Claims

1. A refrigerated sales cabinet (2) comprising

a cabinet body (4) having a rear wall;

at least one compressor (16) of a vapor compression cycle arranged within a compressor compartment (14); and

a riser conduit (22) having an inlet port (24) at the compressor compartment (14) and an outlet port (26) positioned outside, behind the cabinet body (4) and above the inlet port (24) such that gas, including leaked refrigerant flows from the compressor compartment (14) through the riser conduit (22) and exits the riser conduit (22) through the outlet port (26);

wherein at least a portion of the riser conduit (22) is formed by a rear face of the rear wall (12) of the cabinet body (4) and a ledge (34) mounted on the rear face of the rear wall (12) of the refrigerated sales cabinet (2);

wherein the riser conduit (22) is formed as a fanless riser conduit (22);

wherein the riser conduit (22) is adapted to discharge gas, including leaked refrigerant exiting the vapor compression cycle at or in the vicinity of the at least one compressor (16) in an upwards direction;

wherein at least one condenser (20) is arranged at or on top of a roof portion of the cabinet body (4);

wherein the vapor compression cycle further comprises a pressure line (18) extending between the at least one compressor (16) and the at least one condenser (20); and

wherein the pressure line (18) extends behind the rear wall (12) of the cabinet body (4) and is covered, at least partially, by the ledge (34).

2. The refrigerated sales cabinet (2) of claim 1,

wherein the riser conduit (22) extends substantially in a vertical direction.

3. The refrigerated sales cabinet (2) of claim 1 or 2,

where in the outlet port (26) of the riser conduit (22) is located behind the rear wall (12) of the cabinet body (4) at a height between a middle portion of the rear wall (12) and the roof portion, at the height of 1.50 to 2.00 meters above the floor on which the refrigerated sales cabinet (2) stands.

4. The refrigerated sales cabinet (2) according to any of the preceding claims,

wherein the riser conduit (22) is located at, within or behind the rear wall (12) of the refrigerated sales cabinet (2).

5. The refrigerated sales cabinet (2) according to any of the preceding claims,

wherein the inlet port (24) of the riser conduit (22) is arranged at an upper portion of the compressor compartment (14); and/or

wherein the outlet port (26) of the riser conduit (22) is arranged at or behind the rear wall (12) of the refrigerated sales cabinet (2) so as to discharge the gas, including the leaked refrigerant, from the compressor compartment (14) to an environment behind the refrigerated sales cabinet (2).

6. The refrigerated sales cabinet (2) according to any of the preceding claims,

wherein the compressor compartment (14) is arranged at or in the rear wall (12) of the cabinet (2) body; and/or

wherein the compressor compartment (14) encloses at least one compressor (16) and separates an interior of the compressor compartment (14) from a refrigerated sales space (6) and/or from the outside of the refrigerated sales cabinet (2); and/or

wherein a rear side of the compressor compartment (14) is formed by a removable rear cover (32) closing an opening within the rear wall (12) of the cabinet body (4).

7. The refrigerated sales cabinet (2) according to any of the preceding claims,

wherein the refrigerated sales cabinet (2) is formed as a semi plug-in cabinet (2);

wherein the vapor compression cycle comprises the at least one compressor (16), at least one condenser (20), an expansion device and an evaporator (30) and refrigerant conduits interconnecting these elements and circulating the refrigerant therethrough; and

wherein the at least one condenser (20) is formed as a heat exchanger transferring heat from the compressed hot refrigerant to a brine.

8. The refrigerated sales cabinet (2) according to any of claims 1 to 6,

wherein the refrigerated sales cabinet (2) is formed as a plug-in cabinet;

wherein the vapor compression cycle comprises the at least one compressor (16), at least one condenser (20), an expansion device and an evaporator (30) and refrigerant conduits interconnecting these elements and circulating the refrigerant therethrough; and

wherein the at least one condenser (20) is formed as a heat exchanger transferring heat from the compressed hot refrigerant to ambient air.

9. The refrigerated sales cabinet (2) according to any of the preceding claims,

wherein an interior space of the ledge (34), enclosed by the rear face of the rear wall (12) of the cabinet body (4) and inner surfaces of the ledge (34) and which is not occupied by the pressure line (18), forms at least part of the riser conduit (22); and/or

wherein a cross sectional area of such interior space is in the range of 2-8 cm^2; or wherein the riser conduit (22) is formed separately from the pressure line (18).