MULTI-FLO AFFF SYSTEMS

FIA HOMOLGATION NUMBER: - EX003.98

Installation Instructions

Please read carefully before attempting to install your system.

www.spa-uk.co.uk  tel: +44 (0)1543 434580
Firefighter/ FireSense-Response
AFFF Multi-flo Systems covered by this manual

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFE400A</td>
<td>4.0 Ltr Alloy Electrical</td>
</tr>
<tr>
<td>MFE400A-SL</td>
<td>4.0 Ltr Alloy Electrical Slimline</td>
</tr>
<tr>
<td>MFE75A</td>
<td>3.375 Ltr Alloy Electrical</td>
</tr>
<tr>
<td>MFE75A-SL</td>
<td>3.375 Ltr Alloy Electrical Slimline</td>
</tr>
<tr>
<td>MFM400A</td>
<td>4.0 Ltr Alloy Mechanical</td>
</tr>
<tr>
<td>MFM400A-SL</td>
<td>4.0 Ltr Alloy Mechanical Slimline</td>
</tr>
<tr>
<td>MFM400S</td>
<td>4.0 Ltr Steel Mechanical</td>
</tr>
<tr>
<td>MFM75A</td>
<td>3.375 Ltr Alloy Mechanical</td>
</tr>
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<td>MFM75A-SL</td>
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</tr>
<tr>
<td>MFM75S</td>
<td>3.375 Ltr Steel Mechanical</td>
</tr>
</tbody>
</table>
Thank you for purchasing a Firefighter/ Firesense-Response AFFF Multi-flo System (which has been FIA homolgated).

It is important that you read the following instructions carefully before attempting to install your fire suppression system.

The performance of this system could be effected if it is in anyway modified or tampered with it may make void its homolgation. Please ensure that should any parts need to be replaced, only genuine SPA Firefighter/Firesense-Response components are used.

Should you require any assistance, please do not hesitate in contacting SPA Design on 01543 434580.

IMPORTANT NOTE
The purpose of this along with any other vehicle fire suppression system is to provide sufficient time in which to control the fire to enable the occupants to leave the vehicle. In ideal conditions, the fire will be extinguished completely but this can not be guaranteed. The main purpose is to curb the intensity of either an engine or cockpit fire to provide the means for the occupants to leave the vehicle or for outside assistance to be given.
NORTH AMERICAN AUTHORIZED SERVICE CENTERS
for
SPA FireSense® fire bottles

CALIFORNIA

Competition Touring Cars
(SPA Fire Sense Service Center)
29107 Arnold Dr, Unit E-3
Sonoma, California 95476
Phone: 707-933-8282
Email: brian@competitiontouringcars.com

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Burbank, California 91506
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Email: sales@werk2.com

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175 Passaic St.
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Fitting Instructions – Mechanical System

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Figure 5: Nozzle Layout for 3.375 Ltr Bottle Electrical/Mechanical Systems Page 19
ELECTRICAL FITTING INSTRUCTIONS

Unpack all parts and check components against 'kit list'.

➤ Remove bottle from mounting brackets if fitted by undoing the wing nuts. Decide the best position for the extinguisher – IT IS RECOMMENDED THAT THE BOTTLE SHOULD BE MOUNTED IN THE FORE AND AFT DIRECTION OF THE VEHICLE. The extinguisher label, detailing the contents and the pressure gauge should be clearly visible for inspection, Mount the retaining brackets securely to the vehicle and put the bottle back into place. (Refer to Figure 3.)

➤ Mount the power pack in a clearly visible position.

➤ Switch with red plastic shroud to be fitted in the cockpit so that it is in easy reach of both the driver and/or co-driver when sitting in the normal driving position and wearing fully fastened seatbelts.

➤ The other switch with flexible red membrane (waterproof) is to be fitted to the outside of the vehicle, close to the exterior master switch (for activation by the Marshals).

➤ Once the system has been wired as per wiring diagrams (refer to Figure 1 / 2), the following tests should be carried out to check the system is fitted correctly and will operate when required. (See Page 5)
The SPA FireFighter/ Firesense-Response system uses actuators to operate valves located within the pressurised container that contains the extinguishant. These are triggered remotely using a battery-powered power pack.

In order to guarantee reliable operation the connectors used are IP67 and the actuators used are of a military specification with the system / battery test electronics integrated into the power pack. The actuators are designed to either operate individually, or to be wired in series if two firing heads are used.

