



FUSION F-SERIES ELECTROFUSION MACHINE

1281/00-012

Fusamatic F90 230V Electrofusion Welding Machine

The F90 is a high performance and robust electrofusion welding machine, capable of welding electrofusion fittings for gas, water, and other pressure pipe applications up to 1000mm in diameter. This welding unit is especially suited for complex infrastructure projects and utility connections.

F-Series electrofusion welding machines utilise high performance components, with toroidal technology for efficient and effective control over the welding cycle. This provides a stable and continuous welding performance in the most challenging conditions. Providing professionals with the speed, versatility, and reliability needed to weld leak-free networks.

Product description:

F90 230V electrofusion welding machine. Capable of welding electrofusion fittings for gas, water and other pressure pipe applications from 20-1000mm in diameter. Uses Fusamatic, barcode and manual entry for the input of Fusion data. Operating temperature -20°C/+50°C.

Standards:

Fusion have numerous local and international product approvals as well as ISO 9001 and ISO 29001 quality management system approvals.

This product has been manufactured in accordance with the following directives and latest revisions:

- 73/23/EEC Low voltage - Electrical Equipment (Safety) Regulations.
- 2002/95/EC Restriction of the use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations.
- 2002/96/EC Waste Electrical and Electronic Equipment (WEEE) Directive.

This product has been manufactured in accordance with the following standards and latest revisions:

- ISO 12176-2 Equipment for fusion jointing polyethylene systems. Part 2: Electrofusion.
- BS 7540-1, 2 and 3, BS 7671, BS 7919, BS EN 1555-3.
- BS EN 60068-2, BS EN 60204-1, BS EN 60309-2.
- BS EN 60529, BS EN 60947-1, BS EN 61558-1.
- BS EN 61558-2 and 23, BS EN 62262.

Note: Regional variations may apply to some of the standards referenced, please contact us for further details.

Features:

- Fusamatic fitting size range 20-1000mm diameter (always check with the fitting manufacturer on the power and welding time required).
- Fusamatic, barcode and manual entry for input of Fusion data.
- Welding times between 3-4000 seconds (Fusamatic max 900 seconds).
- 23kg including Field Cage metal frame, stainless steel face plate and cables (30kg in optional Field Armour carry case).
- 4.0mm diameter welding leads as standard.
- Mains input cable length - 10m. Fusion output cable length - 4m.
- Multi-lingual selectable display - 10 languages available.
- Joint data memory of 2,000 weld records - downloadable to USB memory stick.
- Output current/duty cycle limits - 60 Amps continuous/90 Amps max.
- Output voltage - 8 - 48 Volts (Fusamatic/automatic mode is fixed 39.5 ac rms).
- Input voltage and frequency - 230V ac (195 to 270V) 50Hz (37 to 62Hz).
- Input power min and max - 230 VA to 3680 VA (apparent) 230V variant.
- Environmental protection IP54 / Class II.
- Scanner Type - CCD scanner.



The designs, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product range.

Reference nos. and dimensions:

Ref. No.	Fitting Size mm	L mm	W mm	H3 mm	Theoretical weight / kg
F90220V-ENG3P-BCF (3)	20-1000	330	330	320	23
F90220V-EUR2P-BCF (5)	20-1000	330	330	320	23
F90220V-AUS3P-BCF (1)	20-1000	330	330	320	23
F90220V-ENG3P-BCH (4)	20-1000	560	440	310	30
F90220V-EUR2P-BCH (6)	20-1000	560	440	310	30
F90220V-AUS3P-BCH (2)	20-1000	560	440	310	30

(1) 3 Pin Australian Plug - 230V 15A, Field Cage and Stainless Steel Face Plate Included
(2) 3 Pin Australian Plug - 230V 15A. Field Armour Carry Case Included
(3) 3 Pin UK Plug - BS4343 230V 16A - 230V 15A, Field Cage and Stainless Steel Face Plate Included
(4) 3 Pin UK Plug - BS4343 230V 16A. Field Armour Carry Case Included
(5) 2 Pin European Plug - Type F 230V 16A, Field Cage and Stainless Steel Face Plate Included
(6) 2 Pin European Plug - Type F 230V 16A. Field Armour Carry Case Included

Comments:

Check that both pipe(s) and fitting to be joined are compatible, only compatible materials should be joined together. Check PN and SDR rating marked on fitting and compare with that of the pipe. If in doubt, seek advice from the manufacturer. Only use undamaged equipment that has been properly maintained and calibrated, a full operating manual is available upon request and also supplied with the electrofusion welding machine, this should be referred to at all times, alongside any national regulations and applicable laws.

Correct installation procedures should be followed (please refer to 'The Good Guide to Electrofusion Jointing' available to download at www.fusiongroup.com).