Mega Max™ / Mini Max™
FOGGER

User Guide

0201-MDG rev. A/d

CE

MADE IN CANADA
FABRIQUÉ AU CANADA

Les Générateurs de Brouillard MDG Ltée / MDG Fog Generators Ltd
10301 avenue Pelletier, Montréal, Québec, Canada H1H 3R2
Tel. 514-272-6040 / 800-663-3020 - Fax 514-722-3229
www.mdgfog.com e-mail : info@mdgfog.com

INTRODUCTION

Congratulations! You are now in possession of a MDG Fogger model:

Mega Max™ / Mini Max™

We hope the **Mega Max™ / Mini Max™** Fogger will bring our professional users long hours of satisfaction.

Please read the following instructions carefully and completely before filling your Fogger with the MDG Glycol-Based Fog Fluids and turning it on.

BASIC DESCRIPTION

The **Mega Max™ / Mini Max™** Fogger was designed with safety and reliability in mind.It is capable of generating pure white, non-toxic fog for as long as you have fluid (100% duty cycle). This Fogger is also equipped, as a standard feature, with the Automatic Extract System™ (AES™). This system extracts the fluid from the heating modules after every emission of fog preventing residual build up and clogging as well as reducing incidental puffing.

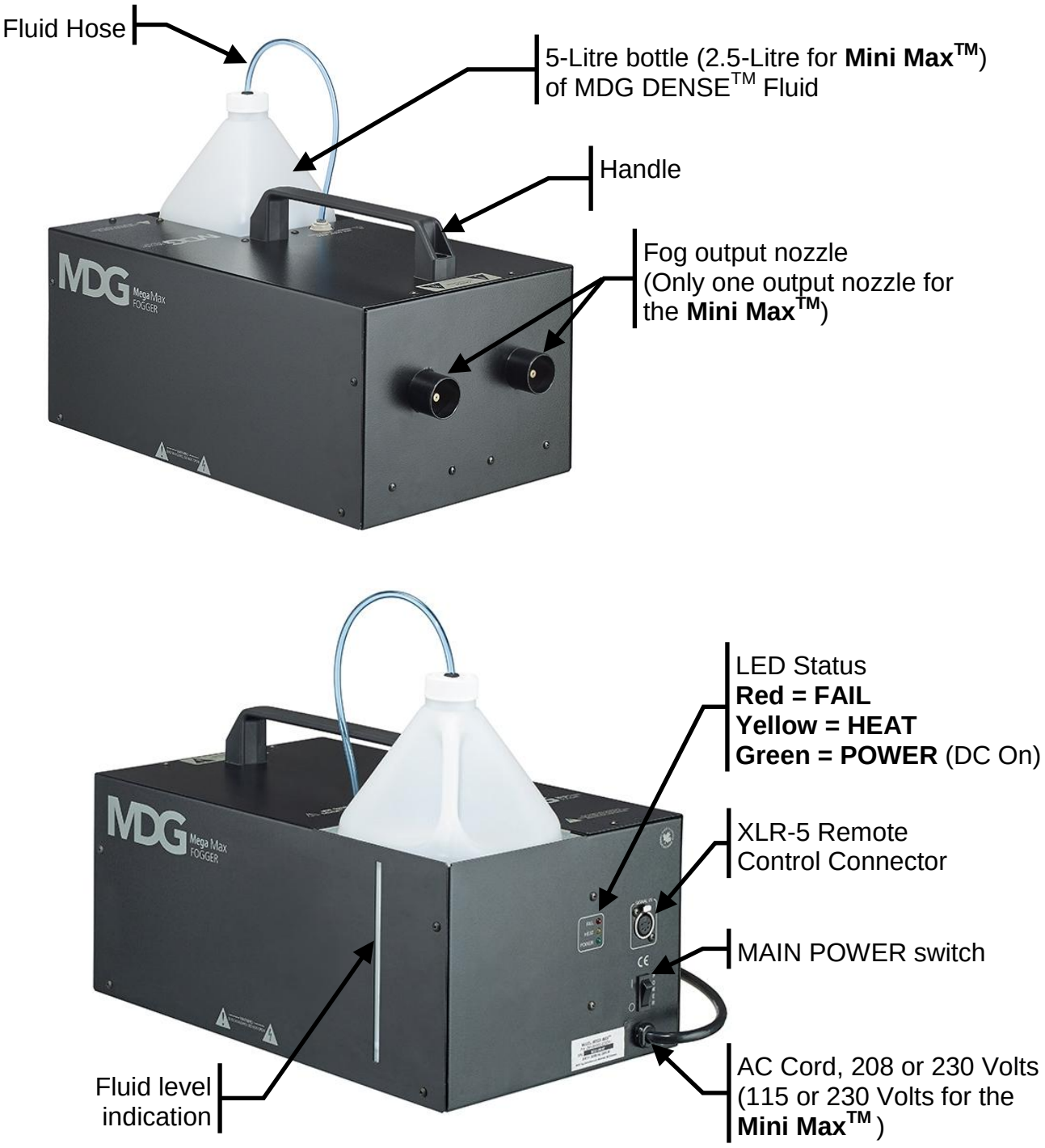
The **Mega Max™ / Mini Max™** is a variable output Fogger capable of generating large volume of dense fog in a short period of time and must be used in a well-ventilated area.

