

FumeFree

The logo for FumeFree features the brand name in a bold, white, sans-serif typeface. A thin, black, wavy line is superimposed over the text, starting from the left, passing through the middle of the letters, and ending on the right. The line has a slight undulating pattern, resembling a smoke plume or a protective barrier.

Breathing Innovation





FumeFree FF100 System

EXTRACTION



FumeFree FF100

PORTABLE FUME EXTRACTION SYSTEM

BREATHE CLEAN AIR



SOURCE CAPTURE SYSTEM

EFFICIENTLY REMOVING WELDING FUMES AT THE ORIGIN TO MAINTAIN A SAFE ENVIRONMENT

The FF100 Portable Fume Extraction System is engineered with the most advanced and efficient fume extraction technology available in the welding industry. This unit is equipped specialised performance in capturing harmful welding fumes. By effectively capturing up to 95% of welding fumes directly at the source, the FF100 not only enhances workplace safety but also significantly reduces the exposure of operators to hazardous airborne particles. Its portable design and powerful extraction capabilities make it an indispensable tool for any welding environment, ensuring a cleaner and safer workspace.



FF100

FALCON GUN



THE SWAN NECK IS SECURED IN TWO PLACES



MADE FROM VERY STRONG DSM PLASTIC



LIGHT-WEIGHT



PATENTED



ROBUST



**CAPTURE UP TO 95% OF WELDING FUME
AT THE SOURCE**

**Variable
Flow Control**

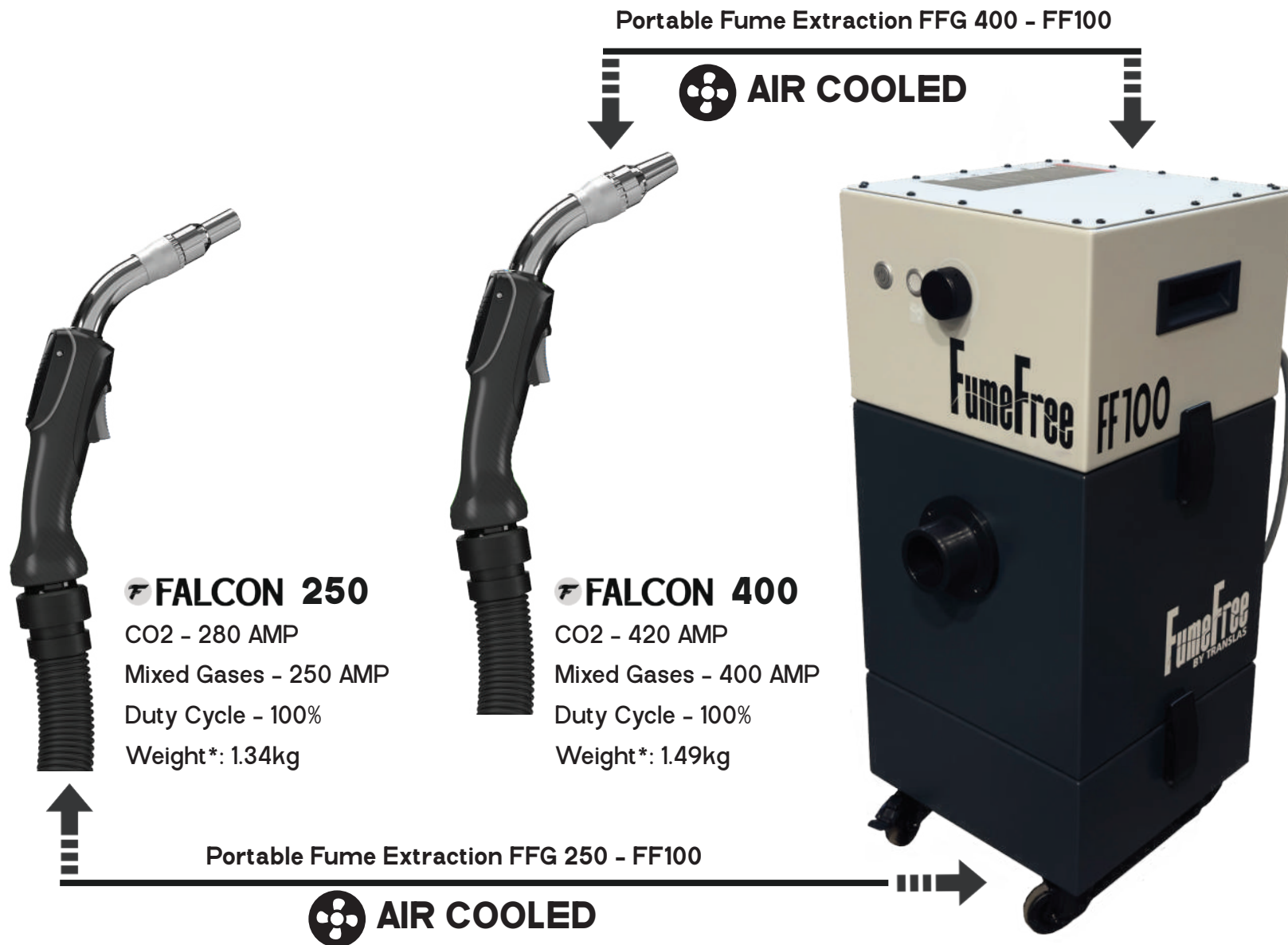


FALCON GUN

FumeFree FF100

PORTABLE FUME EXTRACTION SYSTEM

FF100



FALCON 250

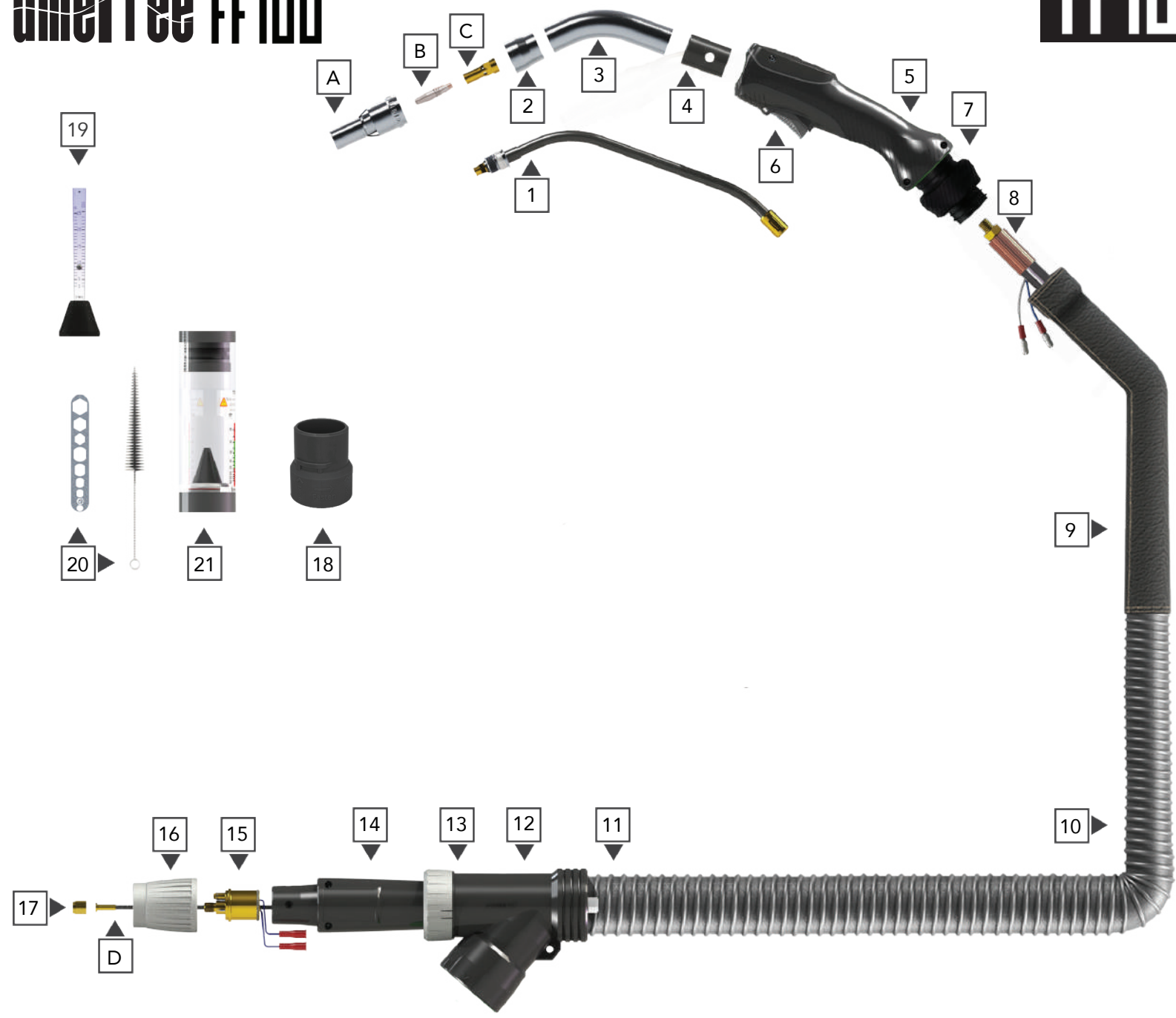
AIR COOLED



FumeFree FF100

CO2 - 280 AMP, MIXED GASES - 250 AMP, DUTY CYCLE - 100%

FF100



PART NO.	DESCRIPTION	PACK QTY
COMPLETE KITS		
111250	FumeFree - Falcon FF100 Portable Vacuum & 250amp Extraction Torch - (Euro)	1

PART NO.	DESCRIPTION	PACK QTY
VACUUMS		
201002	Falcon - FF100 2.5HP Compact Welding Portable Vacuum w/8' (2.5m) Hose (230volt) - (EU)	1

PART NO.	DESCRIPTION	PACK QTY
GUNS		
301252	Falcon 250 - Extractor Fume Gun - (250amp) - 12ft (4m) Air Cooled - 45° (EU)	1

ITEM	PART NO.	DESCRIPTION	PACK QTY
CONSUMABLES			
A	3937001	Falcon - Extractor Nozzle 14mm (250amp)	5
B	3990091	Falcon - Contact Tip M8x1.5 - .035" (0.9mm) CuCrZr	25
	3990121	Falcon - Contact Tip M8x1.5 - .045" (1.2mm) CuCrZr	25
C	39327110	Falcon - Tip Adapter M8x1.5 (250amp)	10
	303794	Falcon - Plastic coated EUR liner black 13ft (4m) - for .040 to .045 wire	1
