



Operating Manual

# PremAire Combination

Self-Contained Breathing Apparatus for Escape

GB



Order No. 10154060/01

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Germany

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1 Safety Regulations

1.1 Correct Use

According to EN 402

The PremAire Combination, hereafter referred to as device, is a positive pressure self-contained breathing apparatus (SCBA) for escape with rated service duration depending on filling pressure and cylinder size used (see table below). The device enables the wearer to escape from a potentially hazardous atmosphere and is equipped with an airline connection for attachment to an air supply in “safe havens”.

According to ISO 23269-1

The PremAire Combination with 2 l or 3 l cylinder, hereafter referred to as device, is an Emergency Escape Breathing Device (EEBD) for shipboard use with rated service duration depending on filling pressure and cylinder size used (see table below). The device enables the wearer to escape from potentially hazardous atmosphere and is equipped with an airline connection for attachment to an air supply in “safe havens”.

Rated Service Duration

Cylinder size	Rated service duration based on 35 l/min breathing rate	
	Filling pressure 200 bar	Filling pressure 300 bar
2 l	10 min	15 min
3 l	15 min	20 min

General Safety Regulations

 **WARNING**

This apparatus is a pure gas protection device. It is not suitable for underwater diving.

 **WARNING**

Only trained individuals should be allowed to use the device after ensuring sufficient knowledge on donning and general use of the device. Failure to follow this warning can result in serious personal injury or death.

 **WARNING**

This device is for escape only and not intended for work.

It is imperative that this operating manual be read and observed when using the product. In particular, the safety instructions, as well as the information for the use and operation of the product, must be carefully read and observed. Furthermore, the national regulations applicable in the user's country must be taken into account for a safe use.



**WARNING**

This product is supporting life and health. Inappropriate use, maintenance or servicing may affect the function of the device and thereby seriously compromise the user's life.

Before use the product operability must be verified. The product must not be used if the function test is unsuccessful, it is damaged, a competent servicing/maintenance has not been made, genuine MSA spare parts have not been used.

Alternative use, or use outside this specification will be considered as non-compliance. This also applies especially to unauthorised alterations to the product and to commissioning work that has not been carried out by MSA or authorised persons.

**1.2 Liability Information**

MSA accepts no liability in cases where the product has been used inappropriately or not as intended. The selection and use of the product are the exclusive responsibility of the individual operator.

Product liability claims, warranties also as guarantees made by MSA with respect to the product are voided, if it is not used, serviced or maintained in accordance with the instructions in this manual.

**1.3 Safety and Precautionary Measures**

- Approved for use at temperatures between -40 °C and +60 °C when using the 3S-PS-V-MaXX(CIS) full face mask.
- Approved for use at temperatures between -30 °C and +60 °C when using the 3S-PS-MaXX full face mask.
- The device may be used in explosive atmospheres according to the class stated in the ATEX certification.

**WARNING**

The PremAire Combination is not certified as a compressed airline breathing apparatus. The T-piece has no warning whistle, it is only intended to enable a connection to a rescue airline in an escape situation, e. g. "safe havens".



Only use breathable air quality in accordance with EN 12021 or other applicable national regulations.

## 2 Description

The PremAire Combination is a positive pressure self-contained open-circuit compressed air breathing apparatus [SCBA] for escape.

The device utilises a lung governed demand valve [LGDV] mounted at the mask. This mask mounted LGDV maintains the pressure within the mask while regulating and reducing the air supply to a breathable pressure. This is accomplished by using a diaphragm that senses the breathing demands of the user in a controlled feedback state. The positive pressure of air inside the mask, whether the wearer is inhaling or exhaling, is to prevent contaminants from entering the mask.

The device is designed in accordance to EN 402 and ISO 23269-1 and enables the wearer to escape from a potentially hazardous environment.



### WARNING

This device is a pure gas protection device. It is not suitable for underwater diving.

