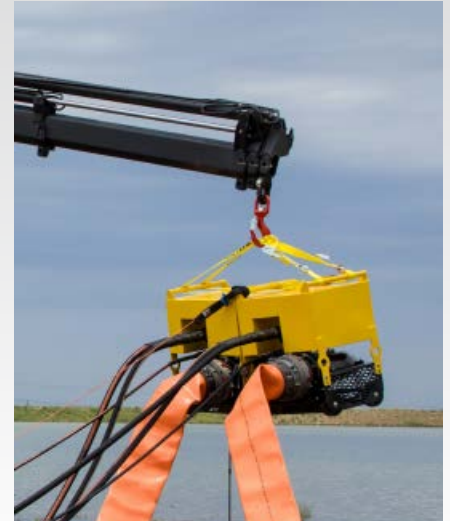


# The Industrial Fire and Hazard Control Deluge system



*Dependapower high volume booster pump*



*Surgemax high volume submersible pumps*

**I**ndustrial Fire and Hazard Control, a proud member of the Advanced Group of Companies, in collaboration with Williams Fire and Hazard Control, has engineered and built the ultimate in high-capacity firefighting water supply systems to cater for every eventuality. Mitigating the most extreme and dangerous fire incidents by applying overwhelming fire suppression power is our business.

## Firefighting operations

Extreme fire risks in the petrochemical, oil and gas incidents requires robust emergency planning and an effective response which, by its very nature, requires specialised equipment, equipment that must exceed the sheer magnitude of these fire incidents. The biggest challenge in the response capability has always been the continuous and sufficient supply of water to feed the multitude

of delivery apparatus. This challenge is now something of the past with the introduction of the Deluge system.

The Deluge system comprises the following components:

- Surgemax high volume submersible pumps
- Dependapower high volume booster pump
- Megalift ultra load hook loading system
- Titanhook pro-lift crane system



- Annaconda high volume automated hose retrieval system
- Megaflow 304mm high volume hoses
- Maxstream high volume flow manifold system

The Deluge high volume water supply system offers the following unique operational characteristics:

- Surgemax high volume submersible pumps: 30 000l/min from a water source up to 61m away from the Dependapower and with a vertical lift of 10,6m. Total capable lift is 40m.
- Dependapower high volume booster pump: 30 000l/min from submersible pumps or 53 000l/min from draft and submersible pumps.
- Megalift ultra load hook loading system: hydraulic hook loader system for lifting and lowering the Dependapower system incorporating the Surgemax hydraulic submersible pumps.
- Titanhook pro-lift crane system with a lifting capacity of 1 950kg at 6m and 590kg at 16m.
- Annaconda high volume automated hose retrieval system, capable of housing 5km of Megaflow 304mm high volume hoses. The Annaconda is fitted with two Hosemules



Megalift ultra load hook loading system



Titanhook pro-lift crane system

that automatically retrieve the hoses. The Annaconda is fitted with a tail lift allowing the hoses to be “driven” out.

- Maxstream high volume flow manifold system allows for the connecting of 304mm

Megaflow supply lines and 184mm and 152mm discharge lines.

**Flood situations**

The Deluge system is essential during flood situations and

*The Deluge system is a high-capacity firefighting water supply system catering for every eventuality*





Introducing the

# DELUGE System

from



**INDUSTRIAL**FIRE  
& HAZARD CONTROL





## The Industrial Fire & Hazard Control “DELUGE” System

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### Firefighting Operations:

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This challenge is now something of the past with the introduction of the “DELUGE” system.

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*Megaflow 304mm high volume hoses*

- ▶ is ideal for managing and controlling excess water thereby mitigating the impact of floods and protecting lives and property as well as the environment.

The Deluge system can rapidly reduce water levels with flows up to 53 000l/min (3 000 000 litres in 60 minutes) thus preventing structural damage to buildings and infrastructure ensuring public safety, facilitating emergency response and assisting in economic recovery.

### **Wildland fires**

The Deluge system plays a key role in supplying water for firefighting operations in wildland fires. The system ensures that firefighters have water resources at the fire front to ensure rapid fire suppression; the system supplies water for cooling hotspots and for mopping up operations; the system is ideal for structural protection that requires increased volumes of water; the system easily provides a water source for modular airborne firefighting operations (MAFFS); the system is the backbone for hose lay operations and further ensures the safety of firefighters.

### **Fire suppression system**

Water supply is a critical element for the effectiveness and reliability of fixed fire suppression systems. It is essential for these systems to fulfil their role in preventing and mitigating fire-related risks in a wide range of settings. In the event that an existing system is taken out of service for maintenance/repair/replacement, the Deluge system can operate as a “stand-in” system or can fulfil the role of the water supply system for a suppression system as a permanent supply in remote areas.

### **Water supply in drought conditions**

The Deluge system is an imperative requirement for supplying high volumes of water over very long distances during times of drought. The Deluge system will ensure a water supply system for firefighting operations; the system can be used as a distribution system for water supply to residential, agricultural or industrial areas, including airports and other key points; the system is an ideal transfer system and can ensure the replenishing of reservoirs and dams. ▲



*Maxstream high volume flow manifold system*