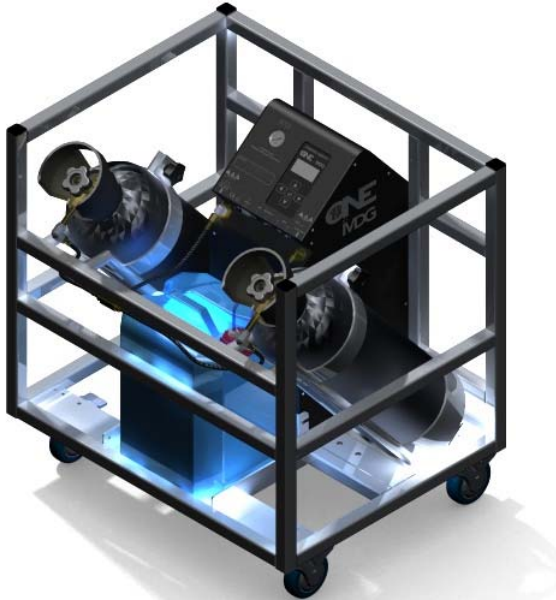


theONE™ - Digital Atmospheric Generator

Preliminary Specifications Bb 100427



The **MDG theONE™** is a revolutionary, fully digital, dual mode fog/haze atmospheric generator. For the first time, this completely self-contained package – consumables included - offers sophisticated control over atmospheric effects from a single source. Its simple and efficient multi-level user interface, accessible from the backlit LCD panel, allows for a gradual switch between either mode seamlessly using various networking protocols. Each parameter is set into specific presets, but can be accessed and redefined by advanced users. The networking capability of the MDG **theONE™** allows the user to install the generator as part of an existing ACN network. Automatically refilling from an external 20 l (5.3 US gal) fluid container and with the two interconnected 9kg (20 lb) CO₂ or N₂ gas bottles, **theONE™** was especially designed to give a maximum of consecutive, non-stop hours of fog/haze without service. With the generator and its accessories sitting in separate cradles in the standard rolling rack, for easier storage and transportation, the sturdy aluminium rack provides several rigging options for maximum freedom, making the MDG **theONE™** especially fit for ready-to-go worldwide touring conditions. In a word, like in a thousand – **theONE™** and only atmospheric generator you'll ever need.

Mechanical

- Single output
- Dual fan
- 100% Duty Cycle
- Automatic Purging System (APS)[™]
- Automatic Refill System (ARS)[™]
- Internal pressure regulator
- Gas pressure input : 172 Bars (2500 PSI)
- 16-Gauge steel chassis
- Total weight: 84 kg (185 lb)
- Size: 61x77x80 cm (24x31x32 in)

Electrical

- 100-250 VAC, 50/60 Hz
- 1415 Watts
- IEC 320/C20 UL/CSA /CE 14 AWG x 3 cord

Data

- 4 standard USITT DMX512 channels, XLR-5 connectors, 1 input, 1 output.
- USB 2.0 Link connector (updates)
- RJ45 network connector ACN – ARTNet (TBA)

Consumables

- **MDG NEUTRAL FLUID™ only**
- Industrial grade CO₂ or N₂ only
- External 20-litre (5.3 US gal) container

Accessories

- Dual 9 kg (20 lbs) gas bottles
- 20-litre (5.3 US gal) container

Digital Functions

- 2 modes: Haze and Fog
- Factory default presets
- 9 User definable presets
- Lockable operating mode
- Last operation mode memory
- Different user access level
- Customizable settings at higher levels
- Networkable (TBA)
- Recordable failure / anomaly logs (TBA)

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Preliminary Specifications

Technical Data		theONE - Fog mode	theONE - Haze mode
Consumables			
Fluid consumption (per hour @ max output)		2 l (56 oz) at 3.45 bar (50 psi)	65 ml (2 oz) at 2.07 bar (30 psi)
Fog Volume (per minute/max output)		110 m ³ (3900 ft ³)	N/A
Fog volume control		Yes - variable	Yes - variable
Gas Consumption (CO2 or N2)		0.97 kg (2.13 lb)	0.18 kg (0.4 lb)
Automatic Purging System		Yes - Standard	Yes - Standard
Fog / Haze Colour		Pure White Fog	Pure White Haze
Particle size		0,5 -0,7 Micron (µm)	0,5 - 0,7 Micron (µm)
Total running time (with 20 l container)		10 hours	308 hours
Warm-up time		< 8 minutes	< 8 minutes
Fluid type (MSDS available on request)		MDG Neutral Fluid	MDG Neutral Fluid
Operation			
Operating voltage		100 - 250 VAC, 50/60 Hz	100 - 250 VAC, 50/60 Hz
Power consumption		1415 Watts	1415 Watts
Approval		CE approved, CSA and UL pending	
Physical		Generator	Rack
Dimensions	Length	30 cm (12")	61 cm (24")
	Width	25 cm (10")	77 cm (30")
	Height	61 cm (24")	80 cm (32")
Weight		24 kg (53 lb)	47 kg (104 lb) w/out accessories
Shipping weight		25 kg (55 lb)	49 kg (108 lb) w/out accessories
Total operating weight (with the rack, 2 x 9 kg gas bottles and a full 20 l fluid container)			84 kg (185 lb)
DMX		Yes, input-output	N/A
RJ45		Yes -ACN	N/A
AC		Yes - IEC cord	N/A
DISPLAY		LCD, backlit, 5-button command	N/A
Truss mounting		N/A	Yes - 2 x 750 kg couplers included

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