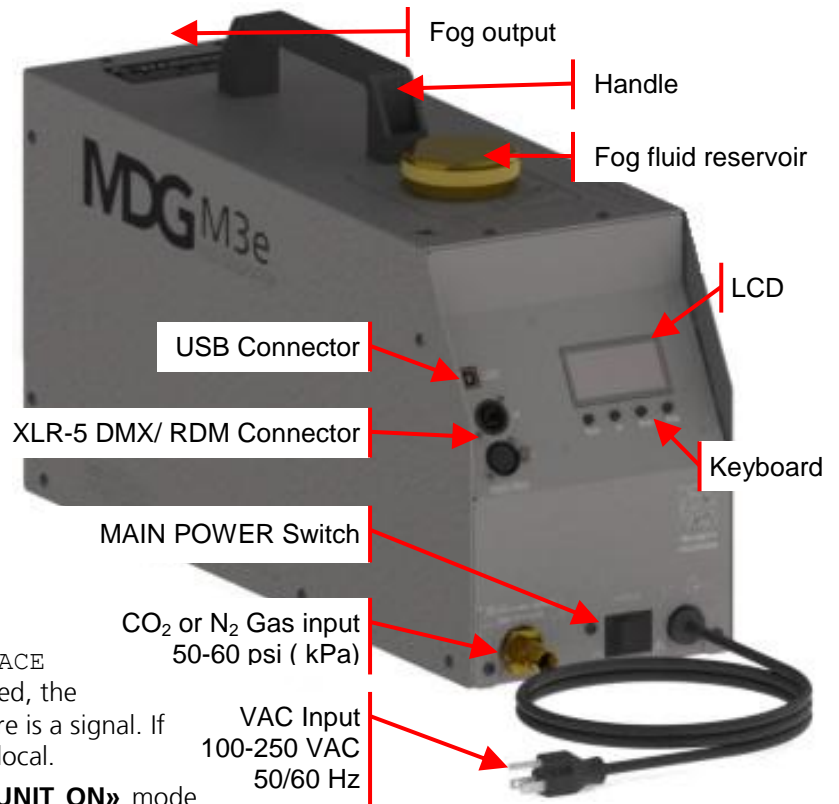


## M3e

### Installation

- Connect the gas inlet to a gas bottle equipped with a regulator. The gas inlet is an Oxygen Adaptor (9/16-18 R.H).
- Connect the data wiring (Male XLR-5 connector for DMX/RDM) if you are using a DMX or RDM controller.
- Connect the power cord 100-250 VAC, 50/60 Hz, 715W.
- Open the gas bottle (CO<sub>2</sub> or N<sub>2</sub> industrial grade, over 99% of purity), and **set the regulator pressure between 50 and 60 psi** (3.5 and 4.1 bar, or 350 and 410 kPa).
- Fill the reservoir with **MDG Neutral Fog Fluid**.



Power on the MDG **M3e**.

### Working with the keyboard (LOCAL Mode)

- Verify the communication mode in the «INTERFACE ▶ COMM. ». When the «AUTO» mode is activated, the MDG **M3e** is then controlled by DMX, only if there is a signal. If the DMX wire is unplugged, the control remains local.
- When the generator is manually switched to «UNIT ON» mode («CONTROL ▶ UNIT ▶ ON»), the program starts the heating cycle for approximately 8 minutes («STATUS ▶ STATE = % HEAT»).

When the temperature reaches operating level, the Automatic Purging System™ (APST™) will be initiated («STATUS ▶ STATE = PURGE»).

After the first purging cycle is completed (1 min), the generator is ready to produce fog («STATUS ▶ STATE = READY»).

- To produce Fog, switch the generator to «FOG ON» mode («CONTROL ▶ FOG ▶ ON»).

The MDG **M3e** will start to produce fog right away.

Fog emission can be controlled by adjusting the working pressure of the internal reservoir («CONTROL ▶ PRESSURE»).

The MDG **M3e** will produce fog as long as the control parameters are within specifications, the fog fluid reservoir filled and the gas bottles pressurized.

If a critical problem occurs, the fog generator automatically shuts down, and displays an error message in the **Status Menu**.

The most common errors are (check the manual for more details):

- ERROR = P. LOW                      Gas bottle is probably closed, empty or not connected. Check also the regulator pressure.
- ERROR = P. HIGH                    The input gas pressure is too high (Pressure between 50-60 psi / 3.5-4.1 bar / 350-410 kPa).
- ERROR = HEATER                    Check the AC voltage.
- ERROR = PCB HIGH                 Move the generator to a colder location.

