



## General description

The HydroSub 250 mobile pump unit consists of a diesel-hydraulic power pack pump unit with a lightweight portable hydraulic driven submersible pump, complete with floating device and a built in boost pump. As an option you can connect two FloodPumps in stead of the standard submersible pump.

**No draft problem anymore. No suction draft losses.** Due to the application of a hydraulically driven submersed floating pump, feeding a boost pump. Fixed installed in the pump housing and powered through a hydraulic transmission by a powerful diesel engine. Compactly build into a base skid-frame.

Featuring access to any open water at a horizontal and vertical combination distance of total 60 meters. It also allows to be used as a boostpump when fed by hydrants or any other positive pressure water source.

## Capacity

Standard : 8000 lpm @ 10 bar  
FloodModule (optional): 30.000 lpm



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On a CombiContainer



Submersible pump

# HydroSub 250



## Capacity

Standard impeller at 15m pump lift:  
8000 lpm @ 10 bar (2100 GPM @ 150 psi)

## Dimensions & weight

Dimensions: approx. 4700 / 1060 / 1925 mm

Weight: approx. 3900 kg

## Main features

### Mobile water transport system

Besides the HydroSub units, Hytrans supplies additional equipment to complement the Hytrans water transport system.

**Hose Layer Containers** for the fast deployment of thousands of meters Super Large Diameter hoses up to 12-inch.

**The Hose Recovery Unit (HRU).**  
An automatic hose pick-up system to recover hoses fast with minimal manpower.


**Hoses and hardware.** Large diameter hoses, Y-pieces, gate valves and all other equipment needed to lay-out a complete and temporary aboveground water distribution system in no time.

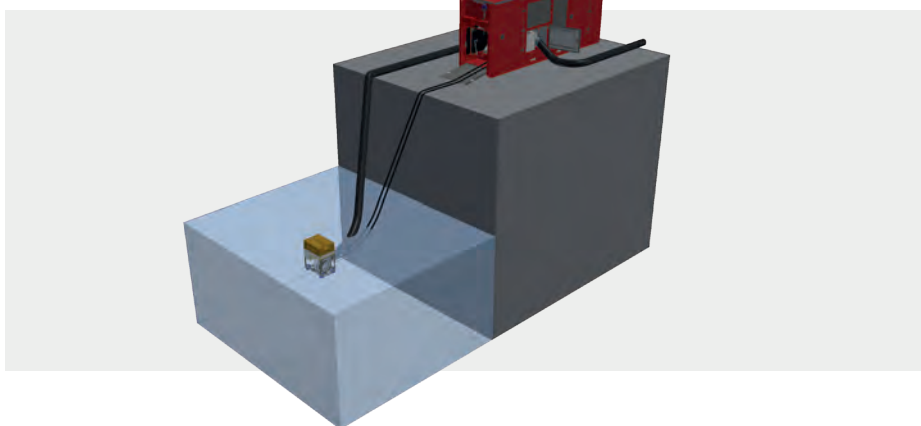
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**The HydroSub 250 is a mobile pump unit driven by a powerful diesel engine with radiator cooling. The unit is built in a base skid-frame with stainless steel panels and anodized aluminium doors. Designed to last!**

### Submersible floating pump

The lightweight aluminium pump housing with aluminium impeller is built into a stainless steel carrying frame with floater and wheels. The pump (only 60 kg / 132 lbs) is connected to the diesel-hydraulic power pack by means of two hydraulic hoses installed on two reels. The submersible pump feeds the main-boost pump fixed installed in the container pump housing.

The submersibility and floating features guarantee operation with the cleanest possible water, not affected by the water level or waves. Even in cases where water is being pumped from very shallow locations and consequently the risk of an airlock due to an air bubble exists, the pump will still maintain its operation. This in contradiction with a conventional suction pump. No suction loss possible and no priming needed!.

### Accessibility / Operational speed

The portability and the 60 meter hydraulic hose length guarantees access to almost all open waters, providing a very speedy water supply without any capacity loss or time loss due to draft problems, at a reach of up to 60 meter or with a vertical lift of up to 15 meter. The hydraulic hose is stored on two hydraulic driven hose reels. The unit is standard equipped with a hydraulic driven support winch to retrieve the submersible pump after deployment.

### Boost pump

The built-in boost pump is directly driven by the diesel engine. Due to the use of special bearings the pump can run dry for a prolonged time without damage. A full automatic regulation of the submersible pump and an automatic pressure regulation comes as a standard. The total system provides a nominal output capacity of 8.000 lpm @ 10 bar.

### Hytrans Control System

The HydroSub 250 is controlled by an easy to operate Human Machine Interface and an advanced monitoring system (CAN-bus). This system monitors and maintains all process values (oil pressure, oil temperature, output pressure, etc.) to secure a safe and reliable behaviour of the unit. For instance, the submersible pump is automatically regulated to react smoothly at starting up to prevent water hammer. The system is standard prepared for remote control or radio control.

Audible and visual alarms are generated when a parameter falls outside its maximum or minimum settings. If alarms are ignored for a prolonged time, the unit will at your choice either automatically regulate itself to a safe level to prevent permanent damage OR it will, at your choice, "run-to-death". Faulty sensors can be overruled to prevent unwanted shut-down.

### Emission and other options

The HydroSub 250 is available at different emission levels including EU/USA non-road mobile machinery (NRMM) exhaust emission rules (EU stage 5/EPA Tier4F)). A full list of options is available, including extendable light pole, seawater resistable submersible pumps and a lot more.