

OPERATING INSTRUCTIONS AIR MAX1

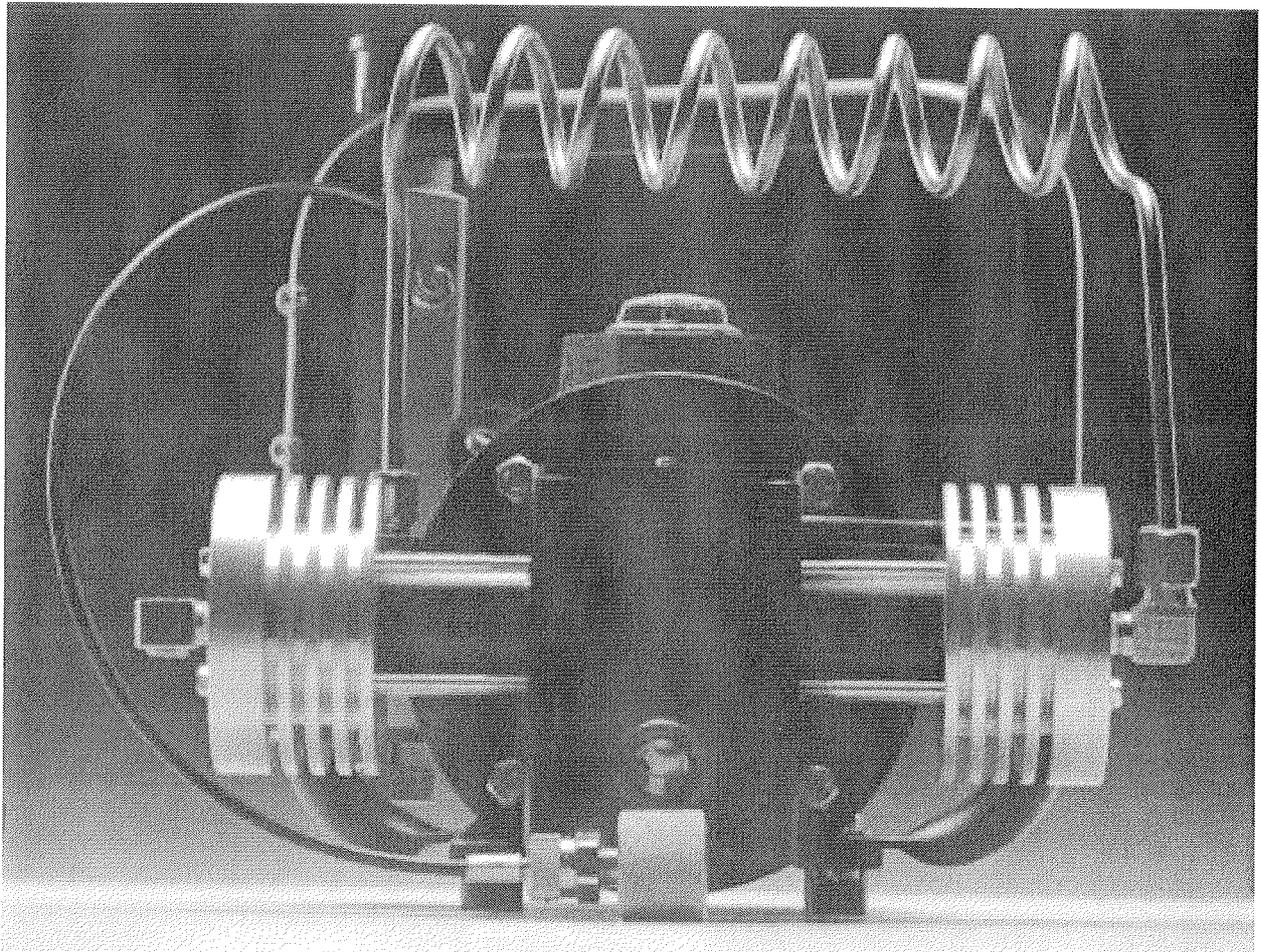


RIKA Sport GmbH & CoKG

A-4563 Micheldorf, Müllerviertel 19

Tel. ++43(0)7582 60860-0 Fax++43(0)7582 60860-20

Mail: office@rika1.com <http://www.rika1.com>



TÜV approved
Number MG 01-02879

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1.1 INTRODUCTION

The manual in hand is valid for the RIKA-Target Sport compressor only!

The indications given in this manual for safety and environmental protection, as well as the rules and regulations in handling with compressors exclusively lie in the area of applicability of the compressor mentioned in this manual.

Operators must make sure in own responsibility for the observance of the local, regional and national rules (information e.g. from TÜV), that the manual is available for the operating and maintenance staff and that the given information like hints and warnings as well as the safety regulations have to be obeyed in all details .