## Working with DMX/RDM Control (DMX Mode)

- Connect a DMX line to DMX In connector ( Male XLR-5 connector).
- Select the communication mode in the «INTERFACE ▶ COMM. ». When the «AUTO» mode is activated, the MDG **M3e** is then controlled by DMX, only if there is a DMX signal.
- Set the DMX Start Address in the Interface Menu («INTERFACE ▶ COMM. ▶ DMX ADDR»), and choose any value between 1 and 510 (512, last DMX channel).

The DMX Start Address can be reassigned via a RDM control.

The generator uses two (2) or three (3) DMX channels, depending on its personality:

### Personality M3e

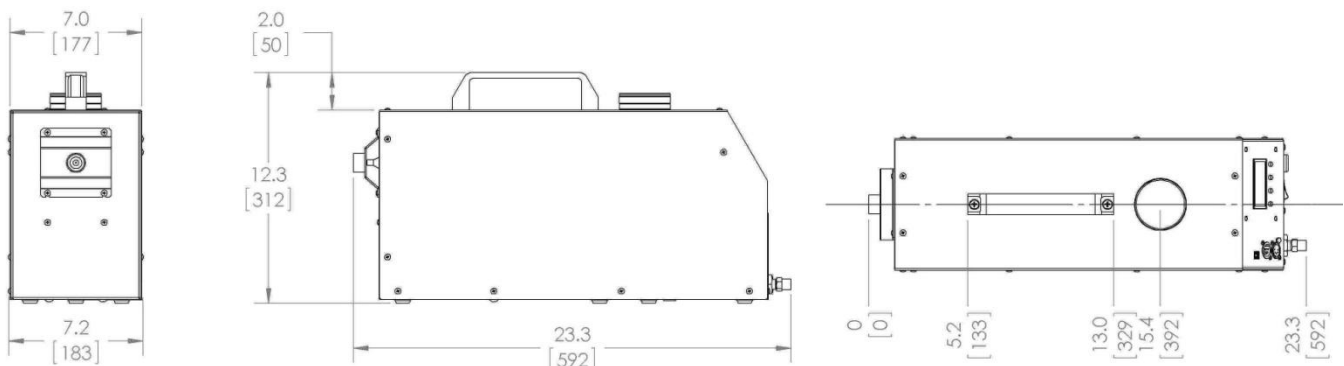
- Channel 1      **0 (0%)**      < UNIT OFF      ≤ **128 (50%)**      < UNIT ON      ≤ **255 (100%)**
- Channel 2      **0 (0%) – 255 (100%)**, FOG OUTPUT (from minimum to maximum)
- Channel 3      **0 (0%)**      < FOG OFF      ≤ **128 (50%)**      < FOG ON      ≤ **255 (100%)**

### Personality MAX 3000

- Channel 1      **0 (0%)**      < UNIT OFF      ≤ **128 (50%)**      < UNIT ON      ≤ **255 (100%)**
- Channel 2      **0 (0%)**      < FOG OFF      ≤ **128 (50%)**      < FOG ON      ≤ **255 (100%)**

## Technical Specifications

|                        |  |
|------------------------|--|
| Total Running Time:    | 1.3 hours at 2.76 bar / 40 psi<br>2.5 hours at 1.38 bar / 20 psi   |
| Fluid consumption:     | 1.9 l (53.1 oz / 0.475 US gal) per hour at 2.76 bar / 40 psi<br>1.0 l (29.5 oz / 0.264 US gal) per hour at 1.38 bar / 20 psi |
| Fluid type:            | MDG <b>Neutral™ Fog Fluid ONLY</b><br>M.S.D.S. available on request  |
| Fluid reservoir:       | 2.5 l (0.66 US gal) bottle   |
| Gas type:              | Industrial Grade CO <sub>2</sub> or N <sub>2</sub>   |
| Gas pressure input:    | 4.15 bar / 60 psi max  |
| Gas consumption:       | 1.6 kg (3.53 lb) per hour at 2.76 bar / 40 psi<br>0.96 kg (2.12 lb) per hour at 1.38 bar / 20 psi                            |
| Operating voltage:     | 100-250 VAC, 50/60Hz, 1 phase, 715 W<br>Ground / Earth connection <b>REQUIRED</b>  |
| Operating temperature: | 0 °C to 50 °C (32 °F to 122 °F)  |
| Operating humidity:    | 90 % relative humidity @ 50 °C (122 °F), non-condensing  |
| Storage temperature:   | -40 °C (-40 °F) to 60 °C (140 °F)  |
| Storage humidity:      | 80% relative humidity @ 60° C (140 °F)   |
| Approval               | CE, CSA and UL pending   |
| Dimensions             | 30 cm (12") H x 18 cm (7") W x 61 cm (24") L   |
| Weight:                | 15.6 kg (35 lb)  |



... For further details, please read the **User Guide**.