Foamax
Fire fighting systems & equipment

Product name	**DependaPower SUB**
Description	**Pump system**
Manufacturer	**William's Fire and Hazard Control**
Rev.	**1.0/2023**

Description

Based on the vast experience of WILLIAMS FIRE & HAZARD CONTROL with suppressing industrial fires and mitigating other hazards, DEPENDAPOWER Submersible Pump continues the proven technique of applying overwhelming fire suppression power to control a dangerous situation in the shortest time possible.

The highly efficient hydraulic submersible pump is driven by a market leading diesel engine to pump water at a rate of 30,000 Lpm from a water source as far as 61 m away with a vertical lift of 10.6 m. This water flow can then be delivered to an on-board or separate boost pump where pressure is increased before sending to end-of-line devices.

The pump is available as either a standalone pumping system to feed a standalone boost pump, or as a pump combination with a DEPENDAPOWER boost pump. In either configuration, the water can be fed into large volume firefighting monitors such as the WILLIAMS FIRE & HAZARD CONTROL Ambassador monitor, or sent over a long distance hose relay, substantially increasing the logistical efficiency at incident sites.

The submersible unit is compact and easy to deploy. The self-contained pumping system can be built on a base skid, a hookload skid, or a trailer for easy transportation. A large integrated fuel tank can hold enough fuel to run the pump for up to 6 hours (depending on configuration and use).

Each unit is equipped with a support frame with handles, allowing lifting with a jack. Made of carbon fiber-reinforced composite polymer, making it comparable in strength to steel. The materials used provide high impact resistance, light weight and high corrosion & abrasion resistance in seawater.

Firefighting experience and commitment to reliability are incorporated into the design of the control system. DEPENDAPOWER Submersible Pump and submersible/boost combination units provide a user-friendly, waterproof LCD control screen as a primary interface, advanced sensors, redundant control mechanisms, and emergency shut-down switches for safe and easy operation that does not require extensive training.

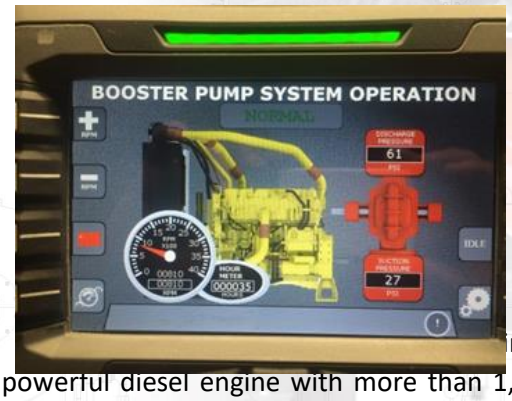
The stand-alone submersible pump is ideal for a user who already owns a DEPENDAPOWER draft/boost pump. Weighing

only 80 kg, the unit is ergonomically equipped with handles that allow operation by one or two people.

Williams Fire & Hazard Control offers many performance options and modifications depending on customer requirements - enclosures with additional sound insulation, solar panels, collectors, transportation method or lighting.

Use

Large quantities of water are usually critical for firefighting operations and mitigating other local emergencies. However, its source is not always readily available, such as when the water level at the point of extraction is well below the suction capacity of the fire pump, or when there are strong tides, i.e. the water level rises and falls. The DependaPower submersible pump allows water to be drawn from sources where conventional fire pumps cannot operate.



ngle powerful diesel engine with more than 1,000 horsepower, integrated with the pump to ensure the unit's full mobility, allowing it to meet the growing challenges of today's plant based specialized firefighting. The submersible pumps allow the unit to lift a total of 30,000 l/min up to 10.6 meters above the water's surface, providing positive pressure on the discharge side to feed a high-pressure pump that pumps water over long distances through hose lines.

In addition, the DependaPower submersible pump, whether used alone or in combination with a high-pressure pump, is ideal for land drainage. The submersible unit can pump up to approx. 15,000 l/min and can be easily reconfigured to successively remove water from the flooded area.

