



AUTOGEN-RITTER GmbH

Schutzgas-Schweißbrenner MIG-MAG WIG/TIG Plasma Ersatzteile

Quality Welding Solutions since 1920.

AiR WeldGuard® **MSG-Fume Extraction Torch**

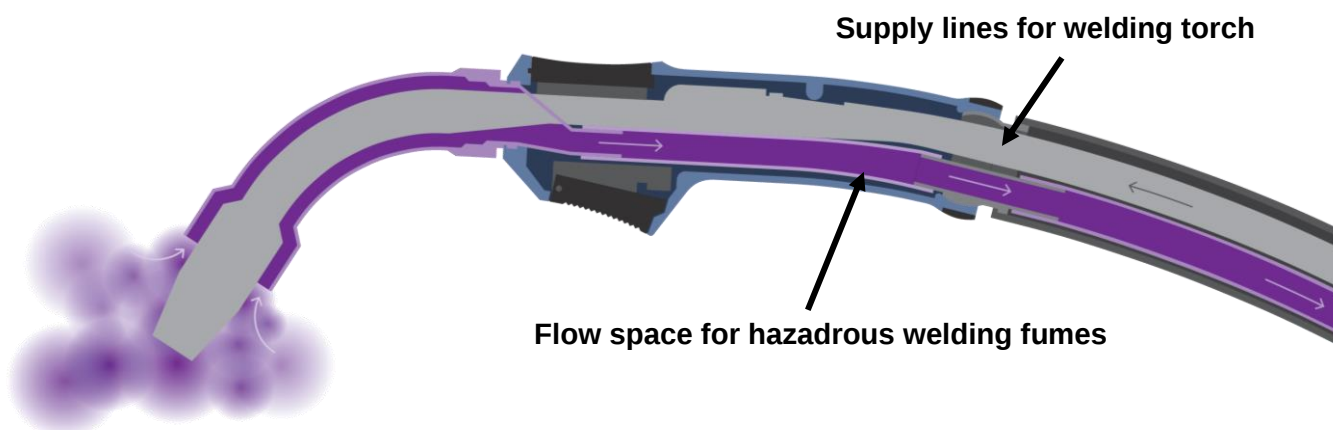


A good fume extraction torch protects more than just the welder!

The new AiR WeldGuard®.

Its unique functional principle with closed flow chamber protects:

- Welder
- Maintenance technician
- Electronics
- Components
- Budget



The separate flow chamber significantly increases the service life of the welding fume extraction torch!

Conventional fume extraction torch



Fume extraction torch without separate flow space. Welding fume particles remain in the handle and hose package. Operating time approx. 4 months.

AiR WeldGuard® fume extraction torch



Fume extraction torch with separate flow space. Hardly any welding fume particles remain in the handle or hose package. Operating time approx. 4 months.

The AiR WeldGuard® fume extraction torch combines the familiar ergonomic M-AR handle with powerful extraction!

Classic fume extraction torch



M-AR 500W welding torch



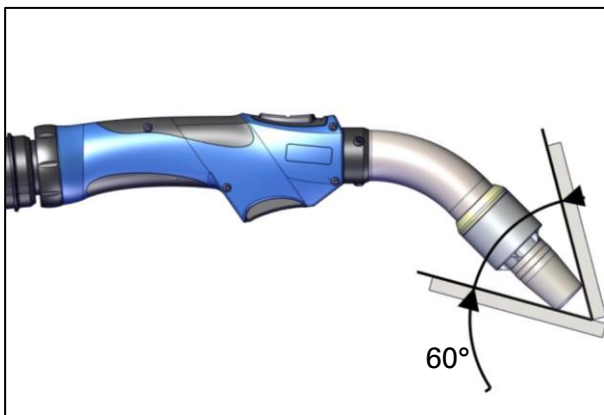
AiR WeldGuard® fume extraction torch in M-AR handle