The device consists of:

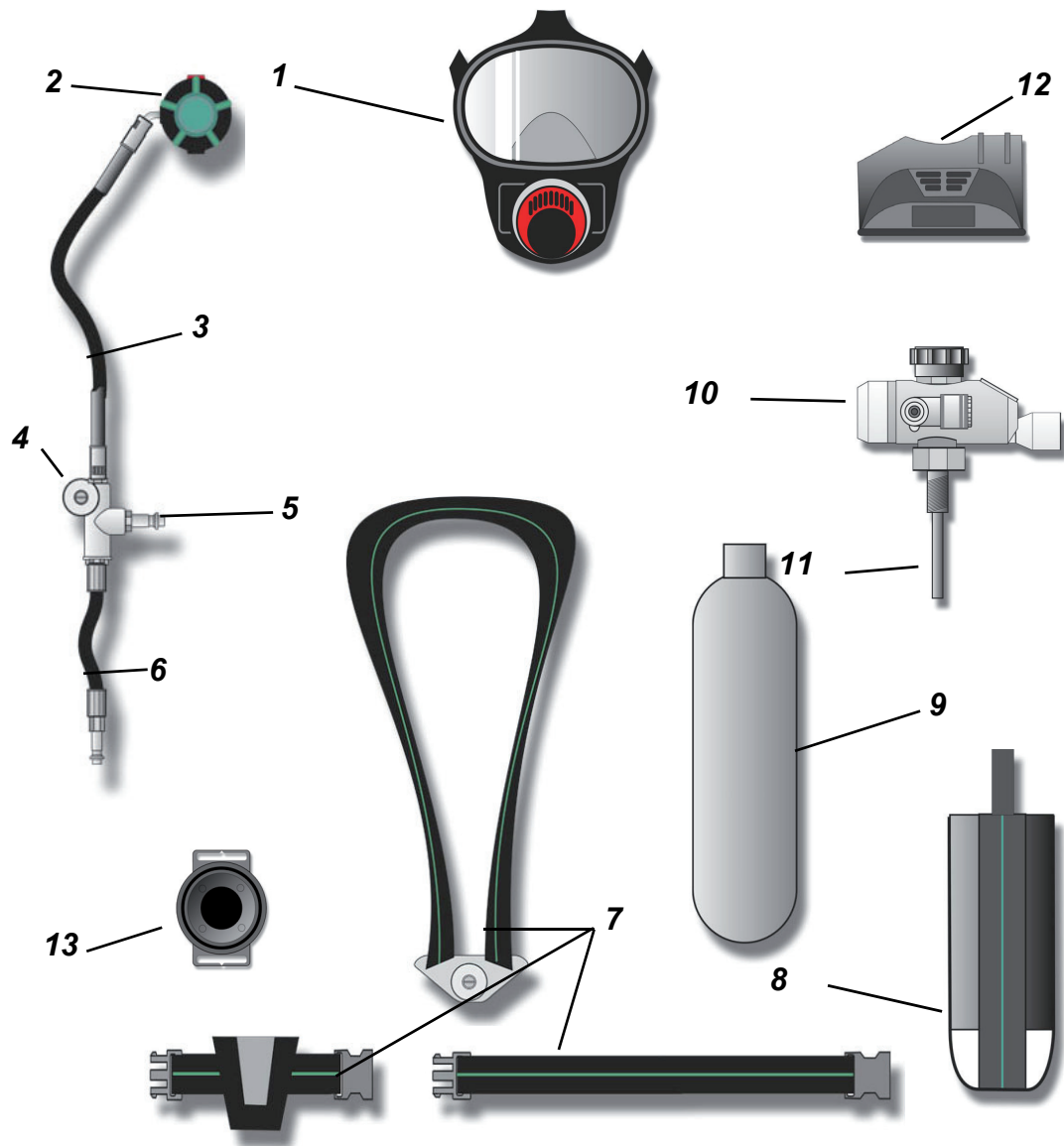


Fig. 1 Overview

- |  |  |
|--|--|
| 1 Full face mask with positive pressure                  | 8 Cylinder cover                       |
| 2 AutoMaXX AS (LGDV)                                     | 9 Compressed air cylinder              |
| 3 Medium pressure hose                                   | 10 Combination valve assembly (CV)     |
| 4 T-piece  | 11 Water tube /Excess flow valve (EFV) |
| 5 SCBA connection  | 12 Cover of combination valve assembly |
| 6 Airline attachment hose                                | 13 Demand valve holder                 |
| 7 Harness assembly (shoulder strap, waist belt, holster) |  |



## 2.1 Full Face Mask with Positive Pressure

The face blank is made of a special soft rubber compound and assures a snug, comfortable fit and a tight seal.

