

InEX

OWNER'S MANUAL
FOR THE
**FOAM MARKER
FM24**



In-Ex
PO Box 1010
145 Harts Road, Tiritea
Palmerston North
Ph: 06 354 6060
Fax: 06 355 3199

SAFETY PRECAUTIONS

Warnings are mandatory instructions to prevent serious injury or permanent damage.

Cautions are advisory instructions to ensure reliable operation of the equipment.

Notes are for convenient operation.

WARNING

Making pesticides is a most dangerous time as it involves handling the concentrated material. For toxic compounds, use protective clothing such as overalls, hat, gloves, boots and respirator.

When using concentrated sprays, full protection is necessary.

When using diluted sprays, wear at least a hat, long-sleeved cotton overalls and boots. If you use pesticides regularly it is a good idea to always wear a respirator to avoid cumulative effect ... other protection may be required – check the label. It may have specific directions for that particular chemical.

Protective clothing should always be properly cared for. Rinse heavily contaminated clothes in the open before washing in the laundry.

Wash and dry these clothes every day – but keep them separate from other washing.

Respirators need special care ... clean respirator after spraying. Use soapy water then rinse and allow to dry completely before storing in a clean plastic bag. Replace canisters in respirator after every 8 hours use.

FOAM MARKER

OWNERS MANUAL

2400-6095-1 Dated 01 Dec 2010

TABLE OF CONTENTS

2	Safety
3	Contents Description Specifications
4	Warranty
5	Installation
6	Do's and Don'ts
7	Parts Diagrams

DESCRIPTION

The 24 litre model foam marker is available as a single tank and one dropper, mounted in a zinc plated steel frame.

The foam marker is compatible with the 600L and 800 litre In-Ex model sprayers only, and comes complete with zinc plated steel mounting bracket. The tank is moulded from tough, high quality translucent UV stabilised polyethylene.

It is supplied with a 12V compressor with adjustable rate air control, electric remote switch box, battery lead, and 5 metres of tough non-kinking foam hose.

SPECIFICATIONS

(Specifications subject to change without notice)

Frame	Zinc plated steel
Tank	UV stabilised polyethylene
Tank Size	24L
Lid	Non-vented screw-on
Compressor	12VDC, 5A current draw, 19psi max continuous pressure
Air control	Adjustable bleed valve

WARRANTY

In-Ex warrants to the original purchaser that the equipment is sold free from defects in materials and workmanship for a period of 12 months from date of retail sale.

Accordingly, In-Ex undertakes to repair the equipment, or at our option replace, without cost to the original purchaser either for materials, parts or labour, any part which within the specified warranty period from time of delivery is found to be defective. PROVIDED that the equipment has been used for normal purposes in accordance with the instructions, and has not been subject to neglect, misuse or accident, and has not been repaired, serviced or dismantled by any person other than a service agent or person authorised by In-Ex.

The warranty does not extend to cover: consequential damage; repair or replacement of parts due to fair wear and tear; or damage resulting from neglect, misuse, accident or hireage. SPECIFICALLY the warranty excludes battery damage, damage arising from chemical attack, and units built to customers specifications.

All goods returned to In-Ex are freight paid by the **sender** and if subject to a warranty claim, **must** be accompanied by a completed warranty claim form. Warranty claim forms are available from In-Ex dealers.

LIABILITY

The maximum liability, which is accepted by In-Ex, is limited to replacement of faulty goods only. Every care has been taken in the manufacture of our goods but because use of the goods is outside the control of the manufacturer, the end user assumes all responsibility for the use. Neither the manufacturer nor retailer shall be liable for loss or damage resulting from use.

Any advice or recommendations given by In-Ex, its agents, or employees is given in good faith and based on the best information available to us. No liability or responsibility is accepted or implied as a result of any information or advice tendered by In-Ex, its agents or employees. The end user accepts all responsibility arising from that advice.

INSTALLATION

The In-Ex Foam Marker differs from all other types of Foam Marker in that the compressor is a unitised 12 volt motor and diaphragm compressor - maximum continuous pressure 275 Kpa, 19 psi (1.3 bar) with 5 amp draw. It is therefore necessary to connect the motor directly to the battery of the vehicle. The cable, switch and fuse are supplied for this purpose.

NOTE

Negative to earth vehicles, put the fuse in the positive lead. Positive to earth vehicles, put the fuse in the negative lead.