Note: metric values converted from imperial values are provided for informational purposes and do not reflect the actual dimensions.

Characteristics

- World-class components
- Enhanced security
- Simplicity of service.
- Modular compact design
- Versatile application
- Wide range of design options and flexibility to meet user requirements

World-class components - high-end workmanship, quality and reliability ensure trouble-free long-term operation for maximum return on investment

Enhanced safety - advanced filtration system reduces dirt ingress and prevents damage. Use of biodegradable hydraulic fluid minimizes environmental impact.

Ease of operation - digital control based on advanced sensors has been designed for easy and intuitive operation. Both hose lines and

hydraulic hoses are connected using quick couplings. In addition, the hydraulic hose reels are equipped with 24Vdc power assist to facilitate their retraction after use. The unit requires basic training and minimal maintenance.

A container body with a handle for loading by a special vehicle equipped with a hook lift increases mobility and rapid deployment in emergency situations.

Versatile application - each pump can operate independently or in tandem; suitable for pumping large volumes of water to supply firefighting equipment used in industrial and municipal fires. In addition, the pump can be used to drain flooded areas or to counteract the evaporation of hazardous substances and many other applications.

Wide range of performance options and flexibility of customization - design based on the experience and guidance of firefighters involved in firefighting operations at industrial fires. Provided to meet specific requirements at this type of incident. Compatible with many means of transport. The pump is additionally equipped with a hydraulic power Take-off (wet clutch System) and a cooling system based on radiators with a fan, which allows periodic starting of the engine without the need to build a water pipe. The parameters of the pump set allow the transfer of water through special industrial hoses even at a distance of 2 km, while maintaining the appropriate pressure and efficiency for firefighting operations.

