

FUME EXTRACTION SYSTEMS & TORCHES





CHICAGO CO





Welders and operatives can be exposed to welding fumes, grinding dust and oil mist in the working environment.

It is obligatory for employers to create safe and healthy working conditions for operatives by reducing these health risks.



NEW LEGISLATION FOR INDOOR AND OUTDOOR WELDING ACTIVITIES

In February 2019, the HSE released their latest bulletin STSU1 which details the change in enforcement expectations for all welding fume including mild steel welding fume.

The bulletin followed the International Agency Research on Cancer's (IARC) reclassification



of all welding fume including mild steels as Group 1 carcinogenic to humans.

The IARC have published new scientific evidence that states exposure to all welding fume including mild steel welding fume can cause lung cancer and possibly kidney cancer in humans.

This information has been endorsed by the WHEC (World Health Expert Committee).



As a result, the HSE will be strengthening their enforcement expectations for all welding fume, including mild steel as the general ventilation does not achieve the necessary control measures in reducing exposure.

Employers will now be required to implement suitable engineering control for all welding activities carried out indoors in order to reduce the cancer risk.



An example of appropriate engineering control is LEV (Local Exhaust Ventilation) which will also control exposure to manganese, a constituent of mild steel welding fume which can cause neurological effects similar to Parkinson's disease.

It should also be noted that for welding activities outdoors, the HSE now require RPE to be provided. LEV is not always an adequate control measure for reducing employee exposure. In these cases, LEV must be supplemented by adequate and suitable Respiratory Protection Equipment to protect welders from any residue fume.

Our products meet the protective requirements of the new HSE legislation for mild steel welding fume.

STARPARTS F-TECH — FUME TECHNOLOGY

Offering practical, reliable cleaner air solutions

Improving working conditions for welders, environments and businesses

High Vacuum System

F-TECH FOX



Order Code -110V Model: **ZXFTFOX110**

Order Code - 230V Model: **ZXFTFOX230**

The F-Tech Fox is a high vacuum dust extraction system offering a portable solution to extract dust from manual welding and grinding processes.



KEY FEATURES

- Compact modular design
- Extremely portable 4 sturdy, swivel castors for easy manoeuvrability in the workplace
- 110 or 230 volt models available
- Tandem motors offering pure efficiency in providing a vacuum of over 20,000 Pa to extract and filter harmful welding or grinding dust
- Will run 2 welding torches simultaneously
- Hour meter to check running time on equipment
- Fan speed control
- Featuring ePTFE robust European manufactured filters (H 13 certified)

 the best solution for extracting larger amounts of dust. These 2 robust filters within the unit offer a very long service life. Cleaning is carried out by automatic nozzles controlled by the differential pressure measurement within the filter housing. ePTFE filters are certified by the German Institute for occupational therapy
- Automatic cleaning for the filter cartridge and the mechanical filter layer
- Dust is collected in the dust tray and a mask/gloves are provided for handling the removal of the waste

TECHNICAL DATA

Filter efficiency	≥ 99.9%
Motor power	2 x 0.8 Kw
Rated input voltage	110V and 230V models 50-60Hz
Flow rate pressure	340m³/h
Noise levels	<78 dB(A)
Dimensions	300 x 300 x 845 mm
Weight	35 Kg

Auto Stop/Start unit also available

STARPARTS F-TECH — FUME TECHNOLOGY

The F-Tech Pocket is a portable extraction unit designed to extract and filter fumes from welding processes, micro dust, vapours and odours.

F-TECH POCKET

KEY FEATURES

- Portable, rugged unit designed to be carried to the working area
- · Very lightweight
- Practical long handle
- Nozzle with magnetic support
- Fitted with a plastic extraction nozzle
- Flexible 2mtr hose diameter 50mm
- Perfect for those difficult to reach areas
- 99.5% filter efficiency
- Spark arrestor
- Deodorizer carbon filter
- Hourmeter
- Fully serviceable
- Readily available accessories and spare parts
- Meets latest HSE regulations



Filter efficiency	99.5% E12 Classification
Motor power	1.1 Kw
Rated input voltage	110V and 230V models 50-60Hz
Flow rate pressure	110m³/h
Noise levels	72dB(A)
Dimensions	580 x 300 x 370 mm
Weight	20 Kg

Hose - 90-day warranty



Order Code -230V Model: FTPOCKET230





CE

Year Warranty*





The F-Tech Armur is a high performance mobile extraction system designed for extraction and filtration of fumes derived from the welding processes, micro dust, vapours and odours.