Comparison of accessibility

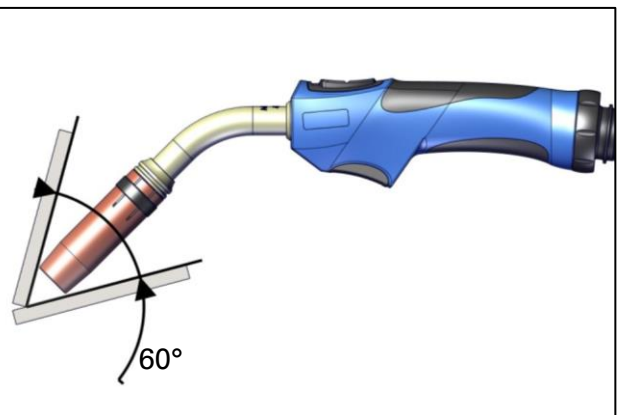
AiR WeldGuard® fume extraction torch

Stickout 20mm



M-AR 500W welding torch

Stickout 20mm

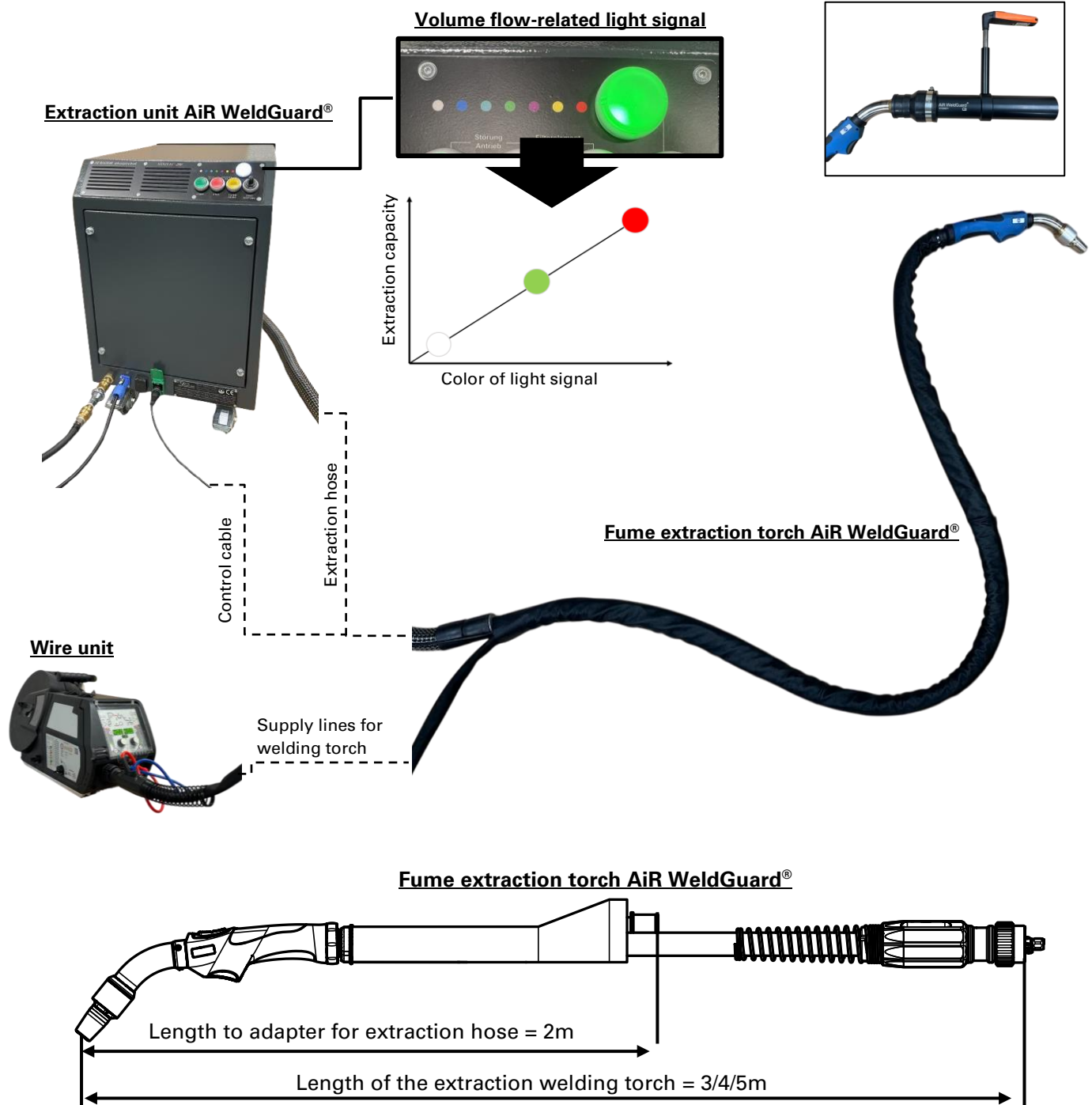


Overview of the AiR WeldGuard® system

Simple and pragmatic handling is our priority:

- 7-color light signal on the extraction unit simplifies setting the “correct” extraction volume flow, even from a greater distance.
- Water-cooled and gas-cooled fume extraction torches available in 3/4/5m lengths.
- Fume extraction torch with Up/Down module enables the extraction capacity to be controlled.
- AVM-1 measuring system enables measurement and digital documentation of the set extraction values.

AVM-1-suction volume flow measuring device





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**Technical data AiR WeldGuard® torches****AiR WeldGuard® 260G****Technical Data according to EN 60 974-7****Rating:** 260 A at 35% Duty cycle**Wire-Ø:** 0,8 – 1,2 mm**Air flow rate****Extraction nozzle:** 53 m³/h*²**Arapter Ø40mm:** 74 m³/h*²**Negative pressure:** 11,2 kPa*²

Air flow rate and negative pressure according to ISO 21904-1

*¹Cooling capacity of min. 800W and a torch inlet pressure of the coolant of 3 – 6bar.*²Values with additional 2m extraction hose Ø38mm**AiR WeldGuard® 300W****Technical Data according to EN 60 974-7****Rating*¹:** 300 A at 100 % Duty cycle

350 A at 60 % Duty cycle

400 A at 40 % Duty cycle

Wire-Ø: 0,8 – 1,2 mm**Air flow rate****Extraction nozzle:** 53 m³/h*²**Adapter Ø40mm:** 74 m³/h*²**Negative pressure:** 11,2 kPa*²



Overview torch connections for water cooled AiR WeldGuard® torches

Euro-connection



Water:
plug-in nipple NW5

Overview torch connections for air cooled AiR WeldGuard® torches

Euro-connection



Other connection solutions on request!