1.2 MANUFACTURER'S INFORMATION

For further inquiries, concerning services and spare parts needed, please contact:

RIKA Sport GmbH & CoKG

A-4563 Micheldorf, Müllerviertel 19

Tel. ++43(0)7582 60860-0 Fax++43(0)7582 60860-20

Mail: office@rika1.com <http://www.rika1.com>

1.3 CONFORMITY EXPLANATION

The manual describes piston compressors which leave the manufacturer as a functional unity which can be set up on the spot, ready for operation. That's why a device-accompanying documentation beside from a conformity explanation is provided. (See point 6.0) the appropriate distinguishing mark (CE) is attached on the separator housing.

1.4 WARRANTY

Range, period and form of the warranty are fixed in the sales and delivery conditions of the RIKA Sport GmbH & CoKG.

For warranty claims, which result from a unsatisfactory documentation always the manual valid at the time of delivery is the deciding factor. (See section 1.5).

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Beyond the terms of delivery and sales the following points are valid:

No guarantee is taken over for damage on the supplied compressors which are a result of one or several of the following reasons:

Unawareness or disregard of this manual

By use of others than original RIKA spare parts.

By use of others than original RIKA compressor oils.

The operator has to care in own responsibility for the fact that **a not intended use** (see par. 2) as well as a wrong installation, initiation and an inadmissible operation are precluded and that, in addition, an intended use (see par. 2.2) is guaranteed and the compressor is operated according to the contractually agreed operating conditions.

1.5 ISSUE DATE

The issue date of this manual is November, 2001.

1.6 COPYRIGHTS AND PROTECTION RIGHTS

The copyright of this manual remains with the company RIKA Sport GmbH & CoKG.

1.7 NOTE FOR DISPOSAL

All waste are to be collected, correctly separated, to store and to dispose safely!
Collect liquid waste, condensates and dispose duly.

(Disposal enterprises, collecting points...)

Always avoid leakages, stains of liquid fuels or auxiliary materials!

1.8 IMPORTANT INSTRUCTIONS

Bid of reading this manual before initiating by operation staff and maintenance staff.

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2. INFORMATION ABOUT THE PRODUCT

2.1 APPLICATION POSSIBILITIES

The air-cooled RIKA SPORT GmbH & CoKG compressors find exclusively use for filling of pistol and rifle cartouches up to max. 210 cm³ /200 bar in the area of association and private use.

A pressure excess of max. 10% of the nominal filling pressure is allowed.

2.2 REGULATION PURPOSE

Due to their regulation purpose they are used and applied only, where compressed air with the normal atmospheric composition is used for filling of cartouches.

The compressor described in this manual and the compressed air produced with it may not be used where the health of humans and animals and the existence of plants or the environment can be endangered or destroyed. For the operation of the compressor described in this manual no other gases than air in normal atmospheric composition may be used beyond that.

2.3 TECHNICAL DATA

Rated power engine	0,37	KW
Speed	1410	U/min
Nominal tension	230	V
Frequency	50	Hertz
Delivery volume	Approx. 15	L / min
Operation excess pressure	200	Bar
Blow-off pressure valve	220	Bar(**)
Sound level	70	dB (A) (*)
Weight	Approx. 15	Kg
Dimension l x B x H	300 x 320 x 300	Mm

