



# PERFORMANCE AND VERSATILITY IN EVERY WELD

The F-Series electrofusion welding machines provide professionals with the speed, versatility, and reliability needed to weld leak-free networks.

**NEW**



A dedicated member of the **AVR** Group

**FUSAMATIC®**

# F90

**F-SERIES**

## PERFORMANCE-DRIVEN WELDING FOR EVERY CHALLENGE

The F90 is a high-performance, robust electrofusion welding machine designed to weld fittings for gas, water, and other pressure pipe applications up to 1000mm in diameter.

Ideal for complex infrastructure projects and utility connections, this advanced welding machine comes equipped with Fusamatic automatic fitting recognition, barcode scanning, and manual data entry as standard.



**FUSAMATIC®**

# F60

## COMPACT, RELIABLE, AND BUILT TO PUSH THE LIMITS

The F60 is a compact, lightweight electrofusion welding machine designed to weld fittings for gas, water, and other pressure pipe applications up to 200mm in diameter.

Perfect for day-to-day service and utility connections, this versatile welding machine comes equipped with Fusamatic automatic fitting recognition, barcode scanning, and manual data entry as standard.

**F-SERIES**



With over 50 years of experience in electrofusion technology, Fusion provides industry-leading solutions designed for reliability, safety, and long-term performance.

Our F90 and F60 electrofusion welding machines are the newest additions to Fusion's global product offering, designed to support joint integrity and leak-free networks across diverse applications. Built to the same high standards expected of all Fusamatic products, each machine upholds the quality that defines the Fusamatic brand.

#### Manufacturing excellence

Advanced manufacturing is at the heart of Fusion's F-Series, delivering quality and reliability with every component. Each machine is built to the highest standards, ensuring dependable performance in even the most demanding applications.

#### Joint integrity

Fusion's F-Series machines are designed to weld joints that last, delivering leak-free connections for robust, reliable networks that stand the test of time.

#### Innovative solutions

Discover the unique features that set the F-Series apart. Our machines combine advanced functionality and versatility, providing efficient solutions for a wide range of applications.

#### Service and technical support

Fusion is dedicated to providing end-to-end support, offering expert technical assistance, maintenance, and a global service network to keep your equipment operating at its best.

#### Building relationships

At Fusion, we prioritise long-term partnerships with our customers, working together for mutual success and shared growth within the industry.

#### Global product offering

Explore Fusion's complete range of products, engineered for quality joints and a leak-free network. From fittings to tools, Fusion delivers comprehensive solutions designed to meet your needs, wherever you are in the world.



# BUILT FOR PROFESSIONALS WHO DEMAND PERFORMANCE AND RELIABILITY



Manufactured to the highest standards, the F90 and F60 welding machines are rigorously tested to verify they meet CE, UKCA and ISO12176 specifications, setting a benchmark in quality and reliability.

F-Series machines are built to exacting manufacturing standards, designed with the user in mind. Rigorously tested in all weather conditions, these machines are engineered for consistent performance in demanding environments.

With a focus on reliability and durability, every machine meets industry specifications, reflecting the trusted quality of the Fusamatic brand.



Core features, protective options, and welding range to suit your project needs.

FEATURES	F90	F60
Welding range	20-1000 mm	20-200 mm
Mains input cable length	10 metres	3.5 metres
Fusion output cable length	4 metres	3.5 metres
Data capture	USB and Mobile App	USB and Mobile App
Multilingual support	10 languages	10 languages
Temperature compensation	Yes (Barcode)	Yes (Barcode)
Compliance	CE, UKCA, ISO 12176	CE, UKCA, ISO 12176
Protective options	<p><b>Field Cage</b> – A durable cage and removable powder coated stainless steel face plate that protects your equipment while keeping it accessible and mobile.</p> <p><b>Field Armour</b> – The ultimate hard case for robust protection, ready for rugged environments.</p>	<p><b>Field Pack</b> – Lightweight and versatile, designed for portability and quick deployment in the field.</p> <p><b>Field Armour</b> – The ultimate hard case for robust protection, ready for rugged environments.</p>



### F90 Heavy-duty protection with Field Cage or Field Armour

The Field Cage and Field Armour options include the F90 electrofusion machine, providing robust protection and durability for tough conditions while keeping everything safe and secure.

### F60 Lightweight, easy-to-carry 12kg Field Pack or Field Armour

The F60's protective Field Pack combines durability with a compact design, including the machine, cables, and bag, ensuring easy transport without sacrificing equipment protection.



