

# xFUME®

Active health protection  
with innovative fume  
extraction technology



# xFUME®: High-performance extraction technology for reliable health protection



## **xFUME® Fume extraction**

Welding fumes are harmful to health. In addition to dangerous gases, it contains tiny particles that enter the blood via the lungs and can cause diseases. For this reason, employers are obliged to protect welders from these substances in order to prevent serious illnesses such as lung cancer.

With xFUME® fume extraction systems, ABICOR BINZEL offers powerful solutions to effectively extract fumes and reliably prevent inhalation of harmful particles.

### **Efficient low and high vacuum technology**

xFUME® units work with low or high vacuum technology. Depending on the model, fumes and other small particles released during welding are extracted directly at the point of origin with up to 26,000 Pa and cleaned in a special filter.

### **Compact, robust and mobile**

The compact and robust xFUME® systems are absolutely suitable for industrial use. Thanks to their castors, they can be conveniently transported wherever fume extraction is required. They work much more efficiently than stationary or central extraction systems.

# Extraction solutions for manual and robot welding. Strong and reliable!



## Ideal for industrial use

The robust and durable xFUME® solutions are ideally suited for rugged industrial use. Suitable solutions are available for different welding processes, operating conditions and intensity of use:

### xFUME® ADVANCED:

High-performance extraction for one to two manual welding workstations

### xFUME® FLEX:

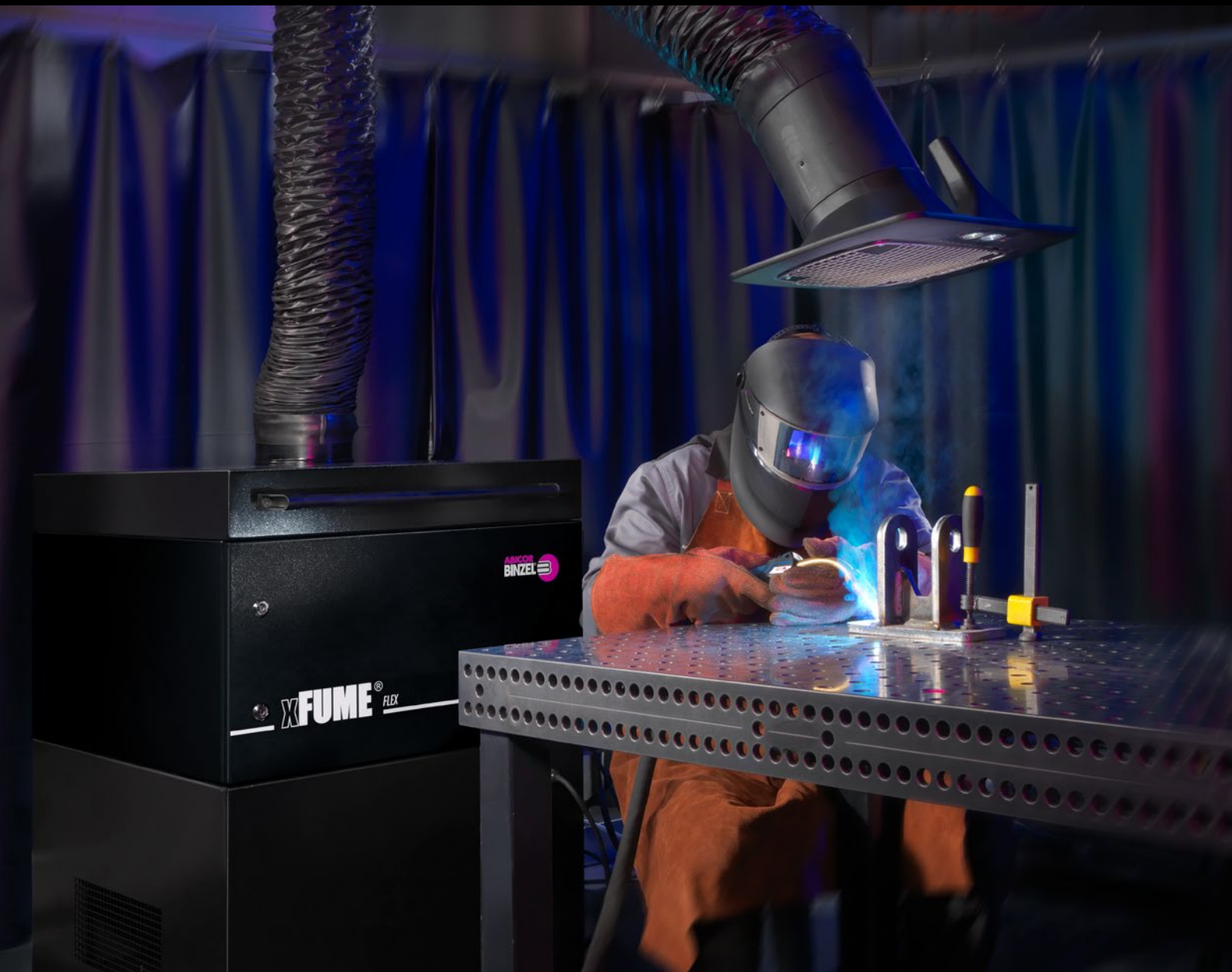
Compact, flexible extraction solution for mobile individual workstations



