

# BEAT RANGE

Universal electrofusion PE units





## INFORMATION

### > Models and specifications

The range of **BEAT** electrofusion units comprises the following models:

#### **BEAT-MV:**

This is a **manual** unit in which the operator has to enter the fusion data (VOLTAGE and TIME) provided by the fitting accessory manufacturer.



#### **BEAT-2:**

This includes the option for the automatic entry of the fitting electrofusion data using the barcode system through the reading taken by the optic pen (standard) or scanner (optional).



#### **BEAT-Tr:**

This is the top of the **BEAT** range model. It includes the features of the above models plus the option for **traceability**, i.e. maintaining the identification of the operator, job, components, fusion records and complementary data in the internal memory, as well as the option for exporting the said data to a PC and printer. This specification is required on markets as demanding as the gas market.

As with the rest of the range, it is very easy to use, heavy duty, small, lightweight and, therefore, easily transported. Despite its small size, its performance level is very high.





## INFORMATION

### > Applications

<b>Pipes:</b>	On PE pipes, it allows the jointing of all kinds of polyethylene fittings by electrofusion.
<b>Range of application:</b>	Voltages between 8 and 48 V with no limitations to diameters and with electrofusion pins of 4 and 4.7 mm.
<b>Working pressures:</b>	As determined by the fittings.



## TECHNICAL SPECIFICATIONS

	BEAT-MV	BEAT-2	BEAT-Tr
Classification according ISO 12176-2	P <sub>2</sub> 4US,VKX	P <sub>2</sub> 4US,VKAX	P <sub>2</sub> 4US,VKADX
Languages	Multilingual (consult available languages)		
Date/Time	Manual		
Operator	-	-	Manual + barcode according to ISO 12176-3
Job	-	-	Manual + barcode according to ISO 12176-4
Auxiliary data	-	-	Manual + Barcode
Traceability	-	-	Manual + barcode according to ISO 12176-4
Mains voltage	195 Vac a 265 Vac. Nominal voltage: 230 Vac		
Mains frequency	45 Hz a 65 Hz. Nominal frequency: 50 Hz		
Electrofusion voltage	8 a 48 Vac with galvanic isolation		
Power consumption	3500 W maximum		
Recommended generator	Power: 4,5 kVA single phase; electronic regulation		
Protection fuse	Exterior from 20 A a 230 Vac		
Protection type	Double isolation IP54 / AR series: Double isolation IP43		
Duty factor	20 to 100% (according to fitting diameter); Serie AR: 40 a 100% Electronic unit temperature control		
Temperature of use	Information, with no limits (recommended according to ISO 12176-2 de -10 a 40°C)		
Display	LCD, 2 lines x 20 characters, backlit		
Buzzer	Piezoelectric buzzer		
Manual input of fusion data	Voltage: Multi voltage / Time: Up to 5.940 seconds (99 minutes)		
Automatic input of fusion data	-	Barcode according to ISO/TR 13950	
Internal memory capacity	-	-	~ 1000 fusions
Front, keyboard and frame	Distinctive green front with tactile sensation membrane pushbuttons, tubular frame angled at 20°		
Other specifications	Smooth start-up and warning in case of voltage failure on start-up		
Mains cable	3 x 2,5 mm <sup>2</sup> (Schuko plug) 4 m length		
Electrofusion cables	1x10 mm <sup>2</sup> with a length of 4 m (4 mm diameter terminals)		
Optic pen /scanner	Unintelligent infrareds. Optional laser scanner		
Connection for optic pen, scanner, PC and serial printer	-	Combined TTL	TTL / special RS-232 combined
Accessories	Rear bag for electrofusion adapters of 4 and 4,7 mm		
	-	Optic pen / scanner	
Optional	-	-	ODS transmission cable (PC and printer connection) / Serial printer
Dimensions and weight	Height: 425 mm; width: 370 mm; depth: 230 mm / Net weight: 23 kg		