F-TECH ARMUR

KEY FEATURES

- Portable 4 wheel unit on swivel castors for easy movement around the workshop
- High performance 3mtr positional suction arm
- The Armotech and Armoflex suction arms have been designed for maximum efficiency, high manouverability and robustness during the extraction of welding fumes
- 1400 M³/h flow rate at hood
- 99.5% filter efficiency
- User friendly digital panel
- Hourmeter
- Clogged filter alarm
- Alarm log
- Fully serviceable
- Readily available accessories and spare parts
- Meets latest HSE regulations

TECHNICAL DATA

Filter efficiency	99.5% E12 Classification
Motor power	1.1 Kw
Rated input voltage	110V and 230V models 50Hz
Flow rate pressure	1400m³/h (at hood)
Noise levels	69dB(A)
Dimensions	1010 x 520 x 920 mm
Weight	85 Kg

Auto Stop/Start unit also available

- · Max recommended arm length is 3mtr
- Supplied with 3mtr power supply cable
- Armoflex & Armotech arms 12 mth warranty

Order Code - 110V Model: **ZXFTARMUR110/AFX3**

Order Code - 230V Model: **ZXFTARMUR230/AFX3**

STARPARTS F-TECH — FUME TECHNOLOGY

The F-Tech Armur is a high performance mobile extraction system designed for extraction and filtration of fumes derived from the welding processes, micro dust, vapours and odours.

F-TECH ARMUR

KEY FEATURES

- Portable 4 wheel unit on swivel castors for easy movement around the workshop
- High performance 3mtr positional suction arm
- The Armotech and Armoflex suction arms have been designed for maximum efficiency, high manouverability and robustness during the extraction of welding fumes
- 1400 M³/h flow rate at hood
- 99.5% filter efficiency
- User friendly digital panel
- Hourmeter
- Clogged filter alarm
- Alarm log
- Fully serviceable
- Readily available accessories and spare parts
- Meets latest HSE regulations

TECHNICAL DATA

Filter efficiency	99.5% E12 Classification		
Motor power	1.1 Kw		
Rated input voltage	110V and 230V models 50Hz		
Flow rate pressure	1400m³/h (at hood)		
Noise levels	69dB(A)		
Dimensions	1010 x 520 x 920 mm		
Weight	85 Kg		
Auto Stop/Start unit also available			



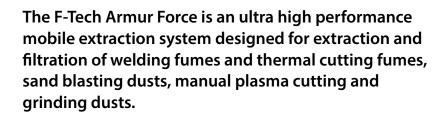
Order Code - 230V Model: **ZXFTARMUR230/ATC3**

- Max recommended arm length is 3mtr
- Supplied with 3mtr power supply cable
- Armoflex & Armotech arms 12 mth warranty



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F-TECH ARMUR FORCE

KEY FEATURES

- Portable 4 wheel unit on sturdy swivel castors for easy movement around the workplace
- High performance 3 mtr positional suction Armotech extraction arm
- Easy access to filter chamber
- Fully serviceable
- Readily available accessories and spare parts
- The Armur Force features 2 cartridge filters enclosed in anti-static polyester providing high filter efficiency
- Automatic cleaning with counter current compressed air
- Carbon filter available on request
- Meets latest HSE regulations

TECHNICAL DATA

Filter efficiency	99.9%
Motor power	1.1 Kw
Rated input voltage	230V
Flow rate pressure	2500m³/h
Noise levels	67dB(A)
Dimensions	600 x 1200 x 800 mm
Weight	175 Kg



Year

Warranty*

NEW!

STARPARTS F-TECH — FUME TECHNOLOGY

The F-Tech ICAP 2.0 is a wall mounted welding fume extraction system with self supporting heavy duty cantilevered 3 mtr arm.

