

Dirty water construction pumps

Clean or very dirty liquids

The use of submersible dirty water pumps is recommended when heavily contaminated liquids have to be pumped. Typical applications include drainage of garden ponds and construction trenches or emergency drainage in the event of flooding.

Submersible dirty water pumps can be used to move very heavily contaminated water. The “maximum particle size” stated in the technical information for each pump is the key consideration: this refers to the maximum permissible diameter of dirt particles in the pumped liquid. T.I.P. submersible dirty water pump starter models already boast an impressive 20 mm maximum particle size. Our top-of-the range models transport liquids with very large diameter particles – up to 40 mm – without any problem.

Wide variety of applications for submersible dirty water pumps

T.I.P. submersible dirty water pumps have a broad spectrum of applications. These include typical applications such as emptying garden ponds, pools or cisterns. With their high-quality technology, they are also ideal for drainage tasks under difficult and extreme conditions – e.g. pumping out construction- and dirty water trenches – as well as emergency drainage following flooding.

Naturally, submersible dirty water pumps are also suitable for transporting clear or slightly contaminated water.

Tried and tested technology: The VORTEX impeller system

Submersible dirty water pumps transport water containing larger and smaller contaminant particles. However, sludge, sand, leaves, other plant debris and similar particles can block the pump, impair its functioning or cause it to stop working entirely. To avoid this, T.I.P. submersible dirty water pumps are equipped with the VORTEX impeller system as standard. This effectively prevents pump blockages, as debris is swirled around and broken down, allowing it to pass through the hydraulic system unimpeded. This technology has been repeatedly tried and tested over many years of practical use – for example when pumping out ponds and construction trenches. The VORTEX impeller system ensures trouble-free operation even during emergency drainage, when water with coarse particles has to be very quickly removed, and pumps have to work with maximum efficiency and reliability.

All T.I.P. submersible dirty water pumps comply with strict TÜV safety regulations for outdoor use.

Choosing the right dirty water construction pump

Our extensive range of dirty water construction pumps allows us to offer you the right product for every purpose. The T.I.P. guide will help you find exactly the right pump for your requirements.

EXTREMA series - outstanding technical characteristics

With their extra-high quality design and amazing technical characteristics, our EXTREMA series submersible dirty water pumps stand out from the crowd. Featuring a water-cooled motor, self-lubricating precision ball bearings, special seals and precision stainless steel motor shaft, these appliances not only achieve outstanding results in all submersible dirty water pump applications; they also cope very reliably with the tasks of draining construction- and dirty water trenches that are demanded of construction pumps. Another special advantage of this pump type is the ability to transport hot water, which most submersible dirty water pumps cannot tolerate.

During non-stop operation, the temperature of the pumped liquid can be up to 50 °C, for short periods even 95 °C. Consequently these pumps are suitable for removal of washing machine wastewater and similar purposes.

With their outstanding technology and outstanding performance figures, the EXTREMA 300/10 Pro and EXTREMA 400/11 Pro are absolutely top-class submersible dirty water pumps, able to cope with the heaviest demands under extreme conditions. Holding the uncontested top spot in this product series is the Extrema 500/13 Pro. Its unusually high maximum flow rate of 30,000 litres per hour and maximum pressure of 13 bar indicate all by themselves how exceptionally effective this outstanding model is.

High-quality materials and no compromise on the technology: the keys to the high quality of our submersible dirty water pumps.

- Housing made of impact-resistant plastic or high-quality stainless steel.
- Maintenance-free capacitor motor with high-quality copper coil and thermal overload protection.
- Motor also enclosed in stainless steel housing.
- High-quality ceramic-reinforced stainless steel precision motor shaft.
- Precision ball bearings.
- VORTEX impeller system.
- Float switch for automatic operation.
- 10 m connection cable.
- All models equipped with connectors.

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T.I.P. submersible dirty water pumps are not suitable for pumping salt water or flammable, corrosive, explosive or other hazardous liquids.







