





1. Big Flow Pump Unit with submersible pumps
2. Big Flow Pump Unit as booster pump with foam injection system
3. Foam Storage Unit
4. Monitor Trailer Unit
5. Hook loader
6. Hose Retrieval Unit

### Kenbri Big Flow Systems

The Kenbri Big Flow Systems are designed for first responses during full surface tank fires or any other large scale infernos. The Kenbri Big Flow Systems are designed for easy handling and set up and are quickly deployable for operation.

These unique mobile extinguishing systems offer high volumes of water/foam mixture to effectively cope with full surface tank fires.

### Big Flow System Layout

The overall Kenbri Big Flow System is especially designed for fast response at fire emergencies where large quantities of water and/or foam are required. The system is fully equipped with all means necessary for adequate foam firefighting, designed according European and international standards. The units can be transported by several methods, such as truck (hook loader), train, helicopter and/or boat.

The overall system consists of one or more of the following components:

- Big Flow Pump Unit(s), also with submersible pumps or as booster pump;
- Foam Storage Unit(s);
- Hose Storage Unit(s), including large diameter hoses suitable for transporting large volumes of water and/or water/foam mixtures over large distances;
- Hose Retrieval Unit(s)
- Monitor Trailer Unit(s);
- Equipment Storage Unit(s) with auxiliary equipment such as hose bridges and ramps.

### Big Flow Pump Unit

- |               |  |
|---------------|--|
| Capacity:     | Up to 50,000 l/min @ 12 bar (11,000 GPM @ 174 psi) discharge pressure                                      |
| Suction lift: | Up to 4.5 meters (14.8 ft)<br>Over 4.5 meters (14.8 ft): feed through hydraulic driven submersible pump(s) |
| Drive:        | Diesel engine driven (power dependent on flow capacity)  |
| Foam system:  | Proportional Electric Controlled Demand Injection  |



**Big Flow Pump Unit**



The Big Flow Pump Unit is equipped with a high capacity water pump and powered by a heavy duty diesel engine (up to 2,000 HP).

The standard structure of a Pump Unit is an open type construction to ease accessibility for maintenance.

A Big Flow System can consist of multiple pump units, if necessary with submersible pumps or as booster pump, in series or parallel, depending on local circumstances and fire attack strategy.

Various pump systems with different capacities, foam proportioning systems, hose lengths and diameters are available on request.

### Foam Storage Unit

Units for storing and transporting large volumes of foam concentrate.

- Tank capacity: Up to 18,000 litres (3,960 gallon)
- Material: Glass-fibre Reinforced Polyester (or equal)
- Protection: Expansion dome (for medium expansion)  
Air breather (for tank filling)  
Baffles (for safe transport)

### Hose Storage Unit

Hose Storage Units are capable to store and transport up to 2,800 meter (9,190 ft) of flat hoses with a diameter of up to 300 mm (12")

Hoses are stored in zigzag parallel position in order to deploy the hoses with the greatest care in the quickest manner possible.

The configuration of hose lengths and diameters vary per system and are determined by the possible deployment scenarios and local circumstances on-site.

### Hose Retrieval Unit

Hose Retrieval Units are designed for quick and easy pick-up of up to two parallel hose lines (hose diameter varying from 150 mm (6") up to 300 mm (12")).

### Monitor Trailer Unit

- Trailer mounted water foam monitor
- Capacity: 3,800 up to 40,000 l/min (835 up to 8,800 GPM)
- Throw: depending on flow rate (150 meter @ 40,000 l/min / 492 ft @ 8,800 GPM)
- Inlets: 6 x 150 mm (6") (depending on monitor capacity and system configuration)
- Platform: Body with integrated ballast tank and stabilizer jacks



Monitor Trailer Unit



Foam Storage Unit



Hose Storage Unit



Hose Retrieval Unit

