# **XFUME® CATALOGUE 1.3**



Fume extraction technology for professional industrial use



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# XFUME® PRO & COMPACT

#### MIG/MAG fume extraction torch – air cooled and liquid cooled



This powerful fume extraction torch line combines efficiency with occupational health and safety. As easy to handle as if holding a standard MIG/MAG welding torch in your hand.

#### **xFUME® COMPACT**

A fume extraction torch that should be available in every process finishing and workshop. Be careful: It can quickly turn into your favorite tool.

#### MIG/MAG fume extraction torches xFUME® PRO

#### Air cooled and liquid cooled

Wherever thick sheets are welded with high currents, this air cooled or liquid cooled welding fume extraction torch shows its potential. This makes it the perfect tool for healthy welding in the structural, heavy fabrication, shipyards & offshore and energy segments.

With the xFUME® PRO, welding with high currents and integrated welding fume extraction is also fun! Welding almost as if it were without any extraction.

- 10% more power
- 20% less weight
- Significantly improved ergonomics
- Better accessibility and clarity
- Improved stability and robustness
- Flow-optimised interior design
- Reduced gas loss due to optimised front end
- Uses the same parts as the xFUME® series
- Optional short or long button
- Conforms to standard DIN EN ISO 21904



#### xFUME® PRO 24

#### Technical data (EN 60 974-7):

Cooling: air cooled Rating: 270 A CO<sub>2</sub>

250 A mixed gases M21 (DIN EN ISO 14175)

Duty cycle: 60 % Wire Ø: 0.8 – 1.2 mm

#### xFUME® PRO 36

#### Technical data (EN 60 974-7):

Cooling: air cooled Rating: 330 A CO<sub>2</sub>

300 A mixed gases M21

(DIN EN ISO 14175)

Duty cycle: 60 % Wire Ø: 0.8 – 1.2 mm

#### **xFUME® PRO 501**

#### Technical data (EN 60 974-7)

Cooling: liquid cooled Rating: 500 A CO<sub>2</sub>

450 A mixed gases M21 (DIN EN ISO 14175)

Duty cycle: 100 % Wire Ø: 1.0-1.6 mm

#### Note on liquid cooled torches:

To protect the cable assembly components from overheating, we recommend a cooling system run-on time of at least four minutes.

Torch complete Part-No.		Part-No.			ck complete
Туре	3 m	4 m	5 m	Type	Part-No.
xFUME® PRO 24	612.0139.1	612.0127.1	612.0128.1	50°	614.0264.1
xFUME® PRO 36	614.0286.1	614.0262.1	614.0263.1	50°	614.0264.1
xFUME® PRO 501	634.0225.1	634.0207.1	634.0208.1	50°	634.0209.1

#### xFUME® PRO 24, xFUME® PRO 36, xFUME® PRO 501

#### xFUME® PRO 24 xFUME® PRO 36/501 **Wear parts** Extraction nozzle (1 pc.) Standard 600.0148.1 600.0147.1 Standard (steel) 600.0158.1

38 mm	38 mm	38 mm	38 mm	41,5 mm	55,5 mm
				C	

600.0140.1

600.0157.1

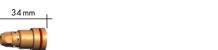
#### Gas nozzle (5 pcs.)

Tapered

Tapered (steel)

Cylindrical	145.0923.5	-	145.0911.5	-	-	_
Conical	-	145.0880.5	-	145.0903.5	-	-
Conical (Heavy Duty)	-	_	_	-	317.0459.5	317.0458.5

		28 mm	30 mm	48 mm
Contact t	t <b>ip</b> (10 pcs.)	M6	M8	M8
CuCrZr	Ø 0,8 mm	140.0054	140.011 <i>7</i>	140.1792.10
	Ø 1,0 mm	140.0245	140.0316.10	140.1772.10
	Ø 1,2 mm	140.0382	140.0445.10	140.1773.10
	Ø 1,4 mm	-	140.0536	_
	Ø 1,6 mm	-	140.0590	140.1791.10



#### Tip adaptor (5 pcs.)

M6 (5 pcs.)	142.0308.5	-
M8 (5 pcs.)	-	142.0306.5
O-ring 14x1.5 mm (20 pcs.)	165.0104	165.0104

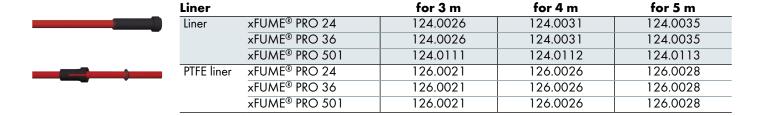


<b>Spatter protector</b> (5 pcs.		
	146.0091.5	146.0093.5



#### Centering star (1 pc.)

Complete	614.0253.1	614.0253.1	Ī



#### MIG/MAG fume extraction torch xFUME® COMPACT

#### Air cooled

The xFUME® COMPACT fume extraction torch will quickly become a favorite tool when it comes to welding thin sheets and currents of up to 250 amperes are used.

