



JEM ZR45

The JEM™ ZR45 is a high-end fog machine designed to deliver superior and uninterrupted performance in demanding professional applications. Via its enhanced and powerful 2,000 W heat exchanger, the JEM ZR45 produces an exceptional peak output ideal for major venues and stages in both install and rental markets.

The rugged yet weight-optimized JEM ZR45 also features variable output control for more subtle effects and is fully up-to-date with digital remote, DMX and RDM.

The entire JEM ZR range is compatible with a wide range of JEM Pro fog fluids. As machines designed and built to last, the JEM ZRs will continue to perform with great output and low consumption.

GALLERY



High endurance high-end fog machine

Exceptional performance and output

Various control options via digital remote, DMX and RDM

FEATURES

- 2,000 W (EU model) / 1,800 W (US model) heat exchanger
- 80 ml in 30 seconds peak performance
- 1300 m³/min fog output
- Variable output control for subtle effects
- 9-10 minute warm-up time
- Digital remote, DMX and RDM
- Compatible with a wide range of JEM Pro fog fluids
- Floor standing or truss mounting (bracket included)
- PowerCON TRUE1
- 5-liter bottle

TECHNICAL SPECIFICATIONS

Physical

Length: 602 mm (23.1 in.)

Width: 395 mm (15.6 in.)

Height: 306 mm (12.1 in.)

Height including hanging bracket: 393 mm (15.5 in.)

Weight, dry: 17.7 kg (39.1 lb.)

Weight, filled: 22.7 kg (50 lbs.)

Performance

Coverage volume: 1300 m³ (45,909 ft³) per minute

Fluid consumption (max.): 210 ml per minute

Continuous effect output

Ready time: 10 minutes

Control and Programming

Control options: Integrated digital remote control, DMX, optional analog remote control, master/slave link mode, PLC (0-10V)

Control parameters: Continuous or timer-controlled output

Fog: Variable output control, 0-100%

DMX channels: 1

DMX compliance: ANSI E1.11 - USITT DMX512-A

RDM compliance: ANSI/ESTA E1.20 RDM

Construction

Housing: Steel and aluminum

Hanging bracket: Integrated yoke w/safety attachment point

Color: Black

Heat exchanger (US model): 1800 W, thermally protected
Heat exchanger (EU model): 2000 W, thermally protected
Fluid pump: Dual oscillating piston, high pressure
Fluid management: Fluid out sensing, sealed for transportation
Fluid reservoir: 5 l drop-in reservoir with quick-connect fitting
External fluid control: Fluid sensing
Remote control: Integrated Digital Remote with 3 m cable, 3-pin XLR

Installation

Mounting: Standing or hanging
Orientation: Up to +/- 40° from horizontal
Clearance around machine: 100 mm (4 in.)

Connections

AC Power: Neutrik PowerCON TRUE1
DMX, link mode in/out: 5-pin locking XLR
Remote control: 3-pin locking XLR
Firmware: AVR socket

Electrical

EU model:

AC power: 220-240 V nominal, 50/60 Hz
Main fuse: 12.5 AT (slow blow), 250 V
Typical power and current: 2100 W, 9.2 A*

US model:

AC power: 100-130 V nominal, 50/60 Hz
Main fuse: 20 AT (slow blow), 125 V
Typical power and current: 1800 W, 15 A*

**Measurements made at nominal voltage. Allow for a deviation of +/- 10%.*

Thermal

Maximum ambient temperature (Ta max.): 40° C (104° F)
Exterior surface temperature, steady state: 30° C (86° F)
Max. nozzle temperature: 290° C (554° F)
Minimum ambient temperature (Ta min.): 5° C (41° F)

Approvals

EU model
EU safety: EN 60335-1+A15, EN 62233
EU EMC: EN 61000-6-3
EU immunity: EN 61000-6-1
Australia/NZ (pending): RCM
US model
US safety: UL 998
Canadian safety: CSA C22.2 No. 104.01

Included Items

Fluid reservoir, 5 l: P/N 34300506
JEM™ ZR Series Digital Remote Control: P/N 92765048
Power input cable, EU, powerCON TRUE1, stripped ends, 3 m (9.8 ft.): P/N 11501043
Power input cable, US, 20A, powerCON TRUE1, molded NEMA 5-20P, 2 m (6.6 ft.): P/N 11501046

Accessories

JEM™ ZR45 Ducting System with 5 m (16.4 ft.) ducting: P/N 92625014
JEM™ ZR Series PLC Interface: P/N 92765049

Power cables

Power input cable, H07RN-F, 2.5 mm², 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 1.5 m (4.9 ft.): P/N 91611797
Power input cable, H07RN-F, 2.5 mm², 14 AWG, bare ends to Neutrik TRUE1 NAC3FX-W (female), 5 m (16.4 ft.): P/N 91611786

Power connectors

Cable connector, Neutrik PowerCON TRUE1 NAC3FX-W (female): P/N 91611789

Approved fluids

JEM™ Pro Smoke Studio
JEM™ Pro Smoke Super
JEM™ Pro Smoke High Density
JEM™ I-Fog Fluid
JEM™ Pro Steam Simulation
JEM™ Pro Clean Supreme

Various sizes available - contact your dealer or see 'Fluids' product pages for details

Installation hardware

G-clamp: P/N 91602003
Half-coupler clamp: P/N 91602005
Quick trigger clamp: P/N 91602007

Service tools

Epsilon 5 AVR Programmer: P/N 50502004
Temperature Calibration Box: P/N 92620005

Ordering Information

JEM™ ZR45, EU: P/N 92215360
JEM™ ZR45, US: P/N 92215370