F-TECH ICAP

KEY FEATURES

- 230 or 400 Volt models available
- High performance centrifugal extraction fan encased in a rugged soundproof compartment
- Fixing holes on rear frame to allow wall mounting
- 3mtr arm (3mtr Armoflex or Armotech arms available)
- 2500m³/hr max flow
- 1480m³/hr max suction
- Powerful 3 stage effective E12 filtration up to 99.5%
- Filter Stages
 - Stage 1 Metallic pre-filter 25%
 - Stage 2 Corrugated polyester fibre pre-filter
 - Stage 3 Absolute filter E12HEPA
- Durable steel with powder coated finish
- Meets latest HSE regulations

TECHNICAL DATA

Filter efficiency	99.5%
Motor power	1.5 Kw
Rated input voltage	230V and 400V models 50Hz
Flow rate pressure	2500m³/h (at hood)
Max Suction	1400m³/h
Noise levels	73dB(A)
Dimensions	508 x 747 x 759 mm
Weight	100 Kg

• Armoflex & Armotech arms - 12 mth warranty





Optional

- De-odorising carbon filter available
- Twin arm adaptor available to allow use of 2 arms



Order Code -400V Model: **ZXFTICAP400**

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The F-Tech X Bench 1500, down and rear draught extraction bench for centralised systems, 1.5mtr. Suitable for extraction of welding fumes and particulate, sanding, grinding, iron, marble, plastic and all activities where there is a need to protect the operator and create a safe working area.

F-TECH X BENCH 1500

KEY FEATURES

- An efficient and versatile 1.5mtr down and rear draught bench
- For efficient use in the extraction and filtration of welding or grinding fume particle recovery, deburring, polishing of components and items with limited weights and measures
- Additionally it can be used for small manual thermal cutting operations
- Rugged standardised suction surface which is modifiable depending on work to be carried out
- Sealed dust collection drawers
- Internal mechanical pre-filtration section composed of a cylindrical spark-trap steel mesh filter
- Accessories available
- Additional PPF recommended

TECHNICAL DATA

75%
3000 m³/h
1500 x 700 x 840 mm
100 Kg







INTRODUCING STARPARTS F-TECH – FUME TECHNOLOGY

The F-Tech X Bench Filter Pro 2000 is an efficient and versatile downdraught bench. Used for suction of fumes and spoiled work dust, welding fumes, grinding, wood, metal, marble, plastic and for all the activities necessary to protect the operator and create a safe working area.

F-TECH X BENCH FILTER PRO 2000

KEY FEATURES

- Useful 2mtr wide work surface (1870 x 715mm)
- G2 pre-filters, metal mesh 70%
- F7 rigid pocket filter 2 95%
- Manufactured from galvanised steel the X Bench Filter Pro 2000 comes complete with:
 - Plenum chamber dust separator, sparks eliminator
 - Filtering section with F7 efficiency, with an easy sideways removal for maintenance and parts replacement.
 - Practical extractable chest for major slag collection
 - Sealed dust collection drawers
 - A work plan splitter to create a double working space
 - Centrifugal fan with backward curved impeller
 - Side exhaust silencer to allow a re-entry of purified air into the workplace
- Additional PPE recommended
- Suitable applications: Welding fumes, Wood, Metal, Smoothing, Marble, Plastic





TECHNICAL DATA

Filter efficiency	95% F7 Classification
Motor power	1.5 Kw
Rated input voltage	400V
Flow rate pressure	3300 m³/h
Dimensions (external)	2270 x 900 x 1330/1800 mm
Weight	200 Kg





ACCESSORIES

FTPVCH















FTHC

FTMHC

















RICAERO000FCA1

ARMO FLEX Arms

ARMO TECH Arms

FTHC F-Tech PVC Hose Connector Male 45mm Dia. for F-Tech Fox

FTPVCH F-Tech Hose PVC Super Elastic (available in 5, 10

and 15m lengths) for F-Tech Fox

FTRED F-Tech Hose Connector Reducer 45mm to 32mm

FTFILT F-Tech Filter for F-Tech Fox

FTSS F-Tech Auto Stop/Start Unit for F-Tech Fox **FTMH05** 500mm Flexible Metal Hose with Flat Suction

