



Fume Extraction Catalog

RoboVent®

www.robovent.com

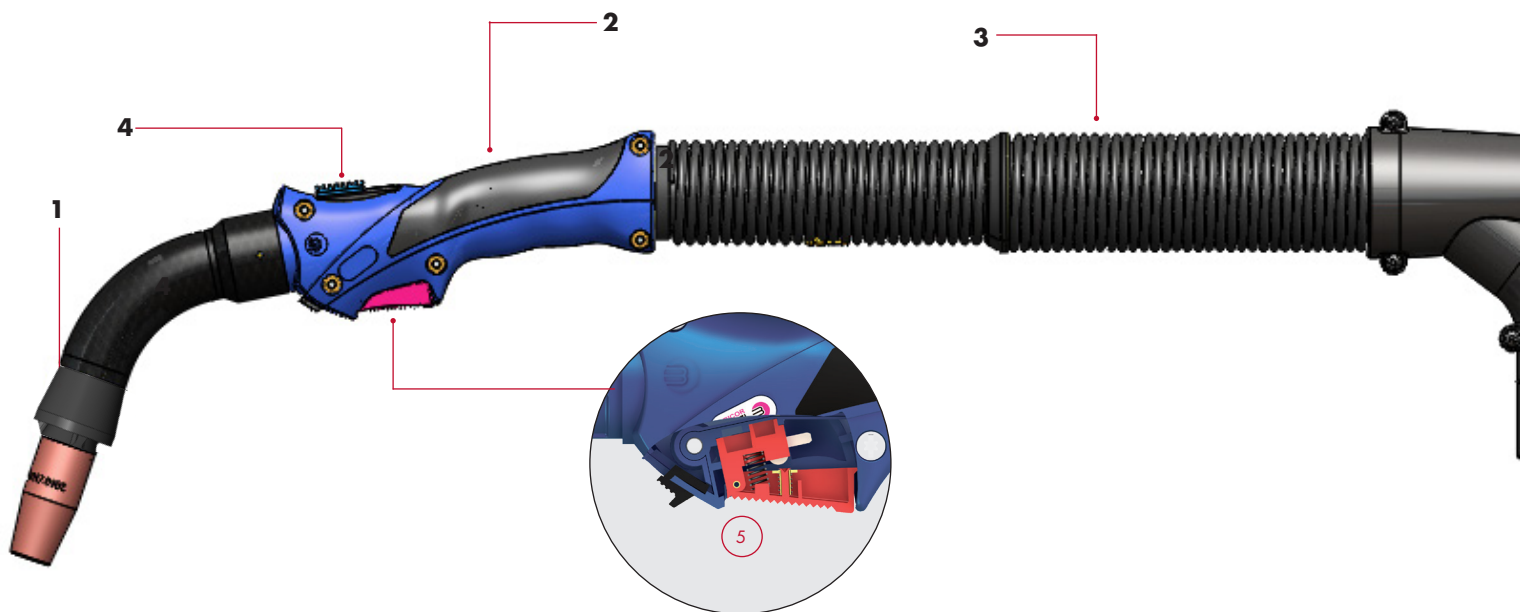
**ABICOR
BINZEL®** 

www.binzel-abicor.com

xFUME™ Fume Extraction Welding Guns Air & Water-Cooled



Innovations in Detail:



1:

Fume Nozzle (Shroud)

Tapered: Provides better accessibility.
Reverse Suction: Provides better smoke extraction especially in vertical/overhead welding positions.
Classic, slip-on consumables also available.

