



AirMaXX[®] & AutoMaXX[®]

[Compressed Air Breathing Apparatus System]



One for All

[Flexible Compressed Air Breathing Apparatus System]

The premium compressed air breathing apparatus system from MSA is designed for optimal ergonomics. Developed in close cooperation with international fire service specialists and respiratory protection experts, the compressed air breathing apparatus AirMaXX® and the lung governed demand valve AutoMaXX® set milestones for fire fighting around the world.



AirMaXX® Gives You the Choice:

- Normal pressure or positive pressure
- 200 bar or 300 bar
- 1 or 2 cylinders of steel or light composite material

Do you Have Special Needs?

- Do you want the warning signal close to the ear?
- Do you need the additional safety of the ICU, the Integrated Control Unit, instead of a pressure gauge?
- Do you expect the speed of the Quick-Fill connection?
- Do you want a Second Connection for rescue applications?

The Various Configuration Options of the AirMaXX® Permit Individual Apparatus Solutions.





With the AirMaXX® You are on the Safe Side!

Not only now, but also in the future. Because the AirMaXX® is designed for simple retrofitting of electronic modules, e. g. telemetry.

MSA AirMaXX®, safety today and in the future!



*AirMaXX®S
Retreat signal near the ear
[For noisy applications]*



*AirMaXX®Z
The universal Second Connection for
rescue applications [Safety for two]*



*AirMaXX®Q
The Quick-Fill connection permits charging
the cylinders with the apparatus donned
[Filling of air in 45 sec]*

**RedDot Award
International Prize for Outstanding
Design**

The AirMaXX® has received the RedDot Award 2001 for its outstanding product design.

The RedDot Award is a world-wide recognized and prestigious prize of the product design industry.

It is awarded annually by the Design Center Nordrhein-Westfalen. In 2001, the jury had to choose between a total of 1.523 entries from 24 countries.

Honored
with the



reddot
award 2001
product design



AirMaXX[®] – the Basic Apparatus

[Ergonomics & Comfort for Safety]



*AirMaXX[®] basic apparatus
[Comfort is standard]*

One for all: The MSA AirMaXX[®] has a carrying plate with triple length adjustment.

Adjustable quickly and safely with large clips to the user's height also during work; the apparatus fits everyone.

Optimal Ergonomics Ease the Heavy Work

The harness, developed using data from the latest anthropometric studies, fits without pinching and all adjustments are made quickly, also with gloves!

The ergonomic S-swing of the shoulder straps allows freedom of movement for the arms. The swivelling hip belt follows extreme movements with elasticity.

The swivel range is limited and the padded stop adds to the feeling of safety.

The AirMaXX[®] fits snugly and securely, even if you are turned upside down!

Changing the cylinders is no problem: patented slide studs make changing simple and easy. On closing the cylinder strap buckle, the slide studs are pressed down and the cylinder is secured absolutely safe in position. With the handy bracket the length of the strap is quickly extended. Thus, cylinders of different size are quickly exchanged!



*AirMaXX[®] carrying plate
The triple length adjustment assures comfortable wearing [Utmost flexibility]*



*AirMaXX[®] harness
Hip belt and shoulder pads assure pleasant wearing and optimal fit [Simply comfortable]*



*AirMaXX[®] cylinder retainer
Exceptionally simple and quick cylinder change [Simply quick]*

AutoMaXX® – the Demand Valve

[The Heart of the SCBA System]

AutoMaXX® – the Safe One

The large operating buttons are positioned where you expect them. The housing is designed that it cannot get caught and that blows are deflected. The protective cap assures highest operating safety: even in case of damage, the AutoMaXX continues to function.



AutoMaXX®-N
Normal pressure lung governed demand valve according to EN 148-1
[Cutting – edge tradition]

AutoMaXX® – the Comfortable One

Maximum freedom of movement since the connections to facepiece and medium pressure line swivel. The silicone line remains flexible also at lowest temperatures. The semiglobe shaped housing is handy and the coloured operating buttons can be pushed easily also with gloves. The lung governed demand valve is easily activated with the first breath and operates very quietly. A lung governed demand valve of the luxury class!



AutoMaXX®-AE
Standard high pressure connector with M 45 x 3 thread according to EN 148-3
[Updated classic]

AutoMaXX® Maintenance Friendly

The valve assembly does not need repeat lubrication. The protective cap is removed quickly, permitting check of the diaphragm. A delight for every service technician!

The AutoMaXX® is available in the following versions:

- N: Normal pressure with standard round thread
- AE: Positive pressure with M 45 x 3
- AS: Positive pressure with MSA plug connector
- AS-C: combines AE and AS



AutoMaXX®-AS
Positive pressure lung governed demand valve with MSA plug connector
[Fully automatic air supply]

AutoMaXX® – a Successful Design



AutoMaXX® with positive pressure – valve open



Valve closed



AutoMaXX®-AS-C:
Combines the standard M 45 x 3 thread with the handy plug connector
[Crossing generations]



The Facepieces for the AirMaXX®

[Well Connected]



Ultra Elite-PF with AutoMaXX-AS
[Highest Comfort]



Ultra Elite-PF-EZ with Easy-don Nomex
harness. Also for the 3S full face mask series.
[Perfect fit]

Ultra Elite

Ultra Elite – the innovative full face mask from MSA, developed according to the requirements of the user, with future-oriented design, exemplary ergonomics and state-of-the-art technology. Every detail fits the user's requirements optimally.

