

Pioneering for You

wilo

Product brochure

Wastewater collection and transport Your reliable solids separation system. Wilo-EMUport CORE.

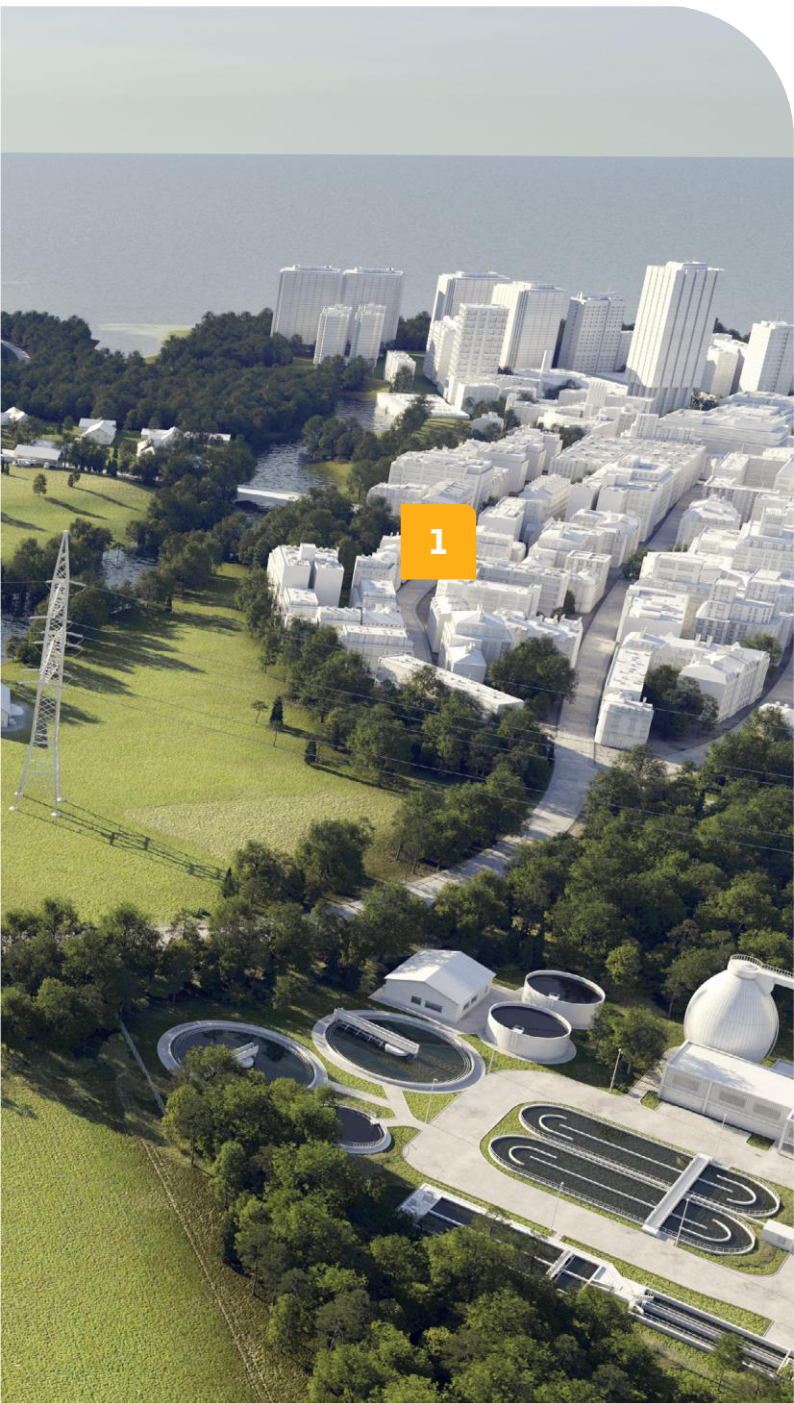


Reliable solutions have design. With Wilo.



Wilo sewage expertise at a glance

- 1 Drainage inside buildings
- 2 Drainage of localities



Our complete support for you.

Our experts support you personally in every project phase, from design and configuration right through to commissioning and maintenance. We take a holistic approach to your system. This allows us to provide customised product solutions and set new standards for you in terms of technical performance, cost efficiency, safety and durability – in all wastewater collection and transport applications.

Wilo – the right partner to address your challenges.

