Mobile Packs MP
High flow unit for high risk protection
Silvani has built up and established comprehensive and extensive engineering skills and Project management ability over many years of activity and has an extensive and successful track record in particular complex area of operations where Silvani excels in standards, quality, efficiency and commercial attractiveness.

- Oil & Gas Plants
- Petrochemical Plants
- Offshore
- Power Plants

Silvani is committed to provide fully comprehensive engineered solution to its customers, assisting them from the development phase till the after sales service.

**Staff and organization**

Silvani avails itself of qualified personnel with in-depth experience in their specialized fields, devoted to cover all managerial and technical disciplines:

- project management
- engineering
- procurement
- manufacturing
- testing
- construction supervision
- commissioning and start up supervision
- training and post sales service

Silvani HQ is based in Italy, where marketing and sales, administration, operations, engineering and procurement offices are based. Thanks to its representation offices worldwide, the HQ provides the regional units with all necessary assistance required to achieve Customers satisfaction through a successful project execution.

**Project Approach**

Project Management, Engineering Services, Procurement, System Integration and Testing are carried out at Silvani HQ, where the project is executed and controlled in compliance with customer specific requirements and with Silvani Quality Management System and Environmental Management System, thus assuring:

- uniform execution and quality
- updated information about execution, progress, delivery and completion,
- successful coordination between all stakeholders,
- review and endorsement of the basic engineering package,
- detailed engineering development having constructability as a design pillar for the proper exploitation of Safety, Quality, Productivity, Operability, Maintainability and Cost effectiveness.

A perfect matching leading to the design and delivery of efficient, operable, reliable and safe systems.

**Training**

Silvani provides Customized Training Programs for Customers personnel consisting of:

- Class-room Training
- Simulator Training
- Supplier Shop Training
- Host Plant Training
- On the Job Training at Site

**The tecnology to extinguish huge fires**

- Rapid and suitable for the suppression of any types of fire in chemical and petrochemical complexes, at sea (marine and naval facilities), in airports, in urban environments, etc.
- Highly reliable, versatile and easy to operate
- Needs little maintenance
- Cost effective
- Monitor meets NFPA 20 standard and regulations on FF1/2/3 naval vessels
- Mixing water/foam meets NFPA 11
- Several versions can be carried by the same type of truck
TYPICAL APPLICATIONS
for Cooling, Gas Dilution or Fire Suppression
- Storage tanks
- Diked areas
- Loading racks and terminals
- Pumping stations
- Process plants
- Oil fields
- Fire tugs and supply vessels
- Marine terminals and harbours
- Offshore platforms
- Airport tank farms and facilities
- Highrise buildings
- Civil Defence (supply of potable water, demolishing by water jet, etc.)
- Wherever long throw and high capacity are necessary.

MOBILE MULTIPURPOSE FIRE FIGHTING UNIT
Different modular versions are available:
- Water/foam (MP for various capacities)
- Pumping/booster
- Combined water/foam/dry chemical powder
- Mobile workshop/assistance

CONTAINER
Assembly
- Base frame in welded carbon steel sections, with a rigid structure to avoid distortion of the members during movement by lifting hook;
- Bodywork in carbon steel structure with aluminium plate finishing, stainless steel fastenings and fittings;
- Upper platform covered with anti-slip aluminium plate complete with access ladder for monitor manual operation;
- Side compartments and housing cabinets closed by aluminium lockable shutters, equipped with aluminium racks and fastening devices.

FOAM TANK
Capacity
- Various capacities for AFFF / AR foam concentrate from 1000 up to 6000 litres
Construction material
- Stainless steel Gr. 316 L.

FOAM PROPORTIONING SYSTEM
Type
- Automatic - variable flow - adjustable ratio
Design Pressure
- 16 bar
Flow Rate
- from 8,000 up to 60,000 litres/min.
Mixing Ratio
- Adjustable 1% to 3%
Max operating pressure 13 bar

WATER/FOAM MONITOR
Type
- Hydraulically remote controlled and manually operated by handwheels
Service
- Water or foam - full or fog jet nozzle
Design Pressure
- 16 barg
Design Flow Rate
- from 8000 up to or 60,000 litres/min.
Construction
- All stainless steel AISI 316 with gaskets in Viton
WATER PUMP DIESEL ENGINE
Rated Power 600 kW at 1800 rpm
Starting System 24 V lead-acid batteries
Exhaust System silencer with spark arrester
Control Panel weather proof IP55 cabinet with frontal glass door, accessible from the rear side of the container.

FOAM CONCENTRATE PUMP
Type rotary gear pump
Design Flow Rate 800 litres/min. max. at 1450 rpm
Discharge Pressure 16 barg max.

CONTROL PANEL
weather proof IP55 cabinet with frontal glass door, accessible from the rear side of the container.

ACTUAL TEST RESULTS
JAGUAR RANGE PERFORMANCE, 35° 41000 lom @ 12,6 MONITOR INLET IN STILL AIR CONDITION WITH WATER

VERSATILITY & RELIABILITY
• High foam application rate.
• High foam “momentum”.
• Long foam throw.
• Foam/water stream and spray/fog jet capability.

FINISHING
Baseframe and Bodywork all carbon steel structure will be galvanized and/or appropriately painted for 10 years guaranteed protection against internal corrosion. Generally painted fire red RAL 3000 as per Silvani Standard Spec.
Stainless Steel or Aluminium natural or polished finishing
Labeling/Instruction Plates in English or other languages as per client request
Client Logo on each side, if required

OVERALL DIMENSIONS / WEIGHTS
Length From 6,000 to 10,000 mm
Width mm 2,500

TOTAL WEIGHT
min 2,500 kg

RAPID & SUITABLE FOR ANY TYPES OF FIRE
Allows rapid intervention in any fire scenarios (industrial, chemical and petrochemical, marine, urban) where long throw and high capacity are indispensable.

HIGHLY RELIABLE & EASY TO OPERATE
Simple and fast deployment
Easy to recharge during operation. Nine minutes of initial foam discharge operation. With remote control monitor.
It has been studied with end-users, thoroughly tested and very successfully proven, with few operators, on real large scale fires (over 1,000 m² of fire extinguished in 20 seconds).

LITTLE MAINTENANCE
No particular maintenance is necessary.

COST EFFECTIVENESS
One unit can protect more areas. The same truck can be utilised to transport different versions of the MP unit.
A truck used to transport an MP unit can also be used for other services.

STANDARD AVAILABLE MODELS

<table>
<thead>
<tr>
<th>Model/Capacity</th>
<th>Pump Head (m)</th>
<th>Foam Tank Capacity (L)</th>
<th>Monitor Throw (m)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP 8000</td>
<td>120</td>
<td>5.000</td>
<td>100</td>
<td>10,000</td>
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<td>180</td>
<td>22,000</td>
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</tbody>
</table>

Specification can be adjusted to meet any particular Customer requirement.