2:

Rubberized Grip Insert

Operator comfort and control

3:

Light Weight Cable

Reduced operator fatigue

4:

External air regulation

Ergonomically placed

5:

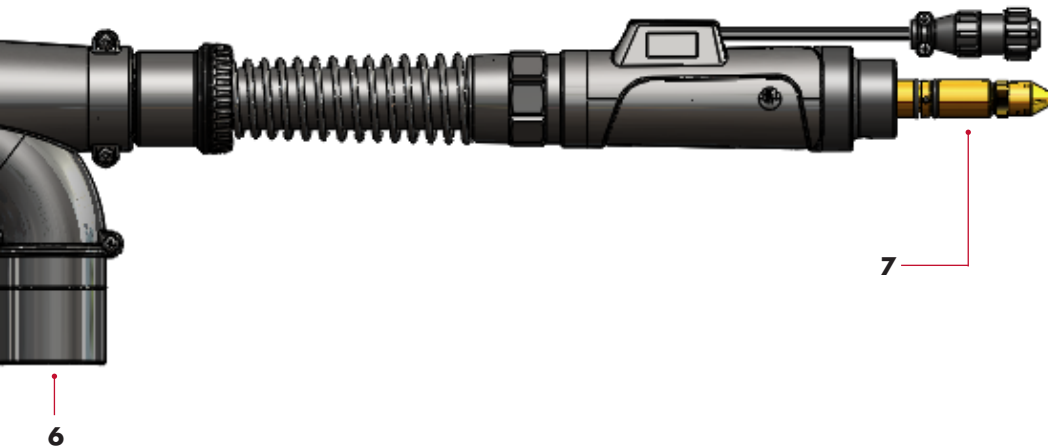
Completely encapsulated mechanical trigger

Optimum protection against contamination from welding fume particles

xFUME™ Fume Extraction Welding Guns

Ordering Chart

FG	3	15	HR -	35	L
	Amp	Cable Length	Fume Nozzle (Shroud)	Wire Size	Back End
FG - Fume Extraction Gun					
Amperage					
2 - 250 Amp (Air-cooled)					
3 - 300 Amp (Air-cooled)					
4 - 400 Amp (Air-cooled)					
5 - 500 Amp (Water-cooled)					
Cable Length					
10 - 10 Feet					
12 - 12 Feet					
15 - 15 Feet					
Fume Nozzle (Shroud)					
HR - High-flow Threaded Reverse Suction (60° Swanneck)					
H - High-flow Threaded (60° Swanneck)					
Back End					
E - Euro					
HT - Tweco 4					
L - Lincoln Ext Gas					
L1 - Lincoln 10, 74 & 84 Series					
L2 - Lincoln Power MIG					
M - Miller					
Wire Size					
35 - .035 Inches					
45 - .045 Inches					
52 - .052 Inches					
62 - .062 Inches					



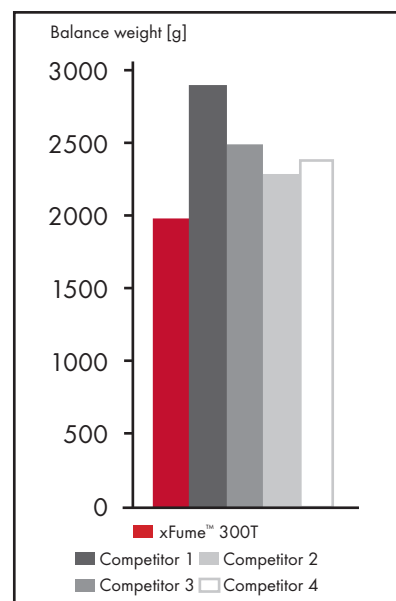
6: Optimized cable assembly

Due to the optimized cable assembly components, as well as an increased cross section, the flow volume increased by 20% for cooler wear parts and longer life.

