

xFUME® fume extraction technology from ABICOR BINZEL

Sophisticated fume extraction for small workshops up to applications in heavy industry

With the xFUME® series, ABICOR BINZEL offers holistic solutions for welders' occupational health and safety. Reliable welding fume extraction, weight reduction, the combination of power source and extraction unit, and even better handling and accessibility of the fume extraction torches are combined with more extraction efficiency, improved stability and maximum robustness. And all this with absolutely safe shielding gas coverage for the respective welding task.



Welding fume extraction efficiency high, weight low

Despite awareness that fumes are harmful to health and must not be inhaled by people in the immediate vicinity, fume extraction torches are not at the top of the popularity scale. The reason: due to their additional design with the extraction nozzle and the usually thicker cable assembly, most welding fume extraction torches appear heavy and unwieldy. In addition, they make it difficult to see the process without obstruction. Although welders are aware of the possible consequences of inhaling welding fumes, they tend to ignore this and prefer to use a standard MIG/MAG welding torch. With the xFUME® series, ABICOR BINZEL has

developed welding fume extraction torches for extraction at the source that are unsurpassed in terms of weight, ergonomics and efficiency. They are strikingly slim in their complete design, allow a very good view of the welding process and all have **standard conformity with DIN EN ISO 21904**. Thus, all ABICOR BINZEL fume extraction torches meet the required extraction capacity standard – for MIG/MAG and TIG fume extraction torches.

xFUME® PRO: The heavy-duty system for tough everyday industrial use



Performance meets ergonomics in the xFUME® PRO fume extraction torch. Highest stability, best extraction capacity, a flow-optimised interior design of the complete welding torch, including cable assembly and less weight, with optimised geometry and integrated ball joint and thus even better overall handling, make this torch ideal for use in tough industrial applications. The optionally short or long button and the perfectly balanced cable assembly to the torch neck bring additional relief. The leather sleeve protects the cable assembly and allows it to slide easily even over edges.

Power meets efficiency

The xFUME® PRO can demonstrate its full power and efficiency in combination with a welding fume extraction unit such as the xFUME® ADVANCED, or the unique combination solution xFUME® POWER 250 power source/extraction system from ABICOR BINZEL.

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



Technical data

Torch type	Cooling	CO ₂	Mixed gases M21 *	DC (%)	Wire-Ø (mm)	Volume flow m ³ /h	
						Extraction nozzle	Connector
xFUME® PRO 24	air cooled	270	250	60	0.8-1.2	72	103.5
xFUME® PRO 36	air cooled	330	300	60	0.8-1.2	57	102
xFUME® PRO 501	liquid cooled	500	450	100	1.0-1.6	58	95

* according to DIN EN ISO 14175

xFUME® COMPACT: The super lightweight torch for thin sheets



The xFUME® COMPACT fume extraction torch will quickly become a favourite 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.

Ideal system solution up to 250 amperes

The xFUME® ADVANCED fume extraction system or the unique xFUME® POWER 250 combination solution power source/extraction system from ABICOR BINZEL form the perfect duo for the lower to medium welding current range.

Whether manual reworking downstream from a robot production line in vehicle construction, light welding work in process finishing or minor repair or workshop work – its super-light, comfortable handling makes the xFUME® COMPACT a welcome, »healthy« all-rounder in general fabrication and transportation. Once you have tested welding fume extraction with the xFUME® COMPACT, you will never want another fume extraction torch for thin sheet metal processing.

- 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



Technical data

Torch type	Cooling	CO ₂	Mixed gases M21 *	DC (%)	Wire-Ø (mm)	Volume flow m ³ /h	
			Rating (A)			Extraction nozzle	Connector
xFUME® COMPACT 25	air cooled	250	230	35	0.8-1.2	46	85

* according to DIN EN ISO 14175

xFUME® Extraction torch order overview

xFUME® PRO und xFUME® COMPACT

xFUME® Fume Extraction Torch MIG/MAG

	xFUME® PRO 24	xFUME® PRO 36	xFUME® PRO 501	xFUME® COMPACT
4,00m	612.0127.1	614.0262.1	634.0207.1	604.0144.1
5,00m	612.0128.1	614.0263.1	634.0208.1	604.0145.1

Wear Parts

	xFUME® PRO 24	xFUME® PRO 36	xFUME® PRO 501	xFUME® COMPACT
Gas Nozzle	145.0880.5	145.0903.5	145.0903.5	145.0900.5
Spatter Protection	146.0091.5	146.0093.5	146.0093.5	-
Contact Tip	140.0245.25	140.0445.25	140.0445.25	140.D457.10
Nozzle Holder	142.0308.5	142.0306.5	142.0306.5	142.0001
Liner 2.0x4.5x440	124.0031	124.0031	-	124.0031
Liner 2.0x4.5x450	-	-	124.0112.1	-
Liner 2.0x4.5x540	124.0035	124.0035	-	124.0035
Liner 2.0x4.5x550	-	-	124.0113.1	-

Spare Parts

	xFUME® PRO 24	xFUME® PRO 36	xFUME® PRO 501	xFUME® COMPACT
Suction Nozzle	600.0148.1	600.0147.1	600.0147.1	600.0145.1
Inner Neck	614.0267.1	614.0267.1	634.0210.1	604.0140.1
Handle	180.0207.1	180.0207.1	180.0207.1	180.0206.1
Torch Neck	-	-	-	-
Centring Piece	614.0253.1	614.0253.1	614.0253.1	604.0142.1
Lever Trigger	185.0135.1	185.0135.1	185.0135.1	185.0135.1
Fixing Ring	-	-	-	604.0143.1
Air Supply Sluder	-	-	-	400.1928.1



xFUME® PRO & xFUME® COMPACT in Action

