

INSTRUCTION MANUAL

Doc. no. MN4021E Rev. A - Feb 2016



Miniatura Paintspray Hood



Technical data

Nominal protection factor (NPF)	:	100 according to ZH 1/701
Window classification	:	EN 166, EN 170
Operating pressure minimum	:	min.: 5 bar (73 psi) - max.: 6 bar (88 psi)
Airflow	:	min.: 130 ltr/min. - max.: 240 ltr/min.
Ambient use temperature	:	min.: -10 degrees C. - max.: 60 degrees C.
Maximum hose length	:	10 metres
Weight on the head	:	700 gr.

Statutory requirements and regulations

89/686/EG	:	European guideline for personal protective devices (89/686/EG).
Standard EN 270	:	Respirators with compressed air hose supply
System approval by	:	EXAM - BGG Prüf- und Zertifizier GmbH, Am Technologiepark D-45307, Essen (German institute for research and testing)
Law on technical provisions (D)	:	Applicable only for Miniature paintspray helmet. This product has the GS mark of approval.
ZH/1/701 (D)	:	Recommendations for the use of respiratory protective means. Published April 1994.
Standards DIN 58648-LD (D)	:	Respirators with compressed air hose supply.
Standard EN1865	:	Respirators with compressed air hose supply: light designs.
Standards DIN 3188 (D)	:	Breathing air.

WARNING

Within the boundaries of the European guidelines for Personal protective devices 89/686/EEC, only approved and appropriately marked "CE approved" protective devices may be marketed and used. Use of substitute, non-original spare parts, invalidates the CE approval and, also, all rights regarding guarantee, whereby the user, and also the person initially marketing these spares shall be punished by the relevant authorities of the EEC member countries, where additionally the entire product will be excluded from use and withdrawn from commercial transactions respectively. Original spares can be recognized by the affixed code numbers, supplemented with the manufacturer's mark and the "CE approval possibly supplemented with a year of applicability.

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1.0 - INTRODUCTION

1.1 Objectives, field of application and conditions for use

The hood is used in a working environment where protection of the respiratory organs, face and head is required against particles, mists, vapors and gases.

When the hood is connected to compressed air system, via the compressed air supply hose and the compressed air filter system, the filtered air flows through the entry vent at the front of the air hood. The required flow of air can be adjusted by the regulator. The integral air flow indicator displays whether sufficient air is passing into the paintspray helmet. The disposable windows fitted against the helmet window can be removed when polluted. This can be done by pulling them out of the clamp in the direction shown as "pull".

1.2 Limitation of usage - the system is not suitable for use in areas with:

- Intense heat radiation, open fires, risk of explosion, an oxygen level lower than 19% or when extremely high concentrations of hazardous matter causing immediate health risk are present.
- When the ambient temperature is below freezing point, the humidity in the compressed air circuit can result in icing-up of coupling or regulator, blocking the further supply of air. In such cases, prior to use, it is necessary to determine that the humidity content in the compressed air (at atmospheric pressure) is less than 50 mg/m³, and is in accordance with DIN 3188 part 3.5. Generally available compressed air circuits do not usually comply with this requirement.
- The maximum length of the compressed air supply hose is 10 mtrs.
- Upon extreme human effort it is possible that a temporary negative pressure occurs in the helmet resulting in a reduction in the protection factor of the system.
- Air speeds in excess of 2 m/sec. can affect the protection factor of the Miniatura paintspray helmet.
- The ambient usage temperature should be between the limits of -10° C. and +50° C.
- When combined use is made of the compressed air, for the hood and air tools (e.g. paint spray) it is necessary to ensure that, at the maximum air consumption of the air tools, sufficient air is allowed to flow into the hood. If necessary the working pressure can be adjusted.
- The system may be used solely by trained personnel, who are also fully aware of the hazards applicable to the work being carried out.