- Available in over 40 different versions for your convenience
- Silicone or rubber faceblank
- Two sizes
- Rubber, silicone or Nomex Easy-don harness
- Mask-helmet-attachment in place of the harness
- Almost natural, undistorted field of vision
- Exemplary wearing comfort
- Excellent speech transmission
- Polycarbonate lens, coated with silicate on both sides
- TPE [thermoplastic elastomer] nose cup with small dead space

There is a comprehensive range of accessories for the Ultra Elite full face mask series – a perfect complement for the professional application.

Please refer to our leaflet ID 05-418.1 ITL.

All Masks According to EN 136

Class 3, according to type

- With standard thread according to EN 148-1
- With thread M 45 x 3 according to EN 148-3
- With MSA plug connector for LA 96-AS and LA 88-AS or AutoMaXX®-AS

3S

3S – the most successful full face mask design in the world with over 5 millions units sold.

Available as normal or positive pressure version. The upgraded version offers more user comfort, without changing the 3S classic style.

- Over 50 versions for virtually all applications
- Silicone or rubber faceblank
- Two sizes
- Rubber, Silicone or Nomex Easy-don harness
- Mask-helmet attachment in place of the harness
- Soft face seal
- Large harness attachment area
- Wide sealing edge and deep chin up
- Perfect facepiece-to-face fit
- Easy to maintain

As well for the 3S full face mask series there is a wide range of accessories. Please refer to our leaflet ID 05-405.2 ITL.



3S-H-PS-MaXX-P with AutoMaXX®-AS
[Tradition & future combined]

Mask-Helmet-Combinations

For work with helmet-mask-combinations we offer Ultra Elite and 3S mask versions adapted for use with helmets.

Special adjustable rubber straps allow attaching the mask to the helmet quickly and securely, without need to take off the helmet. Similarly, the mask can be comfortably detached from the helmet if there is no longer a need for respiratory protection during work. Please refer to our leaflet ID 05-432.1 ITL.



3S-H-PS-MaXX F1
[with MSA GALLET helmet]



Ultra Elite H-PF-F1
[with MSA GALLET helmet]

ICU – The Integrated Control Unit

[...for the Additional Information]



Use modern electronics to make your work safer!

The ICU calculates based on your current air consumption, how long your air supply will last, also, if required, in case of a longer retreat time.

There is an audible warning when the pressure drops below 150, 100 and 60 bar.

The integrated motion sensor gives alarm if there is no movement for 20 seconds.

In an emergency you can also give alarm manually.

With a large button you can switch from the individual readings of cylinder pressure, remaining service time and temperature. Symbols clearly indicate which reading is being shown. Of course the display can be illuminated.

The ICU records all data up to 30 work applications. All data can be read and processed with a software [accessory] via the infrared interface. All alarm levels can be freely set with the software.

As soon as the cylinder valve is opened, the ICU is activated. With the key version ICU-S, the key is deposited at the operations centre for identification.

In order that you can quickly read the remaining cylinder pressure, we have retained the mechanical pressure gauge.

The ICU: proven optics plus additional safety!

Please refer to our detailed leaflet ID 01-155.2 ITL.



The ICU Displays

- Remaining service time
- Pressure
- Temperature

And gives Alarm

- At low cylinder pressure
- If the apparatus user does not move

ICU

Ordering Information

[Your Choice!]

AirMaXX® Options

| | |
|----------|---|
| 10027590 | AirMaXX basic apparatus |
| 10027591 | AirMaXX-S with signal line [S] |
| 10027592 | AirMaXX-Z with second connection [Z] |
| 10027593 | AirMaXX-S-Z with signal line [S] and second connection [Z] |
| 10027594 | AirMaXX-Q with quick-fill connection [Q] |
| 10027595 | AirMaXX-S-Q with signal line [S] and quick-fill connection [Q] |
| 10027596 | AirMaXX-Z-Q with second connection [Z] and quick-fill connection [Q] |
| 10027598 | AirMaXX-S-Z-Q with signal line [S], second connection [Z] and quick-fill connection [Q] |

AirMaXX® Options with ICU

| | |
|----------|----------------------------------|
| 10027599 | AirMaXX basic apparatus with ICU |
| 10027600 | AirMaXX-S with ICU |
| 10027601 | AirMaXX-Z with ICU |
| 10027602 | AirMaXX-S-Z with ICU |
| 10027603 | AirMaXX-Q with ICU |
| 10027604 | AirMaXX-S-Q with ICU |
| 10027605 | AirMaXX-Z-Q with ICU |
| 10027606 | AirMaXX-S-Z-Q with ICU |