The inhalation air flows from the connector of the mask past the inhalation valve to the inside of the lens [thus keeping the lens largely fog-free] and then through the check valves into the nose cup. The exhalation air passes through the spring-loaded exhalation valve directly to the ambient air.

The mask is approved according to EN 136.

For additional information see Mask manual.

## 2.2 Lung Governed Demand Valve (AutomaXX AS-T) with T-Piece

The positive pressure Lung Governed Demand Valve (LGDV) is connected to the full-face mask via a push-to-connect connection. The medium pressure hose is directly connected to the T-piece.

The T-piece consists of a brass housing and a mounting support made of stainless steel. It has two connection nipples with non- return valves. One connection nipple is used for the SCBA connection, the other can be used for connecting to an external air supply in “safe havens” via MSA Airline Couplings.

For additional information see AutoMAXX manual.

## 2.3 Harness Assembly

The harness assembly consists of a waist belt, a holster and a shoulder strap. The waist belt includes buckles with single adjustment and a holster for connecting the combination valve assembly with cylinder. The shoulder strap includes adjustment buckles.

## 2.4 Combination Valve Assembly (CV)

The combination valve assembly includes a high pressure valve and first stage pressure reducer valve, all combined in the valve housing and protected by a valve cover.

The combination valve assembly consists of:

- handwheel to open and close cylinder air supply
- recessed/ protected pressure gauge to permanently indicate the filling status of the cylinder by showing the air pressure
- filling connector 300 bar G 5/8” according to EN 144-2 with non-return valve to pressurise the cylinder
- high pressure burst cap to protect cylinder from over-pressurisation
- medium pressure relief valve to protect LGDV from over-pressurisation
- first stage pressure reducer valve to reduce cylinder pressure to a suitable medium pressure
- water tube or excess flow valve (optional)
- cylinder connector that conforms to EN 144-1
- warning signal (optional)

**2.5 Compressed Air Cylinder**

For information see Compressed Air Cylinders for Breathing Apparatus manual.

**2.6 Quick-Fill Adapter (Optional)**

The Quick-Fill adapter is screwed into the cylinder filling port. For permanent attachment a fastening torque of 10 Nm is recommended. It is accessible after removing the protection cap. The Quick-Fill System permits a quick refilling of the compressed air cylinder, while the breathing apparatus is in use. In this device configuration with non-return valve it is not possible to provide air. Only receiving air is intended! For additional information see Quick-Fill system manual.

### 3 Use



#### WARNING

Only trained individuals should be allowed to use the device after ensuring sufficient knowledge on donning and general use of the device. Failure to follow this warning can result in serious personal injury or death.



#### WARNING

Never use the escape device for working assignments! This escape device is designed for escape purposes only as per EN 402 and ISO 23269-1. Follow company safety guidelines to implement escape procedures. Failure to follow this warning can result in serious personal injury or death!



#### WARNING

The device may only be put into use in a fully maintained and tested condition. If malfunctions or defects are noticed prior to use, do not use the device under any circumstances.  
Get the device checked and repaired by an MSA authorised service centre.

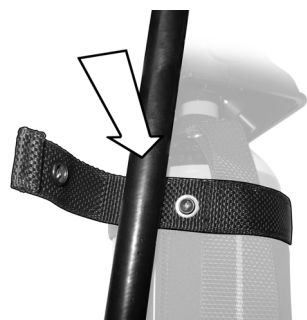


#### WARNING

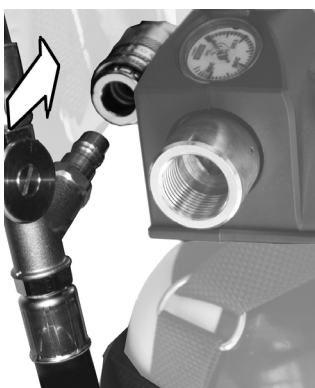
Take care not to damage the device during carrying and donning.

