

EU-Type Examination Certificate

No. P6A 063329 0011 Rev. 00

Holder of Certificate: **EVOC Sports GmbH**

Tegernseer Landstr. 37A
81541 München
GERMANY

Product: **Personal Protective Equipment against burying
in a snow avalanche**

**RAS 3.0 Avalanche airbag system in snow
avalanche airbag backpack**

Model(s): **EVOC LINE R.A.S. 20I; Removable Airbag System 3.0
EVOC LINE R.A.S. 30I; Removable Airbag System 3.0**

Tested according to: EN 16716:2017

The Certification Body of TÜV SÜD Product Service GmbH confirms that the listed product fulfils the basic requirements with Annex V (Module B) of Regulation (EU) 2016/425 on personal protective equipment according to Article 19 (PPE of category II). This certificate refers only to the submitted sample for testing and certification and on its technical documentation.

For details see: www.tuvsud.com/ps-cert

Test report no.: 713140026/10

Valid until: 2025-04-16

Date, 2020-08-27



(Matthias Völz)

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Parameters:

Function Principle:	An airbag which improves buoyancy and floatability in a floating snow avalanche, what improves the probability of staying on the surface significantly (effect of inverse segregation). Activation of airbag filling by the user via pulling a release handle, what activates via steel wire cable a needle in the pressure gas cylinder ejector, which penetrates the cylinder sealing of the pressure gas cylinder;
Airbag volume:	150 liters;
Filling principle:	Pressure gas filling combined with Venturi valve effect;
Pressure gas cylinder:	3 versions: -300 bar composite cartridge (for EU market), 0.25 l content; not refillable; filled with nitrogen (test certificate no.: 06.165.766; TÜV SÜD Czech); -300 bar steel cartridge (for EU market), 249 ml content; not refillable; filled with nitrogen (test certificate no.: 29/06/0012 Rev. 2; SGS-TÜV); -207 bar aluminium cartridge (for North America market), 360 ml content; refillable; filled with dry air (test certificate no.: USA-07-09-105-001 from TÜV Süd Industry Service GmbH); with valve (test certificate no.: 0036-032-07 Rev. 2; TÜV SÜD Industrie Service) and gauge;
Airbag system:	Removable Airbag System (R.A.S.): Airbag components can be removed from the backpack by 4 aluminium clips;
Activating system:	deployment handle release with one 1 mm stainless steel cable to release needle of pressure gas cylinder ejector; positioned in pocket at shoulder straps under zipper cover;
Deployment handle:	foldable plastic handle, 92,5 mm x 24 mm x 20mm with a pinpress arretation; end hook made of aluminium for adjusting the handle on the shoulder straps in 3 different positions (S-M-L); deployment by pulling deployment handle: inner part moves out for app. 5 mm against spring;
Ejector (Airbag inflation system):	device where deployment handle, pressure gas cartridge and airbag are attached to; with plastic net cap for venturi input and air release; fixed in airbag pocket and cartridge pocket;

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Airbag position:	balloon integrated in a pocket of the main bag of backpack/ vest close to neck area; zipper cover with release point on top;
Airbag:	pillow-shaped coated PA 66 fabric in orange colour, stitched and sealed (glued); connected to ejector tube with a 100 mm long tube opening with 1 steel clamp closure in textile channel;
Backpack fixation of airbag:	connected to backpack with 4 colour coded stitched loops (15 mm wide PA-webbing) with T-Bar (45 mm x 10 mm x 3 mm, aluminium) on airbag and 4 colour coded stitched textile loops (15 mm wide PA-webbing) at the inner backpack frame construction;
Backpack fixation at user:	2 shoulder straps with chest strap, 1 hip belt and 1 leg belt;
Marking:	-on the backpack: type; CE, "read instructions" pictogram, manufacturer address; manufacturing date; -on ejector: manufacturing date; CE-marking, serial no., manufacturer address; "read instructions"-logo; -on the airbag: type, batch no. Mammut
Backpacks:	div. versions for cross country skiing and snowboarding; with airbag stuffed in the shoulder straps of the backpack and in an extra pocket of the upper back part of the backpack together with pressure gas cartridge and ejector; main bag for gear storage; fixation buckles and slings for skis, snowboards, helmet and ice tools; storage for probe and shovel; aluminium plug-in buckle at hip belt; aluminium buckles at shoulder straps, plastic buckles at chest strap and plastic adjustment buckle at leg loop; in different torso sizes;
Weight:	- RAS 3.0 System: 1483 Grams (including steel cartridge); steel cartridge: 440 Grams; carbon cartridge: 328 Grams; -EVOC LINE R.A.S. 20l: 1881 g (without gas cartridge) -EVOC LINE R.A.S. 30l: 2099 g (without gas cartridge);
old EC type examination certificate	P6 17 12 63329 008
old Technical Report:	713117559

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undeveloped airbag system with cartridge, Venturi unit and packed airbag



Venturi unit with airbag attachment



RAS backpack with opened airbag



deployed RAS airbag backpack

Backpack models:

EVOC Line R.A.S. 20l



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EVOC Line R.A.S. 30l