Nozzle & Magnetic Base for F-Tech Fox

FTMHC Hose Connector for FTMH05

F18E1249059229 Absolute Filter for F-Tech Armur / ICAP

F13ZMA59249012 Anti Sparks Metallic Filter for F-Tech Armur / ICAP

F1200592490048 Pre Filter for F-Tech Armur / ICAP RICAER00000H13 Cartridge Filter for F-Tech Pocket

ACCOAER0000010 Anti Sparks Metallic Filter for F-Tech Pocket

RICAER0000FCA1 Carbon Filter for F-Tech Pocket **DBCARTD325X500** Antistatic Cartridge filter for F-Tech Armur Force RICFUNI0000010 Deodorising Carbon filter for F-Tech Armur Force RICICAP0000CC Deodorising Carbon filter for F-Tech ICAP

ARMOFLEX160200 Armoflex 2m Arm for F-Tech Armur ARMOFLEX160300 Armoflex 3m Arm for F-Tech Armur ARMOTECH160200 Armoflex 2m Arm for F-Tech Armur ARMOTECH160300 Armoflex 3m Arm for F-Tech Armur **ARMOTECH160400** Armoflex 4m Arm for F-Tech Armur Force

ARMOFLEX160301 Armoflex 3m Arm for F-Tech ICAP ARMOFLEX160401 Armoflex 4m Arm for F-Tech ICAP ARMOTECH160301 Armoflex 3m Arm for F-Tech ICAP ARMOTECH160401 Armoflex 4m Arm for F-Tech ICAP **DCBICAP2000001** Twin Arm Adaptor for F-Tech ICAP

F-TECH MIG TORCHES

FUME EXTRACTION MIG TORCHES 300 - 500 AMP

Giving the user maximum extraction efficiency at the welding source

The F-TECH range of Fume extraction torches are manufactured in Europe and offer a choice of air and water cooled fume torches in 3, 4 and 5 metre euro fitting.



KEY FEATURES

- Direct extraction at the arc to reduce the welder's exposure to hazardous welding fumes
- Simple extraction control at the front of the handle
- · Lightweight and well balanced design for user comfort
- Patented optimal torch cooling high durability
- The torch is ready to use for easy connection to the welding machine and extraction unit

PERFORMANCE DATA

	Maximum Current CO ²	Duty Cycle CO ²	Maximum Current Mixed Gases	Duty Cycle Argon	Extraction Rate	Wire Ø
FT300	300	60%	200	60%	80m³/h	0.8-1.2mm
FT400	400	60%	300	60%	70m³/h	0.8-1.6mm
FT500W	500	80%	400	80%	70m³/h	0.8-2.4mm



AIR COOLED F-TECH FUME EXTRACTION TORCHES

Part Number	Description
FT300-3E	F Tech 300A Air Cooled Fume Extraction Torch 3mtr Euro
FT300-4E	F Tech 300A Air Cooled Fume Extraction Torch 4mtr Euro
FT300-5E	F Tech 300A Air Cooled Fume Extraction Torch 5mtr Euro
FT400-3E	F Tech 400A Air Cooled Fume Extraction Torch 3mtr Euro
FT400-4E	F Tech 400A Air Cooled Fume Extraction Torch 4mtr Euro
FT400-5E	F Tech 400A Air Cooled Fume Extraction Torch 5mtr Euro

WATER COOLED F-TECH FUME EXTRACTION TORCHES

Part Number	Description
FT500W-3E	F Tech 500A Water Cooled Fume Extraction Torch 3mtr Euro
FT500W-4E	F Tech 500A Water Cooled Fume Extraction Torch 4mtr Euro
FT500W-5E	F Tech 500A Water Cooled Fume Extraction Torch 5mtr Euro