	302545	Plastic coated EUR liner black 13ft (4m) - for .040 to .045 wire	1

ITEM	PART NO.	DESCRIPTION	PACK QTY
SPARE PARTS			
1	39301045	Falcon - Swan Neck 45° (250amp)	
	3950005	Falcon - PEEK ring to fix nozzle holder (not shown)	5
2	3950000	Falcon - Nozzle holder (250amp)	1
3	3950045	Falcon - Metal neck 45° (250amp)	1
4	3950500	Falcon - Adapter for 8XE Metal Neck (250amp)	1
5	391011	Falcon - Handle Black/G rey complete with trigger	1
6	3911979	Falcon - Trigger grey with spring	1
	391250	Falcon - Micro switch complete	1
7	391809	Falcon - Cable support set with ball-and-socket joint (250amp)	1
8	259264X8	Falcon - Cable assembly (250AMP) 13ft (4m)	1
9	260019	Falcon - Leather-sheathing with velcro 6ft (2m) (250amp)	1
10	340304	Falcon - Fume extraction hose MINI 13ft (4mtr)	1
11	4398031	Falcon - Hose connection (250amp)	1
12	398100	Falcon - Housing (Y-shape) for fume extraction hose	1
13	398015	Connection ring	1
14	398010	Housing set for central connector	1
15	305298E23	Central connector Euro	1
16	8M9420	Adaptor nut	2
17	305315	Liner positioner nut	10
18	398110	Hose adapter	1
19	406050	Gasflow meter	1
20	371208	Tool set (brush and multitool)	1
21	371350	Airflow meter MINI Extractor	1
-	320300	Ceramic dry film spray 400 ml (not shown)	12