Bolt the foam tank in position where it is easy to fill

Bolt the dropper in a position so that the foam comes in the least contact with the spray.

NOTE

It may be necessary to use a flip over extension kit to achieve this.

Black clips are provided to attach the foam hose to the tank outlet and dropper. Take care to avoid tight bends, or cutting the foam hose too short.

Connect the electric supply lead.

RATE OF FOAM PRODUCTION

The rate of foam production (blobs per minute) is determined by the air input into the tank. The lower the rate, the more time between refills.

For example, on flat pasture it is unnecessary to have blobs close together. Therefore increase the area covered per tank by reducing the air input, conversely in rough conditions or when spraying mature crops, blobs can be put closer together.

To regulate the air input an adjustment is made on the air relief valve at the outlet of the compressor. See photo above.

To reduce the rate of foam production, turn the air regulator valve anti-clockwise. To increase the rate of foam production, turn the valve clockwise.

WATER QUALITY

Water quality will affect foam production.

Hard water will require a higher rate of foaming agent than recommended, while soft water may require less. If in doubt the user should experiment with rates under his/her specific conditions.

Anti-freeze used in some cold weather spraying could slightly reduce a foam's persistence and quality. Slightly higher mix rates should help to compensate for this problem.

Read the foaming agent instructions carefully. Some have water softeners or similar additives, which may be affected by residues of other foaming agents. Hence it is always advisable to flush the foam tank before stitching to another foam. This can be done quickly by using a hose and allowing the water to flow out the top of the tank. (Do not wet the compressor!)

CAUTIONS

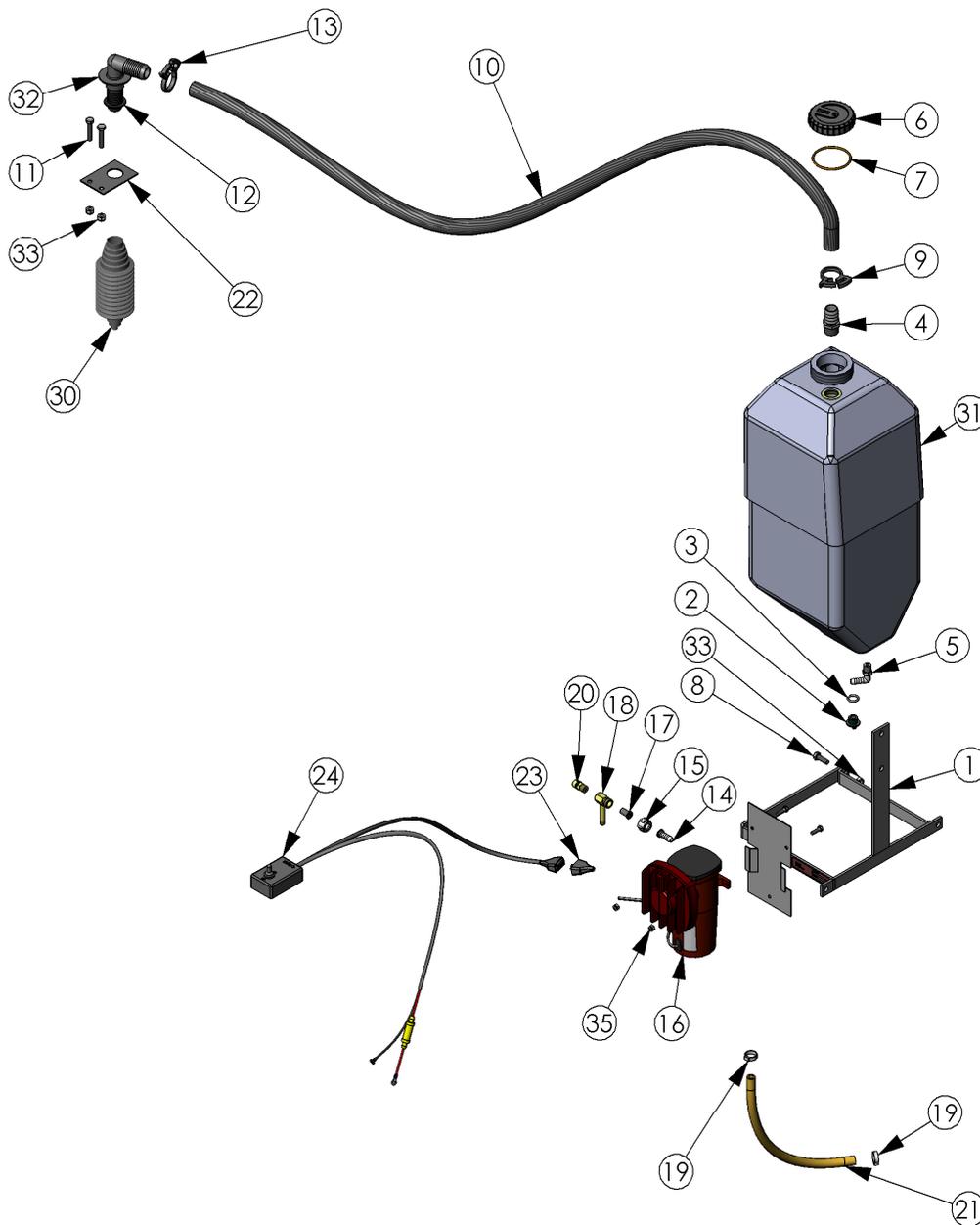
The foam blobs will dissipate within an hour, or within a day, depending on environmental conditions.