7: Machine-side connection

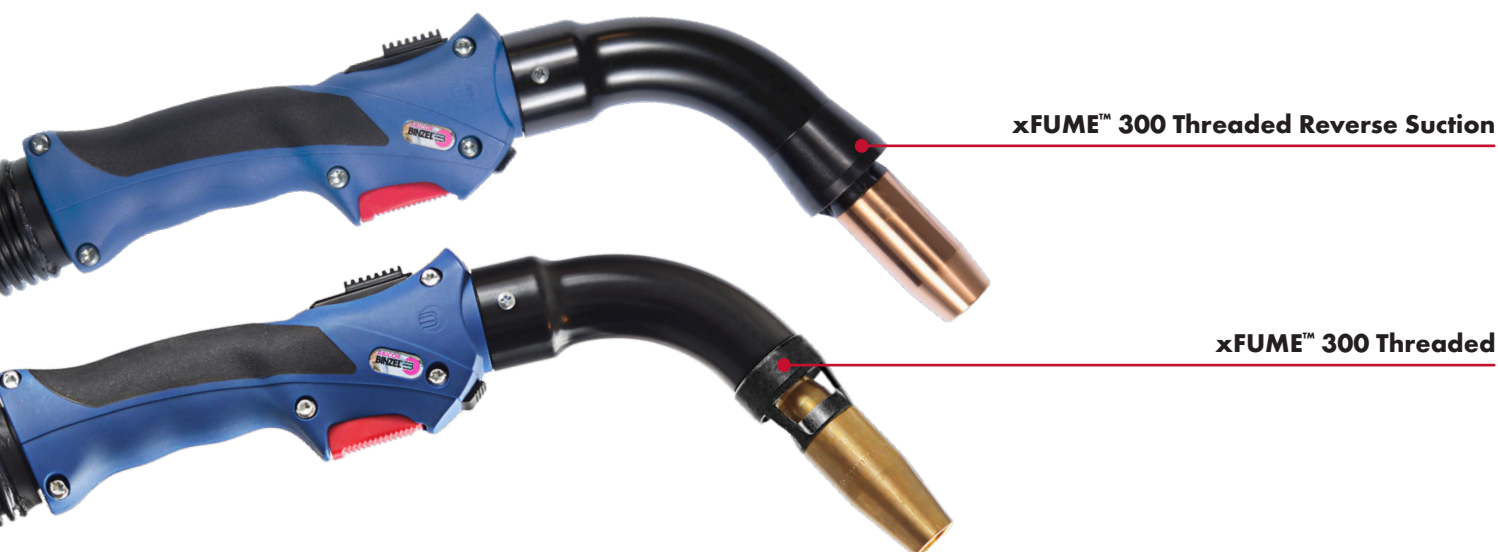
Direct mount to feeder or Euro connection.

xFume™ Competitive Comparison



Up to 27 percent less balance weight in comparison to competitors.

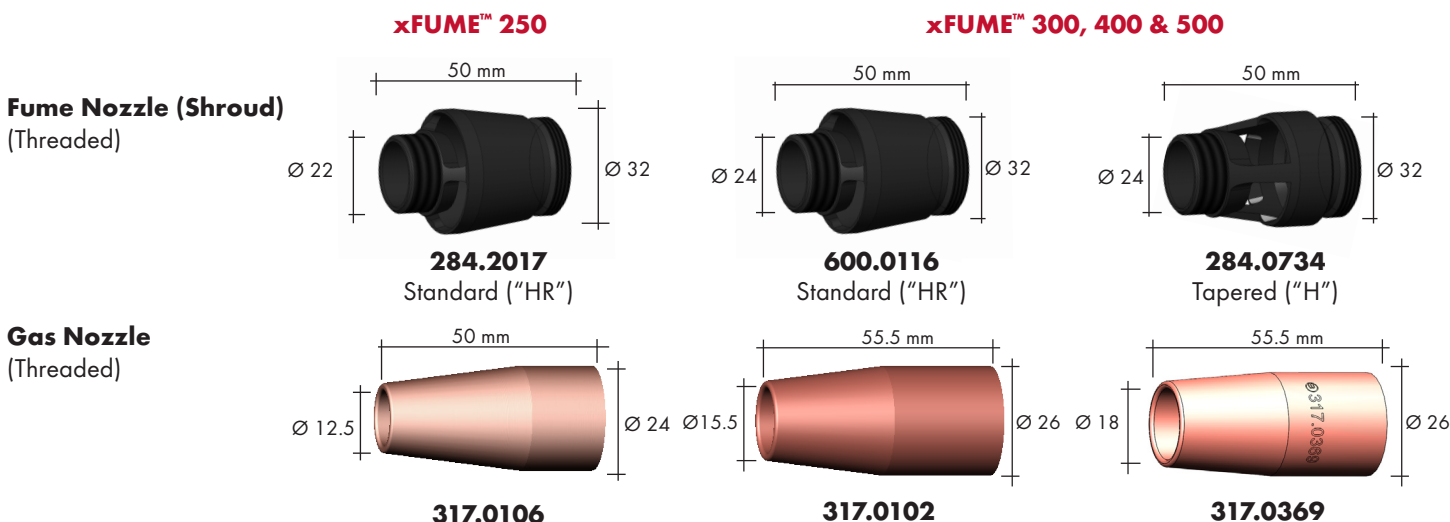
xFUME™ Fume Extraction Welding Guns Air & Water-Cooled



