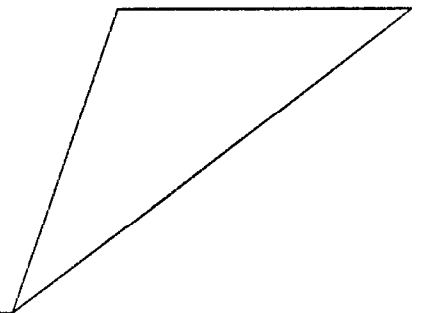




JEM FOGGER MKIII

INSTRUCTIONS FOR USE



INTRODUCTION

JEM Fogger is a solid state high power portable fog generator incorporating the very latest developments and technology. The heart of the Fogger is a laser trimmed platinum film sensor, unique to JEM, which provides precise temperature control. This sensor can detect temperature changes in a fraction of a second, allowing the circuit board to respond immediately to the needs of the machine. The sensor conforms to BS1904 Grade 2 Din 43760

The Fogger is powered by a very powerful 1000 Watt high density compacted cartridge heater and the pumping system is via a high-pressure oscillating pump developing up to 165 psi. The Fogger is thermally protected by a temperature limiter - in the unlikely event of failure causing the heater to latch on, the limiter will automatically shut the power off to the heater. The limiters used are approved by VDE DEMKO KEMA SEMCO SEV BSI NEMKO UL VTE OVE.

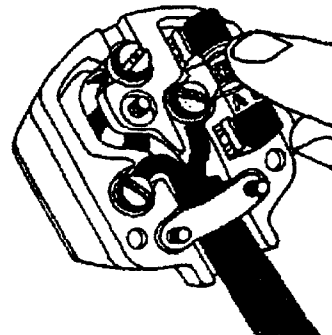


Be sure your machine is connected correctly. Do not cover the vents in the machine. Use in well ventilated areas.

N Neutral (Blue)

L Live (Brown)

E Earth/Ground (Green/



INSTRUCTIONS FOR USE

Plug the Fogger into the mains and connect the remote to the machine. Ensure the fluid bottle has plenty of JEM smoke fluid.

Depress the STANDBY button on the remote and the tri-colour STATUS LED will glow red initially, turning to yellow after approximately 10 minutes. The machine can now be operated using the FOG button, but the Fogger will be at its minimum operating temperature until the LED turns green.



The machine will not operate in the RED mode.

TIMER

Depressing the AUTO button engages the automatic timer circuit, the TIME control will alter the operating time of the Fogger from approximately 1 sec to 30 sec. The delay time between operations is fixed at approx. 30 seconds.

LED INDICATORS

The Fogger is a powerful machine and is best operated in short bursts, rather than in prolonged bursts. Short bursts of fog will also produce a better, thicker fog.

LED RED	Heaters on. Pump off.
LED YELLOW	Pump operational but still heating. Machine is at its minimum temperature.
LED GREEN	Heaters off and machine at maximum temperature.

If for any reason the vapourising system is not hot enough, the pump will switch off and the red light will come on while the machine re-heats.



Always ensure that there is plenty of JEM Fog Fluid in the machine. Do not allow foreign bodies to contaminate the fluid and never dilute the fluid with tap water.

BLOCK RESET

In the event of the block overheating there is a resetable type thermal switch. This can be found on the top of the block and will need to be re-set by simply pushing in the red rubber cap, thus restoring power to the machine.



Excessive prolonged use or allowing the machine to run dry are the only events likely to cause problems. Allowing the pump to run dry continuously, however, may damage the pump.

For clubs with a high fluid consumption, we supply a range of external tanks from 25 to 210 litres. When using these, make sure that the pipe between the external tank and the bulkhead is a maximum of 2 1/2 metres long. The external tanks should also be mounted at the same height as the Fogger.