The power pack electronics can test the continuity of the wiring, and also provides a high current pulse test to ensure system integrity before use. Unlike other systems, the battery test will not destroy or put an excessive drain on the battery during this critical test. These tests are performed using a three way switch on the power pack box and should be performed before each usage of the system, since the system is only as good as the battery that powers it and the integrity of the wiring loom and its connectors.

To check the condition of the battery, press and hold up the switch on the power pack box. Every two seconds you will see a **YELLOW** light flash. If the light flashes very dimly the battery must be replaced.

**IF IN DOUBT REPLACE THE BATTERY !!!!**
To check the continuity of the wiring, ensure that the switch on the power pack box is in the **SYSTEM INACTIVE** to ensure that the extinguisher is not fired.

Press the internal firing button and check that the **RED** light comes on, press the external firing button, and check that this also makes the **RED** light come on.

The external button must be positioned close to the exterior master switch.

**DO** ensure that the wiring cables do not run next to looms especially if they contain ignition or battery cables

**DO** ensure that any exposed connections that are likely to get water sprayed are protected.

**DO NOT** allow cables to run through sharp edged apertures without protection

**DO NOT** fix cables to any surface that is likely to see excessive temperatures.
**MECHANICAL SYSTEM**

This SPA Firefighter/Firesense-Response system is a mechanically operated AFFF foam system. The system uses two T-handle pull cables, one 6ft long and one 12 ft long.

**FITTING INSTRUCTIONS**

Unpack all parts and check components against ‘kit list’.

- Remove bottle from mounting brackets if fitted by undoing the wing nuts. Decide the best position for the extinguisher – IT IS RECOMMENDED THAT THE BOTTLE SHOULD BE MOUNTED IN THE FORE AND AFT DIRECTION OF THE VEHICLE. The extinguisher label, detailing the contents and the pressure gauge should be clearly visible for inspection, Mount the retaining brackets securely to the vehicle and put the bottle back into place. *(refer to Figure 3).*
- Insert the end of the decabon tube into the push-in fitting on the lever-valve and lay the length of the tube from the cylinder to the chosen location; plug the nozzle onto the free end of tube and orientate this to point the nozzles onto anticipated fire sources.
- Mount the 6-ft cable in the cockpit within reach of the driver and / or co-driver when sitting in the normal driving position wearing seat-belts. The other end of the cable is to be threaded
through one of the adjusting screws on the handle of the lever-valve (on the cylinder). Then threaded through one of the holes in the other handle and the clamp screw made secure on cable against the underside in such a way that movement of the red pull handle will close the handles of the lever-valve, BUT allowing 6mm of free-play. CAUTION: do not allow this testing to actually move the handles or the valve may open and release the extinguishant (keep the safety pin in place).

- Mount the 12-ft cable on the outside of the vehicle (close to the exterior master switch is the recommended position). Lay the cable inside the vehicle and connect to the lever-valve as above.
- Pull cables should be fitted in such a way that no kinks or 'S' bends are formed, which could cause malfunction.
- Removing the safety pin from the lever-valve leaves the system ready for use.
- SAFETY WARNING Failure to remove safety pin will render the system inoperable when required.

**A.F.F.F. NOZZLES**

It is important that all of the nozzles provided in the fire system kit are used.

The nozzles will produce a fine atomised spray with the AFFF emerging as a milky white foam substance, which forms a film barrier starving the fire of oxygen. This foam spray has the capability of excellent fire out times and has a cooling effect, which can control re-ignition. When locating the nozzles it should be noted that there
is a 90° cone pattern with a \( \frac{1}{2} \) metre range. The nozzle is designed to mount through a bulkhead if desired or mounting brackets. Nozzles should not simply be supported by their own pipe work.

Nozzles should be checked for damage/possible blockage. They should also be tested to ensure that they are in good working order.

Depending on the class of racing / rallying, (which is the competitors responsibility) e.g. International rallying, which needs a 4 lt system, the engine bay must have 3 nozzles installed, with one each side of the motor and 3 nozzles installed in the cockpit.

For open cars, the system must include at least one nozzle which should be aimed at the drivers midriff with special care being taken not to spray into the drivers face.

