



# MULTI-FLO AFFF SYSTEMS

FIA HOMOLOGATION NUMBER: - EX

## *Installation Instructions*

**Please read carefully before  
attempting to install  
your system.**



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## **Firesense-Response FireAde AFFF Multi-flo Systems covered by this manual**

- ☐ MFE400A-4-A-FA 4 Ltr Electrical/Auto Alloy
- ☐ MFM400A-4-A-FA 4 Ltr Mechanical/Auto Alloy
- ☐ MFM400A-4-FA 4 Ltr Mechanical Alloy
- ☐ MFE400S-4-A-FA 4 Ltr Electrical/Auto Steel
- ☐ MFM400S-4-A-FA 4 Ltr Mechanical/Auto Steel
- ☐ MFM400S-4-FA 4 Ltr Mechanical Steel
- ☐ MFE75A-4-A-FA 3.375 Ltr Electrical/Auto Alloy
- ☐ MFM75A-4-A-FA 3.375 Ltr Mechanical/Auto Alloy
- ☐ MFM75A-4-FA 3.375 Ltr Mechanical Alloy
- ☐ MFE75S-4-A-FA 3.375 Ltr Electrical/Auto Steel
- ☐ MFM75S-4-A-FA 3.375 Ltr Mechanical/Auto Steel
- ☐ MFM75S-4-FA 3.375 Ltr Mechanical Steel
- ☐ MFE75A-4-A-SL-FA 3.375 Ltr Electrical/Auto Alloy Slimline
- ☐ MFM75A-4-A-SL-FA 3.375 Ltr Mechanical/Auto Alloy Slimline
- ☐ MFM75A-4-SL-FA 3.375 Ltr Mechanical Alloy Slimline



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Thank you for purchasing a FireSense-Response AFFF Multi-flo System (which has been FIA homologated).

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

The performance of this system will be affected if it is in anyway modified or tampered with it will void its homologation. Please ensure that should any parts need to be replaced, only genuine SPA 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.

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## Automatic Head

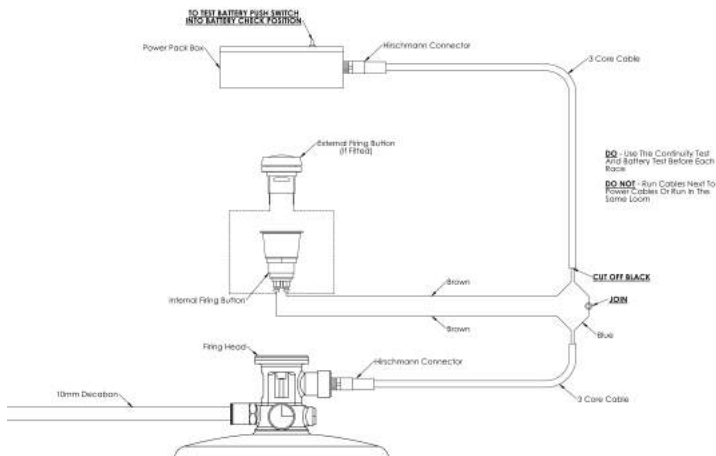
The new activation valve fitted to certain models all ending with the letter A within this new range of systems has a special safety feature that does not interfere with the standard operating procedure of the fire suppression system.

The automatic activation feature is a stand alone activation that will operate independent of user input at a temperature specified by the manufacturer.

### IMPORTANT NOTE

The fire suppression system requires input by the user by either mechanical (cable pull) or electrical (switch) to operate, the automatic activation is a safety backup only, it is not the primary means of activation, the primary means of activation is the driver using the cable pull or electrical switch depending on model purchased.

**SPA FIRESENSE-RESPONSE ELECTRICAL**  
**SYSTEM WIRING SCHEMATIC**  
**APPLIES TO ALL ELECTRIC MODELS**



- To test the battery, push and hold control box switch upwards in the “Battery Check” position until yellow 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.

# ***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 seat-belts.
- 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)*

## **SPA DESIGN FIRESENSE-RESPONSE**

### **ELECTRICAL DETAILS**

The SPA FireSense-Response system uses actuators to operate valves located within the pressurized 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 1P67 and the actuators used are of a military specification with the system / battery test electronics integrated into the power pack.

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 in battery check position. **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** position 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.

When you are ready to race after all these checks push switch into system armed position, **the control box will not illuminate in the system armed position** if either internal or external switches are pressed the system will activate.

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

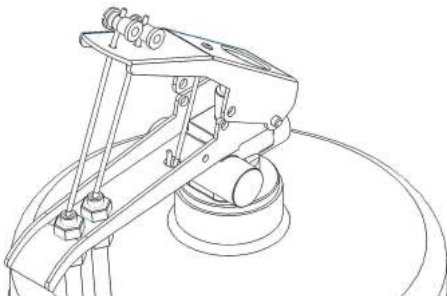
**DO** ensure that any exposed connections that are likely to get water sprayed are protected.