#### 3.1 Preparations for Use

- (1) Before use, check the pressure gauge to ensure a fully pressurised cylinder.
  - ▷ At room temperature the pressure value has to be minimum 200/300 bar.
- (2) Check that the cylinder cover is undamaged.
- (3) Connect the combination valve assembly to the harness assembly by sliding the disc into the slot of the holster.



- (4) Attach airline attachment hose to cylinder cover.

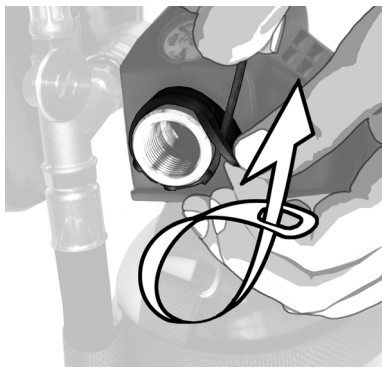


- (5) Connect SCBA connection of T-piece to coupling of combination valve assembly.

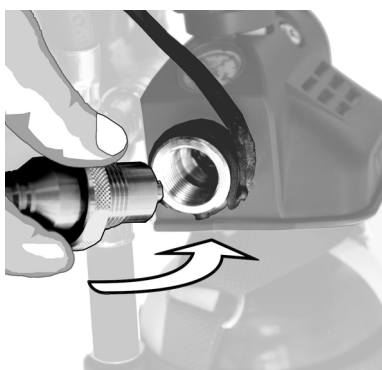


- (6) Fully extend the shoulder strap and waist belt.  
(7) Connect LGDV to the Full Face Mask.  
(8) Switch off the positive pressure function of the LGDV with the operation button.

### Preparing the Quick-Fill Adapter (If Applicable)



- (1) Screw off plastic cap.
- (2) Install Quick-Fill protection cap.



- (3) Screw in Quick-Fill adapter.
  - ▷ For permanent attachment a fastening torque of 10 Nm is recommended.



- (4) Close with protection cap.

#### CAUTION

Quick-Fill has always to be covered after use with the protection cap.

### 3.2 Donning the Device



#### WARNING

To ensure safe and fast donning in an emergency, users have to train the donning procedure sufficiently.



- (1) Grab shoulder strap.
- (2) Check correct orientation of shoulder strap.
  - ▷ The MSA label must not be upside down.
  - ▷ Belt attachment must be on the body side.
  - ▷ In the dark, check by touch.



- (3) Don shoulder strap.

- (4) **Open cylinder valve with the handwheel.**
- (5) Listen and inspect for air leakage from the AutoMaXX LGDV, cylinder valve assembly and hose connections.

Don mask:

- (6) Spread the harness with both hands.
- (7) Position the chin into the chin cup.
- (8) Pull the head straps over your head.
  - ▷ Whilst doing so, ensure that the harness is sitting correctly and is not twisted.



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(9) If necessary adjust mask and tighten the straps in order as shown firmly and evenly.

▷ When tightening the head straps ensure that the correct sequence is followed [Figure Pos. 1 - 3].

(10) To activate the LGDV, inhale once forcefully or push flush button.

(11) Check positive pressure by inserting a finger into mask seal and listen for outward leak.

(12) Allow mask to reseal. Then hold your breath while listening carefully for leaks. If leaks are detected reposition mask and adjust harness.

(13) Don waist belt and close buckle.



(14) Slide arm through shoulder strap to move cylinder to the desired side.

▷ The position can be changed during use.



(15) Adjust harness so that the device fits comfortably.





Device is ready for use.

**Optional:**



- If medium pressure hose is in the way, slide it under shoulder strap.



### Disconnection of Combination Valve Assembly from Waist Belt in Confined Spaces



- (1) Keep push button of retention spring pressed while removing the combination valve assembly from holster.



#### WARNING

Take care not to pinch any fingers when disconnecting the combination valve assembly.



#### WARNING

Do not remove shoulder strap.

### Connection of Combination Valve Assembly

For reconnection slide disc of the combination valve assembly into the slot of the holster.

