

xFUME VAC

Active health protection
with innovative fume
extraction technology.



xFUME VAC: High-performance extraction technology for reliable health protection.



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

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

xFUME VAC ADVANCED: High-performance extraction for one to two manual welding workstations

xFUME VAC PRO: High-performance extraction for up to four robot welding stations



xFUME VAC FLEX



xFUME VAC ADVANCED



xFUME VAC PRO

xFUME VAC FLEX: Compact, flexible extraction solution for mobile individual workstations.



Your benefits.

The mobile extraction unit xFUME VAC 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 VAC 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 VAC 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 VAC 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 VAC ADVANCED extracts welding fumes directly where they arise.

- Particularly powerful thanks to high-vacuum technology with more than 16,000 PA negative pressure
- Two connections for extraction hoses
- For flexible and comfortable working at up to two workstations with one system
- Automatic filter cleaning by compressed air impulse
- Highly efficient thanks to the cartridge filter, which filters out up to 99.95 % of all dust > 0.1 μm
- Automatic start/stop via current clamp for reduced operating costs and less wear and tear
- Compact and robust design with castors for mobile use and easy transport

Details at a glance.

xFUME VAC 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

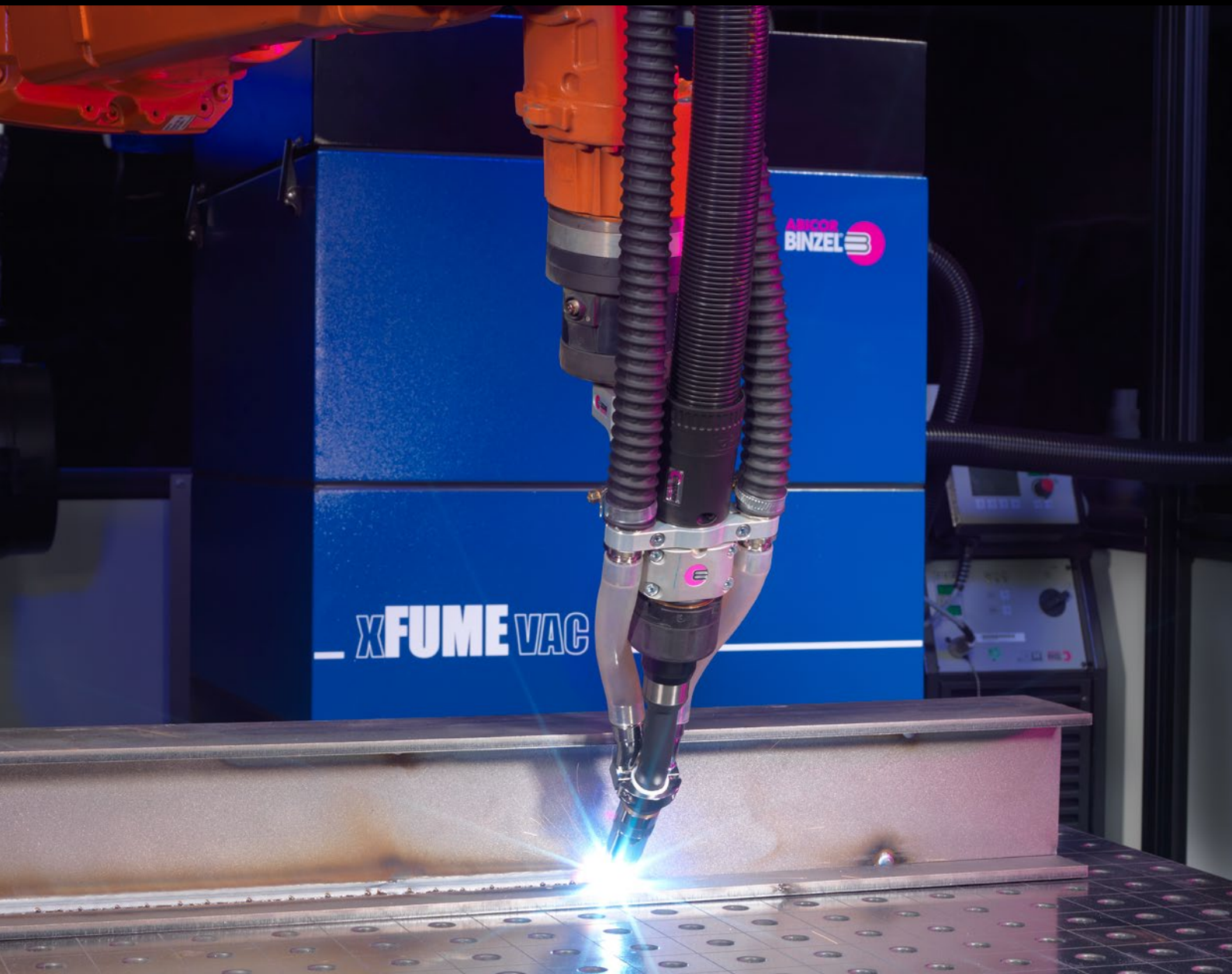


**Ideally suited
for RAB GRIP HE
fume extraction
torches.**

Combined with ABICOR BINZEL RAB GRIP HE fume extraction torches the xFUME VAC 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.



xFUME VAC PRO: Powerful extraction system for up to four robot welding torches.



Your benefits.

The mobile extraction unit xFUME VAC PRO is suitable for 24-hour continuous operation and ideally designed for connection to ABICOR BINZEL robot welding torches.

- Highly efficient thanks to the high-vacuum technology with more than 26,000 PA negative pressure
- Up to four connections for extraction hoses
- Up to 30 m extraction hoses for easy connection to several welding robots
- Durable, low-maintenance side channel compressor
- Automatic filter cleaning by compressed air impulse
- Automatic start/stop via direct connection to PLC for reduced operating costs and less wear and tear
- Compact and robust design with castors for mobile use and easy transport

Details at a glance.

xFUME VAC PRO

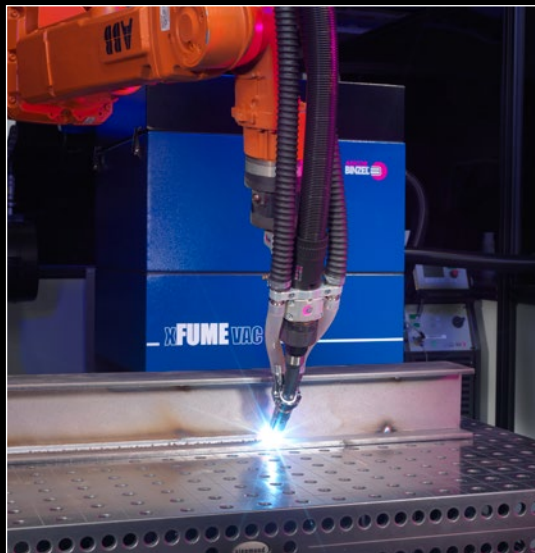
Filterbox with
4x cartridge filter

Connection
suction hose

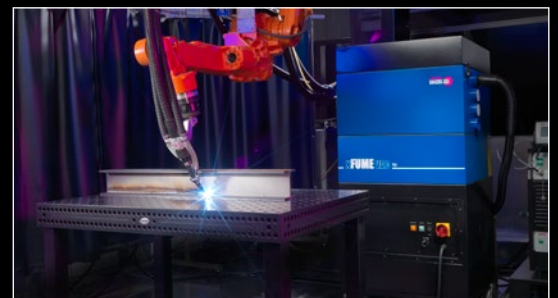


Control panel

As a system:
Perfect in a team
with ABIROB®
welding torches.



Combined with the robot torches ABIROB® A 500, W 500, W 600 or W 652 from ABICOR BINZEL, the xFUME VAC PRO system is extremely effective and powerful. Thanks to perfect coordination, they ensure highly efficient extraction at the gas nozzle in continuous operation. The connection is made simply via the xFUME ROBO extraction kit.



Technical data.

