

# One for all

## Electrofusion Unit MSA 2 MULTI



# The solution for our low voltage fittings

The MSA 2 MULTI automatic electro-fusion unit combines light weight, high efficiency and flexibility. It welds all our ELGEF Plus, AQUASYSTEM, Fuseal, SeaDrain, Fuseal 2550, SeaDrain PLUS, PPro-Seal, and INSTAFLEX (d125, d160, d225) fittings in a safe and reliable way.

## + Strong in details

Comfortable, anti-shock plastic handle with hooks to quickly wrap the cables

Intuitive graphical display

Sticker for material selection always in front of the user

Fast USB port for software updates and protocols export

Long lasting and easy-to-operate keypad, ISO12176-2 compliant

Sturdy aluminum die-cast housing to protect the unit against dust, splash and spray water

Plastic feet to keep the electronic core out of mud and dust

Self-protected from accidental damage during the fusion process, thanks to sensors for controlling the internal heating

Active cooling, with radial air flow solution to keep the unit safer



# Specifications

Engineering at its best: ideally balanced in weight, ergonomic and sturdy thanks to its mechanical design. Cables wound on separate sides of the machine to be quickly wrapped when moving from joint to joint. Compact housing to facilitate the usage in cramped spaces.



Technical specifications		MSA 2 MULTI	
<b>Operating conditions</b>		<b>Operating procedures check</b>	
Working temperature range	min. -20 °C, max. +50 °C (min -4 °F, max. +122 °F)	Automatic temperature compensation	✓
		Fusion current monitoring (short/interrupt)	✓
<b>Electrical data</b>		<b>Data management</b>	
Input voltage (Vac)	190 – 265	Barcode scanner	✓
Frequency (Hz)	50 - 60	Manual fusion input	✓
Current consumption (Max, A)	16 A	Operator badge (ISO 12176-3)	✓
Output voltage (V ac)	3.6 - 40	Documentation of fusion	PDF, BIN
Output current (max, A)	90	Mini Welding book	✓
Input power (KW)	3.5	WeldinOne software	Optional
Type of protection	IP65		
Protection class	I		
Unit fuse	20A slow blow		
<b>Data and operation control</b>		<b>Operations control</b>	
Data recording capacity (N. of protocols)	500	Display brightness configurable	✓
Communication port	USB Type A	Acoustic alert	✓
Buttons	5+Start+Stop	Remote START/STOP	✓
Display	graphical LCD	Software upload via USB memory stick	✓
<b>Mechanical data</b>		<b>Usability</b>	
Dimensions	280x480x220 mm (11x18.9x8.6 inches)	PE/PP/PVDF/PB INSTAFLEX	✓
Weight	11.9 Kg (26 lbs)	Configurable workflow	✓
Case material	Aluminium	Recognition of problems	✓
Mains cable length	4 m (13 feet)	Clear messages to the operator	✓
Fusion cable length	3 m (10 feet)	User guidance	✓
Mains plug	Schuko 16A	Scraped /cleaned pipes reminder	✓
Connectors	4 mm	Indication of energy, fusion and cooling time	✓
Adapters (90°)	4.0 – 4.0 mm	Separated cable winding support	✓
SeaDrain fitting adapters	Optional		
Sea Drain barcode set	Optional		
<b>Norms compliance</b>		<b>Versions</b>	
EMC (EN61000)	✓	MSA 2 Multi Standard	790156021
Safety (EN60335)	✓	MSA 2 Multi Marine	790156022
ISO12176-2/3	✓		

# MSA 2 MULTI makes your job easy: time and again

All is meant to simplify the job: the barcode scanner, for long distance reading, the cooling system to joint in series, the icons look and feel, to keep the interaction between user and machine very intuitive. The installer has just to select the material, connect the leads to the fitting, scan the fusion parameters, or select manually the fitting type, and leave the control to the machine.

## + Intuitive and complete



### Intuitive

The unit is intuitive thanks to its User Interface based on icons and international signs. The large graphical display provides an excellent visibility from far: the relevant information are in big chars and the selection of plastic material is always shown to the operator to minimize mistakes.



### Comfortable

The superior barcode reader, with green spot confirmation and acoustic tones, improves further the communication with the operator, who can additionally use the START/STOP badge to remotely command the unit, without moving forth and back.



### Fusion data recording and viewing

The machine records fusion data automatically to an internal memory. Fusion data can be browsed by just pressing MENU and the arrow buttons, or easily copied on a standard USB memory stick. The recorded data can be included in a digital archive on PC. There the user can prepare extended PDF files, in different languages, including protocols belonging to many electro-fusion units and pictures taken during the pipe preparation process.

## Your contact

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