Configurator AiR WeldGuard® torches air- und water cooled

Torch type	
226	260G* ¹
230	300W* ²

Cable hose Package length	
30	3m
40	4m
50	5m

Handle	
1	gray
2	blue

226

230

30

40

50

1

2

2

2

6

0

A

4

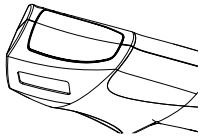
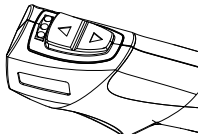
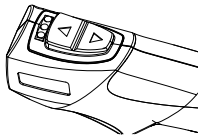
0

2

0

0

e.g.:
AiR WeldGuard® 260G/4m,
M-AR handle blue, blinde with
euro-connection

Funtion module		
0	Blinde	
1	Up/Down for power source* ³	
2	Up/Down for extraction unit	

Torch connections for power Source (without plug)	
0	Euro-connection

Other power source connections or torches with plug on request!

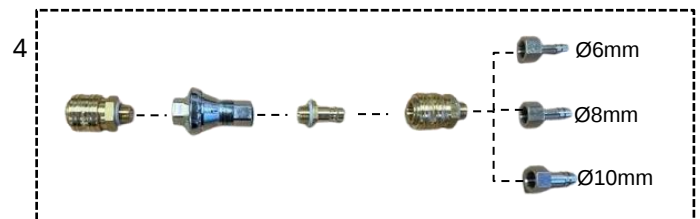
*¹Equipped as standard with contact tip M8 Ø1,0mm

*²Equipped as standard with contact tip M8 Ø1,2mm

*³Torches with Up/Down for power source control are equipped as standard without plug.



Extraction unit Minivac 200D and accessories



Technical data

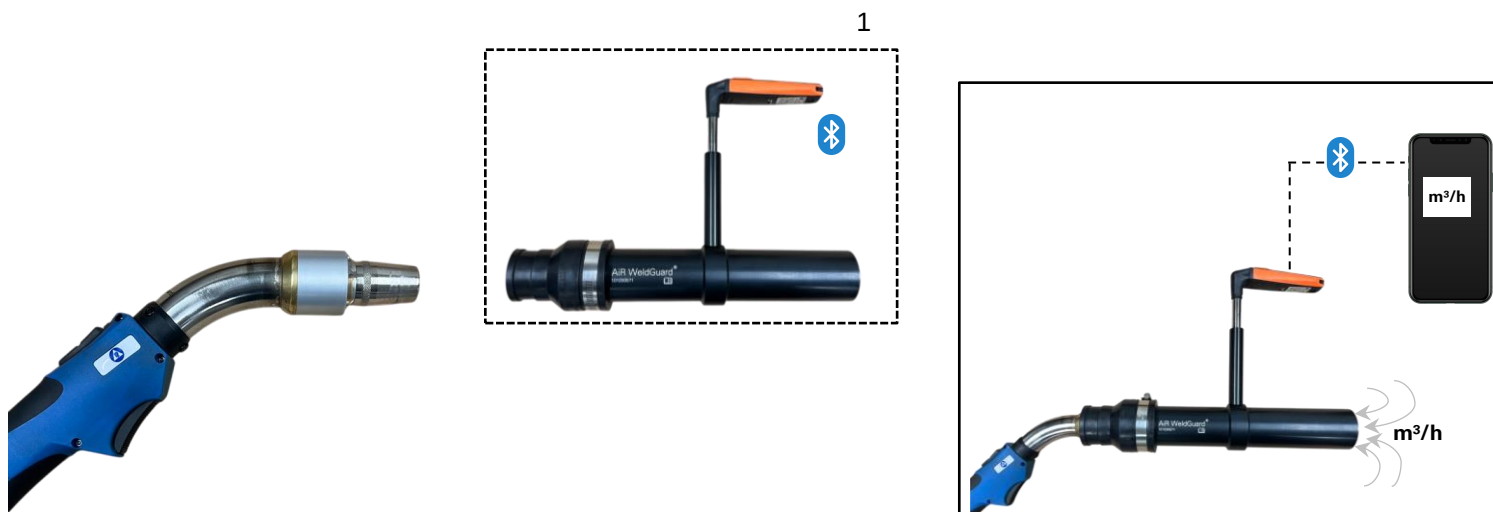
Connection voltage	230V / 50Hz
Engine output	1,5kW
Extraction capacity	170 m³/h
Negative pressure max.	35000Pa
Minimum air flow rate	80m³/h
Ø connection flange	Ø51mm
Separation level >	99,8%
Noise level (at 100% extraction capacity)	max.65 dB(A)
Dimensions (LxBxH)	700mm x 440mm x 585mm
Weight	45kg
Filtering methods	Cleaning filter
Filter cleaning	Automatic
Filter area approx.	5m²
IFA-approval	W3-tested
Test mark	CE