Weight, haptics and handling make it easy to forget that you have a welding fume extraction torch in your hand. The optionally short or long button additionally supports this feeling – while a leather covering tube not only protects the cable assembly, but also allows it to glide easily over edges.

- Approx. 1.1 kg handling weight
- Dimensions and weight as close as possible to standard MIG/MAG torch
- Patented extraction nozzle
- Improved accessibility and clarity
- Easy maintenance due to component minimisation
- Improved ergonomics
- Reduced gas loss due to optimised front end
- Uses the same parts as the xFUME® series
- Conforms to DIN EN ISO 21904



#### **xFUME® COMPACT 25**

#### Technical data (EN 60 974-7):

Cooling: air cooled Rating: 250 A CO<sub>2</sub>

230 A mixed gases M21 (DIN EN ISO 14175)

Duty cycle: 35 % Wire Ø: 0.8 – 1.2 mm

Torch complete	Part-No.			Swo	ın neck
Туре	3 m	4 m	5 m	Туре	Part-No.
xFUME® COMPACT 25	604.0146.1	604.0144.1	604.0145.1	45°	604.0140.1

#### **xFUME® COMPACT 25**

#### **Wear parts**



Extraction nozzle (1 pc.)

C. I I	/00 01 /5 1
Standard	600 0145 1





Gas nozzle (5 pcs.)

Conical	145.0900.5	145.0915.5





Contact ti	<b>ip</b> (10 pcs.)	M6	M6
CuCrZr	Ø 0.8 mm	140.D456.10	140.1252.10
	Ø 1.0 mm	140.D457.10	140.1254.10
	Ø 1 2 mm	140 D458 10	140 1255 10



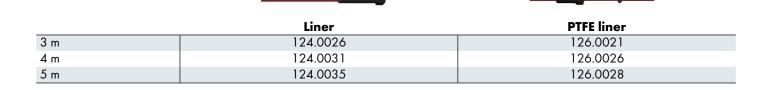
Tip adaptor (5 pcs.)

M6	142.0001



Centering star (1 pc.)

Complete	604.0142.1
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#### BIKOX®, control cables, hoses and liners

#### I. Cable assemblies, air cooled

Туре	Description		Cable assembly length	1
		3 m	4 m	5 m
xFUME® PRO 24	BIKOX® 28/LW 2-pole	160.1953.1	160.1866.1	160.1867.1
xFUME® PRO 36	BIKOX® 53 /LW 2-pole	160.1954.1	160.1860.1	160.1861.1
xFUME® PRO 36	BIKOX® 50/HD 2-pole	-	160.1951.1	160.1952.1
xFUME® COMPACT 25	BIKOX® 28/LW 2-pole	160.1953.1	160.1866.1	160.186 <i>7</i> .1

#### II. Cable assemblies, liquid cooled

xFUME® PRO 501	Description		Len	gth	
		3 m	4 m	5 m	100 m (pcs.)
Power cable		115.11 <i>7</i> 6.1	115.1119.1	115.1120.1	-
Wire conduit/gas hose		154.0017.1	154.0018.1	154.0019.1	-
Water hose red	PVC; Ø 5.5 x 1.5 mm	-	-	-	109.0056
Water hose blue	PVC; Ø 5.5 x 1.5 mm	-	-	-	109.0057
					200 m (pcs.)
Control cable	2-pole	-	_	_	100.0019

#### III. Outer and extraction hoses

Туре	Description	30 m (pcs.)
xFUME® PRO 24/COMPACT 25	Outer hose LW 32	109.0043
xFUME® PRO 36/501	Outer hose LW 38	109.0044
xFUME® PRO 24/36/501/COMPACT 25	Outer hose LW 45	109.0080.30

#### IV. Hose clamps, quick connector and marking washer

Туре		Part-No.	Applicable for hose type	
			109.0056	109.0057
Hose clamp D=9.5 mm infinitely; xFUME® PRO 501	20	173.0015.20	•	•
Quick connector ND 5/Ø=6.0 mm; xFUME® PRO 501	20	501.0114	•	•
Fastener cap red; xFUME® PRO 501	20	501.2423	•	
Fastener cap blue; xFUME® PRO 501	20	501.2424		•

#### Wear and spare parts

#### V. Crabb ring, ball joint, crimping sleeve, adapter piece, branch, leather hose set

Pos.	Туре	Description	Part-No.
1	xFUME® PRO 24/36/501/COMPACT 25	Branch 45°	600.0126.1
2	xFUME® COMPACT 25	Crabb ring	604.0143.1
3	×FUME® PRO 24	Ball joint	600.0138.1
4	xFUME® PRO 36/501	Ball joint	600.0130.1
5	xFUME® COMPACT 25	Ball joint	600.0146.1
-	xFUME® PRO 24/COMPACT 25	Leather hose set	600.0142.1
-	xFUME® PRO 36/501	Leather hose set	600.0143.1
6	×FUME® PRO	Crimping sleeve	720.0022
7	xFUME® PRO 24/COMPACT 25	Adaptor piece cable assembly	600.0137.1
8	xFUME® PRO 36/501	Adaptor piece cable assembly	600.0128.1