Given global climate change, low energy consumption is a key issue in the market. The cost pressures on municipal or private suppliers are rising. The challenges are growing. These include increasing levels of solids in sewage, more and more regulations, and stricter legal requirements. With Wilo you have a partner for this that you can fully rely on. In this brochure we provide you with reliable solutions for sewage transport from buildings and for local drainage of entire areas.



Wilo-EMUport CORE. The system as an underground pumping station.

Wilo-EMUport CORE.

For your reliable sewage transport.
And separation.

Growing solid content in sewage is creating great challenges in the context of drainage of entire localities, but also public buildings such as hotels and airports hospitals. The technological and economical solution: Wilo-EMUport CORE. The innovative solids separation system offers the highest level of operational reliability and guarantees reliable transport of sewage. By separating solids from sewage, pumps do not come into contact with the solids. Clogging, which can lead to operational failures, is prevented in a sustainable manner. Therefore, the system sets the highest standards with regards to operational reliability, economy and comfort.



Efficient sewage lifting unit with solids separation system

Wilo technology is behind clean pumping.

The solids separation system reveals unique Wilo technology. It is used to separate coarse solids from sewage and retain them in separate solids separation reservoirs upstream of the pumps. Only the pre-treated sewage passes through the pump hydraulics and is fed into the collection reservoir. This sewage is pumped into the upstream solids separation reservoir during the pumping procedure and pumped with the solids into the discharge pipeline. The pumps remain dry due to their location outside the reservoir and not in the fluid. This allows maintenance work on the pumps to be carried out conveniently and hygienically.



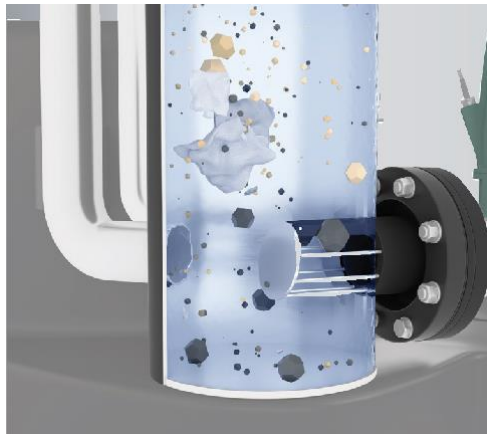
Functionally reliable division and separation.

Inflowing sewage flows over the distributor into the solids separation reservoir. The solids are retained, and the pre-treated sewage flows on into the collection reservoir.



Open. Close.

The collection reservoir is filled, and the floating shut-off ball automatically closes the inlet of the solids separation reservoir.



Clean forwarding.

Due to prior separation, only pre-treated sewage passes through the pump hydraulics. In this way no deposits are formed and the system is practically self-cleaning.



Targeted pumping out.

The pumping procedure of a pump is started. Pre-treated sewage is pumped in the opposite direction through a solids separation reservoir. Solids are pumped into the discharge pipeline.

Wilo-EMUport CORE.

Designed such that solids do not disrupt your sewage transport.

The solids separation system Wilo-EMUport CORE is your solution for reliable sewage transport. A prefabricated system, which is compact, flexible and modular. In this way it is suited both for installation in buildings as well as for concealed floor installation in chambers. Owing to the various available sizes, you can choose the system that is a precise match for your inflow conditions.

All systems of the Wilo-EMUport CORE series are type-tested by TÜV Rheinland in accordance with DIN EN 12050-1 and are also continuously monitored. This ensures you the highest level of operational reliability and quality.

Resistant, long-lasting.

Collection reservoir with deposit-free geometry made of corrosion-free PE

Well-thought-out retention.

