



JETS® VACUUM AND
WASTE TREATMENT TECHNOLOGY
RETAIL



A SMARTER CHOICE

REMOVE CONDENSATE WATER
WITH VACUUM



Pioneering
eco-efficient
technology



REMOVE CONDENSATE WATER WITH VACUUM

AND REDUCE FUTURE COSTS

Jets® vacuum systems are the smart choice for supermarkets, offering an efficient, cost-effective and flexible way to remove condensate water.

By using Jets® vacuum technology condensate water is transported vertically to the ceiling, eliminating the need for floor work. When the time comes to remodel there will be no need for covering goods, time consuming concrete work or traditional plumbing. The vacuum system also allows you to continuously monitor its components.

Jets® profits your business through reduced future costs with the added bonus of less downtime.



VACUUMATOR® PUMP BY JETS®

THE PRINCIPLE OF A JETS® VACUUM SYSTEM:

- 1 VACUUMARATOR® PUMP BY JETS®**
The Vacuumarator® pump is the heart of our system, and supports multiple interceptor tanks. It generates vacuum efficiently while using very little energy.
- 2 ELECTRONIC CONTROL UNIT**
Continuous automatic monitoring and control of the pump, valves and interceptor tanks is available. This keeps the system functioning smoothly, and features alarm signals for easier troubleshooting, service and maintenance.
- 3 INTERCEPTOR TANKS**
Jets® interceptor tanks are installed underneath freezers and refrigerators to collect condensate water. When the water level reaches a predetermined point, a level sensor in the tank triggers the vacuum valve in the ceiling to open.
- 4 VACUUM VALVES**
Jets® vacuum valves in the ceiling are triggered by level sensors in the interceptor tanks. The valves open for a few seconds, enabling the vacuum to lift condensate water vertically up to the ceiling where it enters the main pipe.
- 5 VACUUM PIPING**
Liquid transport in vacuum pipes is highly efficient and completely independent of gravity. Therefore small-diameter pipes are used, with 32 mm and 50 mm being the most common.
- 6 TRANSPORT POCKETS**
Transport pockets are installed to ensure safe and smooth transport of the condensate water.

LIFT CONDENSATE WATER VERTICALLY TO THE CEILING

Jets® systems allow you to eliminate floor drains altogether, by lifting condensate water up to the ceiling with the power of vacuum.

If you are used to traditional gravity based systems, you have to re-think your whole approach to water transport. Jets® offers you the flexibility to route piping upwards and removes gravity challenges.

An electronic control unit monitors the system. When condensate water in an interceptor tank reaches a predetermined level, the tank's level switch triggers the valve to open. The water is then lifted to the ceiling through a vacuum pipe.

This highly efficient process only takes a few seconds.



UNIQUE FLEXIBILITY

WHY CHOOSE JETS® VACUUM SYSTEMS TO REMOVE CONDENSATE WATER?

Jets® vacuum systems are able to handle long transport distances without problems, even if the pipes are installed horizontally. You can place your freezers where they fit best, independent of floor drains and pipes. Condensate water is lifted up and transported through pipes in the ceiling.

The system is easy to expand if more refrigerators or freezers are to be installed.

With electrical valves and controllers, the system also gives you reliable operation and easy monitoring.

The unique Vacuumator® pump is very space efficient, and does not need to be positioned in immediate proximity to the drain.

Jets® interceptor tanks are used in place of floor drains.



CLOSED FOR REMODELING

Closing your store for several days because of remodeling can have a huge effect on your total income. It may also affect customers' shopping patterns by having them choose other supermarkets.

Fortunately, there is no reason to stay closed for long, even if you are moving freezers and refrigerators to new positions. With Jets® you can easily move the vacuum pipes to new positions, with a minimum of effort. This will also reduce your future costs.

After installing a vacuum system for removal of condensate water, remodeling has never been easier. With Jets® you can save money long-term.

SHORT DOWNTIME AND GREAT FLEXIBILITY



NO NEED FOR FLOOR DRAINS

Jets® systems allow you to re-think condensate water transport entirely.



NO NEED FOR EXPENSIVE REBUILDS

Jets® systems allow you to keep the building fabric intact – including the floors.