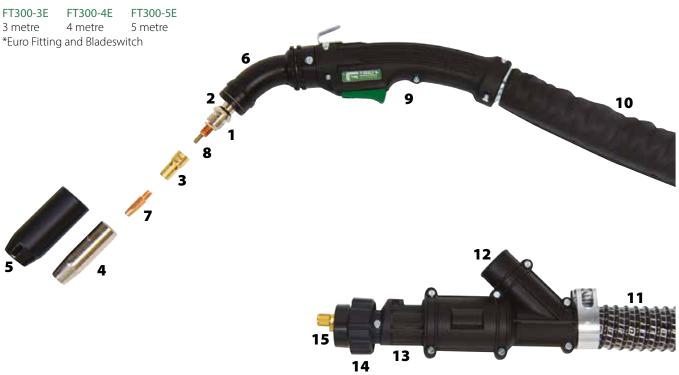


FUME TECH FUME EXTRACTION TORCH AIR COOLED

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MODEL: FT300 Rating 300A Co2 / 200A Mixed Gases @ 60% Duty Cycle EN60974-7 Wire Size 0.8mm to 1.2mm Extraction Rate 80M³H

Torch Packages



Main Consumables

	Code	Description	Pack Qty			
1	FT3001	Swan Neck	1			
2	FT3002	Neck Washer	10			
3	FT3003	Gas Diffuser M8	5			
4	FT3004	Conical Nozzle c/w Insulator	5			
	FT3006	Cylindrical Nozzle c/w Insulator	5			
5	FT3007	Extraction Nozzle Standard 82mm L	1			
	FT3028	Extraction Nozzle Short 76.5mm L	1			
6	FT3009	Neck Extraction Tube	1			
Co	Contact Tips (M8 x 33mm Hexagonal)					
7	FT3008	0.8mm Steel	25			
	FT3010	1.0mm Steel / 0.8mm Alu	25			
	FT3012	1.2mm Steel / 1.0mm Alu	25			
Li	Liners (Steel)					
8	FT3300S	0.8-1.2mm 3m Blue	1			
	FT3400S	0.8-1.2mm 4m Blue	1			
	FT3500S	0.8-1.2mm 5m Blue	1			

Liners (Aluminium)

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9	FT4300	0.8-1.0mm 3m Black	1
	FT4400	0.8-1.0mm 4m Black	1
	FT4500	0.8-1.0mm 5m Black	1
	FT4301	1.0-1.2mm 3m Blue	1
	FT4401	1.0-1.2mm 4m Blue	1
	FT4501	1.0-1.2mm 5m Blue	1
Se	condary	y Consumables	
	Code	Description	Pack Qty
10	FT3017	Torch Handle Kit*	1
11	FT3018	Cable Assy 3m	1
	FT3019	Cable Assy 4m	1
	FT3020	Cable Assy 5m	1
12	FT3021	Fume Extraction Hose 3m	1
	FT3022	Fume Extraction Hose 4m	1
	FT3023	Fume Extraction Hose 5m	1
13	FT3024	Fume Extraction Adaptor	1
14	FT3025	Gun Plug Housing	1
15	FT3026	Gun Plug Nut	1
16	FT3027	Gun Plug Body	1
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^{*}Torch Handle Kit comprises handle shells, screws, gun hanger & trigger

F-TECH MIG TORCHES

FUME EXTRACTION MIG TORCHES 300 - 500 AMP

FUME TECH FUME EXTRACTION TORCH AIR COOLED

MODEL: FT400 Rating 400A Co2 / 300A Mixed Gases @ 60% Duty Cycle EN60974-7 Wire Size 0.8mm to 1.6mm Extraction Rate 70M³H