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

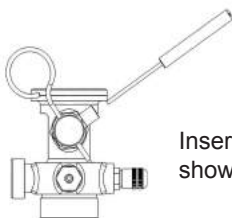
**DO NOT** fix cables to any surface that is likely to see excessive temperatures.

# MECHANICAL CABLE SETUP

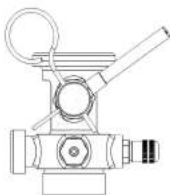
## LEVER VALVE



## MECHANICAL AUTO HEAD



Insert cable pull into hole location as shown.



Make sure Cable is secure.



Once cable is secure, remove safety pin before race, when race is finished replace safety pin.

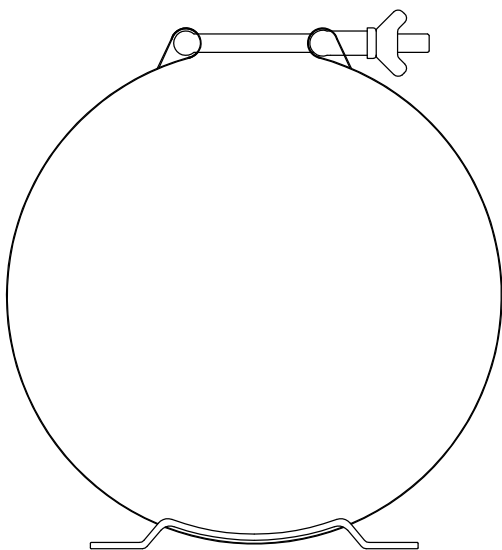
# **MECHANICAL SYSTEM**

The system uses two T-handle pull cables, one 6ft long and one 12 ft long.

- 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).

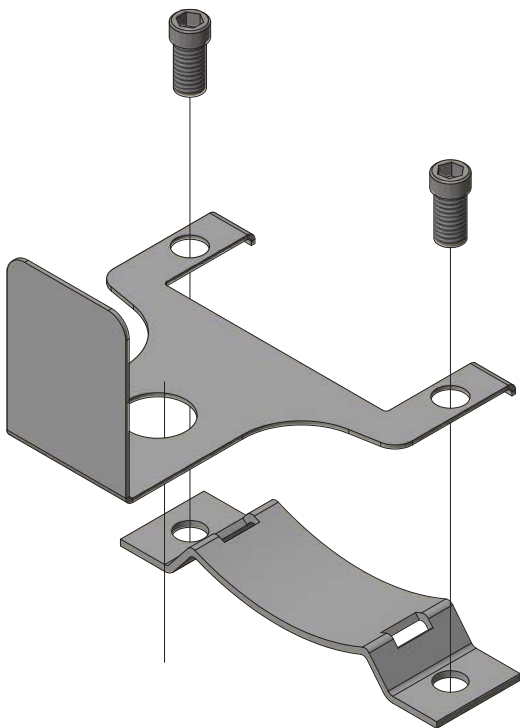
- Mount the 12-ft cable on the outside of the vehicle (close to the exterior master switch is the recommended position). Lay the cable inside the vehicle and connect to the lever-valve as above.
- Pull cables should be fitted in such a way that no kinks or 'S' bends are formed, which could cause malfunction.
- 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.**

**EXTINGUISHER**  
**MOUNT BRACKET**



SP144 – 6" Cylinder Retaining Bracket  
SP148 - 5" Cylinder Retaining Bracket

**ANTI TORPEDO MOUNT MANDATORY**  
**ON ALL FIA SYSTEMS**



## **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 atomized 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 with a 1/2 meter spray.

Nozzles should not simply be supported by their own pipe work. Where necessary support the nozzle in a bracket.

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 4lt system, the engine bay must have 2 nozzles installed, with one each side of the motor and 2 nozzles installed in the cockpit.

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

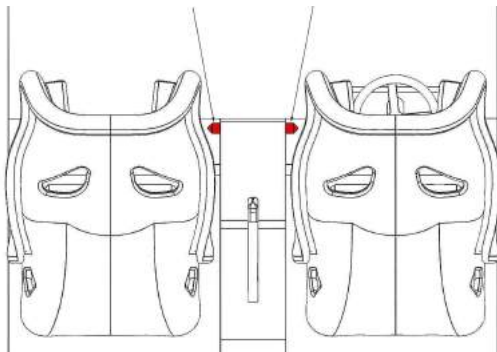
For saloon /closed cars 2 nozzles must be fitted within the cockpit area. Nozzles should be fitted either to the top of the roll bar main hoop (door B pillar) pointing inwards and downwards towards the foot of the diagonally opposite front roll bar hoop base (door A post) or either under the dashboard aiming at the drivers midriff.