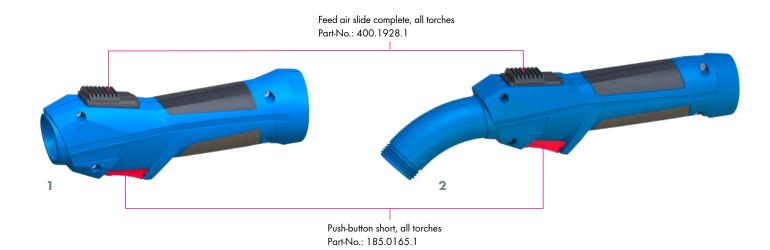






#### Handle type xFUME®

Туре	Pos.	Part-No.
Handle xFUME® PRO complete	1	180.0207.1
Handle xFUME® COMPACT complete	2	180.0206.1





#### TIG fume extraction torches xFUME® TIG

#### Air cooled and liquid cooled

Although TIG welding does not produce a similar amount of fumes compared to MIG/MAG welding, it does produce fumes that are particularly dangerous when inhaled. That is why it was very important to ABICOR BINZEL to develop a high-performance TIG torch for industrial use. The xFUME® TIG fume extraction torch also works according to the principle of extraction at the source and efficiently absorbs these highly hazardous fumes at their place of origin. This is provided by a combined ceramic protection and extraction nozzle, through which this TIG fume extraction torch with its slim front end guarantees an excellent view of the process. With its innovative concept and design, the xFUME  $^{\! \tiny (\! g \!)}$  TIG is an excellent

TIG fume extraction torch in general fabrication especially for welding stainless steels, aluminum alloys and high-alloy materials, where welding fumes that pose different health hazards are increasingly released.

- Novel innovation in the field of TIG torches
- Integrated fume extraction to protect the welder
- Dimensions and weight as close as possible to standard TIG torches
- Patented extraction nozzle
- High use of common parts due to ABITIG® wear part concept
- Improved ergonomics
- Reduced gas loss due to optimised frontend



#### xFUME® TIG 150

#### Technical data (EN 60 974-7):

Cooling: air cooled Rating: 150 A DC 105 A AC

35% Duty cycle:

Ø 1.0-2.4 mm Tungsten electrode:

#### **xFUME® TIG 260 W**

#### Technical data (EN 60 974-7):

Cooling: liquid cooled Rating: 260 A DC 185 A AC

100%

Duty cycle:

Ø 1.0-3.2 mm Tungsten electrode:

#### **xFUME® TIG 300 W**

#### Technical data (EN 60 974-7):

Cooling: liquid cooled 300 A DC Rating: 210 A AC

100% Duty cycle:

Tungsten electrode: Ø 1.0-3.2 mm

Torch complete			Torch body
Туре	Cooling	Part-No.	Part-No.
xFUME® TIG 150	air cooled	see note <sup>1</sup>	776.5008.1
xFUME® TIG 260 W	liquid cooled	see note <sup>1</sup>	<i>777</i> .5001.1
xFUME® TIG 300 W	liquid cooled	see note <sup>1</sup>	<i>777</i> .5010.1

Due to the highly differing types of connections on the machine side we cannot list order numbers for complete torches. Please use the TIG torch overview for the order of complete torches – this you can find in the download area of our website www.binzel-abicor.com

# xFUME® TIG 150, xFUME® TIG 260 W and xFUME® TIG 300 W

#### **Wear parts**

Back cap (10 pcs.)	Short	Long
	776.0053	771.0051

	35 mm	33 mm	35.5 mm
Electrode holder/	Electrode holder	Gas diffuser	Gas diffuser
Gas diffuser (5 pcs.)			
Ø 1.0 mm	776.0061	776.0171	<i>777</i> .01 <i>7</i> 1.5
Ø 1.6 mm	776.0062	776.0172	<i>777</i> .01 <i>7</i> 2.5
Ø 2.0 mm	776.0067	776.0177	<i>777</i> .01 <i>77</i> .5
Ø 2.4 mm	776.0063	776.0173	777.0173.5
Ø 3.2 mm	776.0064	776.0174	777.0174.5

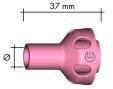


#### Insulator/Adaptor ring for torch body

#### Standard version

(10 pcs.)	
Insulator	776.1043





Gas nozzle, ceramic	Short	Long
(10 pcs.)		
Ø 8.0 mm	776.5003.10	776.5001.10
Ø 9.5 mm	776.5004.10	776.5002.10
Ø 12.0 mm	776.5005.10	776.5006.10

#### Power cables, control cables and hoses

#### I. Power cables

Туре	Power cable High Flex				
	4 m	8 m	12 m		
xFUME® TIG 150	150.0040	150.0041	150.0190		
xFUME® TIG 260 W	150.0270.1	150.0271.1	150.0272.1		
xFUME® TIG 300 W	150.0332.1	150.0333.1	150.0334.1		