(* sound measurement by DIN 45635 T13, 1 m distance, free field

(** adjusted pressure - safety valve 220 bar

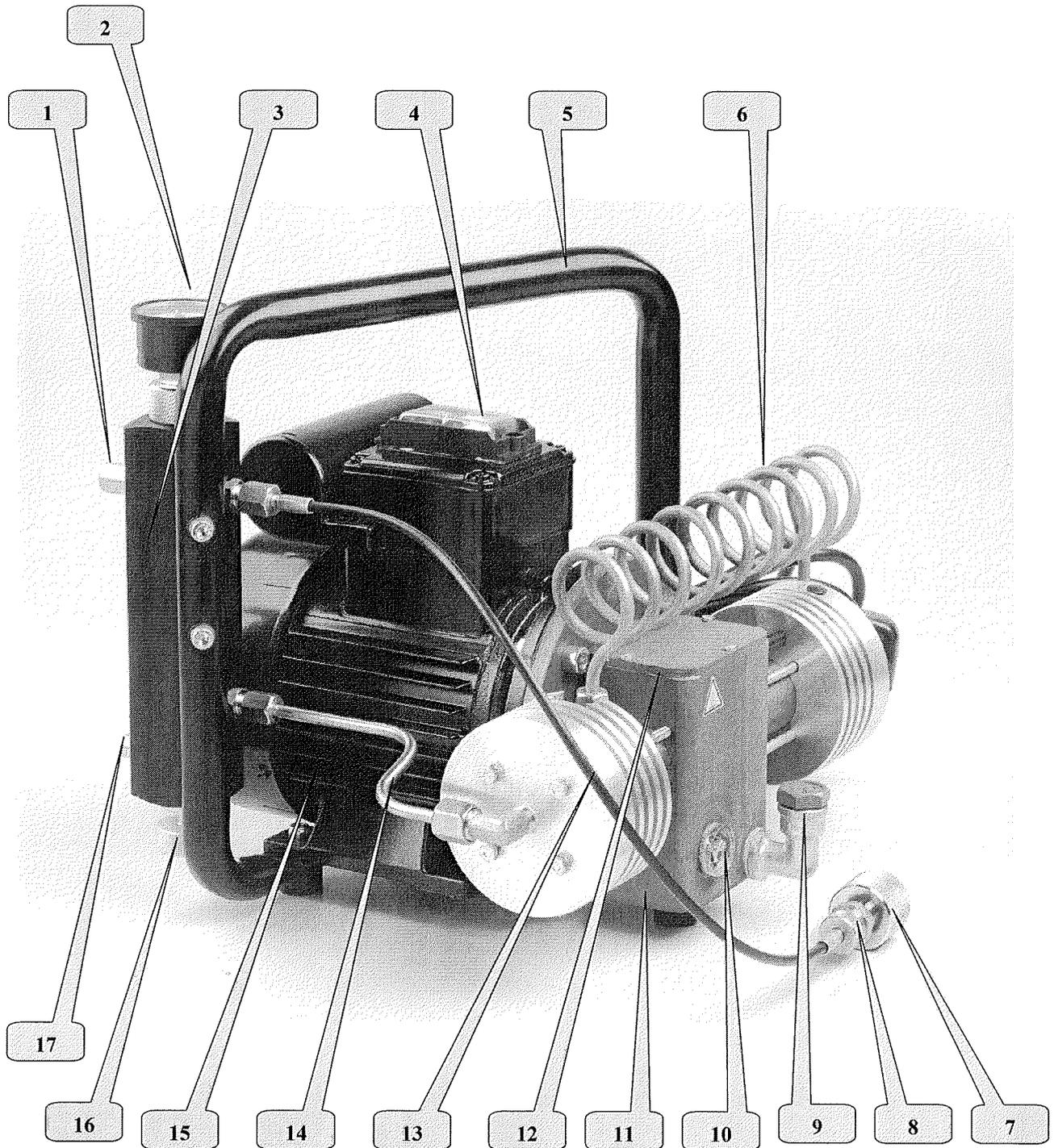
(Technical details subject to change)

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2.4 DESCRIPTION OF THE COMPRESSOR

The compressor described in this manual consists of the following building groups:



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Legend to image

- 1 Safety valve
- 2 Manometer on the separator
- 3 Separator housing with integrated filter cartridge
- 4 On/Off switch
- 5 Handle
- 6 Intermediate cooler pipe
- 7 Cartouche filter connector 5/8" – DIN 200 bar
- 8 Integrated check valve
- 9 Oil filling plug/oil drain off plug
- 10 Oil level indicator
- 11 Crank case
- 12 Crank case cover
- 13 Flexible high-pressure pipe
- 14 Pressure pipe
15. Driving motor
16. Bleeding screw
17. Condensate blow-off opening

2.5 ELECTRIC CONNECTION

Operating voltage 230 V / 50 hertz
Fuse protection 12 (A) slowly-acting.
Inlet at least 3 x 1,5 mm², starting from 20 meters 3 x 2 mm²
The motor protection is integrated in the engine.

Note:

By use of a cable drum pay attention to the fact that the cable must be unreeled completely to avoid resistance. The cable cross section at a length of 20 meter must be at least 3 x 1,5 mm², more than 20 meter length at least 3 x 2 mm²

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2.6 FUNCTIONAL DESCRIPTION

The RIK A Sport GmbH & CoKG compressor is an air compressor with two-stage impact (grant to a patent declared) which is driven through a directly flanged electric motor with adjacent crankshaft. The proved boxers arrangement of the detached cylinders result an excellent mass balance and by this smooth running as well as a very good cooling.

The lubrication of the bearings and the engine is effected by oil turbulence in the crack case. The piston of the 1st compression stage is equipped with piston rings. The sealing of the piston of the 2nd compression stage effected via very close tolerance. as well as by a particularly developed wear-free oil/air wedge sealing. The engine bearings are provided with a continuous grease lubrication.