High temperature, low humidity, high winds, and rainfall or overhead irrigation will shorten the foam's life.

High temperature, low humidity, and high winds will not only affect the life of the foam, but also the life and effectiveness of the spray droplets. **As a guide**, it would be wise to **stop spraying** if the foam is not lasting more than 10 to 15 minutes on the ground. In such cases most of the droplets will be evaporating before passing chemical to the target. Also there is a great risk of some chemicals drifting and damaging nearby susceptible crops.

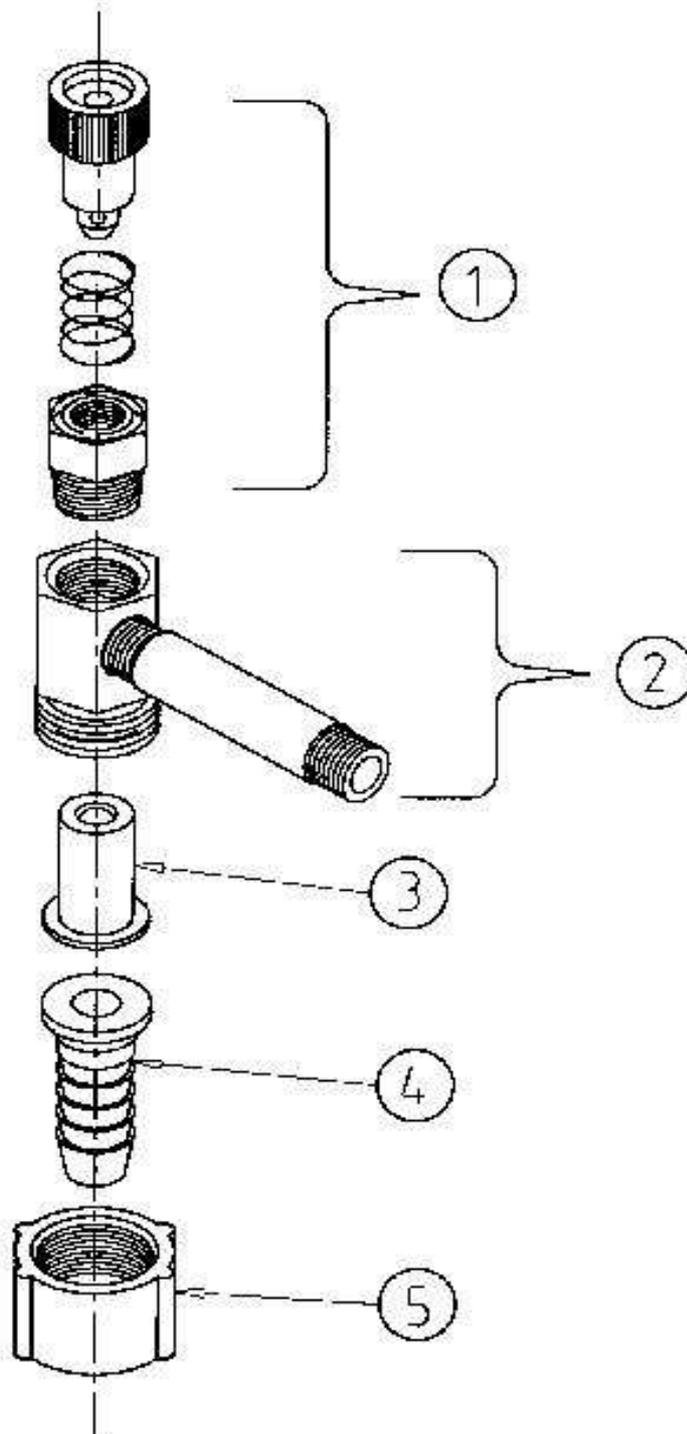
DO'S AND DON'TS

- DON'T make the mix stronger than recommended,
- DON'T overfill the foam tank, leave about 20% from the top for best results.
- DO expect to mark about 10 hectares from one tank of mix, when using a 12 metre boom.
- DO turn on the marker about two minutes before starting to spray.
- DO consider other uses for your C-Dax Foam Marker. Rope booms, Spray booms, Fertiliser Spreaders, Boomless Jets. In fact use where other types of marking damage the crop or pasture



ITEM NO.	QTY.	e9 part no	e9 description
1	1	3500-4600	Frame-Foam Marker-FM24S-ZP
2	1	6200-6260	Pipe-Fitting-Plug-Thumb Screw-3/8BSPM-Black-Plastic
3	1	5450-2220	O'Ring-Imperial-1/8"x5/8"-N70
4	1	6200-8510	Pipe-Fitting-Straight-25 Shankx3/4BSPM-Plastic
5	1	6200-2400	Pipe-Fitting-Elbow-10 Shankx1/4NPTM-Nylon
6	1	5000-1100	Lid-Filter-C-Dax 'U' 2 Port-'H' 3Port-Black-Nylon
7	1	5450-2350	O'Ring-Imperial-1/8"x2 5/8"-V75
8	1	3290-0825	Fastener-Set Screw-Hex-8.8 Grade-M8x25-ZP