#### II. Control cables

Туре	Description	Details	Part-No.
xFUME® TIG 150/260 W/300 W	Power cable 7 core	100 m	100.0112
xFUME® TIG 150/260 W/300 W	Power cable 7 core (protected)	100 m	100.0028

#### III. Gas hoses, Hose clamps

Туре	Description	Details	Part-No.
xFUME® TIG 260 W/300 W	PVC hose black 3.5 x 1.25	100 m	102.0124
xFUME® TIG 260 W/300 W	Hose clamp $\emptyset = 7.5$ mm with ring (mark. 8.0)	20 pcs.	173.0019.20

#### IV. Coolant supply hose

Тур	Description	Details	Part-No.
xFUME® TIG 300 W	FRH hose black 3.9 x 1.5	40 m	109.0059
xFUME® TIG 300 W	Hose clamp $\emptyset$ = 8.7 mm, continuously variable	20 pcs.	173.0020.20

#### V. Outer hoses

Туре	Description	Details	Part-No.
xFUME® TIG 150/260 W/300 W	Hose 32 black LW 28 R	30 m	109.0042

#### VI. Branch, connector set, cable guide, hose clutch, adaptor

Pos.	Туре	Description	Part-No.
1	xFUME® TIG 150/260 W/300 W	Branch 45°	600.0126.1
2	xFUME® TIG 150/260 W/300 W	Hose clutch	400.1942.1
3	xFUME® TIG 150/260 W/300 W	Connector cpl.	400.1935.1
4	xFUME® TIG 150/260 W/300 W	Adaptor cpl.	776.5019.1
5	xFUME® TIG 150	Cable guide AC* cpl.	776.5009.5
6	xFUME® TIG 260 W/300 W	Cable guide LC** cpl.	776.5018.5













<sup>\*</sup> air cooled
\*\* liquid cooled

#### Handle and control modules

#### Handle xFUME® TIG and control modules

Туре	Description	Details	Part-No.
xFUME® TIG 150/260 W/300 W	Handle xFUME® TIG, without control module		180.0210.1
xFUME® TIG 150/260 W/300 W	Control module single push-button	BIS-51	400.1296.1
	Control module single push-button (lower release force than BIS-51)	BIS-S1	400.1647.1
	Control module double push-button	BIS-52	400.1292.1
	Control module UP/DOWN (device-dependent)	BIS-55	400.1388.1
	Control module UP/DOWN (device-dependent)	BIS-65	400.1318.1
	Control module UP/DOWN (compatible with Stel®/CEA®)	BIS-85	400.1375.1
	Control module UP/DOWN (compatible with Lorch®)	BIS-95	400.1354.1
	Lid (5 pcs.)	BIS-57	400.1402.5



### BIS-51/ BIS-51 (lower release force) ED = Single push-button



#### **BIS-52**

DD = Double push-button/ Button short (in torch price list standard, under DD)



#### BIS-55

UD = UP/DOWN (device-dependent)



#### **BIS-65**

UD = UP/DOWN (device-dependent)



#### BIS-85

UD = UP/DOWN (compatible with Stel® & CEA®)



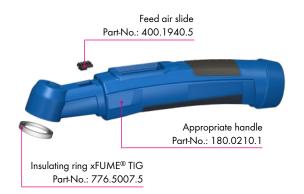
#### BIS-95

UD = UP/DOWN (compatible with Lorch®)



#### BIS-57

Lid (5 pcs.)



#### **Abbreviations for switch functions:**

ED Single push-button
DD Double push-button
UD UP/DOWN (two switches)



#### Automatic fume extraction torch xFUME® AUT

#### Air cooled and liquid cooled

#### Reliable welding fume extraction for partially automated welding processes

Fume extraction for welding cells has long since become standard. But what about welding fume extraction in partially automated production? People who load the automatic machines in these areas constantly breathe in the fumes. From an occupational health and safety perspective, this is not permissible!

The Federal Institute for Occupational Safety and Health demands that consistent guidelines must be followed to prevent harmful fumes from entering the respiratory tract in the first place.

Equip your series production with automatic fume extraction torches xFUME® AUT from ABICOR BINZEL with extraction at the source. This is how you protect your employees properly.

#### Efficient extraction at the source for series production

You already know the AUT RAB series from ABICOR BINZEL? With the technical further development to the automatic extraction torches of the xFUME® series, we are setting new standards:

- Extraction torch optimally positioned in the automatic welding system
- Compact shape
- Improved laminar flow
- Very robust design
- Common pipe section diameter
- Can be connected to all standard MIG/MAG power sources