These are guide lines for competitors using SPA Design fire suppression systems

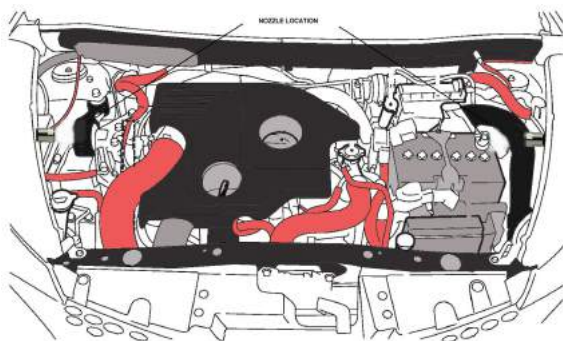
**IF IN DOUBT, ASK!!!**

Example of Cockpit nozzle location.

Nozzle location refer to Page  
13



## EXAMPLE OF ENGINE NOZZLE LOCATION





# ***TUBING***

Each FireSense-Response System kit is supplied with Decabon tubing which is a coated aluminium tube which can be molded and flexed to suit this application. The FireSense-Response system has been designed and homologated using 10mm & 8mm dia tube. 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/pull the black collet back towards the fitting and then pull the tube from the fitting.

# **KIT LISTS**

## **4 LTR & 3.375 Ltr Multi-Flo Electrical**

Electrical system comes fitted with firing head.

- 2 x SP144 – 6" Cylinder Retaining Bracket
- 2 x SP319 – 6" Anti Torpedo Mounting Tab
- 1 x SP007H – Power Pack (Hirschman as standard)
- 2 x SP005H – Plug & Lead
- 1 x SP011 – Internal Fire Button
- 1 x SP012 – External Fire Button
- 4.5 x SP016 - 8mm Decabon Tubing (Mtr)
- 0.5 x SP072 - 10mm Decabon Tubing (Mtr)
- 4 x SP031 – 8mm Nozzle
- 2 x SP028 – 8mm Tee
- 1 x SP029 – 8mm Bulkhead Fitting
- 1 x SP183 - 10mm-8mm Y Piece connector
- 1 x SP017 – 'E' location sticker
- 1 x SP129 – Small 'E' Location Sticker

## **4 Ltr & 3.375 Ltr Multi-Flo Mechanical**

Mechanical System comes fitted with Lever Valve or Mechanical Head

- 2 x SP144 – 6" Cylinder Retaining Bracket
- 2 x SP319 – 6" Anti Torpedo Mounting Tab
- 1 x SP018 - 6ft Pull Cable
- 1 x SP019 – 12ft Pull Cable
- 4 x SP031 – 8mm Nozzle
- 2 x SP028 – 8mm Tee Piece
- 1 x SP029 – 8mm Bulkhead Fitting
- 1 x SP183 - 10mm-8mm Y Piece connector
- 4.5 x SP032 – 8mm Decabon Tubing (Mtr)
- 0.5 x SP072 - 10mm Decabon Tubing (Mtr)
- 1 x SP017 – 'E' Location Sticker
- 1 x SP129 – Small 'E' Location Sticker

# **MAINTENANCE**

To ensure maximum possible performance from your SPA Fire 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.

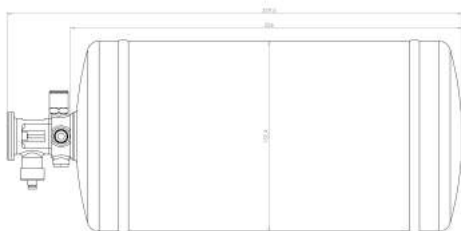
## **NOTES**

Please ensure that you monitor the following, as you may not pass scrutineering 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