AirMaXX® Options with ICU-S

| | |
|----------|---|
| 10027607 | AirMaXX basic apparatus with ICU-S [version with key] |
| 10027608 | AirMaXX-S with ICU-S |
| 10027609 | AirMaXX-Z with ICU-S |
| 10027610 | AirMaXX-S-Z with ICU-S |
| 10027611 | AirMaXX-Q with ICU-S |
| 10027612 | AirMaXX-S-Q with ICU-S |
| 10027613 | AirMaXX-Z-Q with ICU-S |
| 10027614 | AirMaXX-S-Z-Q with ICU-S |

AutoMaXX®

| | |
|----------|--|
| 10023686 | AutoMaXX-N [normal pressure lung governed demand valve with standard thread] |
| 10023687 | AutoMaXX-AE [positive pressure lung governed demand valve with M 45 x 3 thread] |
| 10023688 | AutoMaXX-AS [positive pressure lung governed demand valve with MSA plug connector] |
| 10023689 | AutoMaXX-AS-C [positive pressure lung governed demand valve with M 45 x 3 thread and MSA plug connector] |
| 10032072 | Adapter AS [for AutoMaXX-AS to masks with M 45 x 3 thread] |

Full Face Masks for AutoMaXX®-AS

| | |
|----------|----------------------------------|
| 10031385 | Ultra Elite PS-MaXX |
| 10031383 | Ultra Elite PS-MaXX small |
| 10031384 | Ultra Elite PS-MaXX silicone |
| 10031382 | Ultra Elite PS-MaXX-EZ |
| 10031381 | Ultra Elite PS-MaXX-EZ small |
| 10031422 | 3S-PS-MaXX |
| 10031388 | 3S-PS-MaXX silicone |
| 10031420 | 3S-EZ-PS-MaXX |
| 10045899 | Ultra Elite-H-PS-MaXX-F1* |
| 10045910 | Ultra Elite-H-PS-MaXX-F1, small* |
| 10042638 | 3S-H-PS-MaXX-F1* |

10044441 3S-H-PS-MaXX-F1, small*
For full face masks for AE, AS-C and N please refer to leaflets ID 05-405.2 ITL and ID 05-418.1 ITL.

*MSA also offers solutions for other helmets from different fire helmets manufacturers. Please ask for the leaflet 05-432.1 ITL.

The Compressed Air Cylinders...

[Working under High Pressure]



Composite

6 Liter/300 bar

- D5103976 empty
- D5103947 charged
- 10029767 with airflow restrictor, charged
weight approx. 6.3 kg, Ø approx.
156 mm, length* approx. 475 mm

6.8 liter/300 bar

- D5103979 empty
- D5103962 charged
- 10015962 with airflow restrictor, charged
weight approx. 6.6 kg, Ø approx.
156 mm, length* approx. 518 mm

6.8 Liter/300 bar with lockable valve

- D5103980 empty
- D5103973 charged, weight approx. 6.6 kg,
Ø approx. 156 mm, length* approx.
518 mm

Steel

4 liter/200 bar

- D5103985 empty
- D5103965 charged, weight approx. 5.4 kg
Ø approx. 115 mm, length* approx.
506 mm [not for use with Quick-Fill (Q)]

6 liter/300 bar

- D5103986 empty
- D5103967 charged
- 10015960 with airflow restrictor, charged
weight approx. 10.9 – 11.7 kg, Ø approx.
140 mm, length* approx. 530 mm

6 Liter/300 bar super light

- D5103987 empty
- D5103968 charged
- 10031812 with airflow restrictor, charged
- 10024010 with lockable valve, charged
weight approx. 9.1 kg, Ø approx.
140 mm, length* approx. 520 mm

*without valve

All-Composite

6.8 Liter/300 bar

- 10019155 empty
- 10019154 charged, weight approx. 6.2 kg
Ø approx. 156 mm, length* approx.
556 mm

6.8 Liter/300 bar with lockable valve

- 10019156 empty
- 10019157 charged, weight approx. 6.2 kg,
Ø approx. 156 mm, length* approx.
556 mm

*without valve

...and more!

Accessories

D4075818 **T-piece 156/300**

T-piece for two 300 bar composite cylinders [Ø approx. 156 mm]

D4085817 **T-piece 115/200**

T-piece for two 4 l/200 bar composite cylinders [Ø approx. 115 mm] [not for use with Quick-Fill (Q)]

D4075971 **Filling Connector Q**

Filling connector for Quick-Fill with pressure gauge and non-return valve, is screwed into valve of supply cylinder and permits quick charging of AirMaXX-Q apparatus

D4075929 **Filling line Q**

Filling line, 1 m, with 2 Quick-Fill couplings to connect the AirMaXX with the supply connector. In handy carrying pouch.

D4075720 **Rescue set in pouch**

D4075723 **Rescue set in carrier**

both rescue sets for all AirMaXX with Second Connection [Z] contain a 3S-EZ mask and the lung governed demand valve LA 96-NR with a 150 cm medium pressure line. For rescuing persons in distress.

D4075963 **Chest strap**

[additional protection against slipping of the shoulder straps]

D4075877 **Protective cover**

for composite cylinders, black

D4075878 **Protective cover**

for composite cylinders, yellow



Rescue Set in Action



Quick-Fill system



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)1245 600560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.