

Hytrans® HydroSub® 60



General description

The HydroSub® 60 mobile pump unit consists of a diesel-hydraulic power pack pump unit with a portable hydraulic driven submersible pump, complete with floating device.

No draft problem anymore. No suction draft losses, due to the application of a hydraulically driven submersed floating pump, 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 30 meters.

Standard : 1.500 ltr/min @ 9,5 bar

Hi-Flow : 4.000 ltr/min @ 2,5 bar

FloodPump : 20.000 ltr/min

(Above pump capacities +/- 5%)



HydroSub® 60 with FloodPump



HydroSub® 60 skid version



HydroSub 60® with standard submersible pump

Hytrans® HydroSub® 60

Main features

The HydroSub® 60 is a mobile pumping unit driven by means of a powerful diesel engine with radiator cooling. The unit is compactly built in a skid-frame with light weight ABS/PMMA side panels and an anodized aluminium door. Optionally the unit can be supplied with a dual axle trailer version.

Base frame skid

This skid frame is dimensioned as such, that it can easily be installed in any small vehicle. Inside the frame there is storage space for either the standard submersible pump or the optionally available FloodPump.

Submersible floating pump

The standard stainless steel submersible pump is built inside a stainless steel frame with wheels and a float. The total weight is only approx. 50 kg. and provides the ability for two persons to place (throw) the pump in the water.

FloodPump (option)

The FloodPump can be connected instead of the standard pump. The FloodPump with a total weight of approx. 91 kg. has an aluminium housing as well as impeller and is built in a completely demountable stainless steel frame with 4 lifting arms and wheels. The strainer is integrated in the lower part of

the frame and allows particles up to 40 mm pass.

Accessibility/operational speed

The portability and the 30 mtr. 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 30 mtr. either vertical, horizontal or a combination of both.

Submersible / Floating

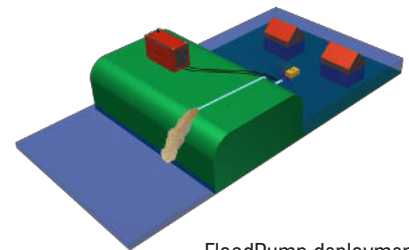
The submergibility and floating features guarantee operation with cleanest possible water, not affected by the water level or by waves. Even in circumstances where water is being pumped from shallow locations and consequently the risk of an airlock due to an air bubble exists, the pump will still maintain its operation. This in contradiction with conventional suction pumps.

Hydraulic transmission

The hydraulic transmission consists of a high-efficient axial-piston pump that is powering, by means of 30 meter hydraulic hose, a hydraulic motor attached to the submersible floating pump. Hydraulic system pressure maximum 350 bar.

Operation

The capacity is engine speed controlled by means of an advanced CAN-bus control system. The ergonomically designed control panel with proprietary Hytrans® control system ensures all vital parameters are measured and automatically maintained, such as oil pressure, oil temperature, fuel level, motor temperature, etc. The display also shows the calculated water output and pressure. Audible and visible alarms are generated when a parameter falls outside its 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.



FloodPump deployment

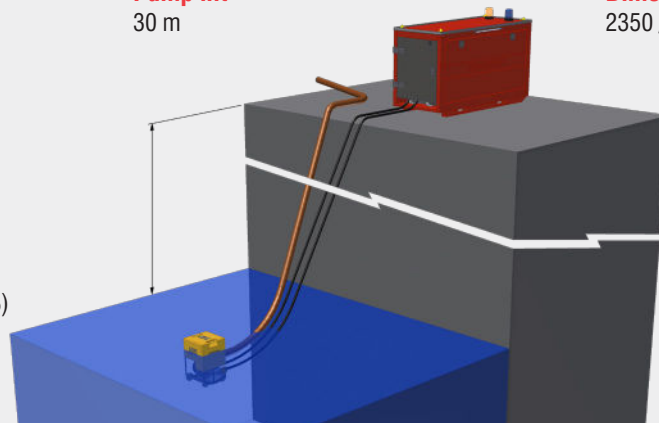
Capacity

Standard impeller
- 1500 lpm @ 9,5 bar
(400 GPM @ 138 psi)
With optional Hi-Flow impeller
- 4000 lpm @ 2,5 bar
(1050 GPM @ 35 psi)

FloodPump
- 20.000 lpm
(5300 GPM)

(Above pump capacities +/- 5%)

Pump lift
30 m



Dimensions / weight

2350 / 980 / 1400 mm / 1100 kg

Hytrans Systems