

INSTRUCTIEHANDLEIDING 5000X-HD AIR

5000X-HD Lucht Een lashelm en aangedreven luchtzuiverend ademhalingstoestel

WAARSCHUWING

Lees en begrijp alle instructies voordat u de apparatuur gebruikt.

VEILIGHEIDSWAARSCHUWINGEN

The respirator system is intended to be used to provide protection when the user works in the contamination environment. The equipment is able to filter the contaminated air via the filter build in to the blower and then supply fresh air from breathing tube to the welding face shield, so that the user can continue working in the contamination environment. It is a combined face and breathing protection device for increased safety and comfort during welding. Please read the instructions carefully before unpacking. For proper use, see user instructions or contact themanufacturers for help..

The system complies with the requirements of PPE Regulation 2016/425 and European Standard EN 12941: 1998+A2:2008 class TH3 P R S L. The respirator system is designed to provide a supply of filtered air via a breathing tube to a welding headpiece. The equipment can be used in environments that require a TH3P class breathing protection device. It protects against particulate contamination.

All components used in the respirator system must be manufacturer approved parts, and must be used in accordance with the instructions in this manual.

- The approval is not valid if the product is incorrectly used together with non-approved parts or components.
- Only the particle filter and pre-filter can be used together with this system. Filters from other manufactures should under no circumstances be used.

Failure to follow these warnings and/or failure to follow all of the operating instructions could result in severe personal injury.

- Before each use, inspect the respirator system for damage and verify it operates properly. Before using the respirator system, test air flow to verify it is providing an adequate volume of air.
- Always wear the respirator system and do not remove the head top or turn off the air filter unit until outside the contaminated area, otherwise, there is a risk of high concentration of CO₂ while the oxygen level in the head top will fall, thus little or no protection is given.

Warnings:

- If you are not sure about the concentration of pollution, or about equipment performance, ask the industrial safety engineer.
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- The respirator system devices should be used by well trained personal and qualified persons only.
- Before using the devices, ensure you have understood that at very high work rates the pressure in the device may become negative at peak inhalation flow.
- Before and during using the devices, attention shall be drawn to possible incorrect use and, where appropriate, the possibility of looped hoses and or cables becoming caught up.
- Before or during using the devices, if the devices are in the poweroff state, little or no respirator protection is to be expected. This is considered to be an abnormal situation.
- Please leave the work place and remove the headgear when the devices are in the power off state. A rapid build-up of carbon dioxide and depletion of oxygen within the hood may occur.
- The filters shall only be fitted to the turbo unit and not directly to the helmet
- The user should not confuse the markings on a filter relating to any standard other than EN 12941 with the classification of this device when used with this filter.

Do not:

- DO NOT use the 5000X-HD Air with the blower unit switched off
- DO NOT use the 5000X-HD Air in an atmosphere that is immediately hazardous to user hygiene or health and/or has oxygen content of less than 19,5% or contains unknown substances
- DO NOT use the 5000X-HD Air in an explosive atmosphere
- DO NOT use the 5000X-HD Air in confined spaces or areas of poor ventilation
- DO NOT use the 5000X-HD Air in high winds
- DO NOT alter or modify in any way
- DO NOT touch any of the moving parts
- DO NOT allow water or other liquids to enter the impeller chamber, the filter or battery compartment

The manufacturer is not responsible for injury due to the incorrect use or incorrect choice of equipment.

Notified Body: Vyzkumny ustav bezpecnosti prace, v. v. i., Jeruzalemska 9, 116 52 PRAHA 1, Country: Czech Republic (Notified body number 1024).

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1. UNPACKING AND ASSEMBLY

While unpacking and assembling

- Check whether the correct number of components has been supplied as in figure 1.
- Check that the apparatus is complete, undamaged and correctly assembled

Any damaged or defective parts must be replaced before use.

The package must include:

- 1. The 5000X-HD Air helmet
- 2. The respirator protection system (turbo unit + filter + waist belt)
- 3. Lithium-ion battery
- 4. The tube, its anti-fire cloth and both end fittings
- 5. The shoulder harness
- 6. The air flow tester
- 7. The lithium-ion battery charger
- 8. The carrying bag

If any of the above components are not included in your kit, please contact the supplier immediately.



FIGURE 1

2. FILTER REPLACEMENT

The pre-filter and filter expected lifetime is 12 months. When under intensive use, check the filter cleanliness periodically and if needed, change them more often than every 12 months.









Remove the used filter by lifting it out from the filter cover.



Clean the spark arrestor if necessary.

