

DUCT ECO / DUCT A ECO

ISOLATING FRESH AIR RESPIRATORS

P/N 14000ECO0/ 14001ECO0

DUCT is a range of Isolating Fresh Air Respirators with full facemask designed to be used in **confined spaces** such as tanks, silo, wells, sewer systems, etc., restricted spaces where the air ventilation can suddenly change modifying the concentration of the toxics present in the atmosphere. Areas where it is possible to take uncontaminated air from the surrounding environment without addition of compressed air.

DUCT is available in two versions:

- **DUCT ECO, , unassisted** fresh air respirator, it uses for breathing the lung power only.
- **DUCT A ECO assisted** fresh air respirator, the respiration is facilitated by an electric fan. It can be used by two operators simultaneously.

The operating principle is the same for both versions: the operator breathes air coming from outside the polluted area through a corrugated hose.

DUCT is a device of extremely simple use, easy and intuitive, ideal for unskilled workers and requires a basic training only.

The hose, in position over the shoulders, grants easy movements. Its reduced weight and the case with handles make the set easily transportable.

DUCT requires low level of maintenance operations.

TECHNICAL DESCRIPTION

DUCT ECO (unassisted) and **DUCT A ECO (assisted)** are composed by a **supporting harness** with adjustable waist-belt and shoulder-belt provided with velcro clasp to fix the breathing hose on shoulders allowing the operator to easily move in narrow spaces.

The **manifold**, placed at the waist-belt, joins the breathing hose and the feeding hose. In the assisted version the manifold comes complete with an overflow valve.



**DUCT A ECO
ASSISTED**

The **breathing hose** has a standard thread connector to EN 148-1 for the part connecting to the full facemask and a special thread for the connection to the manifold.

The **feeding hose** comes in 10 m cuts.

For **DUCT ECO (unassisted)** the maximum length is 20 m while for **DUCT A ECO (assisted)** the length can be up to 60 m when used by one operator or 30 m when used by two operators* simultaneously.

* The length of the hose must be the same for both operators

A snap-in connector gives the chance to link cuts in order to reach the required length.

For **DUCT ECO (unassisted)** the end of the feeding hose is fitted with a **filter** whose purpose is to prevent the accidental penetration of external corpuscles such as dusts, pebbles, etc. While for **DUCT A ECO (assisted)**, the end of the feeding hose is directly connected to an electrical **fan**.

Both the filter and the fan have a **fixing peg** to hold the end of the hose in position.

All the components comes contained in a stiff plastic box with guarantee seals which makes **DUCT** easy to store and carry.

A wide range of **TR 82** and **TR 2002**, to be ordered separately, can be chosen as mask.



**DUCT ECO
UNASSISTED**

CLASSIFICATION

DUCT ECO and DUCT A ECO are Respiratory Protective Devices - Fresh air hose breathing apparatus for use with full face mask. They fulfil the requirements of Regulation (EU) **2016/425**, as PPE of IIIrd category and of **EN 138:1994** technical standard, classified as class 2 apparatus (heavy construction).

MARKING

CE 0426



TECHNICAL DETAILS

PERFORMANCES - Breathing resistance

DUCT ECO - Unassisted

	Inhal. Res. with mask 25x2 l/min (mbar)	Inhal. Res. without mask 25x2 l/min (mbar)	Exhal. Res. with mask 25x2 l/min (mbar)
<i>EN 138 requirement</i>	< 10	< 7.5	< 3
Results - Hose 10 m	4.8	4.8	2.2
Results - Hose 20 m	8.9	7.2	2.1

DUCT A ECO - Assisted

	Inhal. Res. with mask 25x2 l/min (mbar)	Inhal. Res. without mask 25x2 l/min (mbar)	Exhal. Res. with mask 25x2 l/min (mbar)
<i>EN 138 requirement</i>	< 4.5	< 7.5	< 10
Results - Hose 10 m - fan at minimum	2.6	< 7.5	7.2
Results - Hose 10 m - fan at maximum	3.0	< 7.5	7.3
<i>EN 138 requirement</i>	< 10	< 7.5	< 3
Results - Hose 60 m - fan at minimum	2.3	4.9	< 3-
Results - Hose 60 m - fan off	2.9	n.a.	n.a.

The average values reported were measured with the TR 82 model mask.

OPERATING TEMPERATURE

The device must not be used outside the temperature range of EN 138 (-6°C ÷ +40°C).

MATERIALS

Full face mask:	See technical data sheets for TR 82 and TR 2002 masks
Breathing hose:	PU V0
Feeding hose:	PVC
Harness:	PES Flame retardant

STORAGE

Store at temperatures between -20 and +50°C and with relative humidity less than 80%.

DIMENSIONS / PACKAGING

The respirator is contained in a plastic container with a lid having the following dimensions: 600x400x367 mm.

For more information please check the notes along with the products or the ones published on the website www.spasciani.com

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