Spare Part List

Pos.	Part No.	Description
1	10080021	AiR WeldGuard® extraction unit FUMATOR® Minivac 200D, U/D-ready, 7-color light signal, 230V/50Hz (Pos. 3 (3m) included)
2	1008002001	AiR WeldGuard® automatic stat/stop sensor cable with pliers for Minivac 200D, length 4m
3	1008002002	AiR WeldGuard® mains connection cable 3m cpl. for Minivac 200D with Neutrik and Schuko plug
	1008002003	AiR WeldGuard® mains connection cable 6m cpl. for Minivac 200D with Neutrik and Schuko plug
ohne Abb.	1008002101	Filter cartridge with 5m² filter area with two open ends mechanical Ø325x300 made of polyester fleece
ohne Abb.	1008002102	Filter mats (=5 pcs) for external air intake Minivac
4	1008002004	Compressed air connection set 5bar AiR WeldGuard® for extraction unit (saves the pressure reducer)



Measuring system AVM-1 AiR WeldGuard® for suction volume flow



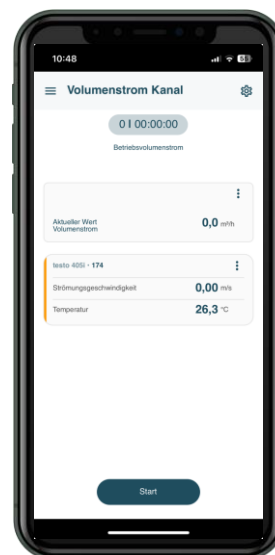
Spare Part List

Pos.	Part No.	Description
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1	101030570	Measuring system AVM-1 AiR WeldGuard®, consists of: 1x Suction volume flow measuring tube, 1x Reducing sleeve 1x Measuring device
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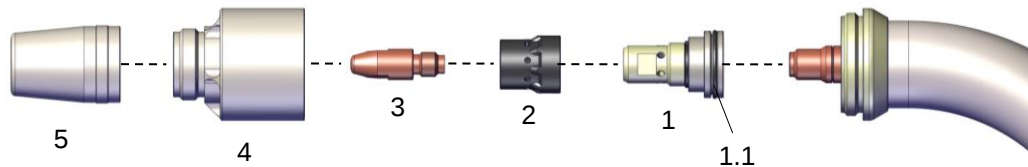
Advantages of the AVM-1 AiR WeldGuard® measuring system:

- Compact solution in one case
- Accurate volume flow measurement over an adjustable period of time
- Values transmitted via Bluetooth to mobile device
- Direction-independent measurement
- Values can be saved and accessed at any time
- Free App included





Spare parts AiR WeldGuard® 260G/300W

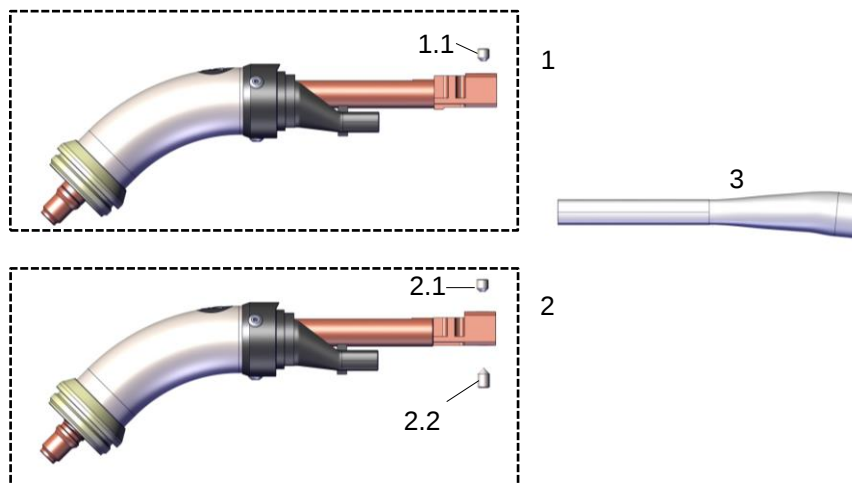


Spare part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	24104085	Centering unit with tip adapter, l=32mm (Brass) (PU=5)	4	1010305010	AiR WeldGuard® extraction nozzle l=42mm (PU=2)
1.1	0191501	O-Ring 19x1,5mm, heavy duty (PU=5)	5	20016004	AiR WeldGuard® gas nozzle, scew. con. NW15 l=35mm (PU=5)
2	2410707	AiR WeldGuard® gas diffuser (PU=5)			
3	24106XX	Contact Tip M8x30, Ø in mm / E-Cu (PU=30)			
	24166XX	Contact Tip M8x30, Ø in mm / for Alu, (PU=30)			
	24176XX	Contact Tip M8x30, Ø in mm / CuCrZr, (PU=30)			
<i>Tips available in ø 0.8/1.0/1.2</i>					
<i>Please insert wire diameter at XX.</i>					
<i>For example: ø 1.0 mm is 10; Part No.: = 2410610</i>					