Extraction units xFUME VAC



	xFUME VAC FLEX	xFUME VAC ADVANCED	xFUME VAC PRO
Max. airflow:	~ 1.200 m ³ /h	~ 340 m ³ /h	~ 700 m ³ /h
Connections:	Extraction arm	2	2/4
Connection diameter:	-	60 mm	60 mm
Max. vacuum:	-	~ 16.000 PA	~ 26.000 PA
Noise level:	≤ 72 dB (A)	≤ 68 dB (A)	≤ 75 dB (A)
Voltage:	115 V 50/60 Hz 230 V 50/60 Hz -	115 V 50/60 Hz 230 V 50/60 Hz -	- 230 V 50/60 Hz 380 V 50/60 Hz
Motor power:	1.1 kW	2 x 0.8 kW	3.0 / 5.5 kW
Filter efficiency:	≥ 99.95 %	≥ 99.95 %	≥ 99.95 %
Cleaning:	none	automatic	automatic
Automatic start/stop:	no	yes	yes
Adjustable air flow:	no	yes	yes
Weight:	120.0 - 129.0 kg	40.0 kg	274,0 - 290.0 kg
Size:	700 x 700 x 1.095 mm	370 x 370 x 940 mm	700 x 700 x 1.540 mm

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



Order overview.

Extraction units xFUME VAC

Description	Voltage	Version	Features	Order no.
xFUME VAC FLEX	115 V 50 Hz	Low vacuum	Extraction arm L = 2m	601.0090.1
xFUME VAC FLEX	115 V 50 Hz	Low vacuum	Extraction arm L = 3m	601.0091.1
xFUME VAC FLEX	115 V 50 Hz	Low vacuum	Extraction arm L = 4m	601.0092.1
xFUME VAC FLEX	115 V 60 Hz	Low vacuum	Extraction arm L = 2m	601.0093.1
xFUME VAC FLEX	115 V 60 Hz	Low vacuum	Extraction arm L = 3m	601.0094.1
xFUME VAC FLEX	115 V 60 Hz	Low vacuum	Extraction arm L = 4m	601.0095.1
xFUME VAC FLEX	230 V 50 Hz	Low vacuum	Extraction arm L = 2m	601.0096.1
xFUME VAC FLEX	230 V 50 Hz	Low vacuum	Extraction arm L = 3m	601.0097.1
xFUME VAC FLEX	230 V 50 Hz	Low vacuum	Extraction arm L = 4m	601.0098.1
xFUME VAC ADVANCED	230 V 50/60 Hz	High vacuum	1 to 2 Exhaust connections	601.0099.1
xFUME VAC ADVANCED	115 V 50/60 Hz	High vacuum	1 to 2 Exhaust connections	601.0100.1
xFUME VAC PRO	3P 230 V 3.0 kW 50/60 Hz	High vacuum	1 to 2 Exhaust connections	601.0101.1
xFUME VAC PRO	3P 230 V 5.5 kW 50/60 Hz	High vacuum	1 to 4 Exhaust connections	601.0102.1
xFUME VAC PRO	3P 380 V 3.0 kW 50/60 Hz	High vacuum	1 to 2 Exhaust connections	601.0103.1
xFUME VAC PRO	3P 380 V 5.5 kW 50/60 Hz	High vacuum	1 to 4 Exhaust connections	601.0104.1

xFUME ROBO extraction kit

Complete set	Order no.	Order no.
	for 3 m	for 6 m
xFUME ROBO W 500 22° / A 500 22°	191.0217.1	191.0221.1
xFUME ROBO W 500 45° / A 500 45°	191.0218.1	191.0222.1
xFUME ROBO W 600 22°	191.0219.1	191.0223.1
xFUME ROBO W 600 45°	191.0220.1	191.0224.1

ABIROB® W robot welding torch
(standard)

xFUME ROBO
extraction kit complete



xFUME VAC and Fume extraction torches RAB GRIP HE. Ideal system solution!



Fume extraction torch RAB GRIP HE ...

The ideal supplements for the xFUME VAC ADVANCED extraction system are the new RAB GRIP HE 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 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 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 VAC ADVANCED and RAB GRIP HE fume extraction torches combines effective health protection with the best possible working conditions and is eminently suitable for demanding industrial use.

**ABICOR
BINZEL®** 

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