TECHNICAL SHEET

Code 34100001 - Rescue Cushion LIFE JUMP 100A

Big fires in buildings with more floors than normal can often cause of major problems in rescue operations, as traditional evacuation methods have significant limitations: the number of people who can be evacuated from upper floors; time taken to carry out such an operation; difficult direct access to the rescue zone (inner courtyards, narrow roads, hilly or loose ground, stairs). **LIFE JUMP 100A** offers a realistic and efficient solution to such problems.

The **LIFE JUMP 100A** safety cushion has been studied and produced in co-operation with market leaders in the fields of ventilation and plastics using certified raw materials and ISO 9002 quality control systems.

LIFE JUMP 100A is the result of the development and improvement of a 1974 American design.

LIFE JUMP 100A is the right device for people jumping from great heights in emergency rescue situations and can also be used in fire fighting training as long as the manufacturer's instructions are followed. Produced in self-extinguishing, waterproof, anti-acid, highly tear and abrasion resistant material, guarantees an excellent level of reliability and strength. Working at low pressure the cushion can stand small tears or breakages without its properties as a rescue device being compromised.

LIFE JUMP 100A consists of three basic elements, two fans and an inflatable cushion, is easy to use -three operators are enough to prepare the cushion in about 5 minutes, inflation itself taking no more than 90 seconds once the fans are turned on. Re-inflation is granted in 30 seconds after each jump.

LIFE JUMP 100A is about 2,75 meters high and has a surface area of 45,6m². Weight without fans is about 230 kg. The jumping cushion can be assembled at sites that pose access problems or even on the roofs of parked cars. The two helical electric fans provided are perfectly suited for use with the cushion; they have IP 55 motors, are supplied with 30m self-extinguishing connecting cables, plugs according to the CE IP 67 norm and can be powered either from the mains or by the generators normally supplied on vehicles in use in Fire Brigades. The fans can even be used in rainy conditions.

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Component	Characteristic	Value
TYPE 630 FAN (UPPER CHAMBER)	DIMENSIONS	800 × 800 × 330 [mm]
	WEIGHT	42 [kg]
	CAPACITY	8910 [m^3/h]
	TOTAL PRESSURE	164 [Pa]
	INTERNAL LOSS OF CHARGE	47 [Pa]
	USEFUL STATICS PRESSURE	117 [Pa] (T=15°C)
	INSTALLED POWER	1,1 [kW] (4 pole 230 V - 50 Hz)
	STROKES	1435 [rpm]
	ABSORPTION	2,8 [A]
	GEARS	9 elements in resin plastic, shaft in Al
	HEATING RESISTANCE	+ 50° C
	FRAME	Galvanized holder plate
	GEAR'S PROTECTION	Grill in steel wire (UNI 9219 DIN 31001)
	ACOUSTIC PRESSURE	65 [dB] ISO 3744
TYPE 500 FAN (LOWER CHAMBER)	DIMENSIONS	650 × 650 × 280 [mm]
	WEIGHT	30 [kg]
	CAPACITY	3150 [m^3/h]
	TOTAL PRESSURE	170 [Pa]
	INTERNAL LOSS OF CHARGE	21 [Pa]
	USEFUL STATICS PRESSURE	149 [Pa] (T=15°C)
	INSTALLED POWER	0,55 [kW] (4 poles 230 V - 50 Hz)
	STROKES	1010 [rpm]
	ABSORPTION	1,6 [A]
	GEARS	8 elements in resin plastic, shaft in Al
	HEATING RESISTANCE	+ 50° C
	FRAME	Galvanized holder plate
	GEAR'S PROTECTION	Grill in steel wire (UNI 9219 DIN 31001)
	ACOUSTIC PRESSURE	68 [dB] ISO 3744
JUMPING CUSHION	Inflated cushion's dimensions	6 × 7,60 × 2,75(H) [m]
	Useful surface	45,6 [m^2]
	Volume of deflated cushion	1,5 [m^3] (fans excluded)
	Weight	230 kg
	Material	Coated polyester PVC – 100% PES 1100 dtex

COMPONENTS	JUMP SURFACE	BOTTOM	SIDE & REST
Breaking Strength (EN ISO 1421:1998)	Warp 3000 N/5 cm Weft 2800 N/5 cm	Warp 4000 N/5 cm Weft 3500 N/5 cm	Warp 2500 N/5 cm Weft 2300 N/5 cm
Tear Strength (DIN 53363:2003)	Warp 300 N Weft 280 N	Warp 600 N Weft 500 N	Warp 250 N Weft 200 N
Working Temperature (DIN EN 1876-2:1998)	-30 °C/ + 70 °C	-30 °C/ + 70 °C	-30 °C/ + 70 °C
Fire Behavior	M2 – NFP 92507:2004	M2 – NFP 92507:2004	ADR Class II – UNI 8456 – UNI 9174
Light Fastness (ISO 105 B02:1998)	7-8 (Except white and semi-transparent)	7-8 (Except white and semi-transparent)	7-8 (Except white and semi-transparent)

All stitching on the LIFE JUMP cushion is made of yarn with a polyester core and cotton cover (80% polyester, 20% cotton). Holding strength σ=10,850 g elongation Δρ/ρ =25,5% tensile strength 44,5 g/TEX. Welding is performed by ultrasonic min. 12 kW.

BOTH FANS ARE SUPPLIED WITH 15 m EXTENSION CABLES

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