Torch body AiR WeldGuard® 260G/300W

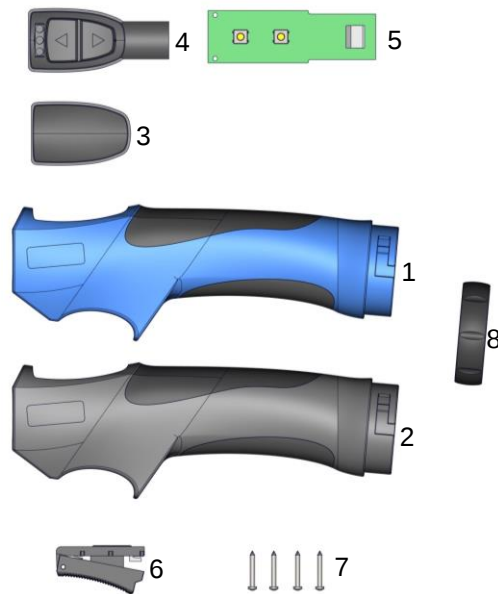


Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	2300A100	AiR WeldGuard® torch body incl. extraction bend 300W, 45°	3	05506041	Heat-resistant exhaust duct guide hose in handle (PU=2)
1.1	000F247	Set screw M5x5 (1) (PU=5)			
2	2260A100	AiR WeldGuard® torch body incl. extraction bend 260G, 45°			
2.1	000F247	Set screw M5x5 (1) (PU=5)			
2.2	000F248	Set screw M5x8 (2) (PU=5)			



M-AR Handle suitable for AiR WeldGuard® torches



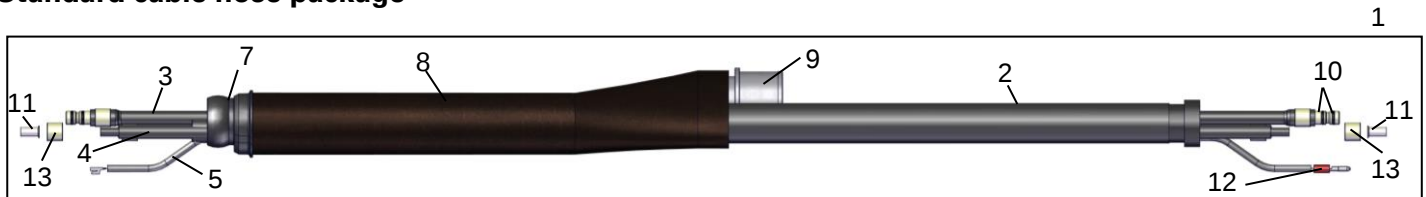
Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	2114001V1	M-AR handle blue, left + right half suitable for AiR WeldGuard® torches	5	21140100	Up/Down PCB
2	21140012V1	M-AR handle gray, left + right half suitable for AiR WeldGuard® torches	6	2114006	Trigger cpl. M-AR
3	2114007	Blind top, M-AR	7	2114012	Screw torx (4) (PU=20)
4	21140083	Up/Down top	8	2114002	Nut for handle M-AR



Cable hose package AiR WeldGuard® 260G air cooled

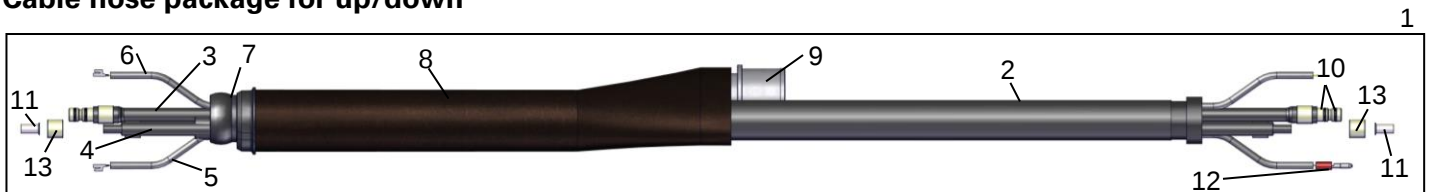
Standard cable hose package



Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	24138AX0	Cable hose package air-cooled standard X m cpl.	7	4505024031	Ball joint cpl.
2	24145AX0	Cover hose for X m torch cpl.	8	ARLS-38M-2S	Leather 2m cpl.
3	24146AX0	Outer liner X m cpl.	9	10103056	Connector for extraction hose
4	24147AX0	Current cable 16mm ² X m	10	0171200	O-Ring 7x1,2mm (PU=20)
5	24144MX0	Control cable X m cpl. one side with flat connector, other side with male electrical connector	11	AR4013-16	Furrules (PU=20)
<i>Length available in 3/4/5m. Please insert your length at X.</i>			12	2155200	Male electrical connector, insulated (PU=20)
<i>For example: Current cable length in 4m is: 4;</i>			13	0322110	Sleeve for current cable (PU=20)
<i>Part. No.: = 24147A40</i>			No fig.	0550522-2	Extraction hose 2m
			No fig.	994100123	Metallic cable tie black, 259,0x4,6mm (PU=5)