Automatic compressor valves in the cylinder heads control sucking in and shoving out of air. After flowing through the pressure pipe compressed air comes into the two-stage separator, where air is pre-cleaned from condensates and finally cleaned in the filter cartridge. The separator is equipped with a safety valve, serves as blow-off valve at the same time. By reaching the adjusted maximum pressure the valve opens and lets the still compressed air out. In the pressure-free condition the valve closes automatically. A check valve integrated in the cartouche filler connector prevents that remaining air from the cartouche can flow back.

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2.10 BLOW-OFF VALVE

This valve is integrated in the function of the safety valve (1) and makes a blowing off the surplus air possible when reaching the adjusted maximum filling pressure.

2.11 EMISSIONS

For compressors only the information on the excess pressure is required for determining the emission.

The measuring method and the measurements carried out according to the guidelines of the DIN 45635 - measuring procedure for compressors

3. INFORMATION TO THE PLACE OF ACTION

3.1 SETTING UP THE COMPRESSOR

The RIKA Sport GmbH & CoKG compressors are suitable exclusively for inside setting up (in rooms).

The place of setting up should be dust free and frost-free. Surroundings temperature + 2 °C, max. 30 °C. The compressor still operates with a tension tolerance of +/- 5%.

Keep the suck air from inflammatory and aggressive components.

3.2 TRANSPORT

For transportation purposes the compressor must be pressure free - open bleeding screw (16). Forbear to slop and tip over of the compressor, because danger is given by oil leakage.

3.3 STORAGE

It must be paid attention to the fact that the compressor is kept dry and protected against weather.

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4. OPERATION - FILLING PROCEDURE

WARNING: BURNING DANGER BY HOT TEMPERATURES.

USE EAR PROTECTORS!

DON'T TIP OVER AND SLOP THE COMPRESSOR!

OIL OR FAT SUBSTANCES MAY NOT BE BROUGHT INTO THE SUCKING IN OPENING –
EXPLOSION DANGER!!

4.1 INITIAION - OIL CHANGE

By any visible damages the compressor may not be taken in operation
In the safety valve no changes may be carried out.

Before putting the compressor the first time into operation, fill in oil (correct oil level = high border of the oil level indicator)

Before every other operation always check oil level. Refill if necessary oil. The oil level may not drop under oil level indicator middle during the operation!

Required quantity of oil for oil change = approx. 0,1 liters

NOTE! Use exclusively original RIKA Target Sport GmbH compressor-oil!

First oil change after 50 filling procedures, in sequence all 500 fillings, or at least once a year.

4.2 FILLING PROCEDURE

- a) Make sure that bleeding screw (16) in the separator housing (3) is opened.
- b) Connect a pistol or rifle cartouche suitable for the filling pressure with the cartouche filling connector (7). Place the cartouche in the area of the separator housing (3). **NOTE:** Use suitable adapter for the desired cartouche! Screw the adapters by hand into the cartouche filling connector.
- c) Start compressor with opened bleeding screw (16).
- d) After approx. 2-3 sec. running time of the compressor close bleeding screw (16) and do filling procedure up to max. permissible filling pressure (200 bar).

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- e) By reaching the filling pressure, open bleeding screw (16) quick $\frac{1}{4}$ rotation. Switch off compressor after approx. 2 - 3 sec. Besides, must be considered that the separated condensate with rest pressure escapes from the condensate drain opening (17). Be careful!
- f) Unscrew filled cartouche from the cartouche filter connector (7).
- g) A break from at least 1 minute up to the next filling procedure must be kept. Longer cooling down phases reduce the wear of the compressor.
- h) With strong heating of the compressor a longer cooling down phase must absolutely be kept. We recommend a continuous cooling phase. by natural radiation after max. 10 filling procedures one behind the other of at least 10 minutes.
- i) Guidelines for filling of cartouches

Pistol cartouche (73 cm ³ of 0 - 200 bar)	approx.. 55 - 70 seconds
Rifle cartouche (210 cm ³ of 0 - 200 bar)	approx. 150 - 180 seconds

The indicated filling times depend strongly on the respective physical condition of the sucked in air! (barometer pressure, temperature, dampness).