### Devices with Warning Signal



#### WARNING

For devices with warning signal, the warning signal is activated if the air supply in the cylinder is reduced. In this case leave the hazardous area and return to fresh air immediately, there might be danger of air deficiency.

### 3.3 T-piece Connection to Rescue Airline

The PremAire Combination is equipped with an T-piece to enable a connection to a rescue airline e. g. in “safe havens”. The operation pressure of the compressed air feeding hose should be between 6.0 bar and 8.5 bar.

The T-piece enables breathable air supply (air quality in accordance with EN 12021) from both connections. If the T-piece is connected to a rescue airline and to save the remaining cylinder pressure, it is possible to close the cylinder valve (with the handwheel) of the combination valve assembly and to breathe only through the airline connection.

The T-piece function is only certified for this emergency air supply situation and not certified for use as an airline breathing apparatus.

### 3.4 Refilling the Cylinder via Quick-Fill System (If Applicable) in an Escape Situation

All PremAire devices can be equipped with a filling connection for the MSA Quick-Fill System.



#### WARNING

Depending on the pressure and the volume of cascade cylinders used, the achievable filling pressure will vary!

Ensure that the filled cylinder has the pressure necessary to ensure service duration.



#### WARNING

Never refill cylinders via Quick-Fill system in explosive atmospheres.

#### CAUTION

Applicable national regulations must be observed.

- (1) Remove Quick-Fill protection cap.
- (2) Connect filling hose.
- (3) Fill cylinder.
  - ▷ Watch the pressure gauge.
- (4) Disconnect Quick-Fill.
- (5) Put on Quick-Fill protection cap.

For additional information see Quick-Fill System manual.

### 3.5 After Use

#### Disconnecting the LGDV

- Disconnect the LGDV by pressing both buttons at once.

#### Removing the Mask

- (1) Loosen the head harness, press the buckles forwards using your thumbs.



Do not grip the mask by the exhalation valve!

- (2) Grip the mask by the connector and pull off backwards over your head.

#### Disconnecting the Harness

- (1) Close cylinder valve with the handwheel.
- (2) Disconnect the waist belt buckle.
- (3) Loosen the shoulder adjustment buckle.
- (4) Remove complete device.



#### CAUTION

When disconnecting the compressed air feeding hose ends while they are under pressure the plug nipple side must be held firmly. The escaping air could otherwise cause the hose to be propelled in an uncontrolled way [especially long hoses].



#### WARNING

Do not throw off the compressed air breathing apparatus. This could damage the valve and any remaining compressed air could escape suddenly.  
This could cause fatal injury to you or to any bystanders.

## 4 Cleaning

### CAUTION

For cleaning, do not use organic solvents, such as nitrous dilution, alcohol, spirits, gasoline, trichloroethylene, etc.

### CAUTION

Clean the device immediately after using it in salty atmospheres, all salt must be removed to avoid damage to the device.

#### Cleaning, light Soiling

- (1) Clean compressed air breathing apparatus manually using a brush, damp cloth or similar.
- (2) Air-dry apparatus completely.

#### Cleaning, heavy Soiling

- (1) Disconnect LGDV.
- (2) Separate harness assembly and cylinder cover from other device components.



- (3) Remove the shoulder strap from the slots of the metal plate.
  - ▷ Do not remove the screw holding the metal plate.
- (4) Clean harness assembly and cylinder cover in a suitable washing machine at max. 40°C.
- (5) Clean hoses, cylinder with combination valve assembly with pressure reducer and pressure gauge preferably by hand with a damp cloth.

### CAUTION

Do not submerge the pressure reducer in water.

- (6) Completely dry all compressed air breathing apparatus components in a drying cabinet at max. 50 °C.

#### 4.1 Cleaning/Disinfection Mask

The cleaning/disinfection of the masks is performed in accordance with the cleaning intervals in the mask manual. For cleaning/disinfection instructions see Full Face Mask manual.

#### 4.2 Lung Governed Demand Valve

For cleaning/disinfection instructions of the LGDV, see AutoMaXX manual.

#### 4.3 Compressed Air Cylinder

For cleaning instructions of the cylinder, see Cylinder manual.

## 5 Filling the Compressed Air Cylinder



### WARNING

When handling compressed air cylinders, observe the Compressed Air Cylinder Operating Manual and the safety instructions specified in it.