F90 Field Cage with stainless steel face plate 23kg



F60 Field Pack 12kg



F90 Field Armour 30kg



F60 Field Armour 17kg

**THE F-SERIES ELECTROFUSION MACHINES ARE BUILT TO MEET DIVERSE OPERATIONAL DEMANDS**



**PREPARE. CONNECT. WELD.**

Weld parameters instantly

The F-Series features Fusamatic automatic recognition, streamlining the welding process and reducing the risk of manual data entry errors.

By attaching the fusion cables to the Fusamatic pin on the Fusamatic fitting, the machine instantly identifies the exact welding parameters needed. This saves valuable time and gives operator confidence that the correct parameters have been entered.



**FUSAMATIC PIN**

Automatically identifies the correct fusion time and weld parameters. All the operator has to do, is press go.



Equipped with rugged Field Armour and Field Cage options, the F90 is built to excel in demanding environments, while the F60, with its compact, lightweight design, is ideal for applications requiring portability.

**CONSISTENT WELDS IN ANY TEMPERATURE**

The built-in temperature compensation maintains accuracy, even as ambient temperatures fluctuate, delivering precise and reliable joints using barcode parameters for fittings that require them.

**MULTILINGUAL INTERFACE FOR GLOBAL USABILITY**

The F-Series is ready for international use with a multilingual interface, allowing operators worldwide to use it in their preferred language.

**EXTENDED CABLE REACH FOR GREATER FLEXIBILITY**

Designed with cable lengths to access hard-to-reach joints, the F-Series optimises on-site workflow and enhances flexibility across applications.

**MEETS THE HIGHEST INTERNATIONAL STANDARDS**

With compliance across multiple standards, the F-Series stands out as a leader in electrofusion quality, reliability, and safety, providing you with peace of mind on every project.

**SMART COMPATIBILITY WITH FUSAMATIC FITTINGS**

Integrated Fusamatic automatic fitting recognition enables a seamless setup for every weld, providing perfect results and ease of use with each connection.

**VERSATILE WELDING RANGE FROM 20-1000mm**

With the flexibility to weld pipes from 20mm to 1000mm, the F-Series handles diverse project needs, allowing you to tackle both small and large-scale installations.

**NON-STOP WELDING POWER FOR DEMANDING JOBS**

Designed for continuous performance, the F-Series supports efficient, uninterrupted welding, reducing time spent on site.

**GLOBAL SUPPORT WHEN AND WHERE YOU NEED IT**

Fusion's network of global repair and service centres provides localised support, so you can depend on expert assistance wherever your projects take you.

**PERFECT FOR WELDING SMALLER CONNECTIONS**

Perfectly suited for pipes up to 200mm, the F60 provides reliable welding performance, improving mobility and efficiency in your workflow.

**BARCODE SCANNER FOR TRACEABILITY**

The F-Series machines come equipped with a CCD barcode scanner as standard, enabling operators to scan fitting barcodes for seamless traceability and precise weld documentation. Additionally, the ISO 12176 traceability barcode can be scanned, further enhancing on-site traceability when using the Fusamatic automatic system.



# COMMITMENT THAT LASTS BEYOND THE PURCHASE

Extensive spare parts availability and local repair and service through a vast network of strategically located facilities around the world.

Fusion is dedicated to supporting customers well beyond the initial purchase. Our global network of service and repair centres is staffed by trained technicians who keep every machine operating at peak performance. From routine maintenance to component replacement, our team provides expert support at every stage.

Our knowledgeable sales team is also available to provide specialist technical assistance and guide customers in selecting the right equipment for their project needs.



# SOLUTIONS, NOT JUST PRODUCTS – WE’RE COMMITTED TO BUILDING A LONG-TERM PARTNERSHIP FOR SHARED SUCCESS

*At Fusion, we believe in building long-term partnerships that drive mutual growth.*

*Our commitment goes beyond providing industry-leading products; we’re here to work collaboratively with our customers, ensuring they have the resources, expertise, and support needed to succeed.*

CAROLINA MARINO – GROUP PRODUCT MANAGER



## HOW OUR SALES TEAM DELIVERS VALUE WITH THE F-SERIES



### Consistent welding with Fusamatic

*The Fusamatic automatic recognition feature has transformed our workflow. Fusion’s sales team provided clear guidance on using this time-saving feature, ensuring we weld with confidence and accuracy every time.*



### Built to perform anywhere

*The F-Series machines are built to handle tough conditions. Fusion’s sales team helped us choose the perfect configuration, including the rugged Field Armour case, to meet the demands of our challenging installation sites.*



### Improving performance with expert training

*Fusion’s on-site and off-site training has been invaluable. Their expert guidance ensures our team uses the F-Series machines confidently and effectively, maximising performance and reliability in every weld.*



## MEET OUR SALES TEAM READY TO SUPPORT YOUR NEEDS



*We’re here to make things easy for you. Whether you need advice, support, or the right solution for your project, you can count on us to help every step of the way.*



