

xFUME® CATALOG 1.0



Fume extraction technology for professional industrial use

**ABICOR
BINZEL®**



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xFUME® PRO & COMPACT

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

xFUME® PRO

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-optimized interior design
- Reduced gas loss due to optimized 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 ₂ 250 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 ₂ 300 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 ₂ 450 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 Type | Part-No. | | Swan neck complete | |
|------------------------|------------|------------|--------------------|------------|
| | 4 m | 5 m | Type | Part-No. |
| xFUME® PRO 24 | 612.0127.1 | 612.0128.1 | 50° | 614.0264.1 |
| xFUME® PRO 36 | 614.0262.1 | 614.0263.1 | 50° | 614.0264.1 |
| xFUME® PRO 501 | 634.0207.1 | 634.0208.1 | 50° | 634.0209.1 |

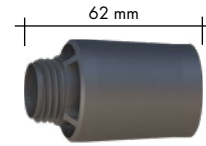
xFUME® PRO 24, xFUME® PRO 36, xFUME® PRO 501

Wear parts

xFUME® PRO 24

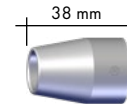
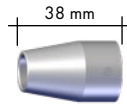


xFUME® PRO 36 / 501



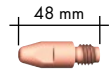
Extraction nozzle (1 pc.)

| | | |
|----------|------------|------------|
| Standard | 600.0148.1 | 600.0147.1 |
| Tapered | - | 600.0140.1 |



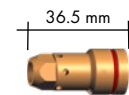
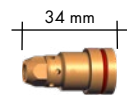
Gas nozzle (5 pcs.)

| | | | |
|----------------|------------|------------|------------|
| Conical | 145.0880.5 | 145.0903.5 | - |
| Cylindrical | - | 145.0911.5 | - |
| Conical (long) | - | - | 317.0458.5 |



Contact tip (10 pcs.)

| | M6 | M8 | M8 |
|---------------------|----------|-------------|-------------|
| CuCrZr Ø 0.8 | 140.0054 | 140.0117 | - |
| Ø 1.0 | 140.0245 | 140.0316.10 | - |
| Ø 1.2 | 140.0382 | 140.0445.10 | - |
| Ø 1.4 | - | 140.0536 | - |
| Ø 1.6 | - | 140.0590 | - |
| CuCrZr (long) Ø 0.8 | - | - | 140.1792.10 |
| Ø 1.0 | - | - | 140.1772.10 |
| Ø 1.2 | - | - | 140.1773.10 |
| Ø 1.6 | - | - | 140.1791.10 |



Tip adaptor (5 pcs.)

| | | |
|----|------------|------------|
| M6 | 142.0308.5 | - |
| M8 | - | 142.0306.5 |



Spatter protector (5 pcs.)

| | | |
|--|------------|------------|
| | 146.0091.5 | 146.0093.5 |
|--|------------|------------|



Centering star (1 pc.)

| | | |
|----------|------------|------------|
| Complete | 614.0253.1 | 614.0253.1 |
|----------|------------|------------|



| Liner | | for 4 m | for 5 m |
|------------|----------------|----------|----------|
| Liner | xFUME® PRO 24 | 124.0031 | 124.0035 |
| | xFUME® PRO 36 | 124.0031 | 124.0035 |
| | xFUME® PRO 501 | 124.0112 | 124.0113 |
| PTFE liner | xFUME® PRO 24 | 126.0026 | 126.0028 |
| | xFUME® PRO 36 | 126.0026 | 126.0028 |
| | xFUME® PRO 501 | 126.0026 | 126.0028 |

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 optimized front end
- Uses the same parts as the xFUME® series
- Conforms to DIN EN ISO 21904



xFUME® COMPACT 25

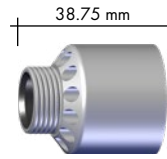
Technical data (EN 60 974-7):

| | |
|-------------|--|
| Cooling: | air cooled |
| Rating: | 250 A CO ₂ 230 A mixed gases M21 (DIN EN ISO 14175) |
| Duty cycle: | 35% |
| Wire Ø: | 0.8-1.2 mm |

| Torch complete | | Part-No. | | Swan neck | |
|-------------------|------------|------------|------|------------|--|
| Type | 4 m | 5 m | Type | Part-No. | |
| xFUME® COMPACT 25 | 604.0144.1 | 604.0145.1 | 45° | 604.0140.1 | |

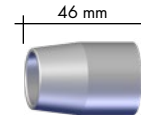
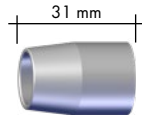
xFUME® COMPACT 25

Wear parts



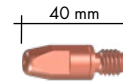
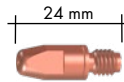
Extraction nozzle (1 pc.)

