

IMPORTANT USER GUIDANCE

DUST FIGHTER - DF MINI

WATER MISTING UNIT

READ ALL THE INSTRUCTIONS BEFORE USING THE EQUIPMENT

General Specification: The Dust Fighter DF Mini produces a fine mist of “Nebulized” water droplets to suppress airborne dust and odours. Because water-mists “float” they capture particles more effectively than water sprays or jets, with much reduced pooling.

The DF Mini is an easy to use mobile unit with integral 70 litre water tank which operates from 110v power using clean water; optionally a de-odourising agent can be added to the water mist.

Throughput and range of throw, height and angle of the misting head can all be adjusted to suit the user application. Max dimensions in use W 600mm x L 710mm x H2150mm; height reduces to 1300mm for transport. Dry Weight 74kg; Full Tank 144 kg.

1. INSTALLATION: transport this equipment upright (on its wheels). It can be wheeled or lifted into place; the integral lifting points are for relocating the unit only - do not attempt to operate the unit suspended in the air !

DF Mini can be used inside or outdoors. Place on a firm level surface and ensure there is nothing to obstruct the discharge from the misting head:

- Set the tilt angle of the misting head by releasing the screw knob on the side of the misting head and tilting the head to the desired angle; tighten the knob to lock it in place.
- Raise the head to the desired height using the telescopic mast.
- Fill the water tank using clean potable (drinking quality) water. If using a deodourising agent add this in accordance with the manufacturers instructions for mixing and use.

2. OPERATION: the unit is equipped with a 110v 16 amp plug; the units draws 0.55kW when in operation:

- Press the Start button to “On”; if there is sufficient water in the tank the pump will spool to its operating speed and within a few seconds mist will be generated from the head. If there is not enough water in the tank a low-water indicator light will illuminate – switch off, add water to the tank, and then re-start the machine.
- The width of the misting spray is user adjustable from 80 - 150 degrees; release the knobs on the underside of the misting head and slide the nozzles in or out to achieve your desired misting spread (80 – 150 degrees spread). Secure the knobs again. As standard the machine is supplied with mid-range (green) misting nozzles which give a throw of up to 7 metres, coverage of up to 64 square metres, and run time of 2 hours 45 mins on a tank of water.



On request we can fit different nozzles to change the water throughput and coverage (see adjacent table); please enquire to the supplying depot if you would like different misting nozzles fitted.

NOZZLE	MAX RANGE	TANK DURATION	COVERAGE m ²
1/4M KBN 80 063 BROWN NOZZLE	5 METRES	5 HRS 18 MIN	33
1/4M KBN 80 125 GREEN NOZZLE	7 METRES	2 HRS 45 MIN	64
1/4M KBN 80 022 PURPLE NOZZLE	8 METRES	1 HRS 20 MIN	83

- Once you have finished with the equipment turn the switch to “Off”. If you are not going to use the equipment for more than a week we recommend you empty the tank - open the pump-housing door and open the tank-drain valve. In frost conditions you must also release the cartridge filter at the bottom of the machine - to drain the pump !

In-use routine maintenance: we recommend you periodically (monthly) disconnect the machine from its power supply and:

- unscrew the filter hexagon nut on the bottom of the machine – any water in the pump will drain out; remove & clean the water particulate cartridge filter and then re-fit it.
- unscrew the misting nozzles; if you are in a “hard water” area soak the nozzles in de-scaling solution, rinse in clean water and then re-fit.
- where operating at temperatures sustained above 30 Celcius we recommend you rinse the tank and flush the equipment through with a proprietary sanitiser such as Milton.

Trouble-Shooting:

Problem	Cause / Solution
Machine won't start:	Check plugged in, Switch is “On”; Frozen ?!!
Low-Level Light Illuminated:	Top up water tank and then re-start machine.
Mist plume too wide or too narrow:	Adjust Nozzle Position / Change Nozzle Type.
Uneven mist plume:	De-scale nozzles; clean water tank filter.

- 3. WARNINGS:** Don't walk within 2 metres of the mist discharge point while the machine is in operation; wear eye protection. This machine works with clean potable water - don't use dirty or untreated water. Protect from frost, don't use below zero Celsius. If damaged remove the equipment from service and return to the supplier.

- 4. AFTER USE:** before returning to supplier please EMPTY tank and clean the machine.



NUMBER	DESCRIPTION KEY
1	PUMP DOOR
2	WATER TANK
3	WATER FILLER CAP
4	TELESCOPIC MAST
5	MISTING NOZZLES
6	LIFTING POINT
7	TILT ADJUSTABLE MISTING HEAD
8	HANDLE
9	ON-OFF SWITCH + TANK-EMPTY LIGHT

FOR MORE INFORMATION ABOUT OUR RANGE OF DUST CONTROL, AIR FILTRATION AND VACUUM EQUIPMENT SEE OUR WEBSITE www.envirogard.co.uk OR CONTACT OUR HIRE DEPOTS

 www.envirogard.co.uk	 NATIONWIDE DELIVERY SERVICE	Manchester 01613 208 587 email: manchesterdepot@envirogard.co.uk	
		Ashford 01303 814 930 email: ashforddepot@envirogard.co.uk	
		Tamworth 01827 304 955 email: tamworthdepot@envirogard.co.uk	
		Barnsley 01226 740 900 email: barnsleydepot@envirogard.co.uk	
		Bristol 01179 374 551 email: bristoldepot@envirogard.co.uk	