xFUME® ADVANCED

xFUME® FLEX

# xFUME® FLEX: Compact, flexible extraction solution for mobile individual workstations



## Your benefits

The mobile extraction unit xFUME® FLEX is versatile and always the right choice when an effective and flexible extraction system is required for a changing single workstation.

- Freely movable extraction funnel with 2, 3 or 4 m extraction arm for easy, precise placement
- Integrated LED lighting for optimum lighting conditions even with narrow workpieces
- Compact, lightweight and movable design for mobile use and easy transport
- Simple „plug & play“ installation
- Durable, low-maintenance motor without carbon brushes
- Easy handling thanks to easily replaceable disposable filter

# Details at a glance

## xFUME® FLEX

Suction hood with integrated LED lighting and protective grids

Robust metal housing

Filter cartridge – easy to replace

### Maximum flexibility for all extraction tasks

xFUME® FLEX can be used flexibly at almost any manual welding workstation and for all welding, cutting and grinding applications. The extraction unit is also suitable for particularly cramped and hard-to-reach areas with poor lighting conditions and tasks where a standard ABICOR BINZEL welding torch without extraction is required



# xFUME® ADVANCED: Powerful extraction system for up to two manual welding workstations



## Your benefits

In combination with ABICOR BINZEL fume extraction torches, the mobile extraction system xFUME® ADVANCED extracts welding fumes directly where they arise.

- Particularly powerful thanks to high-vacuum technology with more than 16,000 Pa negative pressure
- Highly efficient thanks to the cartridge filter, which filters out up to 99.76% of all dust > 0.1 µm
- Two connections for extraction hoses
- Automatic start/stop via current clamp for reduced operating costs and less wear and tear
- For flexible and comfortable working at up to two workstations with one system
- Compact and robust design with castors for mobile use and easy transport
- Automatic filter cleaning by compressed air impulse

# Details at a glance

## xFUME® ADVANCED

Control box with  
2 x 0.8 kW motors

Control panel

Connection  
extraction hose

Compressed air connection  
for 100% automatic cleaning

Dust collector  
with drawer



## Ideally suited for RAB GRIP HE 2 fume extraction torches

Combined with ABICOR BINZEL RAB GRIP HE 2 fume extraction torches the xFUME® ADVANCED is particularly effective. Thanks to optimum coordination, they ensure highly efficient extraction directly at the gas nozzle with a clear view of the arc at the same time. RAB GRIP HE extraction torches can be easily connected to all existing MIG/MAG workstations.



