



ACO vacuum drainage

System for condensate water drainage



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The system for the drainage of condensate water and the discharge of water used for maintenance and sanitation during the operation of cooling and freezing boxes in food courts.

System benefits

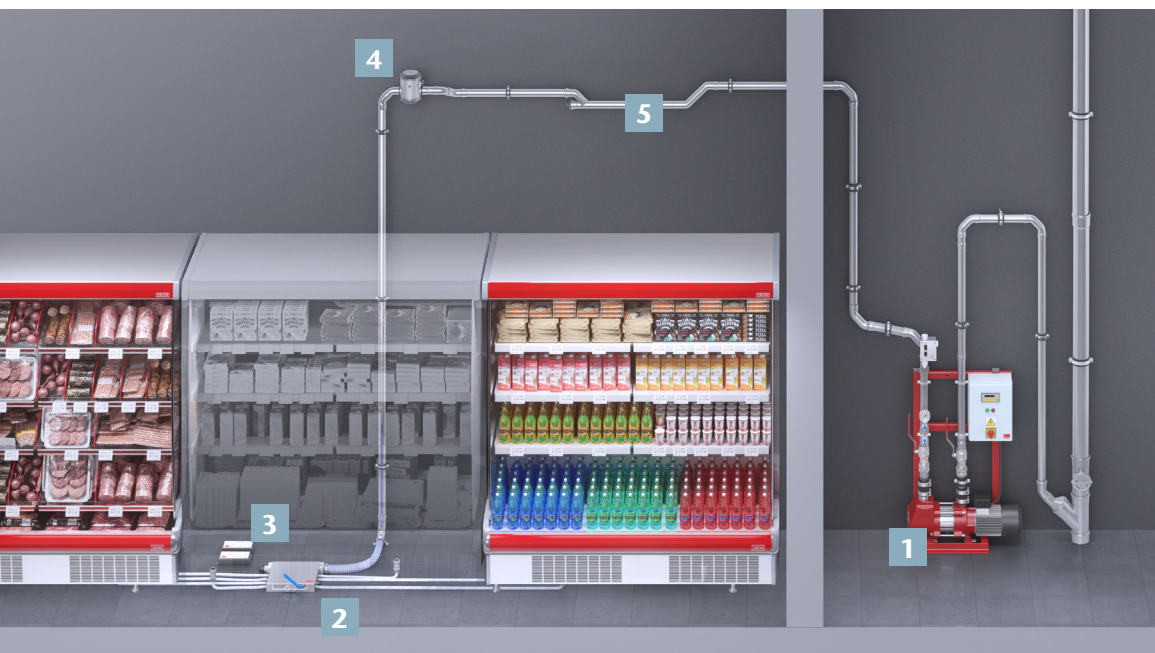
- Our innovative condensate drainage system from cooling and freezing boxes does not require floor intervention, is flexible and easy and fast to install and maintain.
- Cooling and freezing boxes are connected to a collecting box placed loosely on the floor. The mobile box does not need any slope and can be extended and checked anytime.
- Up to eight cooling units can be connected to one collection box.

- The collection box is also connected to stainless steel pipes, that can be easily relocated in the future.
- Discharge valves ensure condensate drainage through these pipes to a quiet vacuum station.
- This creates a vacuum in the system that discharges condensed water into the ventilated gravity sewer.
- The system works completely independently, but if necessary, it can be set up, checked and controlled remotely from a mobile application or with a physical button.



The ACO vacuum drainage system is compact and flexible. It does not depend on building modifications and therefore it is not necessary to close the store. It is safe and easy to maintain. The closed system ensures self-cleaning and does not burden its surroundings with noise. And most importantly – it can save up to 50 per cent of the costs compared to a gravity system.

System



The ACO Group manufactures and supplies the following components and provides support during design, installation and commissioning to ensure reliable operations of the whole system.

1 Vacuum pump station

- a. Creates a vacuum in the piping system and discharges condensate water, i.e., water generated during cleaning and sanitation of cooling and freezing boxes.
- b. The system is compact and flexible and does not depend on building structures, especially floors.

2 Vacuum collection tank

- a. Collects the condensate water underneath the cooling and freezing boxes.
- b. The vacuum collection tank is connected to the outlets of the cooling furniture and discharged to the vacuum discharge piping by a signal from the integrated water level sensor.
- c. The connection of the collection tank to the vertical piping is flexible and enables easy maintenance access.

3 Control unit

- a. Operates the opening of the discharge valve and evaluates signals from sensors.
- b. The control unit may be operated by mobile application or by an internet connection.

4 Discharge valve

- a. Opens the vacuum discharge to ensure the drainage of condensate water from the collection tank.

5 Vacuum piping

- a. ACO stainless steel push fit piping provides a sleek solution for the discharge of condensate water.
- b. The system is compliant for vacuum applications according to applicable legislation.