For saloon /closed cars a minimum of 3 nozzles must be fitted (again depending on the system) within the cockpit area. Nozzles should be fitted either to the top of the roll bar main hoop (door B pillar) pointing inwards and downwards towards the foot of the diagonally opposite front roll bar hoop base (door A post) or either under the dashboard aiming at the drivers midriff.

These are only guide lines for competitors using SPA DESIGN fire suppression systems.

**IF IN DOUBT, ASK!!!**
Please refer to Figure 4/5 (for example) of nozzle location.

EXAMPLE OF ENGINE NOZZLE LOCATION
TUBING

Each Firefighter/Firesense-Response System kit is supplied with Decabon tubing which is plastic coated aluminium tube which can be moulded and flexed to suit this application. The Firefighter/Firesense-Response system has been designed and homologated using this type of tube of 6mm dia. DO NOT substitute this tube for any other type.

TUBE CONNECTIONS

All fittings for tube to nozzles and bottle are of the push-in type. Insert the tube into the fitting, push firmly until it clicks. Once in you should not be able to pull it out.

To remove the tubing, push the tube into the fitting and at the same time push the black collett back towards the fitting and then pull the tube from the fitting.
4 LTR MULTI-FLO SINGLE CHAMBER - ELECTRICAL

Electrical system comes fitted with Firing Head

2 x SPAT126 – 6” Cylinder Retaining Bracket
1 x SP007H – Power Pack (Hirschmann as standard)
2 x SP005H – Plug & Lead
1 x SP011 – Internal Fire Button
1 x SP012 – External Fire Button
5 x SP016 - Decabon Tubing (Mtr)
6 x SP030 – 6mm Nozzle
5 x SP015 – 6mm Tee
1 x SP020 – Bulkhead Fitting
1 x SP017 – ‘E’ location sticker
1 x SP129 – Small ‘E’ Location Sticker

4 LTR MULTI-FLO SINGLE CHAMBER - MECHANICAL

Mechanical System comes fitted with Lever Valve

2 x SPAT126 – 6” Cylinder Retaining Bracket
1 x SP018 - 6ft Pull Cable
1 x SP019 – 12ft Pull Cable
6 x SP030 – 6mm Nozzle
5 x SP015 – 6mm Tee Piece
1 x SP020 – Bulkhead Fitting
5 x SP016 – 6mm Decabon Tubing (Mtr)
1 x SP017 – ‘E’ Location Sticker
1 x SP129 – Small ‘E’ Location Sticker
SAFETY DATA SHEET FOR AFFF (Aqueous Film Forming Foam)

APPLICATION
Autosport industry – including saloon, single seaters and other racing cars.

CONTENTS
Hydral AR 3x3 Low Viscosity AFFF, Water

COMPOSITION
Water, Ethanol, Ethylene glycol, Urea, Sodium Monodecylsulfate, Diethylene Glycol Monobutyl Ether, Caprylcapryl Glucoside

APPEARANCE
Clear Liquid with a hint of White

pH
Approx. 6.5 – 8.5

BOILING POINT
100°C (initial)

VAPOUR PRESSURE
Approx. 17.6 mm Hg Calc @ 20°C

WATER SOLUBILITY
Miscible

FREEZING POINT
0°C

PHYSICOLOGICAL PROPERTIES
Non-harmful.
MAINTENANCE

To ensure maximum possible performance from your SPA Fire Fighter / Firesense Response system, the following checks and maintenance procedures should be carried out.

- Regularly check the pressure gauge to ensure they are in the green section.
- Regularly check nozzles for debris or any obstructions externally and internally.
- Regularly check the integrity of the pipe work and fitting.
- Regularly check the cylinder for physical damage or corrosion.
- Regularly check the mounting brackets, retaining straps and bolts are secure.
- Regularly check your power pack control box and condition of the internal. alkaline battery, the battery should be changed preferably every 6 months or if system has been fired off.
- Regularly check your wiring and electrical connectors for any damage.
- If the system has been activated the nozzles and pipe work should be washed through with fresh water and then cleared with an air line if possible to avoid residue of the extinguishant crystallizing in the pipe work or nozzles.
- Your SPA fire suppression system must be serviced every 2 years, a service due date is written on the contents label located on your cylinder. It is up to you to ensure the services are carried out at the correct intervals.
- If your system has been discharged or requires a 2-year service you must return it to SPA or an approved agent of SPA fire suppression systems.