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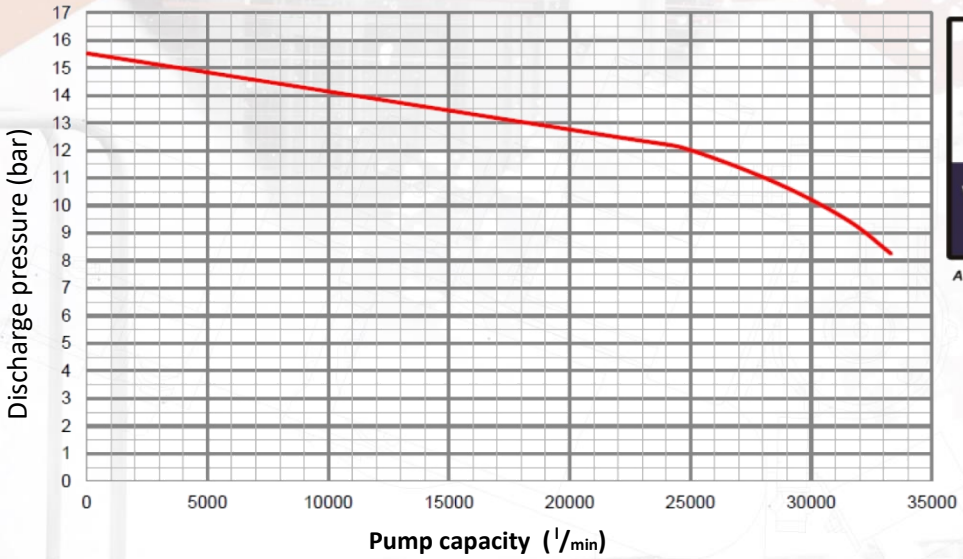
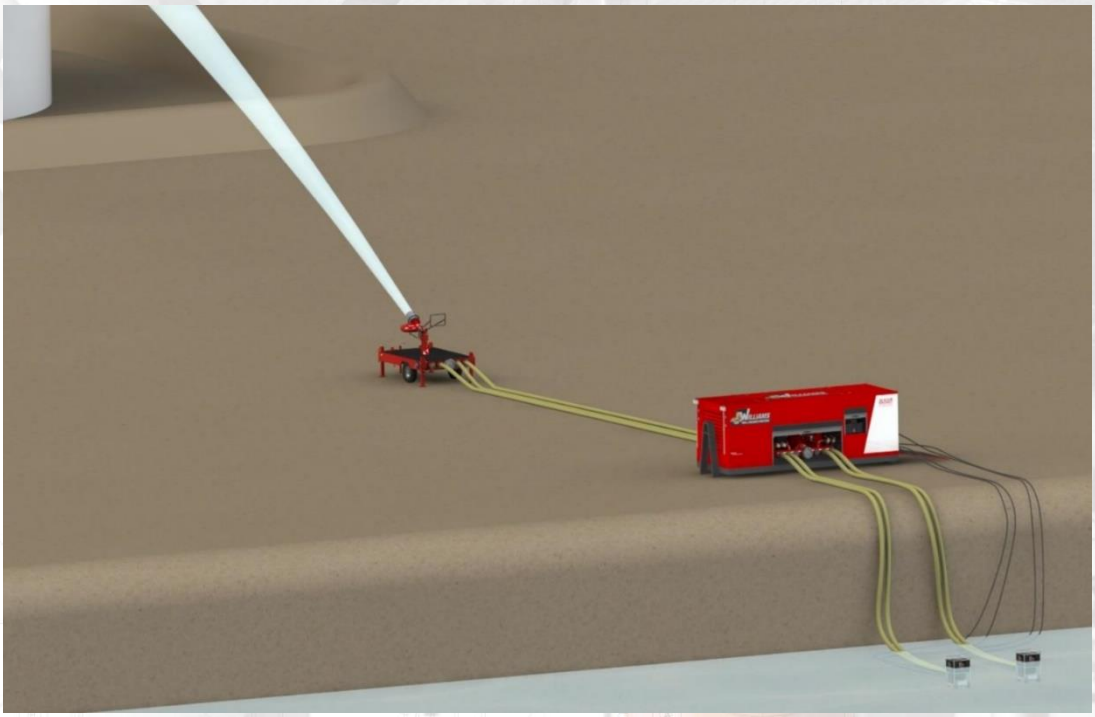
DEPENDAPOWER 30 000 l/min
Performance characteristics of the pump depending on the discharge pressure



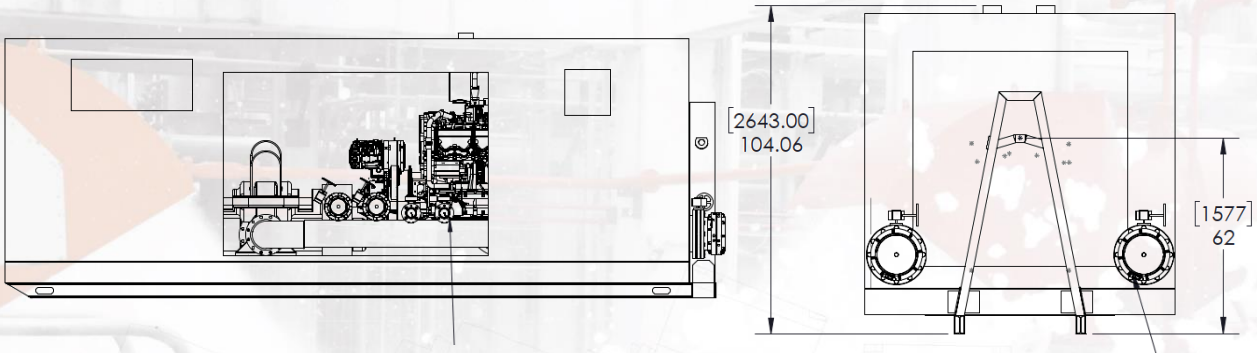
WILLIAMS FIRE & HAZARD CONTROL
A Tyco International Company

