

Jem ZR12 DMX Specifications

Heater size

- ☞ 1000w

Fuse rating

- ☞ 5A @ 220-240v
- ☞ 10A @ 110v

Operation time

- ☞ Continuous

Controller supplied

- ☞ DMX interface with fog button

DMX input

- ☞ 1 channel required for variable output

Analog link

- ☞ Standard via 5 pin DIN socket

Recommended fluid

- ☞ Pro Smoke Studio (DX Mix)
- ☞ Pro Smoke Super (ZR Mix)
- ☞ Pro Smoke Super (Fragranced)
- ☞ Pro Smoke High Density (SP Mix)

Fluid level sensing

- ☞ N/A

Smoke Output (max.)

- ☞ 500 cubic metres/min
- ☞ 17657 cubic feet/min

Dimensions when boxed

- ☞ 670mm x 310mm x 300mm

Weight (with fluid)

- ☞ 13.5kg

Drip tray

- ☞ Optional

Installation

Total power consumption

- ☞ 4.8A @ 220-240v
- ☞ 9.5A @ 110v

Heat up time

- ☞ 7 mins

Over-heat protection

- ☞ Direct Thermal Protection Device

Control Options

- ☞ Jem Multifunctional remote control
- ☞ 0-10v input

0-10v input

- ☞ Use remote Din socket Pin 2 GND and Pin 5, 0-10v input. This pin needs 1.5v to heat the machine and 2-10v to run the pump when up to working temperature.

Fluid capacity

- ☞ 2.5 litre

Fluid consumption (max.)

- ☞ 75ml/min
- ☞ 0.018 Imp. gallon/min

Input fluid pipe diameter

- ☞ O/D 4mm

Dimensions of Machine

- ☞ 500mm x 225mm x 165mm

Weight (no fluid)

- ☞ 11kg

Flying kit

- ☞ N/A

- ☞ The machine should be located in a well-ventilated area with a minimum of 200mm air space around the sides and top of the machine. The machine should only be used on level surfaces. The initial smoke output of the machine is hot, so the front of the machine should be at least 1 metre from surfaces or people. Never leave the machine running unattended. Do not install above people's heads.

Ducting kit

- ☞ Optional 4 " flexible inc. adapter

Output nozzle size

- ☞ 40mm dia.

Max length of remote cable

- ☞ 50 metres (5 metres supplied)

Accessories

- ☞ Jem Multifunctional remote control
- ☞ 4 " Flexible Ducting System inc. Adapter
- ☞ Drip tray

Sample project specification

- ☞ **Description**

The ZR12-DMX includes all the same features as the ZR12-AL yet has added DMX input via a specially designed on-board interface for extra flexibility and control.

- ☞ **Soft Start Electronics**

The "crack" created during the initial burst of smoke is caused by the pump pressure overcoming the incredible back pressure of the heat exchanger. Jem's unique Soft Start Electronics gradually powers the pump, eliminating this crack and ensuring a quieter and smoother operational level following initial start up.

- ☞ **Heat exchanger**

All Jem heat exchangers are designed for high efficiency performance. Only the purest grade LM24 aluminum is used in the production process which eliminates the risk of porosity (pockets of gas within the casting which can cause heater failure). All heat exchangers contain cuprous helicoils of at least 2.8 meters in length, ensuring a continuous flow of pure, dry, white smoke.

- ☞ **Electronic Pump Ramping**

Jem was the original pioneer of EPR, an intelligent means of warning of a drop in temperature which could result in 'wet smoke' (residue). The pumps respond to this signal by running slower and pumping less fluid, thus allowing the heaters to restore optimum operational temperature. This guarantees a continuous flow of smoke using highly efficient, lower wattage heaters.

- ☞ **DMX Control**

This uses a single channel of DMX 512 giving a full variable output from the machine. This important feature means that atmospheric effects can now become choreographed into the Light show or stage performance via the lighting console.

- ☞ **On-Board Remote System**

Greatly appreciated by rental companies, this hand-held remote can be stored during transit on-board the machine, making it easy to find at show time and eliminating transit vulnerability. But storage isn't the only advantage. Portability is greatly enhanced by having on board controls.

- ☞ **Direct Thermal Protection Device**

This small yet crucial component is the last line of defense against catastrophic failure. Other manufacturers still depend on cheap plastic whereas Jem's DTPD is made from a solid ceramic composite. This guarantees extremely precise overheat monitoring and is unaffected by ambient temperature changes.

- ☞ **Max Power Consumption**

4.8A @ 220v

9.5A @ 110v

Maximum Smoke Output

500 cubic metres/min

17657 cubic feet/min

Fluid container

All Jem smoke, haze and heavy fog machines are designed to carry removable fluid containers of varying sizes depending on the models application. The removable container makes for quicker refills and protects the machine from damage through spillage in transit.

Maximum Fluid Consumption

75ml/min

0.018 Imp. gallon/min

Accessories

Ducting system (accepts the standard ZR ducting system)

DMX interface (accepts the ZR12 DMX interface)

Drip tray

Included items

Jem Multifunctional remote control

2.5 litre fluid container (empty)

Instructions for use manual

Recommended fluids

Pro Smoke Studio (DX Mix)

Pro Smoke Super (ZR Mix)

Pro Smoke Super (Fragranced)

Pro Smoke High Density (SP Mix)