At the heart of the MDG Fogger is an electronic assembly that keeps the heat exchanger(s) at a very stable temperature, which integrates three types of fail-safe systems. Those three types of electronic fail-safe systems are designed to protect against over and under-heating conditions and against component failure. When an overheating condition is detected, or if the internal temperature of the Fogger reaches 60°C (140°F), a safety circuit is triggered. This circuit removes the power to the heating elements, preventing hazardous conditions.

When an under-heating condition occurs, the Fogger will stop producing fog until the temperature of the heating module is back within parameters.

Mega Max™ / Mini Max™

Layout



WARNING:

- When not in use ALWAYS switch off the power switch located on the back panel, or unplug the Fogger.
- Never install above people.
- This Fogger must be installed in an upright position on a stable and leveled surface.
- Do not operate at less than 2 meters (6.5 ft.) from people.
- Use in a well ventilated area.

TECHNICAL SPECIFICATIONS

Electrical power requirements:

Mega Max: Model **MM20** version-208V, 1 phase**,** 50/60Hz, 2815 W.
version-230V, 1 phase, 50/60Hz, 2815 W.

Mini Max: Model **MM15** version-115V, 1 phase, 50/60Hz, 1415 W.
version-230V, 1 phase, 50/60Hz, 1415 W.

The AC power cable for the **Mega Max™ / Mini Max™** Fogger is connected as follow:

BROWN or BLACK wire is the	LINE 1
BLUE or WHITE wire is the	LINE 2 for 208 and 230 or (NEUTRAL for 115VAC)
GREEN YELLOW or GREEN wire	GROUND

Connect power cable according to valid electrical standards.

<u>OUTPUT & CONSUMPTION</u>

Mega Max: Model **MM20**

Variable output up to 140 m^3 (5000 ft^3) of fog @ full volume
Consumption: 3,5 L (53 oz) per hour

Mini Max: Model **MM15**

Variable output up to 56 m^3 (2000 ft^3) of fog @ full volume
Consumption: 1,5 L (53 oz) per hour

USE OF THE FOG FLUID

Operate the **Mega Max™ / Mini Max™** Fogger only with the MDG Glycol-based Fog Fluids: the **MDG DENSE™**, the **MDG WB2™** or the **MDG LOW FOG™**. Make sure that no other liquids or particles are mixed or added to the MDG Fog Fluid.

The MDG Glycol-based Fog Fluids produce a pure, white, non-toxic fog.

Use of this Fogger with any other fog liquid will automatically void the warranty.

MDG Glycol-based Fog Fluids are available at authorized MDG distributors or dealers.

Available in 4 L (1 US gallon), 5 L (Europe Only), 20 L (5.3 US gallon), 205 L (55 US gallon) and 1000 L (264 US gallon).

REPLACING THE FLUID CONTAINER

Verify the fluid level of the bottle by looking through the opening, on the side of the Fogger. If level is insufficient, change the bottle or refill.