Never fill cylinders in explosive atmospheres.

Improper handling of compressed air cylinders can have fatal consequences for you and others.



### WARNING

Applicable national regulations must be observed.

Only breathing air in accordance with EN 12021 or better may be used.

Compressors and filling devices may only be operated by trained personnel. All warning and safety instructions must be observed.

It is not necessary to take the compressed air cylinder out of the cylinder cover for refilling.

Keep the handwheel closed for refilling the cylinder. Opening with the handwheel is not required.

For detailed information regarding filling see the cylinder manual.

### 5.1 Filling Connector 300 bar

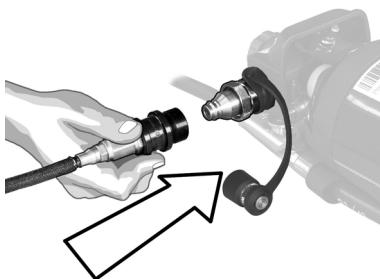
The device is equipped with a 300 bar G 5/8" thread filling connector according to EN 144-2.

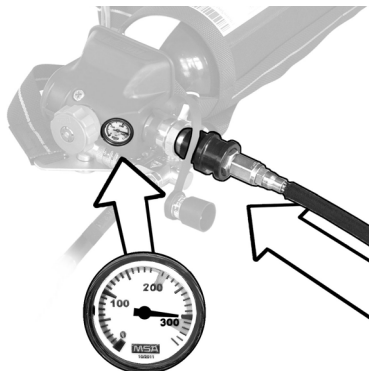
- Connect the filling connection to a 300 bar filling connection and fill to minimum 300 bar or 200 bar (see section 1.1, Rated Service Duration).  
Follow the compressor instructions and use the relevant adaptor if required.

### 5.2 Quick-Fill System (If Applicable)

If the device is equipped with a Quick-Fill system see manual for Quick-Fill system.

- (1) Remove protection cap.
- (2) Connect the filling hose to the Quick-Fill adapter.





- (3) Fill to the nominal pressure of minimum 300 bar or 200 bar.

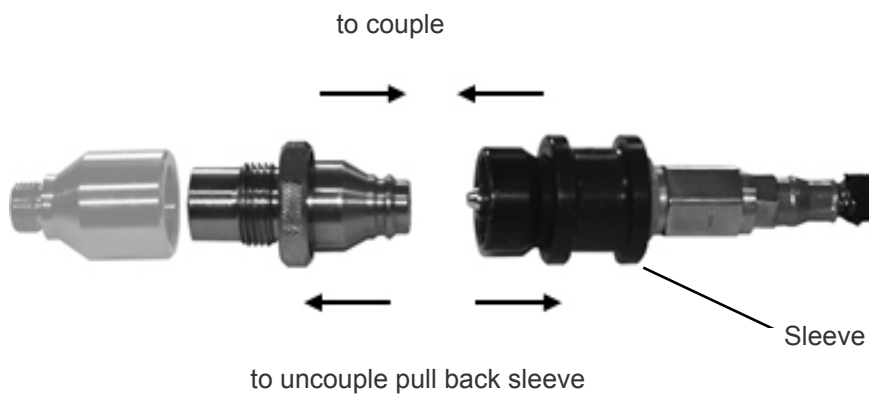


### WARNING

Ensure that the filled cylinder has achieved the pressure necessary to ensure service duration.

#### Quick-Fill adapter

#### Filling hose coupling



### CAUTION

Quick-Fill couplings are precision components!

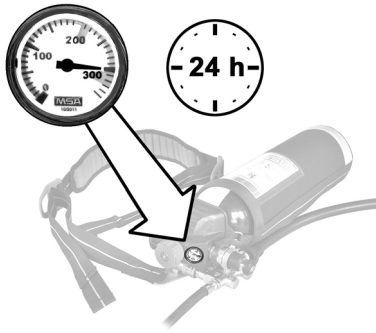
Immediately after use the couplings should be closed with the protective caps to prevent dirt and dust from entering and to assure that the couplings can continue to be used easily and safely.



- Close the coupling with the Quick-Fill protective cap.