Characteristics
pump performance
as a function of discharge pressure

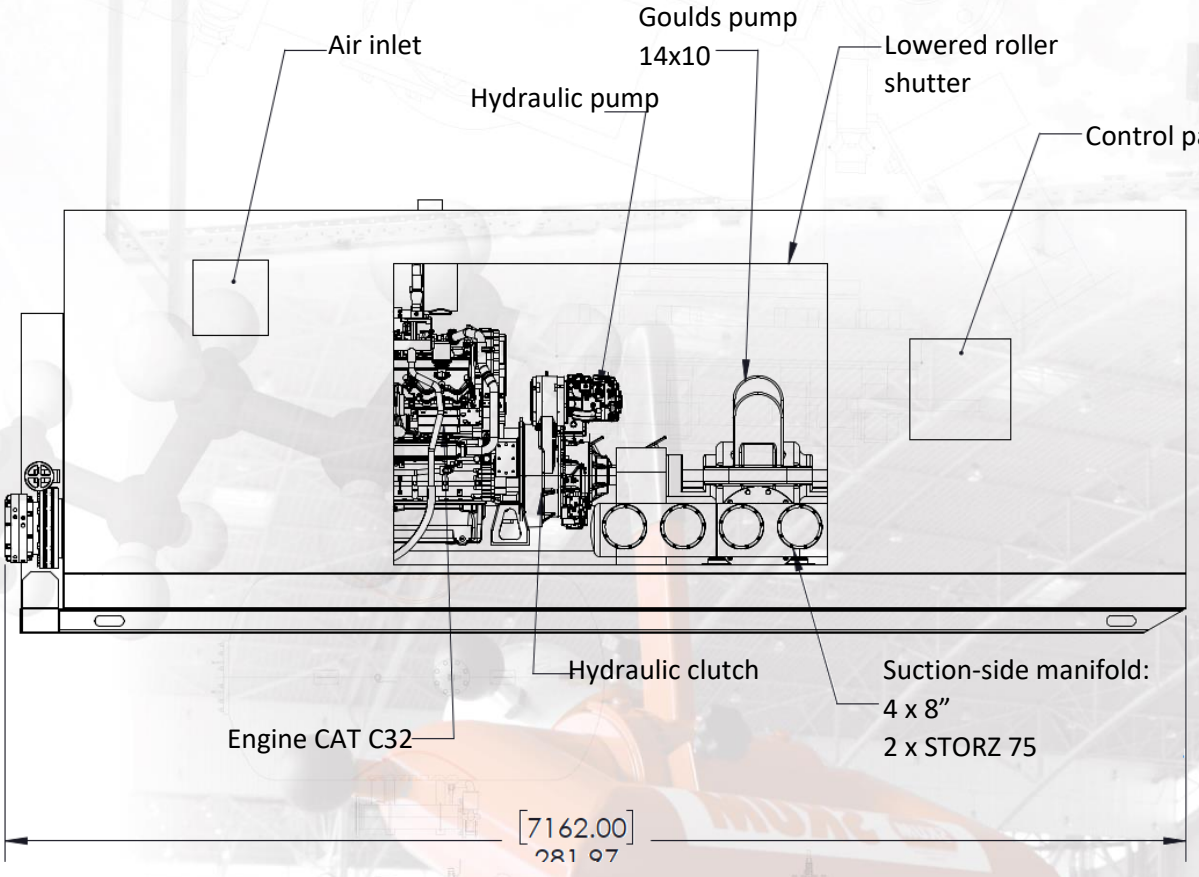
1. *The pressure is the approximate pressure generated by the charge pump.*
2. *Discharge pressure at the flange*
3. *Discharge pump pressure can always be adjusted by adjusting the motor speed*
4. *Performance may vary depending on the final design and choice of options.*



