

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.



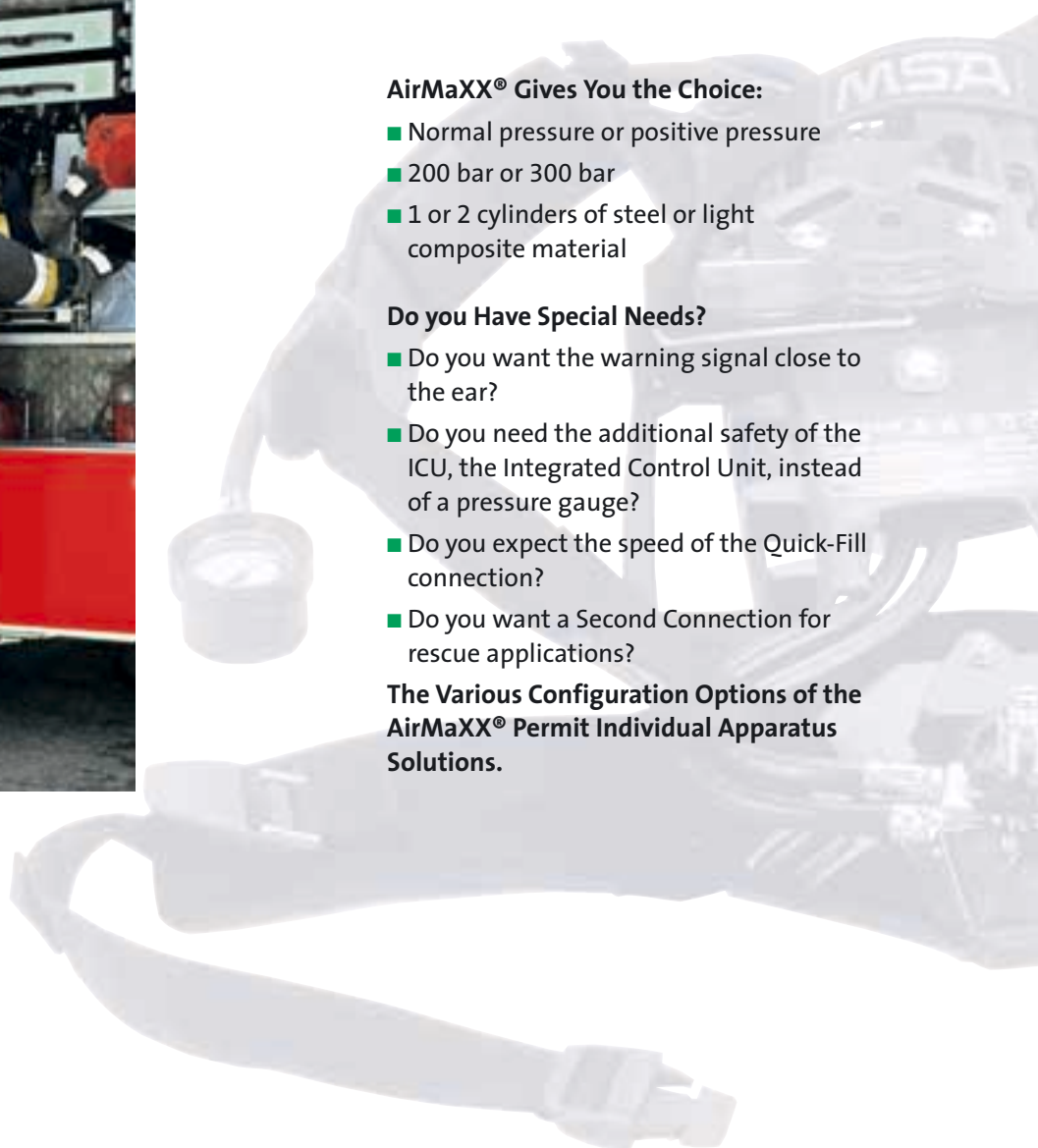
AirMaXX® Gives You the Choice:

- 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]*



*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]*

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® 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

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