2.0 - OPERATION

2.1 Prior to use

Ensure for certain that the compressor is switched on and that it has been set to the correct operating pressure. A worn and/or dirty compressor produces polluted air that cannot be cleaned by the filter system. Make sure that the compressor cannot suck any dangerous matter via the air entry. Ensure that all components has been cleaned and inspected as detailed in paragraph 3.1 and 3.2. Adjust the working pressure on the filter system to between 5 & 6 Bar. If required, pull a disposable hood over the head and connect the air hood, via the compressed air supply to the air filter system. Adjust the headband to the correct length. Then, fit the paintspray hood on the head. Draw the face collar back under the chin, so that the hood is sealed off, and then tighten the belt.

2.2 During use

Adjust the volume of air according to the requirements. The integrated air flow indicator warns the user when insufficient air is being supplied. For safety reasons the regulator cannot be closed entirely. Depart the working area immediately if there is an interruption in the air supply. Ensure that the compressed air supply hose cannot be trapped, causing interference with the air supply or preventing a rapid departure from the work area.

2.3 After use

After leaving the work area, unbuckle the belt, take off the helmet and disconnect the compressed air supply hose. Using a brush or a cloth, clean loose residue and dirt from the components, according to the instructions given in paragraph 3.1 and 3.2. When connecting and disconnecting, take care that no pollution enters the open air connections.

3.0 - MAINTENANCE

3.1 Cleaning and disinfecting

After each session clean the air hood, using a mixture of water and a mild detergent (e.g. EW 80 from Tremonia Chemie, Dortmund, Germany). Subsequently, rinse thoroughly with clean water. (Do not use any solvents). The face collar or neck bib can be washed in the washing machine, using a soft detergent at 30°C. Using a disinfectant, (e.g. Incidur from Henkel) clean the inner surfaces of the air hood. Refer to the instructions given by the manufacturer. For reasons of hygiene, the same person should preferably wear the hood. Using compressed air, blow clean the coupling and the regulator. Finally, using a dry cloth, dry all the metal components, to avoid corrosion. When cleaning, take care not to inhale hazardous matter that is released during the cleaning.

3.2 Functional check

After cleaning, disinfecting or exchanging components, check the functioning of the system. Inspect all essential components for damage or pollution and, if required, replace these with original spare parts. If the air flow indicator shows insufficient air in the hood, although the pressure is correctly adjusted, this could indicate that a blockage has occurred in the filter system, the compressed air hose, coupling or silencer. During this check hold the hood in a vertical (normal working) position.

3.3 Checking hose system for leakage

Adjust the supply pressure to 0.5 bar, and then connect the hood to the compressed air filter system via the compressed air supply hose. Using a suitable tool, pinch the air hose behind the coupling. Using a brush, apply a soap solution to possible problem areas. Soap balloons indicate leakage.

3.4 Storage

After use and cleaning, store the entire system in a cool, dry and dark location. Take measures to prevent component parts of the system coming into contact with oils, grease, solvents, acids or other chemicals.

3.5 Fitting disposable windows

Position a maximum of 3 disposable windows behind the clamps at each side of the helmet and, then, draw the windows tight against the main window.

3.6 Exchanging the face collar

The face collar can be easily exchanged, after removal of several fixing parts.

3.7 Exchanging the neck bib

For reasons of hygiene, replace the neck bib regularly, by releasing the zip fastener.

3.8 Exchanging the window

Remove the clamps holding the disposable windows and the face collar. Then remove the headband. Using a pointed tool, press in the lips on the upper and low windows. The window can then be removed. Taking an original spare window, bend it slightly and slide from the top into the recess of the upper window, causing the lips to click into the holes. Repeat this procedure for the lower window.

AFTER REPLACING THE COMPONENTS CARRY OUT A FUNCTIONAL CHECK.

3.9 Maintenance frequency

Prior to use: Functional checks for the user, check of control valve.

After use: Cleaning and disinfecting of the helmet; cleaning, functional checking and leakage inspection of the complete system.