1

2

3. INSTALLING BATTERY & CHARGING

Battery indication:

- The battery is partially charged when delivered. It must be charged to 100% (4 bars) before the first use.
- It is recommended to charge the batteries to 100% before each use

Charger:

- The charger must not be used for anything else than it was designed for.
- Do not charge the battery in a potentially explosive area.
- The charger must only be used indoors

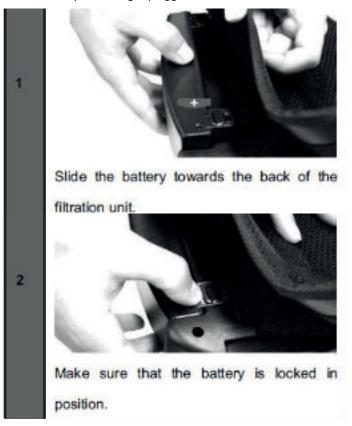
Battery storage:

- The battery will discharge itself after long storage periods
- Always charge the battery if the device was stored for more than 15 days.
- When the battery is new or has been stored for more than 3 months, charge it and discharge it at least twice in a row to reach the nominal/rated charge capacity

Battery charge:

- 1. Connect the battery to the charger. The connector is above the battery.
- 2. Connect the charger to the mains.
- 3. The state of charge is displayed via a red LED on the mains charger
- 4. Once the charge is finished, the floating charge becomes active: the red LED switches off and a green LED switches on.
- 5. Disconnect the charger from the mains

DO NOT keep the charger plugged to the mains if it's not in use.





The battery can be charged on the filtration unit or separately.

4. CONNECTING THE TUBE

Check that the respirator tube is strongly connected. If the tube is broken, replace it.



Connect the air tube to the respirator system and twist it clockwise to lock its position.



Connect the other end of the tube to the headgear in the same way.

5. FITTING

Make sure the face seal is positioned properly, otherwise you can not get sufficient sealing needed to offer the correct protection factor.





Adjust the headgest to suitable lightness (push and turn left to loosen, turn right to lighten

Adjust the tightness of the face seal

and put on the head top.

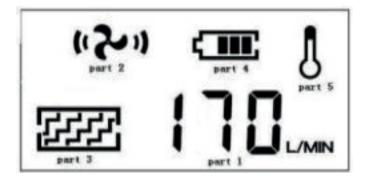
6. LCD

LCD DISPLAY SCREEN

There is a LCD display screen on the 5000X-HD Air unit to show the 5000X-HD Air working condition.

- 1. Shows the data of current air flow
- 2. Shows the level of the airflow
- 3. Shows the filter condition
- 4. Shows the battery
- 5. Shows the temperature of the battery

Any of them will flash if there are 5000X-HD Air disfunctions.



7. MAINTENANCE AND STORAGE

Inspect the equipment daily and always check it if any sign of malfunction occurs.

MAINTENANCE

- The respirator system unit must be checked regularly and must be changed if it is damaged and causes leakage.
- The filter must be changed if it is broken, or it is blocked and

does not give enough airflow.

- The breathing tube must be changed if it is broken or has crevasse.
- The batteyr must be charged when the low battery alarm rings.
- Use a soft cloth to wipe the external surfaces. DO NOT use water.
- The filter should be replaced together with the pre-filter.

STORAGE

- The respirator system must be stored in a dry, clean area, in the temperature range of -10 °C to +55 °C and relative humidity less than 90%RH.
- If the equipment is stored at temperature below 0 °C, the battery must be allowed to warm up to achieve full battery capacity. The equipment must be protected from dust, particles and other contamination.
- If the equipment is not going to be used for a long time, the battery should be fully charged, removed from respirator system unit and stored separately.
- Transport the equipment with original packaging box and keep away from direct sunlight.

8. WARRANTY

- The 5000X-HD Air blower unit is guaranteed for a period of 12 months from date of purchase against mechanical or electrical defects.
- The 5000X-HD Air battery is guaranteed for a period of 6 months from the date of purchase.

The company undertakes to exchange or repair without charge, any part found to be defective within this period alternatively and at its discretion. The company may replace.

This guarantee is subject to:

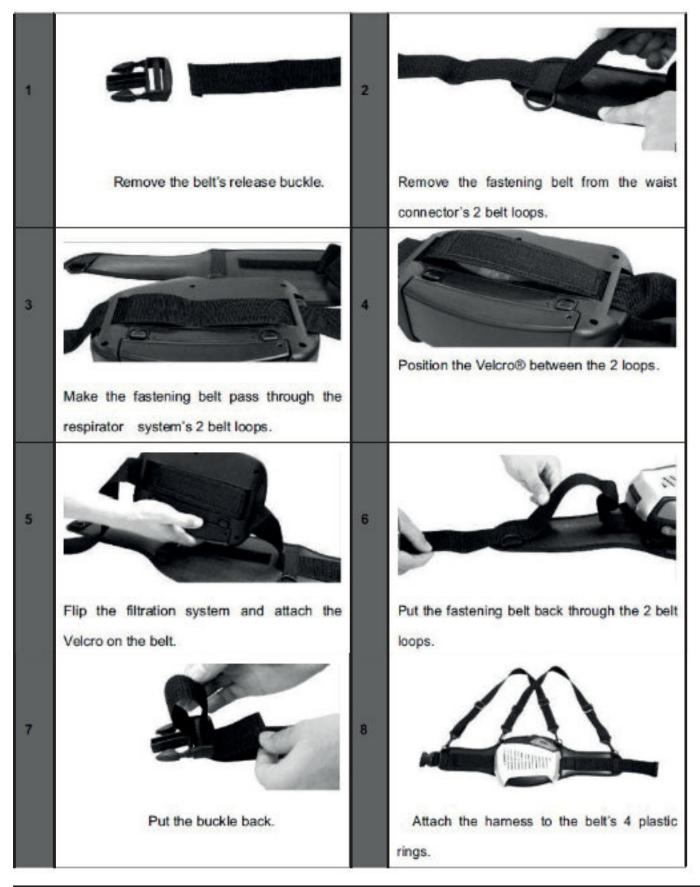
- The 5000X-HD Air unit has been used solely for the purpose for which it is intended.
- The 5000X-HD Air unit has not been subject to misuse, accident, modification or repair.

In the event of a claim, contact the retailer from which the SparX Single Air was purchased.

This guarantee does not cover normal wear and tear.

9. INSTALLING ON THE BELT

Make sure the belt is securely fastened.

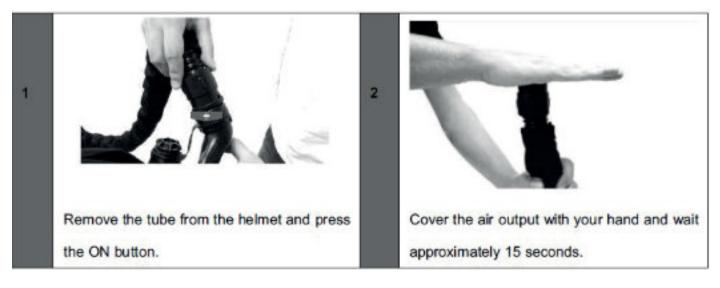


10. AIR FLOW AND ALARM TEST

AIR FLOW TEST MUST TEST The airflow must be tested before using. If the marble can't reach the minimum flow level, do not use the system. Change the filter or the battery and retest the air flow. 2 1 Connect the breathing tube to the turbo unit and twist it clockwise to lock it. Insert the flow meter at the top of the tube. 3 4 Press the ON button and maintain the tube The air flow is sufficient if the marble in a vertical position at eyes' height. reaches the minimum flow level O.

AIR FLOW ALARM TEST

If the alarm does not work, please repair or change respirator system.



11. OPERATION

- The respirator system will turn off the turbo unit if the OFF button is pressed for more than 3 seconds.
- The respirator system will cut off the entire circuit and switch to sleep mode if the turbo unit has turned off for more than 30 minutes. Pressing the ON button can activate the system.
- The respirator system must be operated in the temperature range of -5°C to +55°C and relative humidity less than 90%RH.

P	Switch the device on by pressing the ON button once.	~
₹ ¶	Press the ON button once again, the air flow is at level 1 (~170L/min).	יאי
Ĩ	Press the ON button once again, the air flow is at level 2 (-200L/min).	いなこ
P	Press the ON button once again, the air flow is at level 3 (~230L/min) Press the ON button once again, the air flow reverts to level 1	("~")

(-170L/min).

12. TROUBLE SHOOTING

Problem	Probable cause	Action	No air flow, no	•	No power	Charge the battery		
10000000000	 Motor is stuck Motor is damaged 	Check and remove physical failure and	alarm	•	Battery contact damaged	and check battery contact		
Fault code +E01+ • Burning blinks	 Blower structure failure caused by outer force Circuit failure 	restart the system. Return to dealer if LCD still shows E01	Battery run time is too short	•	Battery is not fully charged Filter is blocked Battery is damaged	 Charge the battery Remove obstruction 		
Faultcode «E02» • Dinks	 Motor is damaged Motor impeller rubs blower shell Circuit has ecessive 	Check and remove physical failure and restart hte system. Return to dealer if				and/or change the filter Change the battery		
	current	LCD still shows E02	Air supply to hood	•	Filter is broken Tube is broken ADF helmet is broken	Leave current area		
terming blinks diam sounds	Low battery	Change the battery	smells unusual	•		immediately Change filter Change tube Change ADF helmet 		
2002 blinks + Saniag blinks + plann sounds	Filter blocked Tube blocked	 Remove obstruction and/or change the filter Clean the tube 	Supply insufficient air to helmet	•	Breathing tube broken off Breathing tube broken Sites is blocked	Check the tube connection to hood and respirator		
binks -alam sounds	Battery high Stop working and temperature rest				Filter is blocked	 system unit Change breathing tube 		
						Remove obstruction, change filter		