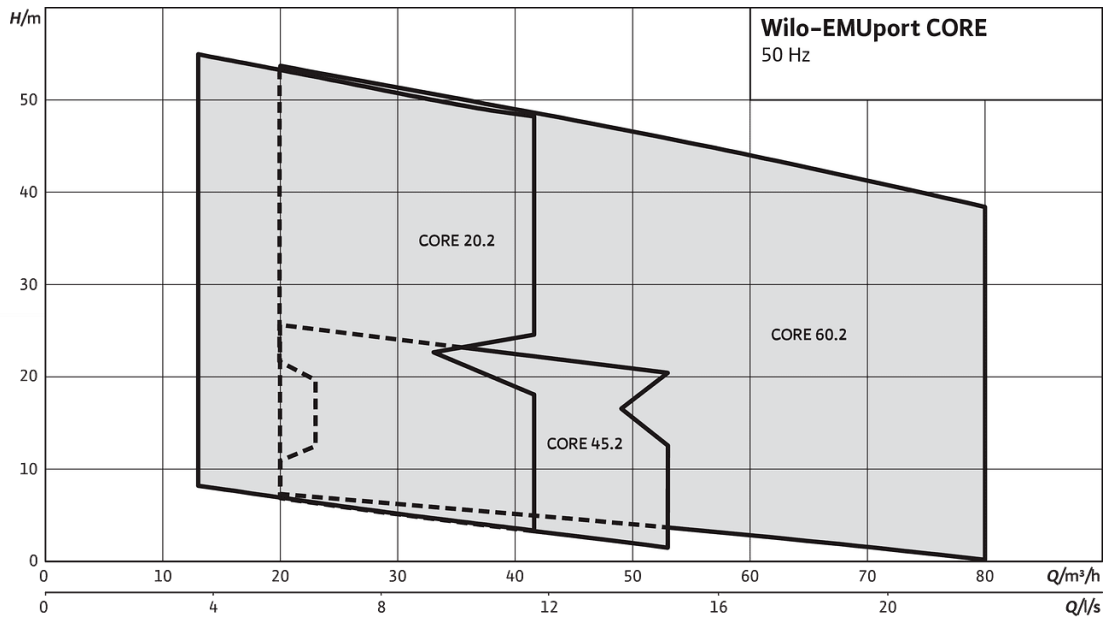
Solids separation reservoir made of corrosion-free PE

Manual flushing.

Backwashing into collection reservoir for manually flushing the collection reservoir



Overview of product series

**Control at a glance.**

Inlet box with transparent cover. For visible inspection during operation

Easy maintenance during operation.

Individual shut-off of the solids separation reservoirs

Efficient power.

Submersible pump with slight tilt for automatic venting, optionally with IE3 motor*. In easy maintenance, hygienic dry well installation.

*Based on IEC60030-2.

Easy to clean.

Cleaning opening on the collection reservoir and pump connection with quick-release fastenings

Wilo-EMUport CORE.

Reliably drain entire areas or localities.

Sewage disposal involves having to transport great volumes at low cost. That requires solutions which are highly efficient and durable. With the Wilo-EMUport CORE solids separation system, Wilo offers a highly economical system ready for connection and designed for installation in pump chambers. It entails minimal operating costs and is easy to maintain. A technology with which entire localities or even large industrial and commercial complexes can be reliably drained. Special features: Wilo-EMUport CORE is designed in such a way that it is also suitable as a retrofit system for modernising older pumping stations.

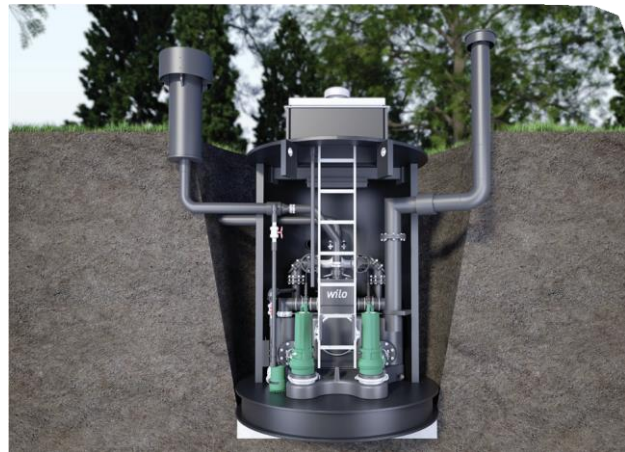


From the existing system in a wet well installation to clean hygienic solution in dry well installation, Wilo-EMUport CORE allows for modification as a retrofit system.

The Retrofit system. The perfect replacement.

For operators it makes sense to modernise existing systems for economic reasons. With Wilo-EMUport CORE you are instead choosing a particularly economical, reliable and future-proof solution. By converting a conventional pumping station with wet well installation to a solids separation system in dry well installation, you are opting for greater hygiene and cleanliness. That also makes maintenance easier, faster and cheaper. In addition, you can be sure that the pumps are overflow-proof (protection class IP68) and will also function if the chamber occasionally fills up.