A constant exceeding of these approximate values can point on technical lack. A thorough examination of the equipment has to be carried out

4.3 USER INSTRUCTION AND SAFETY REGULATIONS FOR SEPARATING HOUSING (WATER TRAP B-10-002)

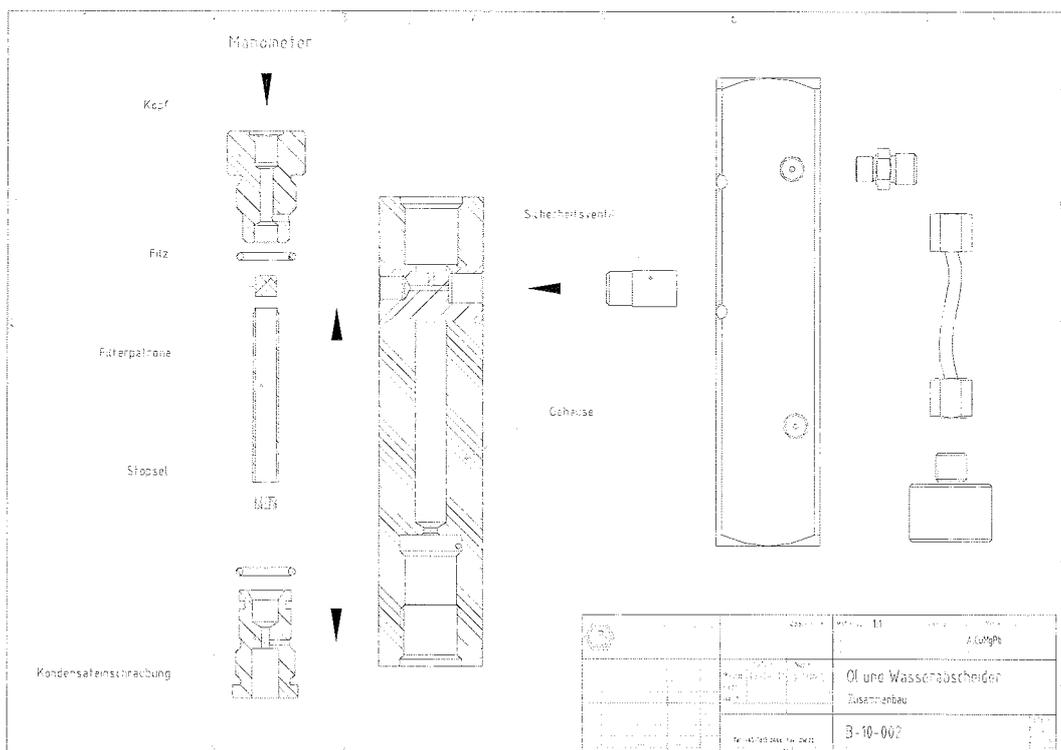
- ❖ The safety valve (1) is adjusted and sealed on an opening pressure of 220 bar At the safety valve spare parts may not be changed and the seal may not be removed.
- ❖ In case of leakage, the safety valve is to be replaced by a new one.
- ❖ The cartouche which is to be filled may not be cooled down under the environment temperature before filling.
- ❖ The flexible high pressure pipe (13) may not be crushed and has to be replaced every three years by a new one.
- .
- ❖ At visible damage on the flexible high pressure pipe (13) do not operate the compressor
- .
- ❖ The number of fillings may not exceed 440.000.

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- ❖ The filling must be finished through switching off by the compressor at 200 bar. Filling up to activating the safety valve is not allowed and reduces the life span of the safety valve.
- ❖ The filter cartridge has to be replaced after approximately 500 fillings by a new one.
- ❖ The separator housing (3) must be firmly screwed onto the handle (5) of the compressor.
- ❖ The separator housing (3) may be used for no other purpose.
- ❖ The identification plate with the following information may not be removed
 Manufacturer: Rika Sport GmbH & CoKG, A-4563 Micheldorf
 Type: AirMax¹
 Year of construction:
 Factory number:
 PS: 220 bar V: 0,011 l
 TS: -10 / + 50 ° C
 TÜV A / MHF/MG01-02879

Water trap housing B-10-002 (examined by TÜV – Test report 3177/WIS/BEB – of 13.04.2001)



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5. MAINTENANCE

In addition, the indications and regulations, point 4.3, for the operation of the water separator are to be kept absolutely!

5.1 REGULAR MAINTENANCE

The regular maintenance is limited to oil change and filter cartridge change. For maintenance and/or for changing the filter cartridge please consider point 5.4!

The oil change is to be carried out according to the intervals given in table 5.2. Before every service pay attention to the fact that the compressor is separated from the electric net. Note that the compressor is pressure-free. Open the bleeding screw (16) in the separator housing to be on the safe side. Open the oil filling plug (9) in order to empty the oil from the crank case (11), then tilt the compressor so that the oil from the oil filling neck (9) escapes. Empty the oil in a suitable drainer. Consider the disposal regulations in accordance with point 1.7! Fill now original RIKA compressor oil by the oil filler neck into the crank case (11), until the oil level is with the top margin of the oil level indicator (10). (Note: pay attention to the horizontal state of the compressor!) Close now the Oil filling plug (9)!

5.2 MAINTENANCE TABLE

The number of the filling procedures is to be recorded in following list. Per filling procedure please fill in the date of the filling.

