

RC 4603

Compressed air line supply unit on trolley

Mod. P/N 151410000

RC respirators are ideal for the protection of the operators involved in long duration works in chemical plants, polluted areas and, generally, in all cases where there is, or may be, oxygen deficiency and long autonomy is needed. The compressed air line supply unit model **RC 4603** is one of the main components of the breathing apparatus with demand valve.

RC respirators are made of a mobile supply unit mounted on a trolley able to feed, depending on the additional equipment required, up to two operators at the same time at a max distance of 50 metres from the cylinder. For every operator a medium pressure supply hose, a carrying belt, a demand valve and a mask are required. The demand valve, the mask and the general working principle of the reducer on the supply unit are exactly the same used for Spasciani breathing apparatus type **RN** and **BVF** and they bring back to the general description of the **MK2** system.

RC 4603 supply unit is mounted on a two tyres trolley provided with a reel for the tube. The trolley is also provided with the RB pressure reducer, which maintains the outlet medium pressure constant independently from the pressure in the cylinder, two pressure gauges that continuously read the high and medium pressure, the alarm whistle which activates simultaneously with the alarm on the demand valve and a quick coupling for the connection of a tube for a second operator. The trolley is provided with two high pressure tube to connect two 300 bar cylinders (to be ordered separately) equipped with EN 144 valve. The high pressure tubes are provided with release valves to replace cylinders when in use.

The connection of the feeding system to the demand valve is made by 8x17 medium pressure hoses available in different lengths and provided with quick safety couplings to be ordered separately. Two hoses can be connected to the trolley, one by the reel and the other by the second coupling on the reducer. The medium pressure hose shall be carried along by the user carried by the special carrying belt provided with snap hook.

The demand valve used in the **RC** respirators shall be type **A** or **BN**. The two types only differ for the connection to the mask. Demand valve **A** type is provided with standard screw connector to EN 148-3 (M45x3) while type **BN** is provided with snap in connector to DIN 58600. Type **A** demand valve may be used with **TR 82 A** or **TR 2002 A** masks while type **BN** only with **TR 2002 BN**.

In both models the positive pressure is automatically activated by the first breath in and maintained in the face piece thus impeding any possible inlet of contaminated air from outside. In case of need the positive pressure may be manually activated by a front button on the demand valve that also permit to have an extra flow. The demand valve is connected to the medium pressure hose by means of a male quick coupling.

The masks that can be used on **RC** respirators are **TR 82 A**, **TR 2002 A** or **TR 2002 BN** (see specific data sheet for the technical features). They must be compatible with the demand valve used.

The respirator takes advantage from the unique **MK2 System** warning built into the demand valve. This is activated when the pressure left in the cylinder drops below 35 bar. The signal originates from a sounding vibration caused by every inhalation. In this way the full capacity of cylinder is made available to the user for breathing.





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The acoustic warning is related to the respiratory frequency of the user and allows the user to distinguish his own signal from that emitted by nearby fellows or noise (**Self Test** Function). The location of the warning device protects it from frost or dirt.

RC respirators may be used in conjunction with back up self contained breathing apparatus **BVF BU**, connected through a four-way valve and worn by the user. The breathing apparatus activates when for every reason the feeding from the air line system is interrupted and enable to get out from the dangerous area.

TECHNICAL DATA:

RB pressure reducer: piston with compensator

Demand valve: with integral alarm device and supplementary supply button

Setting of the alarm at the demand valve and at the trolley: 55 ± 5 bar

Volume/pressure of Cylinder: 6 l/ 300 bar

Number of cylinders: 4

Feeding hoses: diameter 8x17, available in different sizes (max 50 meters)

Air reserve: 6600 N litres

Duration: 220 min with an average consumption of 30 l/min and with one operator

CLASSIFICATION

Certified to **EN 14593-1:2005** and meeting with directives **98/686/EEC (PPE)** and **97/23/EC (PED)**.

MARKING



MATERIALS

Mask:	See specific data sheet
Carrying belt:	Self-extinguishing webbing and metal snap hook
Reducer:	Nickel plated aluminium
Alarm and feeding block:	Nickel plated aluminium
Automatic Demand Valve:	Glass fiber reinforced nylon housing
Feeding hoses:	Non-toxic SBR provided with special clamped quick connectors
Cylinder:	Steel



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STORAGE

Store at temperatures between -20 and +50 °C and with RH <80%

WEIGHT

70 Kg approx. with fully charged cylinders (without masks and hoses)

DIMENSIONS

540 x 500 x 116 mm

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

NOTE: SPASCIANI SpA does not take any responsibility for any possible and unintentional mistake and reserve the faculty of modify materials and technical characteristics of its products at any time and without any notice.