WARNING – DO NOT OPERATE WITHOUT FLUID.

The fluid bottle capacity for the **Mega Max™** Fogger is 5-litre.
The fluid bottle capacity for the **Mini Max™** Fogger is 2.5-litre.

OPERATING INSTRUCTIONS

The **MDG Mega Max™ / Mini Max™** Fogger is quite easy to operate and require no preventive maintenance. It is supplied with a remote control model: **MM-s**.

A remote control timer model: **MM-t** or the 2-channel DMX Interface model: **MM-x** can be bought as an option.

When the MAIN POWER (208, 230 or 115 VAC) and the MAIN POWER SWITCH is applied, the Fogger is placed in stand-by mode. When in stand-by mode, most of the electronic controls are off (except for the three types of fail-safe systems), waiting for the ON switch on the remote control to be activated.

USE OF THE REMOTE CONTROL FOG PRODUCTION

Connect the remote control to the XLR-5 connector on the back panel of the Fogger.

When the ON switch is pressed, the red LED indicating that the unit is working will light, as well as the yellow LED called HEAT, indicating the start of the heating cycle which takes approximately 7 minutes. When the temperature reaches a pre-adjusted level called the READY level (indicated by a green LED), the HEAT yellow LED will turn off.

The **Mega Max™ / Mini Max™** Fogger is ready to produce fog. The amount of the fog emission can be controlled by adjusting the fog output adjustment knob on the remote control (see page 2).

The temperature is maintained within a narrow margin (the HEAT yellow LED turn on and off from time to time to indicate the control of temperature) otherwise, an error condition will result and the Fog Generator will shut down. *When one of the safety system is activated, the HEAT yellow LED will start blinking indicating the fail mode.* Shut down the main power switch, wait 2 to 3 minutes and retry the generator. If the fail mode still appears, unplug your Fogger and return it to an authorized service centre for verification.

The FOG ON signal (green LED) can be applied to produce fog for as long as the ready level is reached and all other control parameters are within specifications. When the “FOG ON” signal is removed, the AES™ cycle is automatically initiated to clear the heating modules. Never remove the power to a Fogger while it is producing fog – See the shut down procedures.

The 100% Duty cycle is continuous with specified line voltage, and will degrade with line voltage loss. If that is the case, reducing the fog output can compensate it.

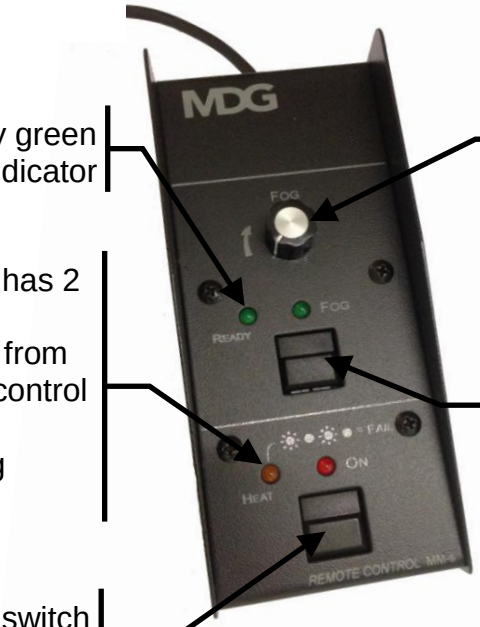
SHUT DOWN PROCEDURES

The Fogger must never be shut down while making Fog. To power off a Fogger the following sequences must be observed:

- Always turn off the fog emission;
- Wait a few seconds for the AES™ cycle to complete;

Power off the Fogger by switching off the "MAIN POWER SWITCH" or by removing the MAIN POWER;

