

JEM Glaciator X-Stream



GALLERY



The JEM™ Glaciator X-Stream creates a total ground fog effect from a self-contained unit (no CO2 or dry ice required). It requires only a power source and the simple but effective JEM™ heavy fog fluids available in three densities for differing low-fog effects.

The Glaciator X-Stream houses a remarkably powerful compressor, allowing colossal fog output levels. And because of its advanced, electronically controlled expansion valve, it has a rapid freeze down time and a fast recovery when fired. This means the Glaciator X-Stream has a continuous effect output, almost infinitely, with a cool ease. Its chassis design, with two high velocity fans and smart-flow ventilation, also keeps the Glaciator X-Stream ticking in environments of high ambient temperatures; up to 40° C (104° F). Featuring a power save system when passive, the Glaciator X-Stream is conscientiously efficient with energy and sound, and its cooling fans have a low noise operation when idle, benefiting theatrical and studio applications.

The Glaciator X-Stream has the option of an external fluid supply; allowing voluminous levels of fog fluid to be stored up to 100 meters away from the unit and at a head height of up to 6 meters. Where silence is golden and space is rare, the optional ducting system allows you to place the unit up to 10 meters away from its application area. A great solution, the remote access system does not in any way compromise the fog output density. The JEM™ Glaciator X-Stream is the benchmark in low-fog production for use in touring and installation live performance applications such as theater, nightclubs, television, studio, film production, and live performance.

Self-contained low-fog solution

Robust feature set

Actors' Equity/Broadway League Approved

FEATURES

- Robust tour-ready industrial design
- Self contained unit: no CO2 or dry ice
- Onboard DMX and PLC control
- Dual digital control panels
- Density control: low, medium or high
- Continuous effect output
- Diverse fluid options for differing effects
- Internal or external fluid supply
- Low fluid sensing
- Optional ducting system and remote control

TECHNICAL SPECIFICATIONS

Physical

Length: 866 mm (34 in.)

Width: 638 mm (25.1 in.)

Height: 744 mm (29.3 in.)

Height without castors: 600 mm (23.6 in.)

Weight, dry: 110 kg (242.5 lbs.)
Weight, filled: 115 kg (253.5 lb.)

Performance

Coverage volume: 80 m³ (2825 ft³) minute
Fluid consumption (max): 110 ml minute
Continuous effect output
Ready time (min-max): 15-45 minutes, longer cooling period yields colder fog

Control and Programming

Control options: Dual digital control panel, DMX, optional analog remote control, PLC
Control parameters: Continuous or timer-controlled output
Fog/Density: Proportionally controlled output, 0-100%
DMX Addressing: Analog DIP Switches
Special Functions: Analog DIP and control switches
DMX channels: 2
DMX compliance: ANSI E1.11 - USITT DMX512-A

Construction

Housing: Steel & aluminum
Color: Black and silver
Portability: Removable castors
Heat exchanger: 3500 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 or external source
External fluid control: Fluid demand, low-fluid sensing
Refrigeration: Closed loop system, dual speed condenser fans, electronic expansion valve
Refrigeration control: PWM electronic control
Refrigerant: R404A, 1.2 kg (2.65 lb.)
Optional ducting kit: Black, aluminum, dual ducting adaptor, 2 x 5 m (16.4 ft.), 150 mm (6 in.) flexible ducting included
Optional remote control: Analog timer remote control, 3-pin XLR, 5 m (16.4 ft.) cable included
Remote control cable length (Max.): 25 m (82 ft.)
Optional fluid drain pipe kit: Includes tubing adaptor elbow, and 2 m (6.6 ft.), 6 mm ID, flexible drain hose

Installation

Standing floor use only
Orientation: Horizontal Only
Clearance around machine: 0.5 m (20 in.)
External fluid system (optional): See user manual or contact Martin Professional
External fluid tubing (optional): Requires Nylon or PTFE tubing, 10 bar (145 psi) minimum rating
Ducting: Optional, max length 10 m (32.8 ft.)

Connections

AC Power (EU model): IEC Pin & sleeve (CEEform), inlet, 32 A, 2P-3W, 220-240 V
AC Power (US model): Hardwired flexible mains cable, 3 x 4.0 mm² (6 AWG), 3.3 m (10.8 ft.)
DMX in/out: 3-pin locking XLR
Remote control: 3-pin locking XLR
PLC Interface/external fluid signaling: D-sub, DB-9, female inlet
Firmware: AVR socket
External fluid inlet: Push-to-connect tubing inlet, valved, 6mm (0.24 in.)
Fluid drain pipe: 8 mm threaded, 1/8" BSP

Electrical

EU Model

AC Power: 220 - 240 V, 50 Hz
Integrated resettable fuse: 25 A circuit breaker

US model

AC power: 208 V, 60 Hz
Integrated resettable fuse: 25 A circuit breaker

Typical Power and Current

EU model

220 V, 50 Hz: 4483 W, 20.3 A*
230 V, 50 Hz: 4900 W, 21.3 A*
240 V, 50 Hz: 5335 W, 22.23 A*

US Model

208 V, 60 Hz: 4200 W, 22.5 A*

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

Thermal

Maximum ambient temperature (Ta max.): 40° C (104° F)
Minimum ambient temperature (Ta min.): 5° C (41° F)
Exterior surface temperature, steady state: 50° C (122° F)
Maximum nozzle temperature: 200° C (392° F)

Approvals

EU safety: EN 60335-1+A15, EN 62233
EU EMC: EN 61000-6-3
EU Immunity: EN 61000-6-1

Calibration factors have been developed and approved by the Actors' Equity Association and the Broadway League for use in measuring theatrical fog with the JEM™ Glaciator X-Stream and JEM™ Heavy Fog Fluid, C3.:

Included Items

Fluid reservoir 5 l: P/N 34300506
Drip tray: P/N 26564230
Mains power, EU, IEC pin & sleeve connector, 32 A, 2P-3W, 220-240 V: P/N 05327240

Accessories

Analog remote control: P/N 92765013

JEM™ Glaciator X-Stream, Fluid Drain Pipe Kit: P/N 92620004

JEM™ Glaciator X-Stream, Ducting Kit: P/N 92625007

Approved Fluids

JEM™ Heavy Fog Fluid, A1

JEM™ Heavy Fog Fluid, B2

JEM™ Heavy Fog Fluid, C3

JEM™ Pro Clean Supreme

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

Service Tools

Epsilon 5 AVR Programmer: P/N 50502004

Temperature Calibration Box: P/N 92620005

Ordering Information

JEM™ Glaciator X-Stream, EU: P/N 92210500

JEM™ Glaciator X-Stream, US: P/N 92210501