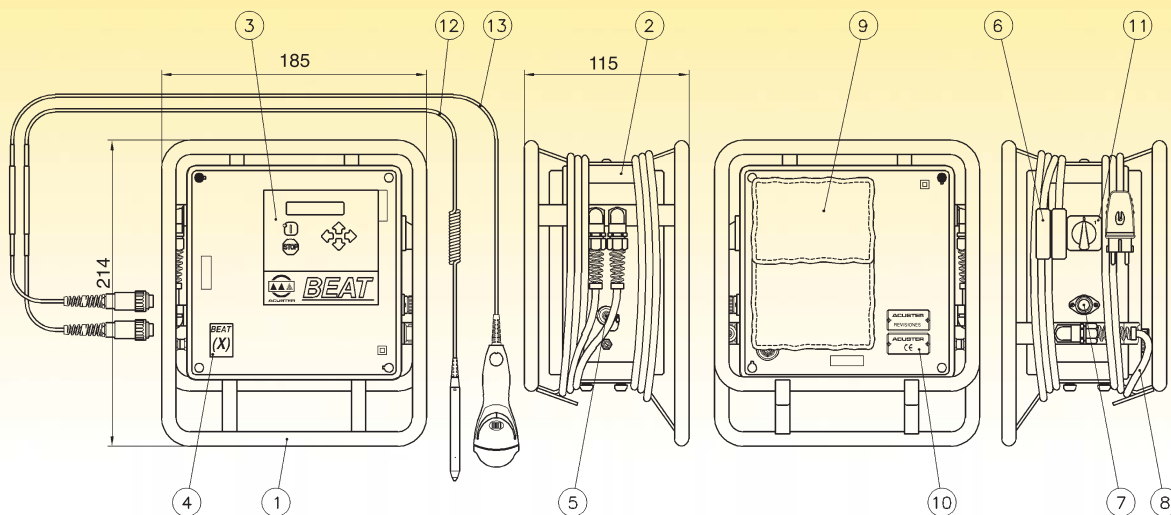


## ASSEMBLY

The steps for a correct fusion process and the unit specifications can be found in the MU-78-06E User Manual for the BEAT-MV and BEAT-2 units or MU-78-07E for the BEAT-TR unit, supplied with the said units.



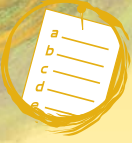
## DIMENSIONS



Item	Description
1	The tubular frame
2	Beat module without keyboard
3	Front Beat panel (4 arrows)
4	Beat sticker(model)
5	Serial connector
6	Complete electrofusion cable
7	Fuse-holder
8	Multipolar cable L=4 m.
9	Document bag
	4,7 mm electrofusion adapter (2 pieces)
	4 mm electrofusion adapter (2 pieces)
10	"CE" plates and revisions
11	Switch
12	Optic pen (optional for Beat-2 y Beat Tr models)
13	Scanner (optional for Beat-2 and Beat Tr models)

BEAT  
2

BEAT  
Tr



## PARTS

Owing to its high performance features and to ensure the correct use and long service life for the machinery, we recommend the use of the HONDA EM4500CX generator.



## SPARES

- > 4 mm and 4.7 mm electrofusion adapters.
- > Infrared optic pen (Beat 2 and Beat Tr).
- > Laser scanner (Beat 2 and Beat Tr).
- > Serie's cable RS 232 (Beat Tr), not included.

The units in the Beat range are fitted with all the elements for electrofusing any fitting on the market. Consequently, the 4 mm and 4.7 mm connection adapters are supplied with the unit.



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## MAINTENANCE

As the manufacturer of the BEAT units, the Acuster Group has an after sales department and offers all our clients our facilities, tooling and skilled staff for:

- > Maintenance work, overhauls and repairs as necessary for the correct operation of their equipment for many years, ensuring a lengthy service life.
- > The supply of spares.
- > Equipment hire service.
- > Technical consultancy service and training and recycling courses for welders.



### • RELATED DATASHEETS •

**PMH** Machinery and tools programme :

**TWIN AND LOGIC-S ELECTROFUSION UNITS  
TOOLS FOR PE  
PE CUTTING TOOLS** (Pipe cutter)

FC-78-PMH-04E  
FC-71-PMH-08E  
FC-71-PMH-10E

The information provided in this publication is subject to change without notice.



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