NOTES

Please ensure that you monitor the following, as you may not pass scrutiny if:

- The needle on the gauge is in the red section
- The bottle contents label is worn, damaged or unreadable.
- The unit is not within the service date.
- The system is in a poor condition
To test the battery, push and hold lever switch upwards in the "Battery Check" position until green light flashes.

If the extinguisher tubing is to be removed, push the black collet in and pull the tubing out at the same time.

RECOMMENDED: Use the continuity test and battery test before each race.

DO NOT: Run the cables next to power cables, or in the same loom.
Pull cable installation for lever valve.

Note: Hole position shown is correct for safety pin installation (denoted by arrow). Do not try to line up the holes for the pin, as this might cause discharge.
EXTINGUISHER MOUNTING BRACKET

SPAT126 – 6” Cylinder Retaining Bracket
NOZZLE LAYOUT FOR
4 LTR SINGLE CHAMBER

ENGINE NOZZLES (X3)

COCKPIT NOZZLES (X3)

6mm HOSE

1. SP016 6mm DECABON HOSE
2. SP030 6mm 'LITE' NOZZLE
3. SP015 6mm TEE
4. SP007H POWER PACK

4 Ltr. SINGLE CHAMBER
MULTI FLO SYSTEM
ELECTRICAL OR MECHANICAL

POWER PACK
NOZZLE LAYOUT FOR
3.375 LTR SINGLE CHAMBER

One nozzle to be placed on each side of the engine

ENGINE NOZZLES (X2)

COCKPIT NOZZLE (X1)

3.375 Ltr.
SINGLE CHAMBER
Mechanical or Electrical
<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Additional Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP 005 H</td>
<td>Hirschmann plug and lead</td>
<td>For connecting bottle or power pack to switch</td>
</tr>
<tr>
<td>SP 007 H</td>
<td>Hirschmann plug Power Pack</td>
<td>For activating elec systems and checking system</td>
</tr>
<tr>
<td>SP 011</td>
<td>Internal activation button</td>
<td></td>
</tr>
<tr>
<td>SP 012</td>
<td>External activation button</td>
<td>Waterproof switch</td>
</tr>
<tr>
<td>SP 015</td>
<td>T for 6mm tube</td>
<td></td>
</tr>
<tr>
<td>SP 016</td>
<td>6mm tube</td>
<td>Also known as Decabon Hose</td>
</tr>
<tr>
<td>SP 017</td>
<td>Large E sticker</td>
<td>4 inch diameter</td>
</tr>
<tr>
<td>SP 018</td>
<td>6 foot pull cable</td>
<td>Comes with cable adjuster and cable stop</td>
</tr>
<tr>
<td>SP 019</td>
<td>12 foot pull cable</td>
<td>Comes with cable adjuster and cable stop</td>
</tr>
<tr>
<td>SP 020</td>
<td>Bulkhead fitting for 6mm tube</td>
<td>For going through fire wall or panel</td>
</tr>
<tr>
<td>SP 021</td>
<td>1/8bsp to 6mm tube</td>
<td>Used on firing heads and nozzles</td>
</tr>
<tr>
<td>SP 021 90</td>
<td>1/8bsp 90 deg to 6mm tube</td>
<td>Can be used on firing heads and nozzles</td>
</tr>
</tbody>
</table>
SPA FireSense® Spare Parts & Optional Fittings

SP 022  1/4bsp to 6mm tube
- Used on lever valves

SP 030  Nozzle
- For use with SPA ‘Lite’ AFFF systems

SP 038  Straight connector for 6mm tube
- Possible use for frequent tube removal area

SP 052  6mm tube (Decabon) mounting clip
- These clips can be used to clip the tubing into

SP 055  90 degree elbow for 6mm tube
- To make tight 90 degree change into tubing

SP 075  Nozzle Nut
- For attaching nozzle, M12 x 1mm thread

SP 129  Small E sticker
- 1+ inch diameter

SP 131  Y for 6mm tube
- Can be used instead of T

SPAT 112  Bottle mount for Slim Line
- For mounting bottle with 5 + inch diameter

SPAT 126  Bottle mount
- For mounting bottle with 6 inch diameter

SP 136  Tube Cutter
- Used to cut Decabon tubing
SERVICE AND REFILL AGENTS FOR
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SYSTEMS.

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FAX: 01249782161

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