

## RC 4603

### Compressed air line supply unit on trolley with four 6 l cylinders P/N 1514100CJ

**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 with four 6 l cylinders** is one of the main components of the breathing apparatus with demand valve.

**RC 4603** 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**.

**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 four high pressure hoses to connect four 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 a medium pressure hose 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 (M 45x3) 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** with **TR 82 B** or **TR 2002 BN** masks. 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 respirator takes advantage from the warning device built into the demand valve. This is activated when the pressure left in the cylinder drops below 55 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. 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 apparatus **BVF-BU** or **FUGE TAIL** models, connected through a three/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.





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### TECHNICAL DATA

**RB pressure reducer:** piston with compensator

**Demand valve:** with integrated alarm device and supplementary air supply button

**Setting of the alarm at the demand valve and at the trolley:**  $55 \pm 5$  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 complies with the provisions of the **PPE Regulation 2016/425/EU** and **PED Directive 2014/68/EU**.

### MARKING



### MATERIALS

**Mask:** See specific data sheet

**Carrying belt:** Self-extinguishing webbing and metal snap hook

**Pressure reducer and feeding block:** Anodised aluminium

**Alarm:** Chrome-plated brass

**Automatic Demand Valve:** Glass fiber reinforced nylon housing

**Feeding hose:** Non-toxic rubber provided with clamped quick connectors Eurocoupling type, antistatic

**Cylinder:** Steel

### STORAGE

Store at temperatures between  $-20$  and  $+50^{\circ}\text{C}$  and with  $\text{RH} < 80\%$ .

### WEIGHT

70 Kg approx. with fully charged cylinders (without mask/regulator and feeding hose).

### DIMENSIONS

50 x 53 x 116 cm (L x W x H).

The system may be delivered in wood cages.

For more information please check the notes along with the products or the ones published on the website: [www.spasciani.com](http://www.spasciani.com)

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