13. SPECIFICATION

Size (blower assembly)	9-2/5 x 6-1/2 x 2-3/4 in. (240 x 1	9-2/5 x 6-1/2 x 2-3/4 in. (240 x 165 x 70 mm)						
Weight	1.1 KG							
Particle Filter	1*TH3 P R SL							
Air Flow	Manufacturer minimum design flow rate: 165 L/Min Nominal airflow: • Level 1: 170 L/Min • Level 2: 200 L/Min • Level 3: 230 L/Min							
Noise level	Max 75dB	Max 75dB						
Operate Temperature	23°F to 131°F (-5°C ~ 55°C)	23°F to 131°F (-5°C ~ 55°C)						
Storage Temperature 14°F to 131°F (-10°C ~ 55°C)								
Battery Type		······································						
Expected Battery Operation Time Battery Charging Time	Standard Battery Level 1 > 10h Level 2 > 8h Level 3 > 6h 3.5 Hours	Heavy-Duty Battery (Optional) • Level 1 > 15h • Level 2 > 12h • Level 3 > 10h 5 Hours						
Battery Life	>500 Charges Run Time Dependent On Air Flo	>500 Charges Run Time Dependent On Air Flow Rate and Filter Load.						
LCD Display	Air flow level and data Battery capacity Filter status	Battery capacity						
Belt Size	35-2/5 x 51-2/5 in. (900mm x 1300mm)							

14. MARKING EXPLANATION

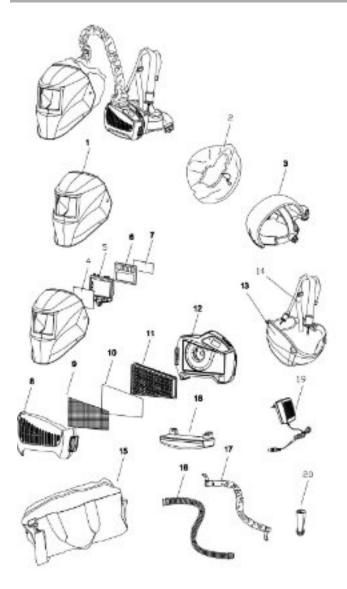
Powered filtering device

- EN 12941:1998 respirator protective decies Powered filter devices incorporating a helmet or hood requirements, testing, marking.
- TH3 P R (SL) classification of the unit. "TH3" defines the level of protection "P R" indicates the filter type ("P" = particle filter, "R" = Reusable type of particle filters) and "SL" reflects the filter has been tested against particles of liquid and solid matter.

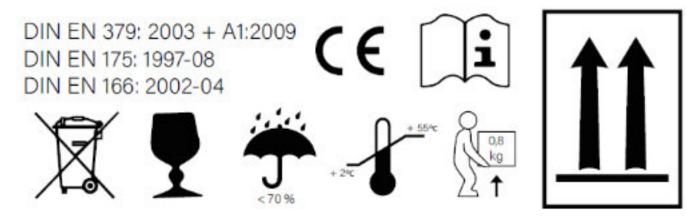
Warning sound indicator

	10	Oms	per	grid	1						
	0	1	2	3	4	5	6	7	8	9	10
Install the battery											
Turn on the system											
Change the air flow speed											
Turn off the system					1						
Current overload											
Air outlet jam						2					
Over heat											
Low battery	-										
Filter jam											

15. PARTS LIST



Drawing No.	Part No.	Description
1	13.02.110	5000X-HD Prepared for air complete helmet
2	13.02.115	Face Seal
3	13.02.111	Complete headgear + Airduct
4	13.01.013	Outer protection lens
5		ADF Cradle
6	13.06.003	Auto-Darkening Filter (ADF)
7	13.01.104	Inner protection lens
8	13.03.101	Filter cover
9	13.03.104	Spark Arrestor
10	13.03.103	Pre-Filter
11	13.03.102	P3 Filter
12	13.03.105	Turbo Unit
13 & 14	13.03.108	Waist Belt & Shouder Harness
15	13.03.111	Carrying Bag
16 & 17	13.03.116	Breathing Tube & Anti-fire Cloth of tube
18	13.03.106 13.03.114	Standard Battery Heavy Duty Battery (optional)
19	13.03.110	Battery Charger
20	13.03.109	Air Flow Tester



ATTENTION

if any of these conditions is not kept or followed, the warranty is automatically invalid.