

Hytrans® HydroSub® 900



General description

The Hytrans® HydroSub® 900 is a mobile diesel-hydraulic power pack-pump unit with a powerful diesel engine.

No draft problem anymore. 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 transmission by the 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 and allows full capacity up to 15 meters (50 ft) vertically.

Output: 24000 ltr/min @12 bar @ 15 m pump lift



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Main features

Due to the use of a powerful 850 KW diesel engine with heat exchanger, no radiator is used which results in a lower noise level and saves space inside the container. The unit is built with stainless steel panelling and anodized aluminium doors, where the locks and hinges are of a high quality durable stainless steel. The transportation of the unit is done by means of a truck with hook arm lift off system.

Basic frame/housing

Compactly build in closed housing, available in container POD frame or alternatively on a trailer or fixed installed on truck. Inside the housing there are compartments to store the 2 x 60 m 10" lay flat feeding hose. Layout and dimensions, please see separate drawings (available on request).

Submersible floating 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. Dimensions: (Floating pump only) 580 x 710 x 935 mm. Weight only approx. 135 Kg. each (300 lbs). The submersible pumps feed the main-boost pump fixed installed in the container pump housing.

Control instruments

The Hytrans® 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.

Foam injection

Optionally, an integrated Hytrans® Power-Foam system is available, allowing foam premixing up to 6%.

The electronically controlled, hydraulically driven foam pump provides unmatched accuracy and stepless choice of foam percentage. On the HydroSub® 900F, Foam recirculation for training purposes without actual foam injection is possible.

Hydraulic system

Consisting of:

- Variable displacement hydraulic pumps;
- Floating pump drives;
- Winch drive;
- Hose reels drive;
- 60 m hydraulic hose per floating pump;
- Oil tank.

Hytrans® Mobile Water Supply

Besides the HydroSub® units, Hytrans supplies all additional equipment to complement the Hytrans® Fire System.

Hose Layer Containers for 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 Hytrans® Hose Recovery Unit (HRU).

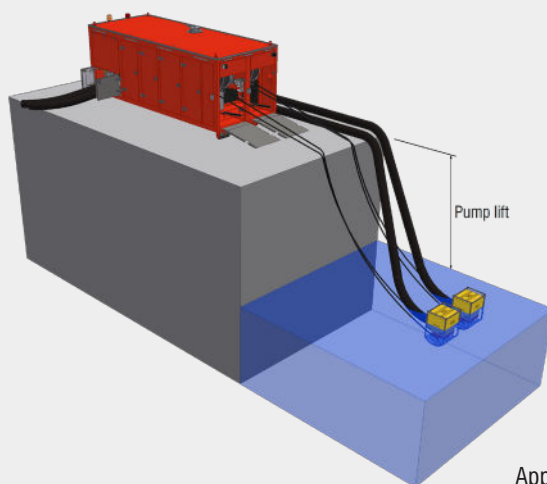
Also large diameter hoses, Y-pieces, gate valves and all other equipment needed to make a complete mobile water supply in no time and with a minimum of manpower. (see separate brochures, available on request).

Contact us for more information.

Capacity

Up to 15 meter pump lift:
- 24.000 Ltr./ min. @ 12 bar
(6350 GPM @ 175 psi)

Higher pump lift at reduced capacity.



Dimensions / weight

Approx.: 6400 x 2450 x 2550 mm / 12.200 kg