PLATINUM FILM SENSOR

The platinum film sensor is extremely fragile and so great care must be taken when replacing this piece of equipment. It is located under an aluminium plate on the top of the heater block. There is a 20 micron film of glass covering the platinum in the sensor. Be very careful not to scratch the glass and also make sure the small strip of mica is fitted over the glass screen. This protects the glass from being scratched by the aluminium protective plate. Once replaced and before re-connecting the wires, use a suitable test meter and check for a resistance of 100 ohms across the wires, with the aluminium block at room temperature. Also check to see that there is no reading between either sensor wire and the chassis. A reading between wire and chassis is a fault condition and indicates an insulation breakdown or possibly a broken sensor.

DUCTING

The ZR ducting system consists of a 5 meter x 4" diameter trunking and an adaptor to fit onto the front cowling of the Fogger. It must be noted that when ducting is used a proportion of the smoke will condense back into fluid in the ducting. A "U" bend can be formed with a suitable container to catch the droplets. Ducting is not recommended for installations where the machine is mounted in the ceiling. For alternative methods of ducting, please ring our technical department.

INSTALLATION

When installing or using the Fogger be sure that the front of the machine and an area of at least 20 feet to the front of the nozzle is unobstructed. Also note that the output nozzle at the front of the machine reaches extremely high temperatures. For further information on the installation of the Fogger, telephone our technical department.

SERVICING THE MACHINE

In the event of having to do any servicing on the machine use a JEM authorised dealer who will be qualified to work on this equipment. A preliminary inspection may be carried out by first disconnecting the machine from the mains supply before any attempt is made to gain access to the machine's interior. Remove the fluid bottle from the machine. Remember to carefully retain all screws etc. Do not dismantle pipework joints unless there is a clear need to do so. Problems can arise from air-leaks in the fluid line due to badly re-assembled joints or damaged pipes causing the pump to not prime properly. Look out for tell-tale signs of air bubbles or for signs of escaping fluid if this is suspected. It may be necessary to bleed the system if excess air is trapped in the line.

QUICK-RELEASE PIPE FITTINGS

The Fogger uses some push-in compression fittings that can be easily pulled apart by hand. To release a nylon pipe, simply press the brass ring at the base of the pipe inwards with your thumbnail and pull the nylon pipe out. To re-assemble, simply push the pipe firmly back into the fitting. The joint automatically seals itself. Other compression joints use a brass nut and olive joint, and should be dismantled by an engineer. A sealing compound will be needed to properly re-seal these types of joints.

PARTS AND LABOUR GUARANTEE

The Fogger has a 5 year guarantee:- 1 year parts and labour plus an additional 4 year parts guarantee To qualify for the additional 4 year guarantee, your Fogger must be checked over annually by JEM Smoke Machine Co. Ltd., or an authorised JEM dealer, JEM distributor or JEM qualified personnel. Machines produced from May 1986 are all fitted with fluid filters which can be found on the inlet to the non-return valve. We recommend these are replaced or cleaned once a year by qualified service personnel. ***This guarantee is void if the Fogger is tampered with, misused, repaired by unauthorised personnel, suffers accidental damage or is modified in any way. JEM Smoke Machine Co. Ltd. reserve the right to change or alter specifications without notice. JEM Smoke Machine Co. Ltd. will not accept liability for freight, carriage, packing or any ancillary charges.***

OPTIONAL EXTRAS

Electronic Timer Remote Control * Complete Ducting System inc. Adaptor
External Tanks from 25 to 210 Litres * Infra-red Density Sensing System

Q

WHAT DO I DO IF PROBLEMS ARISE!



A

1. DON'T DESPAIR! CHECK OBVIOUS POINTS LIKE THE FUSE AND IF YOU HAVE FLUID IN THE MACHINE. IS THE RED LIGHT ON PERHAPS? ACTUAL FAULTS ARE RARE!



A

2. IF ALL ELSE FAILS, CALL YOUR DEALER FIRST - OR CALL US! WE KNOW OUR MACHINES INSIDE OUT AND WILL KNOW WHAT TO DO!



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