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Torch Packages

FT400-3E FT400-4E FT400-5E 3 metre 4 metre 5 metre *Euro Fitting and Bladeswitch







Main Consumables

IV	aili Colis	ulliables	
	Code	Description	Pack Qty
1	FT4001	Swan Neck	1
2	FT4003	Gas Diffuser M8	5
3	FT4004	Conical Nozzle c/w Insulator	5
	FT4006	Cylindrical Nozzle	5
4	FT4007	Extraction Nozzle Standard 82mm L	1
	FT4028	Extraction Nozzle Short 70mm L	1
5	FT3009	Neck Extraction Tube	1
C	ontact Ti	ps (M8 x 33mm Hexagonal)	
6	FT3008	0.8mm Steel	25
	FT3010	1.0mm Steel / 0.8mm Alu	25
	FT3012	1.2mm Steel / 1.0mm Alu	25
	FT3014	1.4mm Steel / 1.2mm Alu	25
	FT3016	1.6mm Steel / 1.4mm Alu	25
Li	ners (Ste	el)	
7	FT3300	0.8-1.2mm 3m Blue	1
	FT3400	0.8-1.2mm 4m Blue	1
	FT3500	0.8-1.2mm 5m Blue	1
	FT3301	1.2-1.4mm 3m Grey	1
	FT3401	1.2-1.4mm 4m Grey	1
	FT3501	1.2-1.4mm 5m Grey	1
	FT3302	1.4-2.0mm 3m Red	1
	FT3402	1.4-2.0mm 4m Red	1
	FT3502	1.4-2.0mm 5m Red	1

Liners (Aluminium)

	ileis (Alu	illillialli)	
	Code	Description	Pack Qty
8	FT4300	0.8-1.0mm 3m Black	1
	FT4400	0.8-1.0mm 4m Black	1
	FT4500	0.8-1.0mm 5m Black	1
	FT4301	1.0-1.2mm 3m Blue	1
	FT4401	1.0-1.2mm 4m Blue	1
	FT4501	1.0-1.2mm 5m Blue	1
	FT4302	1.6mm 3m Red	1
	FT4402	1.6mm 4m Red	1
	FT4502	1.6mm 5m Red	1
S	econdary	Consumables	
9	FT3017	Torch Handle Kit*	1
10) FT4018	Cable Assy 3m	1
	FT4019	Cable Assy 4m	1
	FT4020	Cable Assy 5m	1
1	FT3021	Fume Extraction Hose 3m	1
	FT3022	Fume Extraction Hose 4m	1
	FT3023	Fume Extraction Hose 5m	1
12	2 FT3024	Fume Extraction Adaptor	1
13	3 FT3025	Gun Plug Housing	1
14	1 FT3026	Gun Plug Nut	1
15	5 FT4027	Gun Plug Body	1

^{*}Torch Handle Kit comprises handle shells, screws, gun hanger & trigger

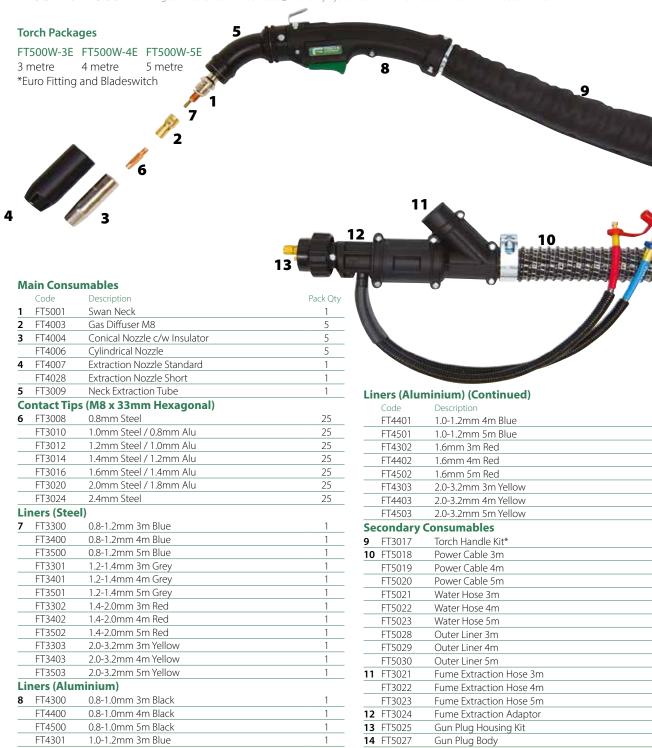


FUME TECH FUME EXTRACTION TORCH WATER COOLED

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Pack Qty

MODEL: FT500W Rating 500A Co2 / 400A Mixed Gases @ 80% Duty Cycle EN60974-7 Wire Size 0.8mm to 2.4mm Extraction Rate 70M³H



^{*}Torch Handle Kit comprises handle shells, screws, gun hanger & trigger



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