So that you can benefit from these advantages, Wilo provides you with a cost-effective design concept with the retrofit system. A renovated pumping station is designed by experts taking into account all existing dimensions, inlets, pipe outlets and your custom requirements.



Faster and easier to the new pumping station with solids separation. Wilo-EMUport CORE is a "Plug & Pump" system. In other words, completely ready for connection, including chamber, pumps and switch system.

Complete pumping station made of polyethylene.

When it comes to redevelopment of localities, choosing intelligent drainage of sewage is crucially important. A reliable choice based on the Wilo-EMUport CORE solids separation system is future-proof and dependable. Here you can also choose the system as a complete pre-fabricated pumping station. A unit ready for connection, including pumps and switchgears – that is, a modern Plug & Pump solution. It is also so compact that it can be installed in chambers from 1500 mm in diameter.

This application also keeps the pump room dry, clean and odour-free. The design, including a pump chamber made from polyethylene, ensure a long service life and reliable operation. From various cover classes which can be driven over to the highest ground water levels, this offers a future-proof alternative in contrast to concrete and stainless steel-based designs.

Variable designs.

Systems with customised sewage pumps, also with active cooling system, for a performance range up to 80 m and 600 m³/h. Our experienced personnel take the exact dimension on site. This collected data can then be used together with your individual customer requirements to design and produce your pumping station together with all the necessary equipment.

Overview of the advantages:

- Maximum reliability by separating solids from sewage: Large solids do not have to pass through the pump – no clogging
- Cost-effective due to retrofit system for simple renovation of old pumping stations
- Durable and corrosion-free due to the use of PE and PUR material
- Easy maintenance, even during operation – owing to hygienic dry well installation and easy access from outside and individual blocking
- Future-proof even with increasing solid content in sewage
- Flexible installation in buildings or in chambers from 1500 mm diameter
- Energy savings due to efficient submersible sewage pumps, optionally with IE3 motors

Wilo Services.

Our full-service package for you as partners.

With Wilo as your partner, you can not only be sure of choosing high-quality product solutions, but also of benefiting from a comprehensive, worry-free package of well-thought-out services. This means that we reliably support you in every project phase, from design and configuration right through to commissioning and maintenance. In our seminars we tell you about the very latest technologies and trends. And when it comes to attractive conditions for your projects, we also have just the right package to offer.

In short, Wilo is always by your side. In person and on site. With local services in over 60 countries and more than 1200 Wilo engineers worldwide.

We make the design and selection process simple for you.

We don't want you to choose just any old solution – we want you to find the one that meets your exact requirements. As a result, we work through your requirements with you before the purchase and, on this basis, we prepare the individual product solution that is most economical for you.

Pre-sales services for your tailor-made choice:

- On-site support
- Consulting support
- Product selection
- Select programme
- Digital flow simulations
- Flow calculation
- Pipeline calculation
- Installation drawings
- Documentation

“Services that provide comprehensive and reliable support.

**That's what we call
Pioneering for You.”**



You cannot go wrong with Wilo.

When you have made your choice, we provide you with thorough advice on your investment. What is more, we do not just deliver your solution, we continue to support you – from certification right through to commissioning.

For example, qualified plant engineers with years of experience will carry out an extensive test and training phase with our pumps.

Sales services that really work for you.

- Certification
- Acceptance testing at the plant
- Commissioning
- Start-up

Wilo-Financial Services.

We help you with the financial implementation of your projects, and gladly create a quotation specially tailored for your investment.

Try & Buy.

Try & Buy lets you play safe with your investments. Choose a no-risk trial for up to six months to convince yourself of the quality of Wilo's products.



We are there for you. Even after the purchase.

Our tailor-made service solutions cover the entire lifecycle of your Wilo products – including what comes after your purchase. That is why we have professional service engineers available for you locally and globally so that we can supply spare parts quickly and reliably at any time, and why we provide targeted training courses among other things to enhance your expertise. And we continually strive to improve our services.

After-sales services with real added value for you!

- Customised, reliable maintenance concepts
- Rapid repair service
- Fast spare parts solutions
- Efficiency check
- Specific training courses

WiloCare.

Our service offer for guaranteed operational reliability and cost certainty. Monthly reports keep you up to date on how your system is doing: system status, energy consumption, possible optimisations and pending maintenance intervals. Wilo can offer you individually tailored services in various packages at a fixed monthly price.

These allow you to check how reliable your processes are at any time – both in terms of technology and costs.





Pioneering for You

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