Cable hose package for up/down



Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	24138AX1	Cable hose package air-cooled up/down X m cpl.	7	4505024031	Ball joint cpl.
2	24145AX0	Cover hose for X m torch cpl.	8	ARLS-38M-2S	Leather 2m cpl.
3	24146AX0	Outer liner X m cpl.	9	10103056	Connector for extraction hose
4	24147AX0	Current cable 16mm ² X m	10	0171200	O-Ring 7x1,2mm (PU=20)
5	24144MX0	Control cable X m cpl. one side with flat connector, other side with male electrical connector	11	AR4013-16	Furrules (PU=20)
6	24144MX1	Control cable X m cpl. one side with flat connector	12	2155200	Male electrical connector, insulated (PU=20)
<i>Length available in 3/4/5m. Please insert your length at X.</i>			13	0322110	Sleeve for current cable (PU=20)
<i>For example: Current cable length in 4m is: 4;</i>			No fig.	0550522-2	Extraction hose 2m
<i>Part. No.: = 24147A40</i>			No fig.	994100123	Metallic cable tie black, 259,0x4,6mm (PU=5)



Cable hose package AiR WeldGuard® 300W water cooled

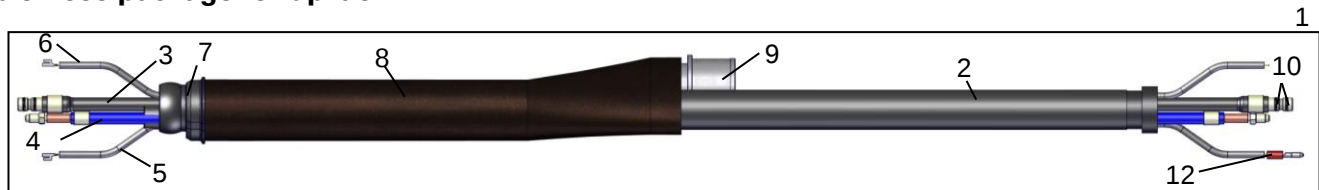
Cable hose package



Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	24139AX0	Cable hose package water-cooled standard X m cpl.	7	4505024031	Ball joint cpl.
2	24145AX0	Cover hose for X m torch cpl.	8	ARLS-38M-2S	Leather 2m cpl.
3	24146AX0	Outer liner X m cpl.	9	10103056	Connector for extraction hose
4	24141AX0	Power cable X m cpl.	10	0171200	O-Ring 7x1,2mm (PU=20)
5	24144MX0	Control cable X m cpl. one side with flat connector, other side with male electrical connector	12	2155200	Male electrical connector, insulated (PU=20)
<i>Length available in 3/4/5m. Please insert your length at X.</i>			No fig.	0550522-2	Extraction hose 2m
<i>For example: Power cable length in 4m is: 4;</i>			No fig.	994100123	Metallic cable tie black, 259,0x4,6mm (PU=5)
<i>Part. No.: = 24146A40</i>					

Cable hose package for up/down



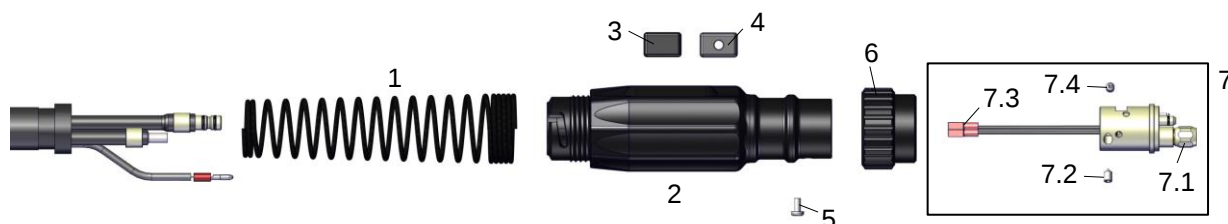
Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	24139AX1	Cable hose package water-cooled up/down X m cpl.	7	4505024031	Ball joint cpl.
2	24145AX0	Cover hose for X m torch cpl.	8	ARLS-38M-2S	Leather 2m cpl.
3	24146AX0	Outer liner X m cpl.	9	10103056	Connector for extraction hose
4	24141AX0	Power cable X m cpl.	10	0171200	O-Ring 7x1,2mm (PU=20)
5	24144MX0	Control cable X m cpl. one side with flat connector, other side with male electrical connector	12	2155200	Male electrical connector, insulated (PU=20)
6	24144MX1	Control cable X m cpl. one side with flat connector	No fig.	0550522-2	Extraction hose 2m
<i>Length available in 3/4/5m. Please insert your length at X.</i>			No fig.	994100123	Metallic cable tie black, 259,0x4,6mm (PU=5)
<i>For example: Power cable length in 4m is: 4;</i>					
<i>Part. No.: = 24146A40</i>					



Torch connections for power source AiR WeldGuard® 260G

Euro-connection



Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	2411611	Spring for housing	7	2151506	Euro-connector, air-cooled
2	2411600S1	Gun plug housing, without Nut	7.1	2151501	Union nut
3	6051602	Cap for gun plug housing	7.2	000F247	Set screw M5x5 (1) (PU=5)
4	6051603	Cap with hole for gun plug housing	7.3	2155100	Female electrical connector, insulated (PU=20)
5	0040601	Screw M4x6 (1) (PU=20)	7.4	000F248	Set screw M5x8 (2) (PU=5)
6	2151700	Plug nut			