The first oil change is to be carried out after 50 full small boxes. Please fill the date of the oil change in the 4th column (date 2) or fill the date in the 4th column in sequence after 500 fillings!

Afterwards an interval of 500 full small boxes is to be kept absolutely. If the number of marked small boxes determining for maintenance should not be achieved within a year, then nevertheless a maintenance with oil change must be carried out not later than at the end of the year.

We recommend to copy the stated table (page 15) and to deposit it visibly for everyone in the area of the filling place. It's on the operators authority to make the filling notes of the compressor conscientiously. The operator is fully responsible for damage. which result from insufficient maintenance.

When sending in the compressor for service works or complaints a copy of this duly filled out maintenance table has to be enclosed!!!

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5.3 DISTURBANCES - REMEDY

DISTURBANCE	CAUSE	REMEDY
Compressor engine runs; no compression	Pressure control valve of the 1st step does not seal	Cleaning of the valve if necessary renew valve sealing disk - point 5.5
Compressor engine runs; Compression up to approx. 30 bar	Pressure control valve of the 2nd step does not seal	Cleaning of the valve if necessary renew valve sealing disk - point 5.5
Engine don't run	Engine protection switch has reacted, overheating of the engine, Bleeding screw (16) is closed	Check inlet cables - section 2.5; Check compressor on mechanical defects; cool; Open the bleeding screw (16)
Knocking noises of the compressor engine	Raised wear of the engine warehouses-triebwerklager	Check bearings; if necessary equip with new bearings - only by specialist dealer RIKA- Target Sport GmbH
Filling pressure is not reached within the prescribed time	Safety valve does not close Bleeding screw (16) does not seal	Renew Valve Open bleeding screw and close again

**VALVE REPAIRS MAY BE EXECUTED ONLY BY AUTHORIZED CONTRACT DEALERS
OR THE FIRM RIKA TARGET SPORT GMBH THROUGH NON-OBSERVANCE THE
WARRANTY EXPIRES
SEE POINT 5.5**

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5.4 FILTER CARTRIDGE (INTEGRATED IN THE SEPARATOR HOUSING (4))

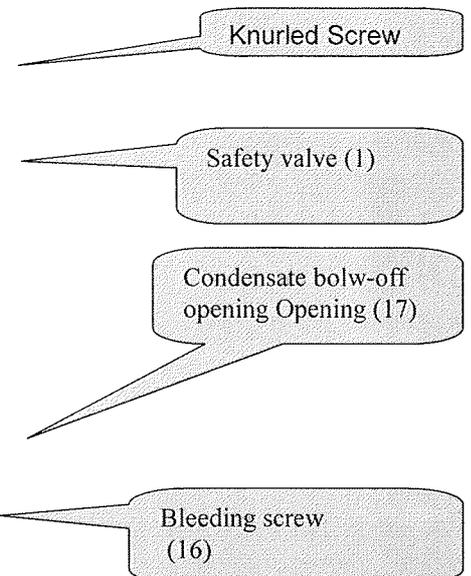
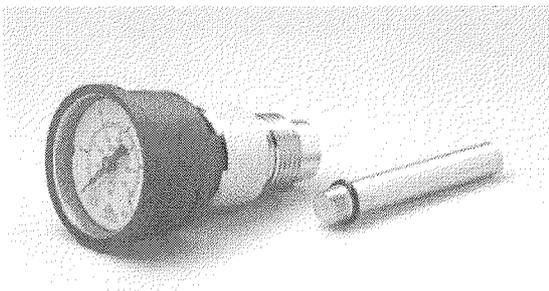
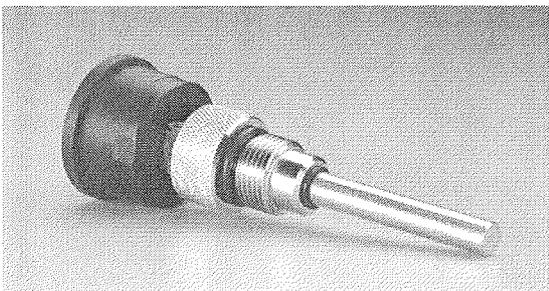
We recommend you for reasons of safety to change the filter cartridge in the prescribed maintenance intervals (point 5.2). Only so is guaranteed that the cleanest and dry air for filling the cartouches is produced. and the perfect function of your sporting good is guaranteed

The filter cartridge is available at the company RIKA Sport GmbH & CoKG.

Changing of the filter cartridge

Change the filter cartridge according to the intervals given in in table 5.2 . Before each service make absolutely sure that the compressor is separated from the electrical net. Note that the compressor is pressure-free. To be on the safe side open the bleeding screw (16) at the separator housing (3).