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# EXPLORE THE F-SERIES TECHNICAL DETAILS



## F90 | F60

### SUPPLY

FUSAMATIC F90 / F60			
	F90 / F60		
	Minimum	Typical	Maximum
Input Voltage (230v)	195v	230v	270v
Input Frequency	37Hz	50Hz	62Hz
Input power rating	230 VA to 3600 VA		

### OUTPUT

FUSAMATIC F90			
	F90		
	Minimum	Typical	Maximum
Output 40v Fusamatic/Automatic Fitting	39.5v Fixed		
Output Voltage Barcode and Manual	8v	-	48v
Output Current	1A	-	90A
60% Duty Cycle output ISO12176-2	60A		
Peak Current <60seconds	90A		

FUSAMATIC F60			
	F60		
	Minimum	Typical	Maximum
Output 40v Fusamatic/Automatic Fitting	39.5v Fixed		
Output Voltage Barcode and Manual	8v	-	48v
Output Current	1A	-	60A
60% Duty Cycle output ISO12176-2	30A		
Peak Current <60seconds	60A		

### OPERATING MODES

FUSAMATIC F90 / F60		
	F90	F60
Fusamatic	Max 900 seconds	Max 600 seconds
Manual	3-4000 seconds	3-600 seconds
Barcode	3-4000 seconds	3-600 seconds

### MEMORY AND DATA OUTPUT

FUSAMATIC F90 / F60		
	F90	F60
Internal memory capacity	Up to 2,000 records	Up to 2,000 records
Welding report outputs	USB and Mobile App	USB and Mobile App

### ENVIRONMENT

FUSAMATIC F90 / F60				
	F90		F60	
	Minimum	Maximum	Minimum	Maximum
Operating temperature	-20°C	+50°C	-20°C	+50°C
Storage temperature	-20°C	+50°C	-20°C	+50°C
Environmental Protection	IP54			

### CABLE LENGTH

FUSAMATIC F90 / F60		
	F90	F60
Input cable	10m	3.5m
Output cable	4m	3.5m

### WEIGHTS

FUSAMATIC F90 / F60		
	F90	F60
Field Pack	-	12kg
Field Cage	23kg	-
Field Armour	30kg	17kg

### DIMENSIONS

FUSAMATIC F90 / F60				
	F90	F90	F60	F60
	Field Cage	Field Armour	Field Pack	Field Armour
Length mm	330	560	215	570
Width mm	330	440	385	340
Height mm	320	310	275	340

### STANDARDS

FUSAMATIC F90/F60 / ISO CLASSIFICATION		
	F90	F60
ISO12176-2 Electrofusion	YES	YES
ISO12176-2 Classification	P22US3FVKADX	P22US2FVKADX
ISO12176-3 Operator Badge	YES	YES
ISO12176-4 Traceability Coding	YES	YES

# STREAMLINE OPERATIONS WITH FUSAMATIC AUTOMATIC RECOGNITION PLACE YOUR ORDER TODAY



1281/00-012



## FUSAMATIC F90 230V ELECTROFUSION WELDING MACHINE

### FUSAMATIC F90 / 230V ELECTROFUSION WELDING MACHINE

F90 ORDER CODE	Barcode Scanner	2 Pin Plug	3 Pin Plug	3 Pin Plug Australian	Region	Welding range mm	L mm	W mm	H mm	Barcode scanner included	Theoretical weight/kg
F90220V-ENG3P-BCF	●		●		UK	20-1000	330	330	320	Yes	23
F90220V-EUR2P-BCF	●	●			EUROPE	20-1000	330	330	320	Yes	23
F90220V-AUS3P-BCF	●			●	AUSTRALIA	20-1000	330	330	320	Yes	23

F90 - 230V Automatic electrofusion welding machine comes with a Field Cage, CCD scanner and 4.0mm/4.7mm lead end adaptors as standard.



Replace the 'F' with a 'H' at the end of the order code for the Field Armour option.



1281/00-010



## FUSAMATIC F60 230V ELECTROFUSION WELDING MACHINE

### FUSAMATIC F60 / 230V ELECTROFUSION WELDING MACHINE

F60 ORDER CODE	Barcode Scanner	2 Pin Plug	3 Pin Plug	3 Pin Plug Australian	Region	Welding range mm	L mm	W mm	H mm	Barcode scanner included	Theoretical weight/kg
F60220V-ENG3P-BC	●		●		UK	20-200	215	385	275	Yes	12
F60220V-EUR2P-BC	●	●			EUROPE	20-200	215	385	275	Yes	12
F60220V-AUS3P-BC	●			●	AUSTRALIA	20-200	215	385	275	Yes	12

F60 - 230V Automatic electrofusion welding machine comes with a Field Pack, CCD scanner and 4.0mm/4.7mm lead end adaptors as standard.