NO NOISE, DUST AND COVERING OF GOODS

Jets® systems allow you to remodel without the negative consequences commonly associated with such work.



REDUCING THE RISK OF SLUDGE

With Jets® you do not have to worry about sludge in the drains.

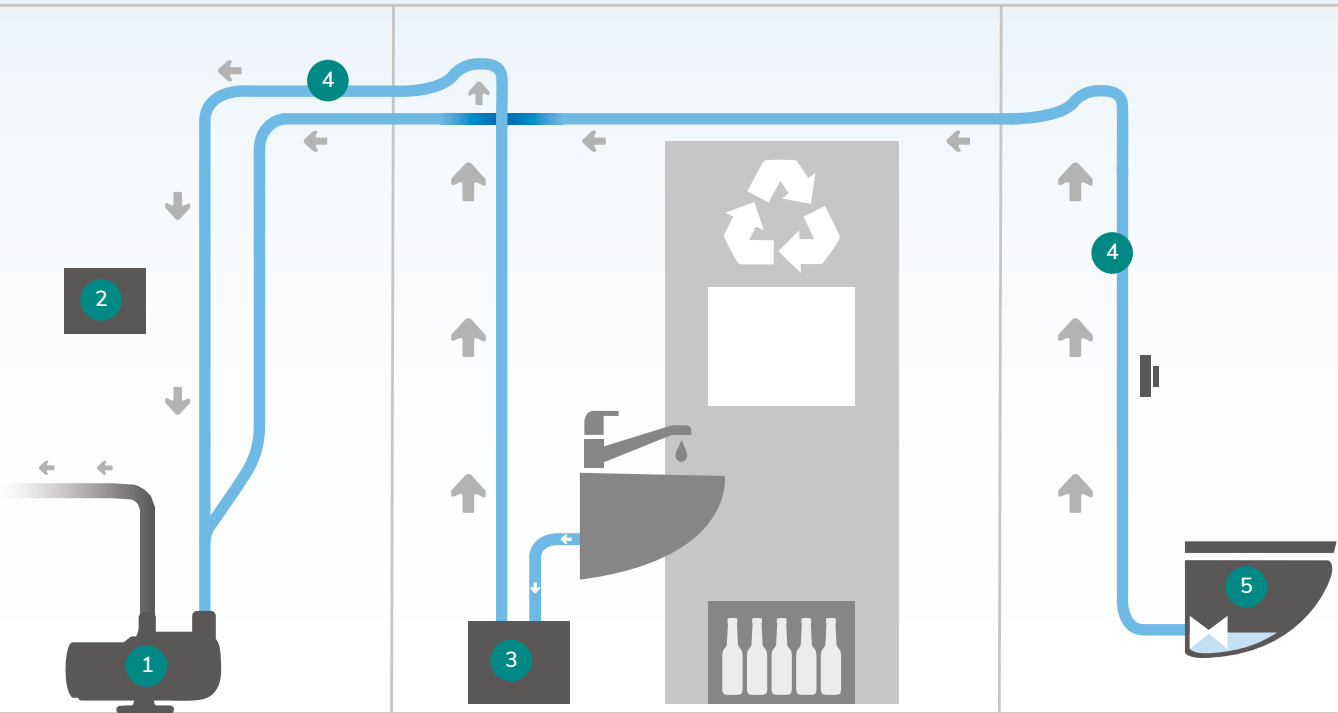
FLEXIBLE SOLUTIONS FOR TOILETS AND WASH BASINS

Jets® vacuum systems are not limited to transport of condensate water.

We offer vacuum solutions for wash basins, bottle recycling machine drains and vacuum toilets. Our water saving toilets for wall or floor installation can be placed in locations where traditional toilets are difficult to install. We have extensive experience with all of the above, and can provide system design assistance.

Contact us for more information or help for your project.

- 1 Vacuumarator® pump
- 2 Electronic control unit
- 3 Interceptor tank/greywater tank
- 4 Vacuum piping
- 5 Jets® vacuum toilets



THE HEART OF OUR SYSTEM



The unique Vacuumarator® pump is the heart of any Jets® system. Made in Norway to extremely tight tolerances, this is the original by Jets® that uses very little energy to generate vacuum and transport liquids in a single-pass operation.