Drawings



Discharge manifold: 2 x 12” Mutilug,
2 x STORZ 150
2 x STORZ 75



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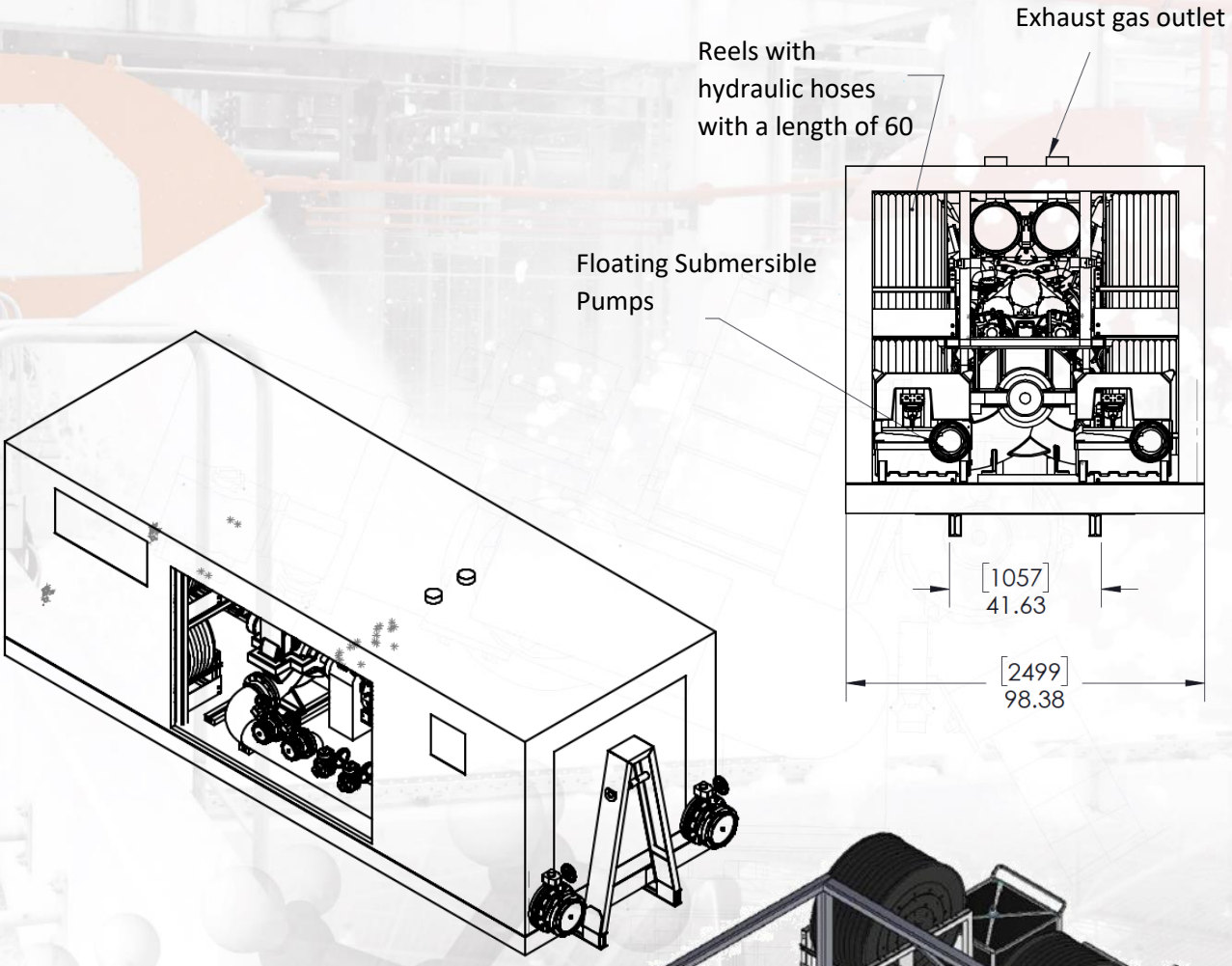

The picture shown and the drawings in the data sheet are for reference only.