### 5.3 After Filling

As a result of the air compression cylinders are getting hot during the filling cycle. Since composite materials are good insulators, the heat generated takes longer to dissipate on the cylinder surface. The temperatures may reach approx. 70 °C.



- (1) After returning to ambient temperatures check if the minimum filling pressure of 300 bar or 200 bar is reached.
  - ▷ If necessary, top up pressure.
- (2) After filling, the cylinders must be checked for tightness.

## 6 Sight, Function and Tightness Check

After all components of the device have been cleaned, disinfected and dried, the device has to be completed and connected.

For necessary checks of the LGDV before connection, see AutoMaXX manual.

For necessary checks of the mask before connection, see Full Face Mask manual.

- (1) Open cylinder valve and pressurise the system.
- (2) Close cylinder valve.
- (3) Carefully listen for leakage in the pneumatic system.
- (4) If applicable: If device is equipped with a warning signal, check warning signal:
  - ▷ Close exit port of LGDV as much as possible.
  - ▷ Carefully activate flush mode of LGDV.
  - ▷ Warning signal begins to sound when the pressure drops to 100 bar.
- (5) Depressurise the system by slowly activating the flush mode of the LGDV.

## 7 Maintenance

This product should be regularly checked and serviced by trained specialists. Inspection and service records must be maintained. Always use original parts from MSA.

Repairs and maintenance must be carried out only by authorised service centres or by MSA. Changes to devices or components are not permitted and will result in loss of approval.

MSA is liable only for maintenance and repairs carried out by MSA.

Inspect the entire respirator after it is cleaned and disinfected.



### WARNING

If the device does not meet any of the following inspections, it must be removed from service.



### WARNING

Take care not to damage the device during carriage or transport.

### 7.1 Maintenance Intervals

Component	Work to be performed	After use	Annually	Every 10 years*
PremAire Combination	Cleaning	X	X	
	Visual, function and tightness check	X	X	
	Overhaul			X or after 540 hours of active use
LGDV/Mask/Cylinder	See LGDV/Mask/Cylinder/Quickfill (optional) instruction manuals. Applicable national regulations must be observed.			

\* Every 5 years in Germany according to BGR 190

### 7.2 Mask

For detailed instructions see Full Face Mask manual.

### 7.3 Lung Governed Demand Valve

- Verify that all hoses are properly connected to the T-piece and check them carefully for cracks.

For maintenance of the LGDV, see AutoMaXX manual.



#### **7.4 Combination Valve Assembly/Compressed Air Cylinder**

- (1) Inspect the combination valve assembly for signs of damage.
- (2) Inspect the cylinder body for cracks, dents, weakened areas, corrosive agent, causing the fibers to break or peel, or signs of heat-related damage.
- (3) Perform checks on the compressed air cylinders in accordance with the national regulations.
- (4) Verify that all hoses are properly connected to the T-piece.
- (5) Inspect the filling connector. Verify that the protection cap or a Quick-Fill adapter (if applicable) with protection cap is properly connected.

For maintenance instructions of the cylinder, see cylinder manual.

#### **7.5 Harness Assembly**

- (1) Inspect all harness components for cuts, tears, abrasion or signs of heat or chemically-related damage. Verify that the cover securely retains the cylinder.

#### **7.6 Quick-Fill Adapter (If Applicable)**

For maintenance instructions of the Quick-Fill Adapter see Quick-Fill System manual.

### **8 Packing and Storage**

#### **8.1 Ready to Use Storage**

If a storage container or cover is used to protect against dust, oil, mist or climate it should be possible to check the pressure gauge to ensure a fully pressurised cylinder and to identify unauthorised opening. The device should be stored in a way that it is readily available in any emergency situation and can be donned in 20 sec ( see section 3.2).

#### **8.2 Storage Conditions**



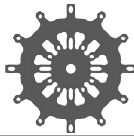
Store in a dry place, free from dust and dirt, at a storage temperature between -15 °C and + 25 °C. Protect device against direct sunlight. Do not store the device or spare cylinder and valve assemblies within or near an area where the respirator can or might be exposed to any substances that will attack any part of the device, causing the device NOT to perform as designed and approved.