# Technical data

**xFUME®** technology fume extraction systems in detail



	<b>xFUME® FLEX</b>	<b>xFUME® ADVANCED</b>
<b>Max. airflow:</b>	~ 1.200 m <sup>3</sup> /h	~ 260 m <sup>3</sup> /h
<b>Connections:</b>	Extraction arm	2
<b>Connection diameter:</b>	-	60 mm
<b>Max. vacuum:</b>	-	~ 16.000 Pa
<b>Noise level:</b>	≤ 72 dB (A)	≤ 72 dB (A)
<b>Voltage:</b>	115 V 50/60 Hz 230 V 50/60 Hz -	115 V 50/60 Hz 230 V 50/60 Hz -
<b>Motor power:</b>	1.1 kW	2 x 0.8 kW
<b>Filter efficiency:</b>	≥ 99.95 %	> 99.76 %
<b>Cleaning:</b>	none	automatic
<b>Automatic start/stop:</b>	no	yes
<b>Adjustable air flow:</b>	no	yes
<b>Weight:</b>	120.0-129.0 kg	40.0 kg
<b>Size:</b>	700 x 700 x 1.095 mm	370 x 370 x 940 mm

**xFUME®** – mobile, flexible, efficient!





# Order overview

## Extraction units xFUME®

Description	Voltage	Version	Features	Order no.
<b>xFUME® FLEX</b>	115 V 50 Hz	Low vacuum	Extraction arm L = 2m	601.0090.1
<b>xFUME® FLEX</b>	115 V 50 Hz	Low vacuum	Extraction arm L = 3m	601.0091.1
<b>xFUME® FLEX</b>	115 V 50 Hz	Low vacuum	Extraction arm L = 4m	601.0092.1
<b>xFUME® FLEX</b>	115 V 60 Hz	Low vacuum	Extraction arm L = 2m	601.0093.1
<b>xFUME® FLEX</b>	115 V 60 Hz	Low vacuum	Extraction arm L = 3m	601.0094.1
<b>xFUME® FLEX</b>	115 V 60 Hz	Low vacuum	Extraction arm L = 4m	601.0095.1
<b>xFUME® FLEX</b>	230 V 50 Hz	Low vacuum	Extraction arm L = 2m	601.0096.1
<b>xFUME® FLEX</b>	230 V 50 Hz	Low vacuum	Extraction arm L = 3m	601.0097.1
<b>xFUME® FLEX</b>	230 V 50 Hz	Low vacuum	Extraction arm L = 4m	601.0098.1
<b>xFUME® ADVANCED EU version</b>	115 V 50/60 Hz	High vacuum	1 to 2 Exhaust connections	601.0233.1
<b>xFUME® ADVANCED EU version</b>	230 V 50/60 Hz	High vacuum	1 to 2 Exhaust connections	601.0192.1
<b>xFUME® ADVANCED W3</b>	115 V 50/60 Hz	High vacuum	1 to 2 Exhaust connections	601.0139.1
<b>xFUME® ADVANCED W3</b>	230 V 50/60 Hz	High vacuum	1 to 2 Exhaust connections	601.0138.1

