



# 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.

High endurance high-end fog machine

Exceptional performance and output

Various control options via digital remote, DMX and RDM

## GALLERY



## FEATURES

- 2,000 W (EU model) / 1,800 W (US model) heat exchanger
- 80 ml in 30 seconds peak performance
- 1300 m<sup>3</sup>/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 m<sup>3</sup> (45,909 ft<sup>3</sup>) 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, master/slave link mode, optional PLC interface  
 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

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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  
Optional PLC interface: 3- and 4-pin locking XLR

#### 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.) 4" flexible ducting: P/N 92625014  
JEM™ ZR Series PLC Interface: P/N 92765049

#### Approved fluids

JEM™ Pro Smoke Studio  
JEM™ Pro Smoke Super  
JEM™ Pro Smoke High Density  
JEM™ I-Fog Fluid  
JEM™ Pro Steam Simulation  
RUSH™ Fog Fluid  
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  
Safety cable, SWL 60 kg, BGV C1/ DGUV 17, black: P/N 91604006

#### 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