For additional storage information, see the manuals for the parts of the device.

## 9 Technical Data

Operating Data		
Operating pressure	300 bar	
Warning signal (optional)	set at min. 200 l remaining air	
Warning signal activation pressure	100 bar +10 bar	
Working pressure range of pressure reducer (medium pressure)	4,0 to 8,5 bar	
Working pressure of the rescue airline (compressed air feeding hose)	6.0 bar to 8.0 bar	
Permissible operating temperature		
when using the 3S-PS-V-MaXX(CIS) full face mask	-40 °C to +60 °C	
when using the 3S-PS-MaXX full face mask	-30 °C to +60 °C	
Storage temperature range	-15 °C to +25 °C	
Weight (complete device)		
with 2 l 300 bar steel cylinder (full) and MSA full face mask	7,3 kg	
with 2 l 300 bar steel cylinder (empty) and MSA full face mask	6,6 kg	
with 2 l 300 bar composite cylinder (full) and MSA full face mask	5,2 kg	
with 2 l 300 bar composite cylinder (empty) and MSA full face mask	4,5 kg	
with 3 l 300 bar composite cylinder (full) and MSA full face mask	6,0 kg	
with 3 l 300 bar composite cylinder (empty) and MSA full face mask	5,0 kg	
Shelf life of cylinders		
Steel	unlimited	
Composite	15 years (see label)	
Cylinder size	Rated service duration based on 35 l/min breathing rate	
	Filling pressure 200 bar	Filling pressure 300 bar
2 l	10 min	15 min
3 l	15 min	20 min

## 10 Certification

<b>Approvals</b>	The compressed air breathing apparatus conforms to the Directives 89/686/EEC and 94/9/EG. It is a unit with compressed air in accordance with EN 402 and ISO 23269-1.
	<p>when using 3S-PS-MaXX</p> <p>I M2</p> <p>II 2G IIB T6 <math>-30\text{ °C} \leq T_a \leq +60\text{ °C}</math></p> <p>II 1D</p> <p>when using 3S-PS-V-MaXX (CIS)</p> <p>I M1</p> <p>II 1G IIA T6 <math>-40\text{ °C} \leq T_a \leq +60\text{ °C}</math></p> <p>II 1D</p>
	0158
	0736
DEKRA	DEKRA EXAM GmbH, Dinnendahlstr. 9, 44809 Bochum, Germany, Notified Body number: 0158

## 11 Ordering Information

### PremAire Combination Sets

Description	Part No.
PremAire Combination, 3S, with 2l steel cylinder (empty)	10124784
PremAire Combination, 3S, with 2l composite cylinder (empty)	10124796

### Replacement Parts/Accessories

Description	Part No.
3S-PS-MaXX	10031422
3S-PS-V-MaXX (CIS)	10098236
MSA anti-misting agent klar pilot Super Plus	10032164
AutomaXX-AS ,T, PremAire	10127216-SP
PremAire Combination Holster Assembly	10124536-SP
Waist Belt, PremAire	10124522-SP
Waist Pad Assembly, PremAire	10124528-SP
PremAire Waist Belt Extension	10124537-SP
PremAire Combination Shoulder Harness	10124538-SP
AutoMaXX-AS Demand Valve Holder (pack of 5)	10118878-SP
PremAire Combination Valve Cover with screws	10143181
PremAire QuickFill Connector (Quick-Fill adapter)	10127956-SP
Excess flow valve	10151583-SP
O-ring 18X2.65 EPDM (pack of 10)	10091616
2l 300 bar steel cylinder	10125920-SP
2l 300 bar composite cylinder	10125508-SP
3l 300 bar composite cylinder	10128961
PremAire Combination Cylinder Cover 2l	10128070-SP
PremAire Combination Cylinder Cover 3l	10125310-SP
Leg Strap Assembly, PremAire Combination (pack of 5)	10148378-SP
PremAire Combination Storage Case	10126349-SP
Protection cap nipple Ø 12 (pack of 5)	10068513-SP
Quick-Fill Coupling protector	D4075962-SP

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For further local MSA contacts please go to our web site ***[www.MSAafety.com](http://www.MSAafety.com)***.