

HFS HYDROSUB 550



General Description

The HFS HydroSub 550 is a powerful diesel-hydraulic power pack-pumping unit. The hydraulically driven submersible pump has access to any open water from as far as 50 meters (150 ft) horizontally and 10-15 meters (30-50 ft) vertically at full capacity. Vertical access > 15 meter (>50 ft) at reduced capacity.

Max. output: 15000 ltr/min (4000GPM) at 12 bar (175 psi), optionally 14 bar (203 psi).

No draft problem anymore. No suction draft losses, due to the application of a hydraulically driven stainless steel submersed floating pump, feeding a boost pump fixed installed in the pump housing and all powered by a powerful diesel engine. Compactly build into a container mainframe-pump housing.



HFS HydroSub 550

Main features

Basic frame/housing

Compactly build-in in closed housing, on container POD frame. Layout and dimensions, please see separate drawings (available on request).

Submersible floating pump

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 dimensions: (submersible only) 580 x 710 X 885 mm weight only approx. 125 Kg. (275 lbs) The main-boost pump fixed installed in the container pump housing.

Hydraulic transmission

Consisting of:

- Variable displacement hydraulic pump;
- Hydraulic motor;
- oil tank.

Foam injection (option)

Hydraulically powered, electronic controlled very accurate Power Foam injection option. 1% - 6% adjustable. See Separate leaflet.

Control instruments

The HFS HydroSub-550 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.

Capacity

At 15 meter pump lift:

- 14.000 Ltr./ min. @ 12 bar
(3700 GPM @ 175 psi)

At 5 meter pump lift:

- 15.000 ltr./min. @ 12 bar
(4000 GPM @ 175 psi)

The hose layer

Featuring 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, thanks to a revolutionary automatic hose pick-up system, the HFS-HRU-300 Hose Recovery Unit (see separate brochure, available on request).