# BOTTLE DIMENSIONS

Ø [mm] • Å [mm] , g \* Å [mm] •

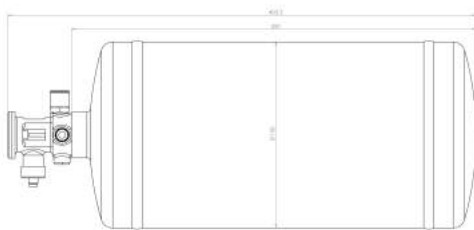


T Ø01 €000 00FA

T ØT1 €000 00FA

T Ø075A-4-A-FA

MFM75A-4-A-FA



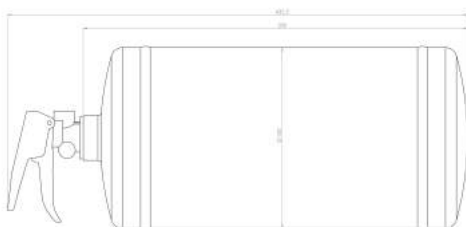
MFE400S-4-A-FA

MFM400S-4-A-FA

MFE75S-4-A-FA

MFM75S-4-A-FA

# BOTTLE DIMENSIONS



MFM400S-4-FA  
MFM75S-4-FA



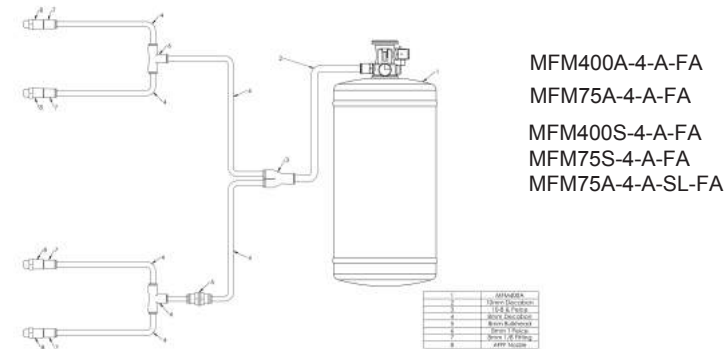
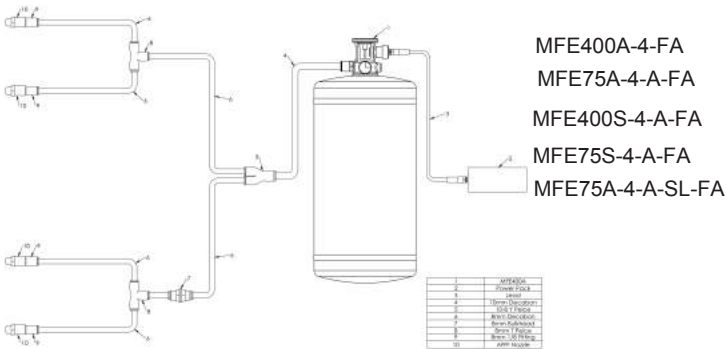
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MFM75A-4-FA

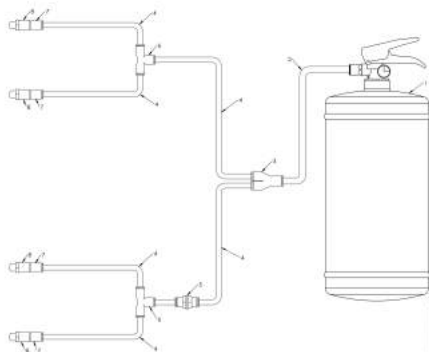
## BOTTLE DIMENSIONS



MFE75-A-4-A-SL-FA  
MFM75A-4-A-SL-FA

# Pipework and Nozzle Layout Electrical and Mechanical Systems





MFM400S-4-FA  
MFM400A-4-FA  
MFM75S-4-FA  
MFM75A-4-FA  
MFM75A-4-SL-FA

1	1/2" Tee
2	1/2" Coupling
3	1/2" Tee
4	1/2" Coupling
5	1/2" Tee
6	1/2" Coupling
7	1/2" Tee
8	1/2" Tee



# ***SAFETY DATA SHEET FOR AFFF*** **(Aqueous Film Forming Foam)**

<b>APPLICATION</b>	Autosport industry – including saloon, single seaters and other racing cars.
<b>CONTENTS</b>	Hydral AR 3x3 Low Viscosity AFFF, Water
<b>COMPOSITION</b>	Water, Ethaned ol, Ethylene glycol, Urea, Sod um Monodecylsulfate, Diethylene Glycol Monobutyl Ether, Caprylcapr lyl Glucos de
<b>APPEARANCE</b>	Clear Liquid with a hint of blue
<b>pH</b>	Approx. 6.5 – 8.5
<b>BOILING POINT</b>	100°C (initial)
<b>VAPOUR PRESSURE</b>	Approx. 17.6 mm Hg Calc @ 20°C
<b>WATER SOLUBILITY</b>	Miscible
<b>FREEZING POINT</b>	-10°C
<b>PHYSICOLOGICAL PROPERTIES</b>	Non-harmful.

# **SERVICE AND REFILL AGENTS FOR** **SPA FIREFIGHTER/FIRESENSE-RESPONSE** **SYSTEMS.**

## **ATS MOTORSPORT**

30 SCHOONGEZICHT RD  
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665 91 KIL  
SWEDEN

PH : 00465 421040

FAX : 00465 421165

E : [kh.msport@swipnet.se](mailto:kh.msport@swipnet.se)

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## **DES MOORE RALLYING**

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## **RECHSTEINER RACING S A**

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Fax: 0041 21 866 1667

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# **SERVICE AND REFILL AGENTS FOR SPA FIREFIGHTER/FIRESENSE-RESPONSE SYSTEMS.**

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FAX: 01249782161

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