Technical data	Type	Cooling	Rating		Duty cycle (%)	Wire-Ø	
			CO ₂	Mixed Gases		(inches)	(mm)
	xFUME™ 250	air	250 A	220 A	60	.030" - .045"	0.8 - 1.2 mm
	xFUME™ 300	air	300 A	270 A	60	.030" - .062"	0.8 - 1.6 mm
	xFUME™ 400	air	400 A	350 A	60	.035" - .062"	0.9 - 1.6 mm
	xFUME™ 500	water	500 A	450 A	100	.035" - .062"	0.9 - 1.6 mm

Hint for liquid cooled torches: To protect the cable assembly components against overheating, we recommend an post cooling time of at least four minutes.

Wear Parts



Nozzles	xFUME™ 250	xFUME™ 300, 400 & 500
Tapered	317.0106 *	317.0102 *
	-	317.0369
Cylindrical	317.0215	317.0214

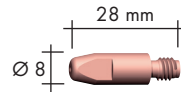
Fume Shrouds	xFUME™ 250	xFUME™ 300, 400 & 500
Reverse Suction Steel	284.2017	600.0116 *
Tapered Steel	284.1061	284.0734

*Designates factory standard

xFUME™ Fume Extraction Welding Guns

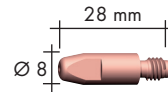
Wear Parts cont.

xFUME™ 250

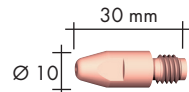


* M6

xFUME™ 300, 400 & 500



M6



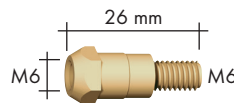
* M8

Contact tip (25 pcs.)

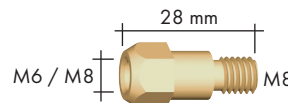
		xFUME™ 250	xFUME™ 300, 400 & 500	
E-CU*	Ø .030"	140.0051	140.0051	140.0114
	Ø .035"	140.0169	140.0169	140.0214
	Ø .040"	140.0242	140.0242	140.0313
	Ø .045"	140.0379	140.0379	140.0442
	Ø .052"	-	140.0516	140.0533
	Ø .062"	-	140.0555	140.0587
CuCrZr	Ø .030"	140.0054	140.0054	140.0117
	Ø .035"	140.0172	140.0172	140.0217
	Ø .040"	140.0245	140.0245	140.0316
	Ø .045"	140.0382	140.0382	140.0445
	Ø .052"	-	140.0519	140.0536
	Ø .062"	-	140.0558	140.0590
Silver	Ø .030"	147.0054	147.0054	147.0117
	Ø .035"	147.0172	147.0172	147.0217
	Ø .040"	147.0245	147.0245	147.0316
	Ø .045"	147.0382	147.0382	147.0445
	Ø .052"	-	147.0519	147.0536
	Ø .062"	-	147.0558	147.0590

*Designates factory standard

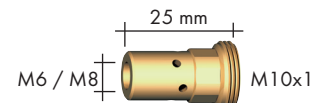
xFUME™ 250



xFUME™ 300 & 400

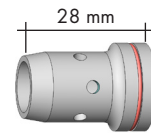
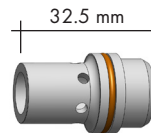
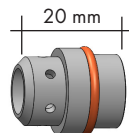


xFUME™ 500



Contact tip holder (10 pcs.)