Standard Remote control
Model: MM-s



Ready green LED indicator

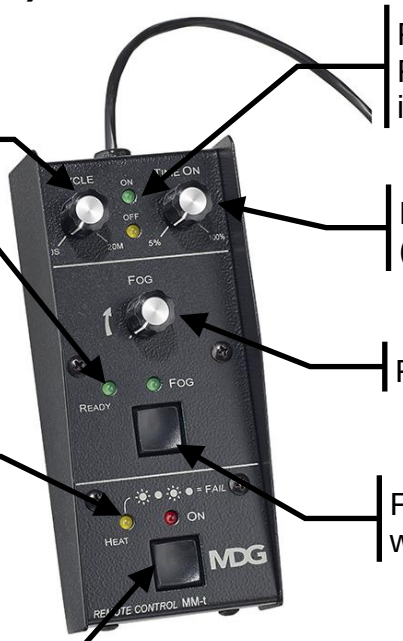
FOG output adjustment knob

HEAT yellow LED indicator has 2 functions
1)The LED turns on and off from time to time to indicate the control of temperature.
2)The LED will start blinking indicating the FAIL mode.

FOG output ON/OFF switch with green LED indicator

Fogger Main ON/OFF switch With red LED indicator

Remote control Timer (option)
Model: MM-t



Fog cycle ON green LED and Fog Cycle OFF yellow LED indicator

Fog CYCLE knob

Fog output TIME ON (% of cycle) knob

Ready green LED indicator

HEAT yellow LED indicator has 2 functions
1)The LED turns on and off from time to time to indicate the control of temperature.
2)The LED will start blinking indicating the FAIL mode.

FOG output adjustment knob

FOG output ON/OFF switch with green LED indicator

Fogger Main ON/OFF switch With red LED indicator

Warranty

When installed and operated as recommended, MDG Fog Generators Ltd guarantees that this product will remain free of defects in parts and labour for a period of two (2) years from the moment it is delivered. This warranty does not apply if the product has been modified without our written authorization, or repaired without a written authorization from MDG or one of its authorized service centres, or if it is used under conditions for which it has not been designed, or if any other fluid than the MDG Glycol -based Fog Fluids has been used. MDG Fog Generators Ltd is not responsible for any damages resulting from a faulty installation or from abusive use of the product.

If any device is found unsatisfactory under the terms of this warranty, MDG Fog Generators Ltd will repair or replace it free of all charges, except transportation costs.

This warranty applies only to the product itself and MDG Fog Generators Ltd declines responsibility for any losses, costs, or damages resulting from its use.

MDG Fog Generators Ltd shall not be liable for consequential damage in case of any failure to meet the conditions of any warranty or shipping schedule, nor will claims for labour, loss of profits, repairs, or other expenses incidental to replacement be allowed.

The repair or replacement of the product, by MDG Fog Generators Ltd shall constitute fulfilment of all obligations to the purchaser.

No other guarantees or warranties, expressed or implied, are made by MDG Fog Generators Ltd in connection with its products. This warranty is non-transferable and applies to the original purchaser only.

To obtain satisfaction under the terms of this warranty, contact your local sales office, and we will be pleased to help you.

Declaration of Conformity

CE

EC DECLARATION OF CONFORMITY

According to IEC/ISO 17050

We, **MDG Fog Generators Ltd**
10301 ave Pelletier
Montreal, QC, Canada, H1H 3R2

declare under our sole responsibility, that the product including options or accessories

Fog Generators models: Me1, Me2, Me4 and Me8,
MAX 3000 APS, MAX 5000 APS and MAX 5000 APS H.O.
ATMe, ATMOSPHERE APS and ATMOSPHERE APS H.O.
ICE FOG Q and ICE FOG Compack
MM, MINI SINGLE, SINGLE and DUAL

to which this declaration relates, is in conformity with the following standards:

IEC 60335-1: 2001 (Fourth Edition) incl. Corr.1:2002 + A1:2004 + A2:2006
Household and similar electrical appliances – Safety/Part 1, September 2006
CISPR 22:2008-09/EN 55022, Class B
IEC 61000-6-1:2005/EN61000-6-1:2007, (EMC)-Part 6-1
FCC PART 15, Subpart B, class B

By conformance with the standards referenced, the product follows the provisions of the directives listed below:

2006/95/EC Low Voltage Directive
2004/108/EC EMC Directive
2011/65/EU RoHS2 Directive

Martin Michaud, President
August 17, 2012
Montreal, Canada