



The MILAGRO 2 inflatable rescue cushion is designed to evacuate personnel from danger zones, especially from higher floors of burning buildings. The base of the cushion is a pneumatic chassis made of gas-tight inflatable gummed fabric.

After inflation, which takes 40-60 seconds, the chassis forms a cubicoid-shaped frame with octagonal base whose one side is about 1.92 meter long. The inflatable rescue cushion has maximum external dimensions of 4,64m x 4,64m (dimensions of a square which the octagonal base inscribes into). After inflation the entire device is 2.30m high. The pneumatic chassis is a load-bearing frame for external walls and jumping cushion.

To facilitate swift and easy deployment, the inflatable rescue cushion is equipped with its own inflation power source – a 10dm³ compressed air tank with filling pressure of almost 30 MPa. After opening the compressed air tank valve, the chassis inflates automatically. Simultaneously, the internal chamber of the inflatable rescue cushion fills with ambient air through openings in the jump cushion's walls.

During a rescue operation, when the rescued individual jumps onto the surface of the inflatable rescue cushion the pneumatic chassis bends and the internal volume of the chambers lowers. Concentrated air is released in a controlled manner through the side openings in the cushion's walls. Once the weight of the individual is removed from the cushion, the chassis lifts automatically. The inflatable rescue cushion is ready to receive another jumper after about 20 seconds. The frequency if jumps is determined by the time required to remove the jumper from the jump cushion. There is no need to inflate the chassis with compressed air again during a rescue operation. To direct the jump more accurately, the center of the cushion's jumping surface is marked with a black circle.

The estimated service life of the inflatable rescue cushion is 15 years, provided a regular inspection recommended by manufacturer is performed.

A folded inflatable rescue cushion with air tank forms a small package with the dimensions of 1.7 x Ø 0.5m, weighing 123 ± 3 kg. The MILAGRO 2 inflatable rescue cushion has CNBOP products acceptance certificate, maximum evacuation height is 16 meters.

Technical parameters

Length x width x height (maximum)	4640 x 4640 x 2300 [mm]
Total weight (with a 10 dm ³ compressed air tank)	123kg (±3 kg)
Weight (without air tank)	100 kg (±3 kg)
Dimensions, when packed	1.7 x Ø 0.5 [m]
Personnel required for operating	4 people

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