#### **xFUME® AUT 36**

#### Technical data (EN 60 974-7):

Cooling: air cooled
Rating: 330 A CO2
300 A M21

300 A M2

Duty cycle: 60%

Wire Ø: 0.8–1.2 mm

#### **xFUME® AUT 501**

#### Technical data (EN 60 974-7):

Cooling: liquid cooled Rating: 500 A CO2

450 A M21

Duty cycle: 100 %
Wire Ø: 1.0-1.6 mm

Torch complete Type	Cooling	Part-No.				Inner tube cpl. Part-No.
	•	2 m	3 m	4 m	5 m	
xFUME® AUT 36	air cooled	981.0003.1	981.0004.1	981.0001.1	981.0002.1	614.0289.1
xFUME® AUT 501	liquid cooled	982.0003.1	982.0004.1	982.0001.1	982.0002.1	634.0228.1

Handle tube, fixture, screw socket					
Туре	Description	Packing unit	Part-No.		
xFUME® AUT 36/501	Handle tube cpl.	1	180.0081		
xFUME® AUT 36/501	Handle tube fixture	1	400.2027.1		
xFUME® AUT 36/501	Screw socket black, LW 38	1	500.0267		

#### xFUME® AUT 36, xFUME® AUT 501

#### Wear parts\*

#### **xFUME® AUT 36/501**





#### Extraction nozzle (1 pc.)

, , ,		
Standard	-	600.0147.1
Standard (steel)	-	600.0158.1
Tapered	600.0140.1	-
Tapered (steel)	600.0157.1	-









#### Gas nozzle (5 pcs.)

Cylindrical	145.0911.5	_	-	_
Conical	-	145.0903.5	-	-
Conical (Heavy Duty)	_	-	317.0459.5	31 <i>7</i> .0458.5





<b>Contact tip</b>	(10 pcs.)	
--------------------	-----------	--

Contact ti	<b>p</b> (10 pcs.)	M8	M8
CuCrZr	Ø 0.8 mm	140.0117	140.1792.10
	Ø 1.0 mm	140.0316.10	140.1772.10
	Ø 1.2 mm	140.0445.10	140.1773.10
	Ø 1.4 mm	140.0536	-
	Ø 1.6 mm	140.0590	140.1791.10
		Ø 1.0 mm Ø 1.2 mm Ø 1.4 mm	CuCrZr     Ø 0.8 mm     140.0117       Ø 1.0 mm     140.0316.10       Ø 1.2 mm     140.0445.10       Ø 1.4 mm     140.0536



#### Tip adaptor (5 pcs.)

M8 (5 pcs.)	142.0306.5
O-ring 14x1.5 mm (20 pcs.)	165.0104



#### Spatter protector (5 pcs.)

		146.0093.5



#### Centering star (1 pc.)

. p ,	
Complete	614 0253 1



Liner		for 2 m	for 3 m	for 4 m	for 5 m
Liner	xFUME® AUT 36	124.0026	124.0026	124.0031	124.0035
	xFUME® AUT 501	124.0259.1	124.0111	124.0112	124.0113
PTFE liner	xFUME® AUT 36	126.0021	126.0021	126.0026	126.0028
	xFUME® AUT 501	126.0021	126.0021	126.0026	126.0028

<sup>\*</sup> Spare and wear parts of all xFUME® AUT cable assemblies are identical to those of the xFUME® PRO 36/501 cable assemblies (see pages 10 + 11).

# **xFUME® ROBO system**



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## Robot fume extraction at the source xFUME® ROBO OA

#### Upgrade robot torches to extraction technology in no time at all

You want the highest possible protection against harmful fumes in your automated production? The stationary welding fume extraction of your welding cells or in the production hall is insufficient? Perhaps a hall extraction system is not an option for you for cost reasons? And you don't want to replace your ABIROB® welding torches completely with new ones? Then the xFUME® ROBO extraction torches with externally guided cable assembly (OA for over arm) with xFUME® extraction systems from ABICOR BINZEL are a reliable, clever and economical solution.

Where things are becoming more and more complex, it's good to have a little ease. All the better if this also works in favour of economic efficiency.

#### xFUME® ROBO extraction torches (OA) to the point:

- Based on proven ABIROB® torch technology
- Optimum accessibility
- Easy upgrade of ABIROB® standard torches possible
- Versatile applications for automated welding
- Good TCP stability
- Integrated wire brake guarantees precisely guided welding paths
- Suitable for torch cleaning station TCS
- Compatible with all xFUME® extraction systems
- DIN EN ISO 21904 compliant



#### **xFUME® ROBO A 360**

#### Technical data (EN 60 974-7):

Cooling: air cooled
Rating: 360 A CO2
290 A M21

Duty cycle: 100 % Wire Ø: 0.8 – 1.4 mm

#### **xFUME® ROBO A 500**

#### Technical data (EN 60 974-7):

Cooling: air cooled
Rating: 500 A CO2
400 A M21

Duty cycle: 100 % Wire Ø: 0.8 – 1.6 mm

#### **xFUME® ROBO W 500**

#### Technical data (EN 60 974-7):

Cooling: liquid cooled Rating: 550 A CO2

500 A M21

Duty cycle: 100%

Wire Ø: 0.8-1.6 mm

# xFUME® ROBO A 360/500, xFUME® ROBO W 500, Cable assembly and upgrade set

#### Torch xFUME® ROBO A

Туре	Cooling	Torch geometry	Part-No.
xFUME® ROBO A 360	air cooled	0°	981.0009.1
xFUME® ROBO A 360	air cooled	22°	981.0010.1
xFUME® ROBO A 360	air cooled	35°	981.0011.1
xFUME® ROBO A 360	air cooled	45°	981.0012.1
xFUME® ROBO A 500	air cooled	0°	981.0013.1
xFUME® ROBO A 500	air cooled	22°	981.0014.1
xFUME® ROBO A 500	air cooled	35°	981.0015.1
xFUME® ROBO A 500	air cooled	45°	981.0016.1

