HydroSub 550

Hytrans

General description

The HydroSub 550 mobile pump unit consists of a diesel-hydraulic power pack pump unit with a portable hydraulic driven submersible pump, complete with floating device and a built in boost 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 container mainframe-pump housing.

Featuring access to any open water at a horizontal and vertical combination distance of total 60 meters. It allows full capacity up to 15 meters (50 ft) vertically!

Capacity

Standard : 14000 lpm @ 12 bar
at 15m pump lift

Scan for more info

Control panel HydroSub 550

HydroSub 550 with hookarm

HydroSub 550

Hytrans

Capacity

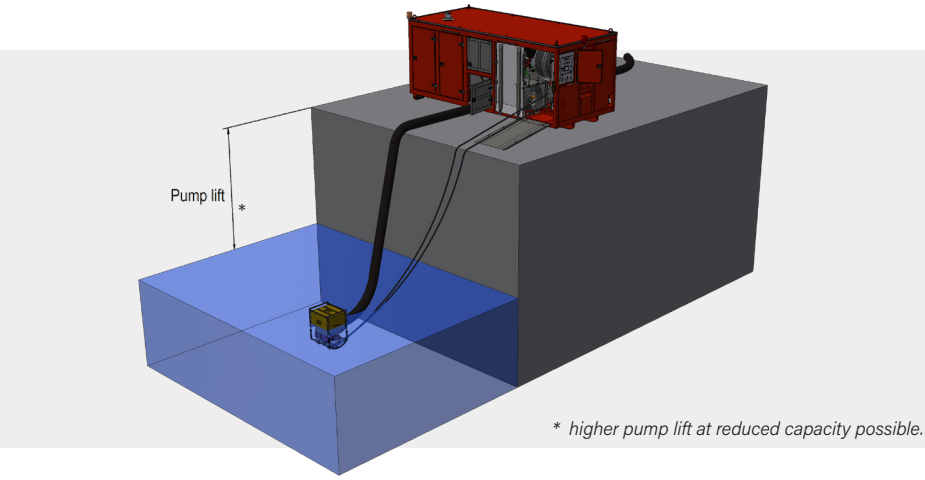
Standard impeller at 15m pump lift:
14000 lpm @ 12 bar (3700 GPM @ 175 psi)

Standard impeller at 10m pump lift:
15000 lpm @ 12 bar (4000 GPM @ 175 psi)

Dimensions & weight

Dimensions: approx. 5750 / 2450 / 2550 mm
Weight: approx. 9600 kg

Main features



* higher pump lift at reduced capacity possible.

The HydroSub 550 is a mobile pump unit driven by a powerful diesel engine with radiator cooling. The unit is built with stainless steel panels and anodized aluminium doors, where the locks and hinges are of a high quality stainless steel. The transportation of the unit is done using a truck with hook arm lift off system.

Basic frame/housing

Compactly build-in in closed housing, on container POD frame or alternatively on a trailer or fixed installed on truck. Inside the housing there is a compartment to store the 1 x 60m 10" lay flat feeding hose. Layout and dimensions, please see separate drawings (available on request).

Submersible floating pump

The stainless steel pump house with hlu-bronze impellor is build into a carrying frame with floater and wheels, connected to the diesel-hydraulic power pack by means of two hydraulic hoses installed on two reels. The submersible pump (135 kg/300 lbs) feeds the main boost pump, which is fixed installed in the container pump housing.

Hytrans Control System

The HydroSub 550 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 provide a constant inlet pressure independent from the diesel engine speed and is also forced to react smoothly at starting-up to prevent water hammer. As a standard, the system is prepared for remote control or radio control.

Audible and visual alarms are generated when a parameter falls outside its maximum or minimum settings. If the 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.

Foam injection

Optionally, an integrated Hytrans PowerFoam system is available, allowing foam premixing up to 6%. The electronically controlled, hydraulically driven foam pump provides accuracy and stepless choice of foam percentage. On the HydroSub 550F, foam recirculation for training purposes without actual foam injection is possible.

Hydraulic system

The hydraulic system consists of:
- Variable displacement hydraulic pump;
- Floating pump drive, winch drive, hose reels drive;
- 60 m hydraulic hose per floating pump;
- Oil tank.

Emission and other options

The HydroSub 550 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.

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.

Contact us for more information.

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