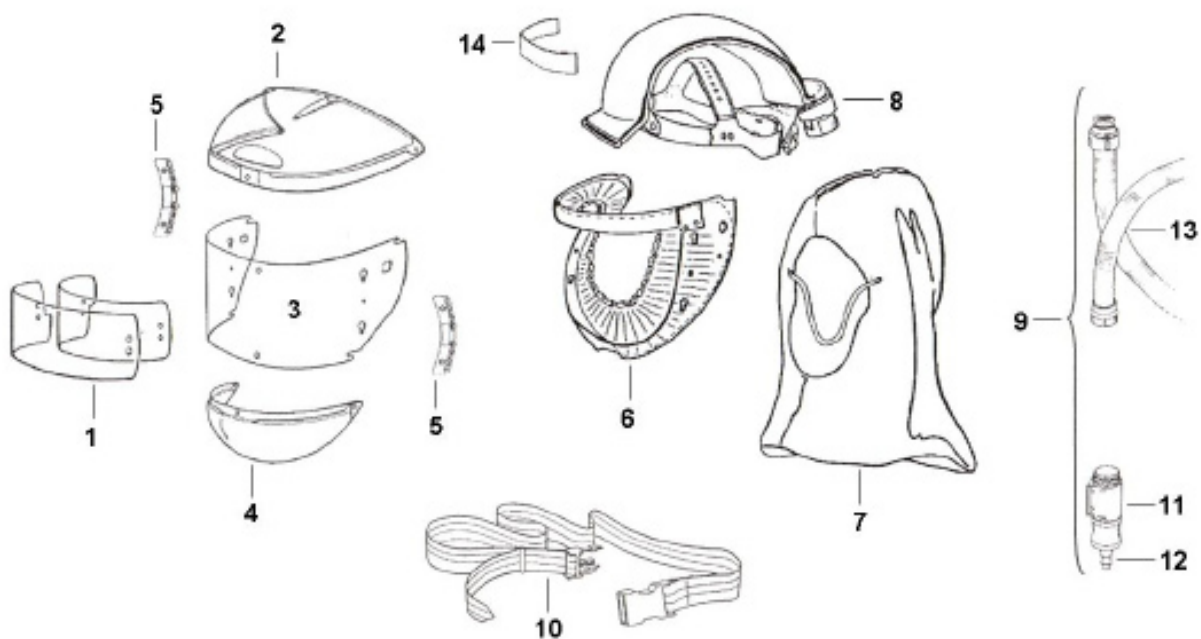
Every six months: Cleaning and disinfecting of the helmet; cleaning, functional checking and leakage inspection of the complete system.

Usage duration of filters: It is advisable to renew the filters when a pressure difference of 0.6 bar occurs. For safety reasons, the filter should be renewed at least every six months or together with the coarse filter.

4.0 - DRAWING & PARTS LIST

Part no.	Description
4038000	Miniatura air supplied paintspray hood, complete with: - Hood assembly - Breathing tube - Adjustable air flow control incl. sound silencer - 1 spare face collar - 10 disposable outer lenses - 2 spare self-adhesive sweatband - 3 disposable hoods

Item	Part no.	Description
1	4043600	Disposable outer lens (100 pcs. per set)
2	4044900	Top shield acetate
3	4044100	Inner lens acetate
4	4043900	Bottom shield acetate
5	4043800	Clamp for disposable window (set of 2)
6	4044800	Face collar
7	4042000	Disposable hood
8	4044700	Adjustable headband with air connection
9	4044200	Hose 22 mm with bayonet connection complete with:
10	4044600	Waist belt
11	4044400	Silencer for airflow regulator
12	4019100	Nipple CEJN with 1/4" inner thread
13	4044300	Hose 22 mm with bayonet connection
14	4019800	Self-adhesive sweatband



GENERAL

AIRBLAST B.V. cannot, in general terms, accept responsibility for damage incurred by the owner, user, other persons using the safety product or third parties, which results either directly or indirectly from incorrect use and/or maintenance of the safety product, including use of the product for any purpose other than that for which it was supplied and/or the non compliance or incomplete observance of the instructions contained in this user manual and/or in connection with repairs to the safety product which have not been carried out by us or on our behalf. Our general sales and Supply conditions are applicable to all transactions. AIRBLAST B.V. continually strives to improve its products and reserves the right to change the specifications mentioned in this manual without prior notification.

WARRANTY

AIRBLAST B.V. will repair or, if necessary, replace this product free of charge in the event of a material or manufacturing defect within 12 months of the purchase date, provided that the product has only been subjected to normal usage in accordance with the user manual. The guarantee is invalidated if the type or serial number marking is modified, removed or made illegible.

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