#### Torch xFUME® ROBO W

Туре	Cooling	Torch geometry	Part-No.
xFUME® ROBO W 500	liquid cooled	0°	982.0009.1
xFUME® ROBO W 500	liquid cooled	22°	982.0010.1
xFUME® ROBO W 500	liquid cooled	35°	982.0011.1
xFUME® ROBO W 500	liquid cooled	45°	982.0012.1

#### Cable assembly xFUME® ROBO A<sup>1</sup>

Туре	Description	Part-No.
RSP ABIROB® A ECO xFUME®	RPC	981.0018.1
RSP ABIROB® A ECO xFUME®	Euro	981.0019.1

#### Cable assembly xFUME® ROBO W<sup>1</sup>

Туре	Description	Part-No.
RSP ABIROB® W 5F xFUME®	RPC, Wire brake	982.0013.1
RSP ABIROB® W 7F xFUME®	RPC, Wire brake	982.0014.1
RSP ABIROB® W 5F xFUME®	Eur, Wire brake	982.0015.1
RSP ABIROB® W 7F xFUME®	Euro, Wire brake	982.0016.1

#### Upgrade set xFUME® ROBO A/W

Туре	Description	Part-No.
xFUME® ROBO AC extraction kit	-	981.001 <i>7</i> .1
xFUME® ROBO LC extraction kit	-	982.0017.1

<sup>1</sup> Recommended maximum length: 3.00 m. Other cable assembly lengths and/or designs for specific power sources are available on request. The control cable is not configured on the machine side.

# **XFUME® ROBO xFUME®** ROBO extraction kit This attachment for source extraction is the ideal addition to a robotic welding cell fume

This attachment for source extraction is the ideal addition to a robotic welding cell fume extraction. It can be attached on the MIG/MAG industrial robot torch in a few simple steps and picks up welding fume directly at the point of origin.

# Robot fume extraction at the source xFUME® ROBO extraction kit

The xFUME® ROBO extraction kit is the ideal solution for welding fume extraction at the source. Combined with an ABIROB® W robot welding torch, reliable and precise fume extraction is guaranteed when the extraction kit is attached to the welding robot and connected to an extraction unit.

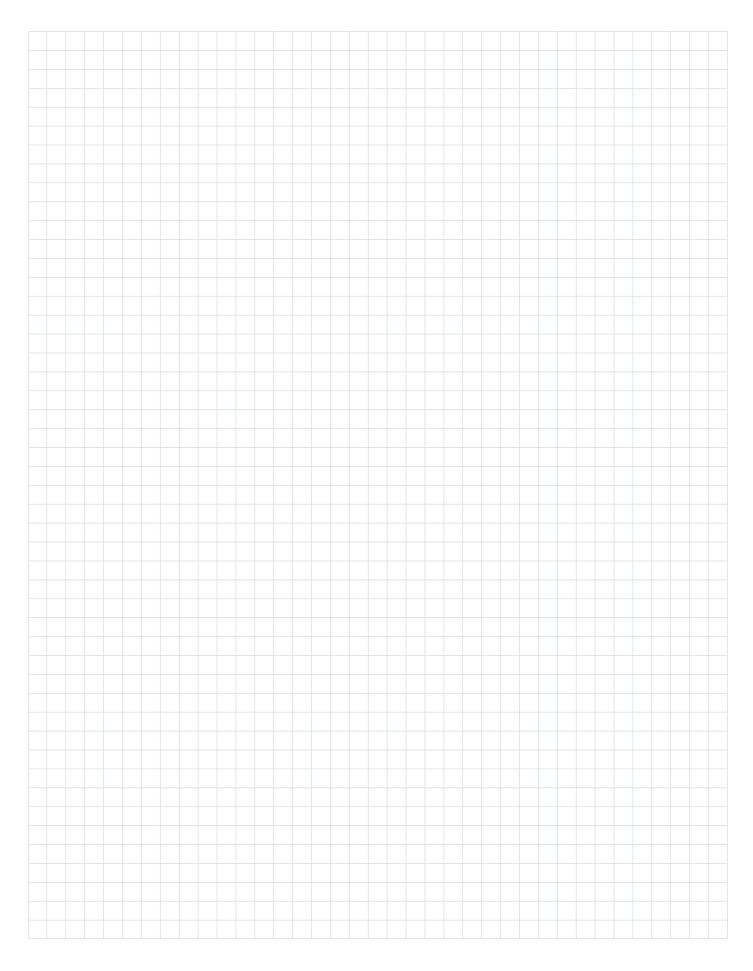
The extraction kit is separated from the cable assembly of the robot torch, which ensures that the welding fumes can flow unobstructed to the extraction unit. Already 50 mbar extraction power is sufficient to extract 95% and more welding fumes at the source without affecting the shielding gas coverage.