Now you unscrew the knurled screw from the separator housing (3). Note! Screw only at the knurled screw and not at the manometer (danger of fracture). The filter cartridge is screwed into the knurled screw. The filter cartridge can be removed by turning counterclockwise. To ease this activity you can use combination pliers or similar tools without problems. Screw in the new filter cartridge and fix with combination pliers or similar. Pay attention to the fact that the filter cartridge is not damaged, thereby (scratch). Put the O-ring on the filter cartridge and pay attention to the correct positioning of the O-ring. Insert the knurled screw into the separating housing (3) and fix by moderate tightening.



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5.5 VALVE REPAIR

Valve repairs may only be carried out by authorized contract dealers or the company RIKA Target Sport GmbH.

Before every valve repair make absolutely sure that the compressor is separated from the electrical net. Note that the compressor is pressure-free. To be on the safe side open the bleeding screw (16) at the separator housing (3).

According to valve (high pressure or low pressure) dismantle the appropriate pressure pipes, while breaking off the Ermeto screwed joints. Screw afterwards the pipe joint from the cylinder head. Now you take carefully the valve parts out of the valve drilling. Check the valve seal at the foot of the valve drilling for damage and/or contamination. After cleaning carefully or using a new valve seal you reinstall the valve parts according to the correct order. Now moderately seal the pipe screwed joint with Teflon band and screw into the valve drilling. Finally bring the pipe screwed joint with wrench under moderate tighten in the correct position. Now the pressure pipes are connected again and tightened.

Now the compressor is ready for operation again.

5.6 TIGHTENING MOMENT

Thread	Tightening moment [Nm]
M4	2,7
M5	5,5
M6	9,5
M8	23

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6. CONFORMITY EXPLANATION

CONFORMITY EXPLANATION

For machines in accordance with EG guideline 98/37/EG

Manufacturer: RIKA SPORT GmbH & CoKG
Müllerviertel 19
A-4563 Micheldorf

Kind of machine: High pressure - compressor

Design: Air - Max

Serial number:

Regulations. to which the machine corresponds:

- machine safety regulation MSV: BGBl.306/1994 and thus
- EG guideline machines 98/37/EG
- EN 292. EN 349. EN 418. EN 60204-1

Certified place : Austria TÜV
Identification number.: 0408 A-1015 Vienna, Krugerstrasse 16

Certificate about conformity check: TÜV A / MHF/MG01-02877

The undersigned confirms herewith that the engine described above comes up to the stated regulations and corresponds with that model of the machine. from that the Certified place has submitted the conformity investigation stated above.

Company:

Signature:

Place. date Micheldorf. November 2001

name/function:
Hans Jürgen Strittl
(managing director/technical leader)

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7. PARTS LIST

	Designation	Qty.	Drawing Number
MOTOR - KURBELGEHÄUSE	Motor Typ 71/4C-7, 0,37kW, 230V/50Hz, 1500 U/min, ISOk1. F /IP54, Baugröße 71, mit Anschlußkabel (2m), EIN/AUS- Schalter mit Motorschutz	1	
	Anschlußflansch	1	1104 2008
	Kurbelgehäuse geschweißt	1	1104 2010
	↘ Kurbelgehäuse	1	1104 2002
	↘ Kurbelgehäuseboden	1	1104 2004
	↘ Schweißbolzen M6 x 10	1	DIN 32501/3
	Kurbelgehäusedeckel	1	1104 2006
	Tragbügel	1	1104 2012
	Gummipuffer D20 x 15, 55SH, 1 x M6 AG x 18	2	
	Gummipuffer E20 x 20, 55SH, 1 x M6 IG	1	
	Wellendichtring WDRA 14 x 22 x 4	1	
	Ölschauglas mit Korkdichtung	1	Best.Nr.5098660
	Senkschraube mit I-Sechskant	4	M5 x 16
	Zylinderschraube mit Schlitz	3	M3 x 10
	Imbusschraube mit I-Sechskant	2	M6 x 30
	Unterlegscheibe	3	6,4 x 18
	Selbstsichernde Mutter	3	M6
	Imbusschraube mit I-Sechskant	1	M6 x 25
	Imbusschraube mit I-Sechskant	4	M8 x 30
	Mutter	4	M8
	Federring	4	A8
Öleinfüllschraube Typ GN 740	1	G 3/8"	
Messingbogen MSF 3092	1	D 3/8"	

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LUFLEITUNGEN	Designation	Qty.	Drawing Number
	Zwischenkühlerleitung	1	1104 2082
	Druckleitung	1	1104 2084
	Winkeleinschraubverschraubung - Nachbearbeitung	2	1104 2040
	Einschraubverschraubung	1	
	Abscheideeinheit inkl. Kohlefilter Sicherheitsventil 220 bar, Handentlastungsschraube, Füllschlauch 500 mm lg, Gewindeadapter 5/8" mit Außenrändel	1	B-10-002
	Manometer	1	