Torch connections for power source AiR WeldGuard® 300W

Euro-connection with water: plug-in nipple NW5



Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	2411611	Spring for housing	8	03211001	Single ear clamp D=10,0 (PU=100)
2	2411600S1	Gun plug housing, without Nut	9	0550105	Water hose blue Ø5,0x1,5mm (PU=100m)
3	6051610	Rubber kink protection 3-T (PU=2)	10	45050339	Water stop blue (PU=10)
5	0040601	Screw M4x6 (1) (PU=20)	11	2990800	Water plug-in nipple NW5 (PU=10)
6	2151700	Plug nut	12	0550108	Water hose red Ø5,0x1,5mm (PU=100m)
7	70615052	Euro-connector, water-cooled	13	45050340	Water stop red (PU=10)
7.1	2151501	Union nut			
7.2	000F247	Set screw M5x5 (2) (PU=5)			
7.3	2155100	Female electrical connector, insulated (PU=20)			



Spare part sets

Starter-set for AiR WeldGuard® torches



Starter-set AiR WeldGuard® (9940000242), consists of:

Part No.	Description	Part No.	Description
24104085	1x Centering unit with tip adapter, l=32mm	20016004	2x AiR WeldGuard® gas nozzle, screw. con. NW15 l=35mm
0191501	5x O-ring 19x1,5mm, heavy duty	75105105	1x O-ring lube
2410707	3x AiR WeldGuard® gas diffuser		
2410610	5x Contact Tip M8x30, Ø1,0mm / E-Cu		
2410612	5x Contact Tip M8x30, Ø1,2mm / E-Cu		



Wire conduits and liners for AiR WeldGuard® torches

Steel liners, insulated – for Euro-connection

(Carbon steel, G3Si1, G4Si1, SG2, SG1 etc.)

Wire-Ø [mm]	Dimension [mm]	Color	Collet (PU = 10)	Fig.	Liner cpl.	bundles (50 m)
0,8 – 1,0	1,5 x 4,0	blue	2155645		34415X0*	3441500
0,9 – 1,2	2,0 x 4,0	red	2155645		34420X0*	3442000
1,2 – 1,6	2,5 x 4,0	yellow	2155645		34425X0*	3442500

Combi PTFE liners – for Euro connection

(Aluminum (AlMg, AlSi etc.), Stainless steel (chrome-nickel, VA, V2A etc.), Special alloys (CuSi etc.), Carbon steel (G3Si1, SG2 etc.))

Wire-Ø [mm]	Dimension [mm]	Color	Collet (PU = 10)	Brass liner 0,3 m with connection sleeve	Fig.	Liner cpl.	bundles (100 m)
0,8	1,5 x 4,0	blue	2155740	3412200300		34115X0K*	3411500
1,0	2,0 x 4,0	red	2155740	3412200300		34120X0K*	3412000
1,2 – 1,6	2,7 x 4,7	yellow	2415747	3452200300		34727X0K*	3472700

O-Rings part no. Is 0031500 (PU = 10).

Kombi Carbon PTFE liners – for Euro connection

(Carbon steel (G3Si1, SG2 etc.), Special alloys (CuSi etc.), conditional aluminum (AlMg, AlSi etc.))

Wire-Ø [mm]	Dimension [mm]	Color	Collet (PU = 10)	Brass liner 0,3 m with connection sleeve	Fig.	Liner cpl.	bundles (100 m)
0,8 – 1,0	1,5 x 4,0	schwarz	2155740	3412200300		35115X0K*	3511500
1,0 – 1,2	2,0 x 4,0	schwarz	2155740	3412200300		35120X0K*	3512000
1,2 – 1,6	2,7 x 4,7	schwarz	2415747	3452200300		35727X0K*	3572700

O-Rings part no. Is 0031500 (PU = 10).

Combi PA liners – for Euro connection

(Aluminum (AlMg, AlSi etc.), Stainless steel (chrome-nickel, VA, V2A etc.), Special alloys (CuSi etc.), Carbon steel (G3Si1, SG2 etc.))

Wire-Ø [mm]	Dimension [mm]	Color	Collet (PU = 10)	Brass liner 0,3 m with connection sleeve	Fig.	Liner cpl.	bundles (200 m)
0,6 – 0,9	1,4 x 4,0	anthrazit	2155740	3412200300		35314X0K*	3531400
0,8 – 1,2	2,0 x 4,0	anthrazit	2155740	3412200300		35320X0K*	3522000-200
1,2 – 1,6	2,3 x 4,7	anthrazit	2415747	3452200300		35323X0K*	3532300-200

O-Rings part no. Is 0031500 (PU = 10).