Туре	Description	Part-No.	
		3 m	6 m
xFUME® ROBO W 500/A 500, 0-45°	Complete kit	191.0283.1	191.0284.1
xFUME® ROBO W 600, 0-45°	Complete kit	191.0285.1	191.0286.1

Туре	Description	Part-No.
xFUME® ROBO W 500/A 500, 0-45°	Extraction nozzle	191.0248.1
xFUME® ROBO W 600, 0-45°	Extraction nozzle	191.0249.1

#### Notes



# **xFUME®** fume extraction **systems**



workplaces. This mobile all-rounder can be easily connected to the power socket.



#### Fume extraction system xFUME® ADVANCED/W3

#### The powerful one for extraction at the source

With this welding fume extraction system, you are on the safe side in terms of health and safety at work. The xFUME® ADVANCED is a powerful welding fume extraction system for use with a welding fume extraction torch. The filter used efficiently and reliably captures up to 99.76% of all particles > 0.1 µm without affecting the shielding gas coverage. In combination with an xFUME® COMPACT or xFUME® PRO welding fume extraction torch, this extraction system can show off its full capabilities. If stainless steels and other alloys need to be welded, the xFUME® ADVANCED W3, together with the xFUME® TIG extraction torch, ensures the safe extraction of highly harmful fumes from chromium-nickel compounds.

Up to two extraction torches can be connected to the xFUME® ADVANCED, each can be controlled independently of the other. The high extraction

performance is guaranteed by two infinitely variable 0.8 kW motors with more than 16,000 Pa. Filter cleaning is 100% automated, which means: no downtime due to cleaning intervals.

- The filter captures up to 99.76% of all dusts > 0.1 µm
- Automatic, highly efficient filter cleaning saves time and provides safety
- Automatic start-stop feature reduces wear and keeps operating costs low
- Robust construction and highest mobility at the same time
- Slim design facilitates even hard-to-reach welding applications
- Two infinitely variable 0.8 kW motors for two welding workstations



#### **xFUME® ADVANCED EU version**

 Max. airflow:
 ~ 260 m³/h

 Max. vacuum:
 ~ 16,000 Pa

 Noise level:
 ≤ 72 dB (A)

 Voltage:
 115 V 50/60 Hz

 230 V 50/60 Hz

 Motor power:
 2 x 0.8 kW

> 99.76%

#### **xFUME® ADVANCED W3**

Filter efficiency:

 $\begin{array}{lll} \text{Max. airflow:} & \sim 260 \text{ m}^3/\text{h} \\ \text{Max. vacuum:} & \sim 16,000 \text{ Pa} \\ \text{Noise level:} & \leq 72 \text{ dB (A)} \\ \text{Voltage:} & 115 \text{ V} 50/60 \text{ Hz} \\ 230 \text{ V} 50/60 \text{ Hz} \\ \text{Motor power:} & 2 \times 0.8 \text{ kW} \\ \text{Filter efficiency:} & > 99.76\% \end{array}$ 

Туре	Description	Part-No.
xFUME® ADVANCED EU version	115 V, 50/60Hz	601.0233.1
xFUME® ADVANCED EU version	230 V, 50/60Hz	601.0192.1
xFUME® ADVANCED W3	115 V, 50/60Hz	601.0139.1
xFUME® ADVANCED W3	230 V, 50/60Hz	601.0138.1

#### xFUME® ADVANCED / EU / W3

#### Wear parts and accessories

















Pos.	Description	Part-No.
1	Carbon brush set 115 V	601.0118.1
	Carbon brush set 230 V	601.0108.1
2	Motor 115 V	601.0110.1
	Motor 230 V	601.0109.1
3	Filter cartridge	601.0111.1
4	Extraction hose complete	601.011 <i>7</i> .1
5	Connection sleeve	601.0116.1
6	Current clamp cpl. 1.5 m	601.0041.1
	Current clamp cpl. 5 m	601.0277.1
7	Flexible funnel nozzle, magnetic with base	601.0016.1
8	Y-adapter	601.0235.1
not. fig.	Star knob screw set	601.0115.1
not. fig.	Fuse holder	601.0150.1
not. fig.	Hour meter	601.0151.1
not. fig.	Potentiometer with knob 115 V	601.0152.1
	Potentiometer with knob 230 V	601.0153.1
not. fig.	Socket 4-pole	601.0154.1
not. fig.	Differential pressure switch	601.01 <i>57</i> .1
not. fig.	Cover	601.0114.1
not. fig.	Service LED	890.0731.1
not. fig.	Power LED	890.0730.1
not. fig.	On/off switch	601.0148.1
not. fig.	Auto/manual switch	601.0149.1
not. fig.	Acoustic signal transmitter*	601.0279.1
not. fig.	Dust collection bag*	601.0021.10

<sup>\*</sup> for W3 version only



#### Fume extraction system xFUME® FLEX

#### The all-rounder talent in welding fume extraction

This flexible, mobile and versatile extraction unit provides efficient welding fume extraction at a manual welding workstation with a standard torch. Simply place the extraction hood with the flexible extraction arm above the welding process and the xFUME® FLEX captures the fumes. The extraction hood function absorbs any kind of harmful particles from the ambient air, including micro-particles from grinding and cutting work. The xFUME® FLEX extraction system is ideally suited for entry-level welding fume extraction, as the already existing welding torches can be used.