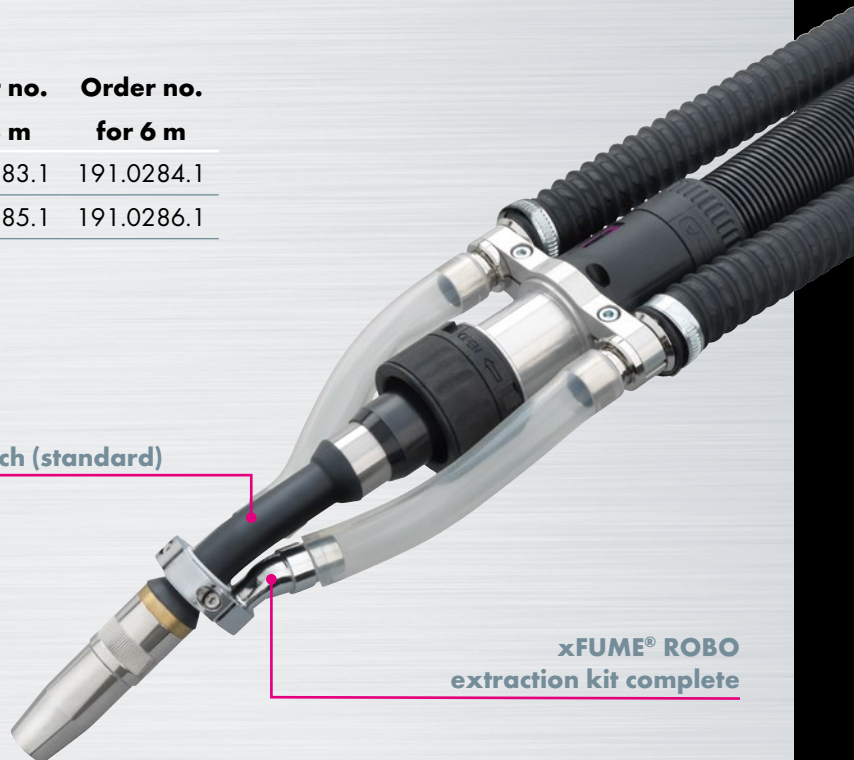
## xFUME® ROBO extraction kit

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.

Complete set	Order no.	Order no.
	for 3 m	for 6 m
<b>xFUME® ROBO W 500 /A 500 0-45°</b>	191.0283.1	191.0284.1
<b>xFUME® ROBO W 600 0-45°</b>	191.0285.1	191.0286.1

ABIROB® W  
robot welding torch (standard)

xFUME® ROBO  
extraction kit complete



# xFUME® and Fume extraction torches RAB GRIP HE 2. Ideal system solution!



## Fume extraction torch RAB GRIP HE 2

The ideal supplements for the xFUME® ADVANCED extraction system are the new RAB GRIP HE 2 fume extraction torches from ABICOR BINZEL. Together, these perfectly coordinated systems set new standards in extraction.

The new RAB GRIP HE torches capture fumes where they are created: directly at the gas nozzle. To prevent an extractor nozzle hindering accessibility at the component and a clear view of the arc, the RAB GRIP HE 2 captures the fumes approx. 45 mm downstream from the gas nozzle.

Thanks to the new tapered nozzle geometry, new cable assemblies and extraction tubes, as well as the

optimised machine connection, the RAB GRIP HE 2 captures weld fumes optimally even in difficult working positions. For example, extraction efficiency in the flat position is over 95 %, which places the system in the top range of extraction torches.

The system solution with xFUME® ADVANCED and RAB GRIP HE 2 fume extraction torches combines effective health protection with the best possible working conditions and is eminently suitable for demanding industrial use.

# Small change, big effect

## eBook »The complete guide to fume extraction.«



Scan the QR code and download your free eBook!

The installation of one or more welding fume extraction systems has no influence on the welding process or the choice of welding equipment. It is already possible to achieve healthy ambient air during welding with the use of a single fume extraction torch and/or a central positioned or mobile fume extraction system.

It is not necessary to use a central fume extraction and filter system that completely exchanges the hall air several times an hour. Mobile extraction units are cheaper, more flexible and best suited for extraction at the source. They ensure that harmful welding fumes are absorbed and discharged directly at the point of origin.

Take advantage of a product demonstration at your company. Contact your welding specialist distributor and test the possibilities of welding fume extraction directly at your premises.

The eBook on the subject of »The complete guide to fume extraction.« also offers a lot of further information and provides answers to these questions, for example

- Which fume extraction system is the right one for us?
- What needs to be considered when welding metals that produce toxic fumes?
- Are there also welding fume extraction torches that are easier to handle?
- Does this mean that established welding processes have to be changed?
- Which solutions are available for TIG welding?
- What are the current legal requirements?
- and much more





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