KOLBEN-KURBELTRIEB	Designation	Qty.	Drawing Number
	Kurbelwange	1	1104 2046
	Kurbelzapfen	1	1104 2048
	Kolbenstange	1	1104 2044
	Kolben	1	1104 2026
	Kolben montiert	1	1104 2040
	Schubstange	1	1104 2042
	Hochdruckkolben	1	1104 2036
	Spannmutter	1	1104 2058
	Paßstift	1	Ø4 x 28
	Kolbenring Rechteckring 032/023 RCA 06493	3	RCA 06493
	Nadellager	1	HK0808B
	Nadellager	1	HK0408B
	Sechskantschraube M5x25	1	M5 x 25
	Zahnscheibe	1	A 5,3
Kompressoröl RIKA 827		Ca. 0,1 Liter	

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ZYLINDER - VENTILE	Designation	Qty.	Drawing Number
	Zylinderkopf 1.Stufe	1	1104 2022
	Zylinderkopf 2.Stufe	1	1104 2032
	Laufbüchse 1.Stufe	1	1104 2024
	Laufbüchse 2.Stufe	1	1104 2034
	Rechteckring (Ventildichtung)	2	1104 2066
	Saugventil	1	1104 2052
	Ventilkörper	2	1104 2054
	Führungskörper	2	1104 2056
	Saugventilfeder	1	1104 2062°
	Ventildruckfeder	2	1104 2064
	Niederhaltefeder	2	1104 2068°
	O-Ring –13 x 2 f. Ansaugventil	1	Ø13 x 2
	O-Ring –13 x 2 f. Laufbüchse 2.Stufe	1	Ø13 x 2
	Selbstsichernde Mutter	1	M3
	Sechskantschraube	8	M5 x 100
Zahnscheibe	8	A 5,3	
Entlüftungsschlauch	1	Ø 8 x 90	
Rundstopfen schwarz	1	SFL 10	

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8. ATTACHMENTS



Maschinen-, Hebe- und Fördertechnik
Fachbereich Maschinen- und Gerätesicherheit
Akreditierte Prüf-, Überwachungs- und Zertifizierungsstelle
Notified Body 0408



GUTACHTEN

über die Konformitätsuntersuchung

TÜV-A/MHF/MG01-02879

Auftraggeber: RIKA Target Sport GmbH
4563 Micheldorf, Müllerviertel 19

Hersteller: RIKA Target Sport GmbH
4563 Micheldorf, Müllerviertel 19

Art der Maschine: Hochdruck - Kompressor

Bauart/Type: Air - Max

Beschreibung: Tragbarer Doppelkolben -- Luftkompressor (max 200 bar)
mit Elektroantrieb zum Befüllen von Kartuschen für
Sportschützen

Prüfgrundlagen: EG- Richtlinie Maschinen 98/37/EG in der geltenden Fassung
und somit Maschinen-Sicherheitsverordnung (MSV); BGBl. Nr. 306/1994 idgF:
EN 292, EN 294, EN 349, EN 418, EN 811, EN 954-1, EN 1012-1

Prüfungen/Untersuchungen:

- Prüfung der technischen Unterlagen
- Prüfung der Risikoanalyse gemäß EN 1050
- praktische Funktions- und Belastungsprüfungen
- Prüfung der Bedienungs- und Aufbauanleitung

Ergebnis:

Die Prüfungen/Untersuchungen der o. a. Maschine ergeben Übereinstimmung mit den Prüfgrundlagen.

Für Maschinen übereinstimmender Bauart (Serienfertigung) stehen seitens des Sachverständigen einer CE-Kennzeichnung (Konformitätserklärung) im Sinne der o. a. Richtlinie keine Bedenken entgegen, sofern herstellereinterne Maßnahmen zur Gewährleistung der Übereinstimmung getroffen sind.

Ausstellungsdatum:

Wien, am 12. Juni 2001



Prüfstelle:

Maschinen-, Hebe- und Fördertechnik
Maschinen- und Gerätesicherheit

Sachverständigen:

Ing. S. König

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9. WARRANTY EXPLANATION

By returning this warranty form the warranty claims extend from 6 to 12 month!

Warranty form AIR MAX ¹	
Serial number:	.....
Purchase date:	.....
Specialized dealer:	.....
Shooting Club:	.....
Name:	.....
Address:	.....
Postal code and location:	.....
Phone number:	.....
Fax number:	.....
Email:	.....
Association:	.....

Please return this page completely filled out.
By this, enquiries can be answered more effective and keeping you informed in case of technical changes is immediately possible.