| | |
|----------|------------|
| Standard | 600.0145.1 |
|----------|------------|



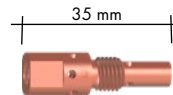
Gas nozzle (5 pcs.)

| | | |
|----------------|------------|------------|
| Conical | 145.0900.5 | - |
| Conical (long) | - | 145.0915.5 |



Contact tip (10 pcs.)

| | | M6 | M6 |
|------------------|-------|-------------|-------------|
| CuCrZr | Ø 0.8 | 140.D456.10 | - |
| | Ø 1.0 | 140.D457.10 | - |
| | Ø 1.2 | 140.D458.10 | - |
| CuCrZr (long) | Ø 0.8 | - | 140.1252.10 |
| | Ø 1.0 | - | 140.1254.10 |
| | Ø 1.2 | - | 140.1255.10 |



Tip adaptor (5 pcs.)

| | |
|----|----------|
| M6 | 142.0001 |
|----|----------|



Centering star (1 pc.)

| | |
|----------|------------|
| Complete | 604.0142.1 |
|----------|------------|



| | Liner | PTFE liner |
|-----|----------|------------|
| 4 m | 124.0031 | 126.0026 |
| 5 m | 124.0035 | 126.0028 |

Bikox[®], control cables, hoses and liners

I. Cable assemblies, air cooled

| Type | Description | Cable assembly length | |
|-------------------------------|-----------------------------------|-----------------------|------------|
| | | 4 m | 5 m |
| xFUME [®] PRO 24 | Bikox [®] 28 / LW 2-pole | 160.1866.1 | 160.1867.1 |
| xFUME [®] PRO 36 | Bikox [®] 53 / LW 2-pole | 160.1860.1 | 160.1861.1 |
| xFUME [®] COMPACT 25 | Bikox [®] 28 / LW 2-pole | 160.1866.1 | 160.1867.1 |

II. Cable assemblies, liquid cooled

| xFUME [®] PRO 501 | Description | Length | | |
|----------------------------|------------------|------------|------------|--------------|
| | | 4 m | 5 m | 100 m (pcs.) |
| Power cable | | 115.1119.1 | 115.1120.1 | - |
| Wire conduit/gas hose | | 154.0018.1 | 154.0019.1 | - |
| Water hose red | PVC; Ø 5.5 x 1.5 | - | - | 109.0056 |
| Water hose blue | PVC; Ø 5.5 x 1.5 | - | - | 109.0057 |
| Control cable | 2-pole | - | - | 100.0019 |

III. Outer and extraction hoses

| Type | 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 |

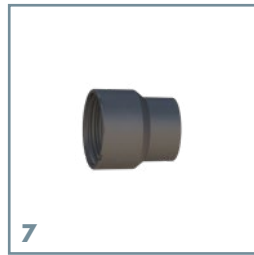
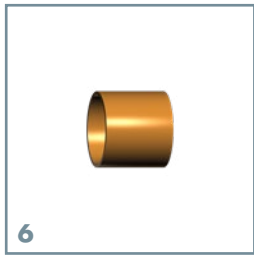
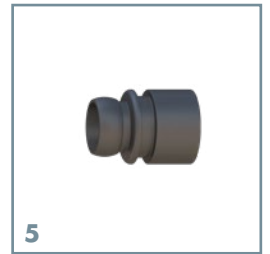
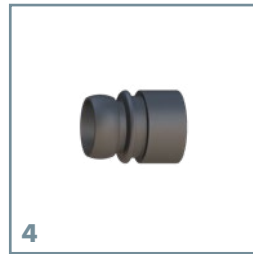
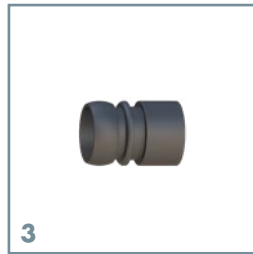
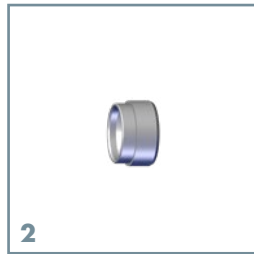
IV. Hose clamps, quick connector and marking washer

| Type | Pcs. | Part-No. | applicable for hose type | |
|--|------|-------------|--------------------------|----------|
| | | | 109.0056 | 109.0057 |
| Hose clamp D=9.5 infinitely; xFUME [®] PRO 501 | 20 | 173.0015.20 | • | • |
| Quick connector ND 5 / Ø=6.0; 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. | Type | 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 | xFUME® PRO 24 | Ball joint | 600.0138.1 |
| 4 | xFUME® PRO 36 / 501 | Ball joint | 600.0130.1 |
| 5 | xFUME® COMPACT | 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 | xFUME® 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®

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