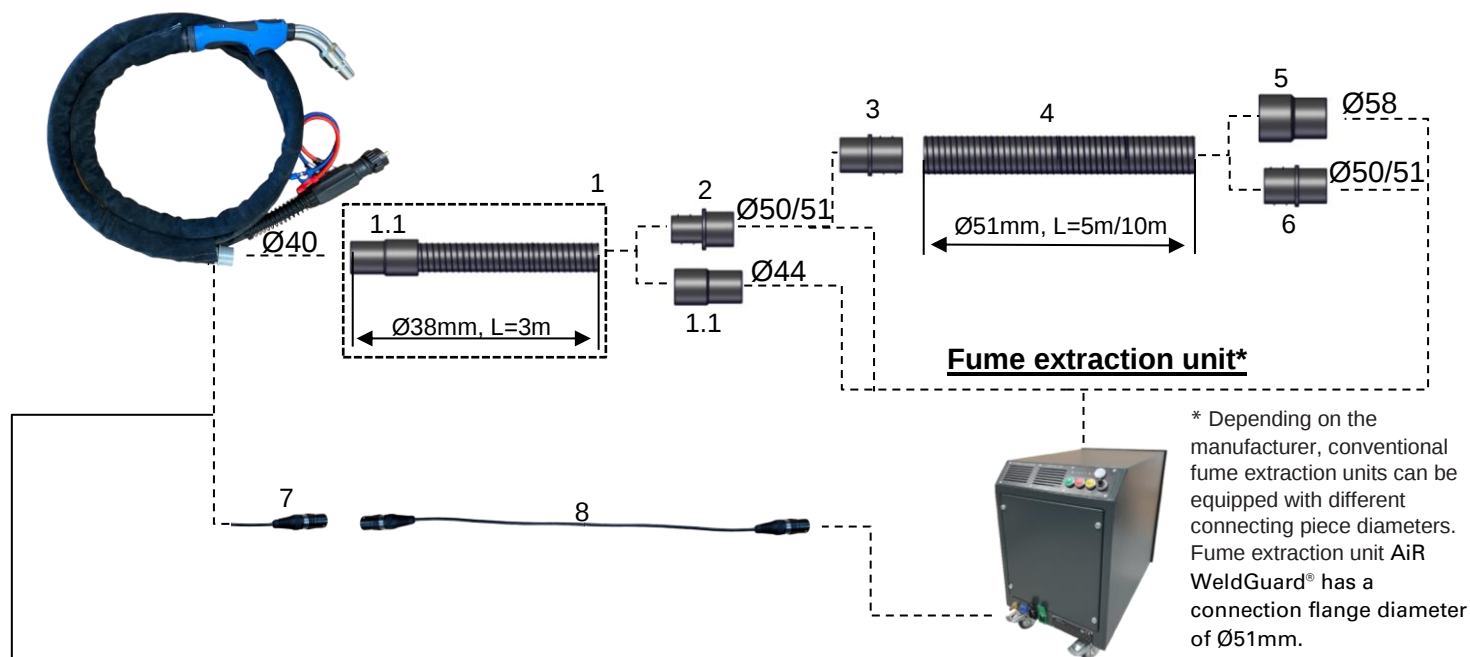
* Wire conduits and liners available in standard length in 3,4 or 5 m. Please insert the length at X.

For example: 3 m is: 3; Art.-Nr.: = 3532030K

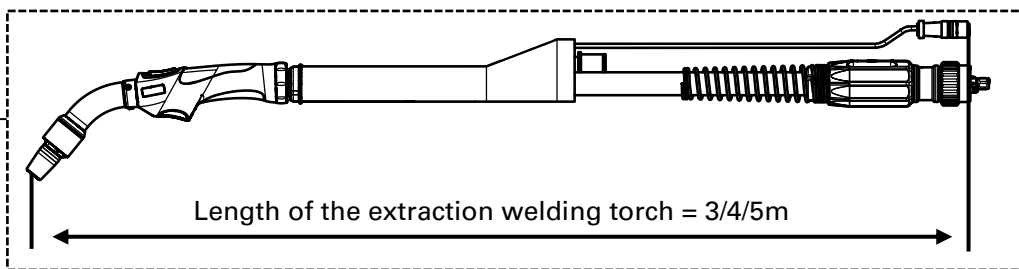
Contact us for different length.

Extraction hoses and extraction accessories

Fume extraction torch



AiR Weldguard® torch with Up/Down control for fume extraction unit



Spare Part List

Pos.	Part No.	Description	Pos.	Part No.	Description
1	0550501-3S1	Extraction hose l=3m, LW38mm with suction adapter	5	101030540	Suction adapter Ø58 for 51mm hose
1.1	10103054	Suction adapter Ø45 for Ø38mm hose	6	101030581	Male coupling Ø50 for 51mm hose
2	101030580	Male coupling Ø50 for 38mm hose	7	0003601	Plug for control fume extraction unit
3	101030582	Female coupling Ø50 for 51mm hose	8	0510301-5S	Extension 5m for control fume extraction unit, pre-assembled with plug and socket, incl. Velcro cable tie
4	055050151-5	Extraction hose, LW51, L=5m		0510301-10S	Extension 10m for control fume extraction unit, pre-assembled with plug and socket, incl. Velcro cable tie
	055050151-10	Extraction hose, LW51, L=10m		0510301-15S	Extension 15m for control fume extraction unit, pre-assembled with plug and socket, incl. Velcro cable tie