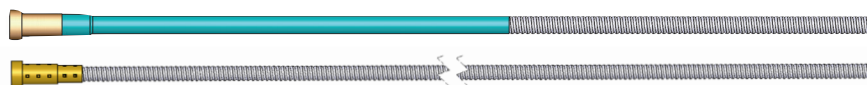
	xFUME™ 250	xFUME™ 300 & 400	xFUME™ 500
M6	* 142.0003	142.0005	142.0008
M8	-	* 142.0020	* 142.0022



Gas diffuser w/o-ring (10 pcs.)

	xFUME™ 250	xFUME™ 300 & 400	xFUME™ 500
Standard	012.0407*	014.0624*	284.1821*
High Temp (Black)	-	014.0663	-

*Designates factory standard



Liners for steel wires	xFUME™ 250	xFUME™ 300 & 400	xFUME™ 500
Insulated steel liner 17' .024"-.035"	124.0015	124.0015	-
Insulated steel liner 17' .035"-.045"	124.9042	124.9042	-
Insulated steel liner 17' .052"-.062"	-	124.9043	-
Uninsulated steel liner 17' .035"-.045"	-	-	122.9057
Uninsulated steel liner 17' .052"-.062"	-	-	122.9058

xFUME™ Fume Extraction Welding Guns

Wear Parts cont.



Liners for stainless wires	xFUME™ 250	xFUME™ 300 & 400	xFUME™ 500
Liner C-TFE 024"-030" 12' (for 10' gun)	127.9007	127.9007	127.9007
Liner C-TFE 024"-030" 17' (for 12' & 15' gun)	127.9009	127.9009	127.9009
Liner C-TFE 035"-045" 12' (for 10' gun)	127.9001	127.9001	127.9001
Liner C-TFE 035"-045" 17' (for 12' & 15' gun)	127.9003	127.9003	127.9003
Liner C-TEF 052"-062" 12' (for 10' gun)	-	127.9004	127.9004
Liner C-TEF 052"-062" 17' (for 12' & 15' gun)	-	127.9006	127.9006

Accessories

Weld Cable Cover



Features & Benefits

- 1000 Denier Cordura with flame retardant coating
- Extremely lightweight
- Continuous temp rating: +250°F
- Momentary temp rating: 800°F
- Excellent UV protection
- Unaffected by water, oils, and mild solvents
- Excellent resistance to abrasion, weld spatter, puncture and tear resistance

Ordering Instructions for Protective Cable Covering

WC	-	2.38	-	BULK
Model		Diameter Selection		Length
Model		Diameter Selection		Length

Weld Cover

2.38 = 2 3/8" ID

Sold per meter*

*45m = One full 150' roll

xFUME™ Fume Extraction Welding Guns

Accessories cont.

Anti-Spatter Ceramic Spray & Coating Cap



Ceramic Spray (p/n 192.0228.12 (12-pack))
Ceramic Spray (p/n 192.0228.1 (Single Can))

Aerosol ceramic anti-spatter coating. Thin coating creates a solid protective barrier against spatter on consumables, fixtures, and tools.

A single application lasts up to 6 hours of welding which means less downtime in both robotic and hand-held welding applications.

13.5 oz. cans sold by the case

Coating Cap (p/n 192.0256.1 (1 each))

The Ceramic Coating Cap was developed special for ABICOR BINZEL's Ceramic Spray. The tip of the gas nozzle and its interior can be protected in a few seconds from adhering welding spatter with the Coating Cap.

The Coating Cap offers cost savings through lower consumption while protecting both the welder and the environment.

Gas Flow Checker



Gas Flow Checker (p/n 191.0013 (1 each))
Metric Gas Flow Checker (p/n 191.0003 (1 each))

Ensure you're getting the proper gas flow at the nozzle. Measures 0-40 cfh. Metric gas flow checker also available (0-20 l/min).

Magnehelic Static Pressure Gauge



Magnehelic Static Pressure Gauge (p/n 284.1939)

Test various sections of your fume extraction system to ensure the optimal static pressure is being produced.



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