

HFS HYDROSUB 900



General description

The HFS HydroSub 900 is a diesel-hydraulic power pack-pump unit with a 900-kW Diesel engine. Featuring access to any open water at a combination distance of 50 meters (150 ft) horizontal and/or 10-15 meters (30-50 ft) vertical, at full capacity. Vertical access up to 50 mtr. at reduced capacity. 24000 ltr/min (6350 GPM) @ 12 bar (175 psi).

No draft problem any more. 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 the diesel engine. Compactly built into a container mainframe-pump housing.



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Main features

The hose layer

Featuring with the use of thousands of meters SLD Super Large Diameter hoses up to 300 mm/12-inch, extreme fast hose lay-out and easy speedy automatic hose pick-up with little manpower, due to the deployment of a revolutionary automatic hose pick-up system, the HFS-HRU-300 Hose Recovery Unit (see separate brochure, available on request).

Capacity

Submersible pump, 2 X 12000 = 24000 ltr./min (6350 GPM) at 2,5 bar pressure (35 psi).
Main-boost pump 24000 ltr./min (6350 GPM) at 12 bar (175 psi) pressure.

Basic frame/housing

Compactly build-in in closed housing, available in container POD frame or alternatively on a 2-axle trailer. Layout and dimensions, please see separate drawings (available on request).

Submersible floating pumps

Each built 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.

Dimensions: (submersible only)

580 x 710 X 885 mm.

Weight: each only approx.

125 kg. (275 lbs).

The main-boost pump fixed installed in the container pump housing.

Hydraulic transmission

Consisting of variable displacement hydraulic pumps, hydraulic motors, oil tank.

Control instruments

The HFS HydroSub 900 is controlled by an easy to operate Human Machine Interface and an advanced monitoring system (CANbus). This system monitors and maintains all process values (oil temperature, oil pressure, output pressure, etc, 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. The system is standard prepared for remote control or radio control.