FALCON 400

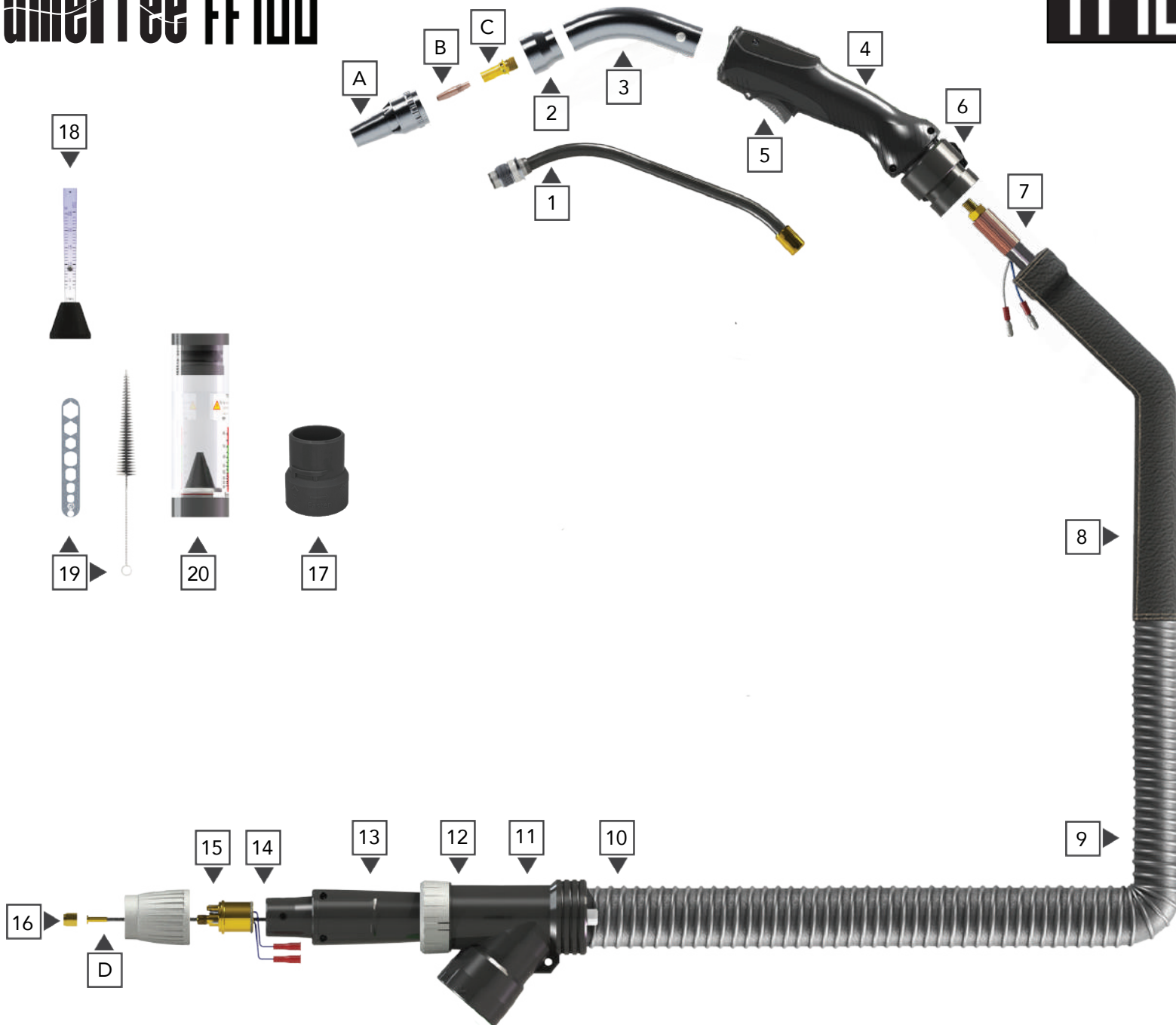
AIR COOLED



FumeFree FF100

CO2 - 420 AMP, MIXED GASES - 400 AMP, DUTY CYCLE - 100%

FF100



PART NO.	DESCRIPTION	PACK QTY
COMPLETE KITS		
111400	FumeFree - Falcon FF100 Portable Vacuum & 400amp Extraction Torch - (Euro)	1

PART NO.	DESCRIPTION	PACK QTY
VACUUMS		
201002	Falcon - FF100 2.5HP Compact Welding Portable Vacuum w/8' (2.5m) Hose (230volt) - (EU)	1

PART NO.	DESCRIPTION	PACK QTY
GUNS		
301402	Falcon 400 - Extractor Fume Gun - (400amp) - 12ft (4m) Air Cooled - 45° (EU)	1

ITEM	PART NO.	DESCRIPTION	PACK QTY
CONSUMABLES			
A	3937041	Falcon - Extractor Nozzle 14mm (400amp)	5
B	3990091	Falcon - Contact Tip M8x1.5 - .035" (0.9mm) CuCrZr	25
	3990121	Falcon - Contact Tip M8x1.5 - .045" (1.2mm) CuCrZr	25
C	39327310	Falcon - Tip Adapter M8x1.5 (400amp)	10
	303794	Falcon - Plastic coated EUR liner black 13ft (4m) - for .040 to .045 wire	1
	302545	Plastic coated EUR liner black 13ft (4m) - for .040 to .045 wire	1