Include an 'H' at the end of the order code for the Field Armour option.

# RELATED PRODUCTS

Fusion's comprehensive product portfolio supports every step of the electrofusion process, from high-quality fittings to essential tooling. Download our global product offer from our website to explore the full range and discover how Fusion can provide a complete solution for your polyethylene pipeline installation needs.

## MULTI SCRAPE KIT

The Multi Scrape kit is a versatile pipe scraper which is portable, strong and durable. Designed specifically with coiled pipe in mind, the tool delivers consistent results over traditional hand scraping.

MULTI SCRAPE KIT	
Reference code	Description
MULTISCRAPEKIT	Tool including complete set of solid mandrels and spare blade in case
MULTISCRAPE	Tool only

MULTI SCRAPE KIT			
Diameter range mm	SDR range	Case dimensions mm	Weight - Kg Complete kit
20/25/32/40/50/55/63	11-17	275x225x90	2.5

## UNIPREP SCRAPER

Uniprep scrapers are high productivity tools, used for preparing pipe ends prior to electrofusion.

UNIPREP SCRAPER					
Reference code	Description	Scrape length mm	Theoretical weight/kg	Spare blade code	
UNIPREP250	Uniprep scraper 63-250mm	130	3	UNIPREP22	
UNIPREP400	Uniprep scraper 90-400mm	150	3.5	UNIPREP22	
UNIPREP500	Uniprep scraper 125-500mm	180	4	UNIPREP22	
UNIPREP710	Uniprep scraper 450-710mm	345	5	UNIPREP22	

## MULTI CLAMP

The Multi Clamp kit has been specifically designed for easier alignment and restraint of a whole range of electrofusion fittings and suits narrow trenching techniques.

MULTI CLAMP KIT / UNIVERSAL	
Reference code	Theoretical weight/kg
MCKIT180	13.5
CONTENTS	
1 x Plastic container	
2 x Basic 180mm rings + slide blocks	
4 x 180mm x 125mm liner segments	
4 x 125mm x 90mm liner segments	
4 x 125mm x 63mm liner segments	
2 x 460mm bases	
1 x Allen key	
1 x Spanner	
1 x T-connector	

MULTI CLAMP KIT / BASIC	
Reference code	Theoretical weight/kg
MCKIT180B	9.5
CONTENTS	
1 x Carrying bag	
2 x Basic 180mm rings + slide blocks	
4 x 180 x 125mm liner segments	
4 x 125 x 90mm liner segments	
4 x 125 x 63mm liner segments	
1 x 600mm base	
1 x Allen key	

Suitable for pipe sizes: 20-63mm  
**ESSENTIAL TOOL**



Suitable for pipe sizes: 63-250mm, 90-400mm, 125-500mm and 450-710mm  
**ESSENTIAL TOOL**



Suitable for pipe sizes: 63-180mm  
**BEST SELLER**



# ASSOCIATED PRODUCTS

Discover our full range of fittings and equipment, designed to complement our Fusamatic solutions.

For more details, download our Global Product Offer from our website today.



**DOWNLOAD NOW**

## COUPLER

Ø 20-280mm  
FUSAMATIC PIN 4.0mm



## 90° ELBOW

Ø 20-250mm  
FUSAMATIC PIN 4.0mm



## 45° ELBOW

Ø 32-250mm  
FUSAMATIC PIN 4.0mm



## EQUAL TEE

Ø 20-250mm  
FUSAMATIC PIN 4.0mm



## REDUCING TEE

Ø 32-125mm OUTLET  
Ø 20-180mm BODY  
FUSAMATIC PIN 4.0mm



## BRANCH SADDLE

Ø 40/50/63mm OUTLET  
Ø 63-225mm BODY  
UNDER CLAMP  
FUSAMATIC PIN 4.0mm



## MULTI SEAL TAPPING TEE

Ø 63mm OUTLET  
Ø 250-450mm BODY  
TOP LOADING  
FUSAMATIC PIN 4.0mm



## MULTI SEAL TAPPING TEE

Ø 40/50/63mm OUTLET  
Ø 63-225mm BODY  
UNDER CLAMP  
FUSAMATIC PIN 4.0mm



## FLEX TEE TAPPING TEE

Ø 20/25/32mm OUTLET  
Ø 40-180mm BODY  
UNDER STRAP  
FUSAMATIC PIN 4.0mm



## TAPPING VALVE SADDLE

Ø 63mm OUTLET  
Ø 63-225mm BODY  
UNDER CLAMP  
FUSAMATIC PIN 4.0mm



# GLOBAL LEADERSHIP AND LOCAL COMMITMENT

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