH sensor (47).