A powerful LED work light is also part of the standard equipment, as is the easily replaceable filter with an impressive filter surface of 36 m<sup>2</sup>. This is up to three times larger than the filter surfaces of standard extraction systems on the market. Thus, the filter has a service life that is up to three times longer, which has a very positive effect on operating costs. If the extraction funnel of the xFUME® FLEX is positioned correctly, it absorbs up to 90% of the welding fumes.



- 3 times longer filter performance than standard extraction systems available on the market
- Extraction arm in 2, 3 or 4 m length facilitates precise positioning of the extraction hood
- Optimum illumination of the workpiece by LED working light
- Mobile design for easy transport between welding workplaces
- Easy connection to 230 or 115 volt power socket



#### **xFUME® FLEX**

Max. airflow: ~ 1,200 m<sup>3</sup>/h
Connections: Extraction arm

Connection diameter: – Max. vacuum: –

Noise level: ≤ 72 dB (A)
Voltage: 115 V 50/60 Hz
230 V 50/60 Hz

Motor power: 1.1 kW Filter efficiency:  $\geq 99.95\%$ 

Туре	Description	Extraction arm length	Part-No.
×FUME® FLEX	115 V, 50 Hz	Extraction arm L=2 m	601.0090.1
×FUME® FLEX	115 V, 50 Hz	Extraction arm $L=3$ m	601.0091.1
×FUME® FLEX	115 V, 50 Hz	Extraction arm L=4 m	601.0092.1
×FUME® FLEX	115 V, 60 Hz	Extraction arm $L=2$ m	601.0093.1
×FUME® FLEX	115 V, 60 Hz	Extraction arm $L=3$ m	601.0094.1
×FUME® FLEX	115 V, 60 Hz	Extraction arm $L=4$ m	601.0095.1
×FUME® FLEX	230 V 50 Hz	Extraction arm L=2 m	601.0096.1
×FUME® FLEX	230 V 50 Hz	Extraction arm $L=3$ m	601.0097.1
xFUME® FLEX	230 V 50 Hz	Extraction arm L=4 m	601.0098.1

#### **xFUME® FLEX**

Wear parts and accessories







Pos.	Description	Part-No.
1	Extraction hood with LED/grid	601.0168.1
2	Extraction arm 2 m, without hood	601.0165.1
	Extraction arm 3 m, without hood	601.0166.1
	Extraction arm 4 m, without hood	601.0167.1
3	Filter cassette	601.0112.1
not fig.	Extraction hose 2 m, with 2 x rubber	601.0170.1
	Extraction hose 3 m, with 2 x rubber	601.0171.1
	Extraction hose 4 m, with 2 x rubber	601.0172.1
not fig.	Pre-filter fleece	601.0119.10
not fig.	Metal pre-filter	601.0142.1
not fig.	Switch LED	601.0160.1
not fig.	Illuminant LED	601.0161.1
not fig.	Protective grid	601.0162.1



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#### Our product range

#### **MANUAL**

- MIG/MAG welding torches
- TIG welding torches
- Plasma cutting torches
- Plasma welding torches

#### **EXTRACTION TECHNOLOGY**

- Fume extraction systems
- Fume extraction torches
- Fume extraction & power source combination system

#### **ROBOTIC SYSTEMS**

- Robot torches MIG/TIG/Plasma
- Robot switch-off protections
- Torch cleaning stations
- Wire cutting devices
- Robot power source
- System solutions for cobots
- Pipe welding robot
- Wire feeder systems
- Seam tracking sensors
- Gas management systems

#### LASER SYSTEMS

- Remote laser scanner
- Tactile laser optics
- Wire feeder systems
- Process monitoring tools
- Weld seam inspection

#### **ORBITAL WELDING**

- Orbital welding systems
- Positioning bands
- Coated contact tips

#### HARD AUTOMATION

- Welding tractors
- Welding tractor & power source combination system
- MIG/MAG automatic torches
- Plasma automatic welding and cutting torches

#### WELDING ACCESSORIES

- Wear parts MIG/TIG/Plasma
- Intermediate cable
- Sockets and plugs
- Electrode holders
- Gouging torches
- Gouging electrodes
- Utilities and tools
- Cooling units
- Wire feeding units
- Equipment for weld seam treatment
- Anti-spatter agents, sprays and pastes





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