The Vacuumarator® pump is the most compact and reliable vacuum generator available for sanitary systems. It is highly efficient in transporting any type of liquid under vacuum, including condensate water.

The first Vacuumarator® pump, invented and made by Jets® in 1989, was a revolutionary sanitary solution. Since then we have continuously developed and refined our technology, and expanded the capacity range.

Renowned for their reliability and impeccable quality, more than 60,000 Vacuumarator® pumps by Jets® are currently in operation worldwide. They are used in a wide range of applications, including vacuum toilet wastewater transport, meaning your store's vacuum system can be designed to include vacuum toilets in locations where traditional toilets may be difficult to install.



THE UNIQUE ADVANTAGES OF THE VACUUMARATOR® PUMP:

- | | | |
|---|---|--|
| <p>UNSURPASSED RELIABILITY
Made in Norway, the Vacuumarator® pump is the most reliable vacuum generator available for vacuum sanitary systems.</p> | <p>FLEXIBILITY
Compact dimensions, small footprint and low weight allow unique installation flexibility.</p> | <p>HIGH CAPACITY
The Vacuumarator® pump provides unmatched system performance, supporting multiple interceptors and other interfaces.</p> |
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THE HIGHEST STANDARDS

All Jets® products and systems are manufactured to the highest industrial standards, with each and every component carefully assembled and thoroughly tested.

Jets® has three decades of experience in vacuum sanitary systems, and has grown to be a worldwide organisation. Product development, production, testing, logistics and service are carried out by a handpicked network of internal and external resources, keeping our customers worldwide satisfied by delivering quality on time – every time.

It is imperative to us that our customers are satisfied with the quality of our products, technology, customer service and technical follow-up.

ISO
9001:2015
CERTIFIED

ISO
14001:2015
CERTIFIED

To ensure unsurpassed quality and environmental compliance, Jets Vacuum AS Management System is certified in accordance with ISO 9001:2015 and ISO 14001:2015. These and other certifications help inspire and promote continuous improvement at Jets®.



« Jets® gives us the flexibility we need to remodel the store whenever we like – at practically no cost at all...
...Instead of costly renovations with concrete and tile work every few years.

SVEIN ARILD ENDAL
Store Developer, ASKO

ASKO

Vacuum systems from Jets® enable easy transport of condensate water from freezers and refrigerators.

The water is lifted up to the ceiling using vacuum, and then transported away through small-diameter pipes.

Choosing Jets® for new buildings solves a future problem, today. When time comes to remodel the store, there will be considerable savings since moving the vacuum pipes is a quick and simple task.

Choosing Jets® for existing buildings means you have a completely new freedom to place freezers and refrigerators exactly where you like – completely independent of existing floor drains.

Using Jets® is simply good business – for your business!

JARI PIHLAJAMAA

Building Services Manager, Kesko Grocery Trade



We have chosen Jets® to remove condensate water from the cooling cabinets. Upgrading to Jets® means we save money because of easier assembly work and easier modifications when time comes to remodel the store.

Compared to traditional methods with under-floor piping and drains which require heavy construction work for every remodeling project, the Jets® system is much less costly. Maybe not initially, but the overall cost is lower over the life cycle of the system.



STEIN LARSEN

Technical Manager, Dpend AS

dpend™

As plumbing contractors we have carried out a great deal of remodeling work for several grocery store chains and other businesses across Norway, although mainly in our own district.

The Jets® vacuum system is very easy to install, and often yields tremendous advantages during remodeling operations. Concrete slotting and cutting costs are eliminated, and quite often this also enables us to avoid new tiling altogether.

Additionally, many grocery stores are located in shopping centers where the vacuum system saves us from extensive

work in the ceilings one floor down, allowing other businesses and storage rooms on that floor to remain unaffected.

Another point is that if any changes are made to the store layout down the road, such as relocating freezers and refrigerators, the vacuum system is fully accessible and can be altered very easily to accommodate those changes.

For these reasons, the Jets® vacuum system usually offers great savings during store remodeling, and we will continue using it in the future.



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technology**



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