ITEM	PART NO.	DESCRIPTION	PACK QTY
SPARE PARTS			
1	259464X8	Falcon - Swan Neck 45° (250amp)	
	3950205	Falcon - PEEK ring to fix nozzle holder (not Shown)	5
2	3950200	Falcon - Nozzle holder (400amp)	1
3	3950245	Falcon - Metal neck 45° (400amp)	1
4	391011	Falcon - Handle Black/G rey complete with trigger	1
5	3911979	Falcon - Trigger grey with spring	1
	391250	Falcon - Micro switch complete	1
6	3918010	Falcon - Cable support set with ball-and-socket joint (400amp)	1
7	259464X8	Falcon - Cable assembly13ft (4m)	1
8	260018	Falcon - Leather-sheathing with velcro 6ft (2m) (400amp)	1
9	3402042	Falcon - Fume extraction hose 13ft (4mtr)	1
10	4398030	Falcon - Hose connection (400amp)	1
11	398100	Falcon - Housing (Y-shape) for fume extraction hose	1
12	398015	Connection ring	1
13	398010	Housing set for central connector	1
14	3052988	Central connector Euro	1
15	8M9420	Adaptor nut	2
16	305315	Liner positioner nut	10
17	398110	Hose adapter	1
18	406050	Gasflow meter	1
19	371208	Tool set (brush and multitool)	1
20	371300	Airflow meter	1
-	320300	Ceramic dry film spray 400 ml (not shown)	12



CONTACT TIPS

Contact tips made for the Falcon FF250 & FF400 Extractors have a unique conical tip design. You can choose from:

- TriMetal CuCrZr Nickle plated Copper Tips for everyday welding.
- .035 (0.9mm) & .045 (1.2mm) Tips available



NOZZLE

The Nozzle is suit any kind of joint application while delivering the best welding results. The nozzles can be changed in a second.

FALCON REGULAR / MINI .55" (14mm-Special)

Where space is limited and fit is tight, this nozzle offers better access and more excellent shielding gas coverage to prevent porosity. This 14mm special nozzle is delivered as a standard on every Extractor.



LINERS

Choose the right liner for your wire diameter and type when working with an Falcon 250 & 400 Extractors:

Red: For 0.9m - 1.2m wire

Black: For 0.9m - 1.2m wire

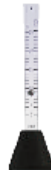
Both liners type are suitable for stainless steel applications.

MAINTENANCE



AIRFLOW METER

Always use the airflow meter to ensure maximum extraction effect.



GAS METER

The gas meter is used for best weld quality by keeping the right amount of shielding gas around the weld seam.



CERAMIC SPRAY

Extend the lifespan of your gun and its spare parts by applying ceramic spray to the Falcon 250 and Falcon 400 extractor prior to use.



FumeFree FF100

PORTABLE FUME EXTRACTION SYSTEM

FF100



Technical Data

Filter	
Filter stages	1
Filter method	Cleanable filter
Filter cleaning method	Manual
Filter surface	1.35 m ² / 14.5 sqft
Type of filter	Filter cartridge
Filter material	ePTFE membrane
Filter efficiency	> 99.9 %
Dust classification	M
Basic data	
Extraction capacity	260 m ³ /h
Maximum vacuum	18000 Pa
Fan performance	340 m ³ /h
Dimensions (w x t x h)	16" x 18.5 x 39.5
Weight	27.2kg
Motor power	1,7 kW / 2.2 HP
Power supply	1 x 110 V
Rated current	8,7 A
Noise level	74 dB(A)
Additional information	
Fan type	Suction turbine
Hose connection	Ø 1 x 1.77"
Dust collection tray	6 l

PART NO.	DESCRIPTION	PACK QTY
----------	-------------	----------

FumeFree F100

FF-B25-B01F0102	FumeFree FF100 - 2.5HP Compact Welding Portable Vacuum w/17' Hose	1
-----------------	---	---



FumeFree

Australia

Phone : +61 1 800 841 441

Email : au@fumefree.com

New Zealand

Phone : +64 800 689 929

Email : nz@fumefree.com

www.fumefree.com