

# Designed to make your job easier

Electrofusion Units  
MSA 2.0 and MSA 2.1



# Your challenges are our drive

Customers are asking for high efficiency, low cost of ownership, low weight and ease of use. These requirements have driven our engineering team in designing the new MSA 2 family. The MSA 2.0 and MSA 2.1 electrofusion units are the results of our effort.

## + Strong in details

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

Functional graphical display

Emergency switch, to interrupt the on-going process in case of problems (MSA 2.1)

Fast USB port for software updates and protocols export (MSA 2.1)

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

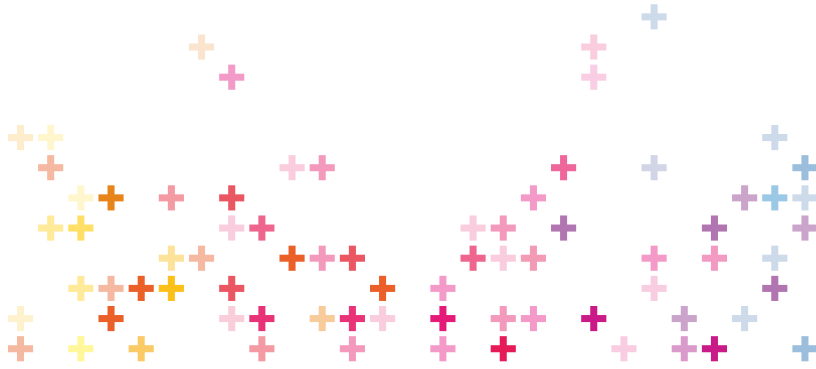
Self-protected from accidental damage during the fusion process, thanks to sensors for controlling the internal heating

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



# Specifications

Engineering at its best: High-quality components and materials combined with effective work flow



Technical specifications	MSA 2.0	MSA 2.1
<b>Operating conditions</b>		
Working temperature range	min. -20 °C, max. +50 °C	min. -20 °C, max. +50 °C
<b>Electrical data</b>		
Input voltage range (Vac)	190 – 265	190 – 265
Frequency range (Hz)	50 – 60	50 – 60
Current consumption (Max, A)	16 A	16 A
Output voltage (V ac)	8 – 42 (48)	8 – 42 (48)
Output current (max, A)	90	90
Input power (KW)	3.5	3.5
Type of protection	IP65	IP65
Protection class	I	I
Unit fuse	20A slow blow	20A slow blow
<b>Data and operation control</b>		
Data recording capacity (Number of protocols)	350	1000
Communication port	USB Type A	USB Type A
Buttons	5+Start+Stop	5+Start+Stop
Display	graphical LCD	graphical LCD
<b>Mechanical data</b>		
Dimensions (mm)	280x480x220	280x480x220
Weight (Kg)	11.9	11.9
Case material	Aluminium	Aluminium
Mains cable length	4 m	4 m
Fusion cable length	3 m	4 m
Mains plug	Schuko 16A	Schuko 16A
Connectors	4 mm	4 mm
Adapters (90°)	4.0 – 4.0 mm	4.0 – 4.0 mm/4.0 – 4.7 mm
<b>Norms compliance</b>		
EMC (EN61000)	✓	✓
Safety (EN60335)	✓	✓
ISO12176-2	✓	✓

# Our electrofusion units track your success

An automatic record of the fusion data ensures traceability and long term quality of the MSA 2.0 and 2.1 weldings.

## + Memory and universal communication



### Fusion data recording

Both machines records fusion data automatically to an internal memory. Fusion data can be browsed by just pressing MENU and the arrow buttons. Data sets are in compliance with ISO 12176-2, using the same symbols of ISO 13950 (Automatic recognition systems for electrofusion joints).



### Data printout

The MSA 2.1 allows data to be easily copied on a standard USB memory stick. Files can be read with any personal computer, Windows or OS X based and exported in a simple PDF format.



### Compatible with MSA App Suite

MSA 2.1 data can be included in a digital archive based on a mini-MSA Welding Book. There the user can prepare extended PDF files, in different languages, including protocols belonging to many electrofusion units. Furthermore, fusion data captured by the MSA 2.1 can be combined with pictures taken during the pipe preparation process, using the functionalities of the MSA Welding Book.

## Your contact

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