

# HydroSub HS 900

## HydroSub 900

The HFS HydroSub 900 is the most powerful pump available in the Hytrans Systems pumping line. No suction draft losses, due to the application of two hydraulic driven stainless steel submersed floating pumps, feeding a boost pump fixed installed in the pump housing, powered through a hydraulic transmissions by a 900 kW diesel engine. Compactly build into a container mainframe-pump housing. The hydraulic pump provides hydraulic flow and pressure to two each submersible pumps with a capacity of 11,000 lpm each, giving a 22,000 lpm total capacity. The two submersible pumps can draft the water from as far as 60 meters horizontally or 10-15 meters vertically away from the main unit in virtually every situation. Via two hoses the water will be delivered to the main pump at minimum of 1 bar. The main pumping unit will then boost the pressure to 12 bar into a 10" or 12" hose.



The unit is build with stainless steel paneling and doors, whereby the locks and hinges are of a high quality durable stainless steel. Maintenance of the HS-900 is kept to a minimum, whereby all inspection points are easily and readily accessible.

### Capacity

Submersible pump, 2 X 11000 ltr/min = 22000 ltr./min. at 2,5 bar pressure. Main-boost pump 22000 ltr./min. at 12 bar submersible pumps each 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, of 60 meters long, allowing pumping at 60 meters horizontal distance.

Dimensions: (submersible pump only) 580x710x935 mm. Weight each only approx. 135 Kg.

### Control instruments.

The HFS HydroSub-900 is controlled by an easy to operate Human Machine Interface and an advanced monitoring system (CANbus). The TFT color Instrumentation and control panel is fixed at side. This ergonomically designed control panel uses IQAN technology for easy operation. All vital engine output parameters are measured and maintained automatically. The display also shows the calculated water output. Audible and visible alarms are generated when a parameter falls outside its maximum or minimum setting. If alarms are ignored for a prolonged time, the unit will automatically regulate itself to a safe output performance level and as such prevent the unit from being damaged permanently, yet still giving maximum reliability. The system performs self diagnostic checks; in case of faulty sensor the HS-900 will still be operational, as the control system will assume safe default sensor setting 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. The system is standard prepared for remote control or radio control.

**Dimension:** (LxWxH in mm) 6500x2450x2350.

**Weight:** approx. 13000 kg.