9	1	2000-0027	Clamp-Hose-Herbi-M-Ratchet-26.5<>29.5mm-Black-Nylon
10	1	4100-3025	Hose-Suction-Wire Reinforced-25mm ID-Clear Plastic
11	2	3290-0840	Fastener-Set Screw-Hex-8.8 Grade-M8x40-ZP
12	1	3700-9170	Gasket-Washer-26x40x3-Rubber
13	1	2000-0029	Clamp-Hose-Herbi-N-Ratchet-28.8<>32.2mm-Black-Nylon
14	1	6200-8220	Pipe-Fitting-Straight-10 Shank-Swivel-Suit Fly Nut-Plastic
15	1	6200-5550	Pipe-Fitting-Nut-Swivel-1 1/16UNFF-Plastic
16	1	2170-2400	Compressor-Electrical-Foam-12VDC
17	1	8900-1520	Valve-Check-Teejet-Top Hat Style
18	1	1200-8900	Body-Valve-Air-Foam Marker-11/16UNFMx1/4BSPFx1/8BSPM-Brass
19	2	2000-2015	Clamp-Hose-Oetiker-Single Ear Stepless-15.3<>18.5mm-S/S
20	1	8900-5200	Valve-Needle Adjustable-1/4BSPM-No Filter-Brass
21	1	4100-0010	Hose-Spray-Delivery-40 Bar-10mm ID-Yellow (0.45m)
22	1	1300-4400	Bracket-Foam marker dropper-ZP
23	1	6250-3001	Plug-Electrical-2 Pin-Male-20 Amp-With Cover
24	1	1500-3000	Cable-Electrical-Loom-1 Switch Box-3.0M
30	1	1280-1600	Boot-Clutch-Convolute-CDIT300/400-Rubber
31	1	7500-3145	Rota-Tank-24L-Spray-Natural-MDPE
32	1	6200-2620	Pipe-Fitting-Elbow-Thru Tank-25 Shankx25 Shankx1BSPM-Nylon
33	3	3170-0008	Fastener-Nut-Nyloc-M8-ZP
34	2	3290-0620	Fastener-Set Screw-Hex-8.8 Grade-M6x20-ZP
35	2	3170-0006	Fastener-Nut-Nyloc-M6-ZP

**FOAM RELIEF VALVE
8427-9750**



Item	P/N	Description	Qty
1	8900-5200	Valve Asy – Needle MOD– ¼ BSPM	1
2	1200-8900	Body – Valve Air – FM – BS	1
3	8900-1520	Valve – Check	1
4	6200-8390	St – HSK – Swivel – 13 – NY	1
5	6200-5550	Cap – Nozzle – 11/16 NPT – NY	1

NOTES: