

Easigrip® couplers

Compatible equipment recommendations

Radius Systems' PE100 Easigrip® 80 V electrofusion couplers (450 to 710 mm) must be installed using approved Easigrip® compatible equipment which is capable of delivering the 3 stage electrofusion heating cycle: 'warm-up', 'soak' and 'weld' (fuse), followed by the cooling cycle. For successful jointing, a compatible electrofusion control unit and matching generator capable of delivering a minimum constant power of 4.8 kW for the duration of the electrofusion cycle, are required (the fitting supply shall be 78 V to 80 V AC rms).



3 stage electrofusion heating cycle

1

Warm-up Pre-heating stage

The coupler receives power from the control unit

2

Soak Non-power stage

Heat is transferred through the coupler and into the connecting pipe

3

Weld (fuse) Main fusion stage

The coupler receives power from the electrofusion control unit fusing the coupler to the pipes

Cool

The alignment clamps must remain in position during the full duration of the cooling cycle

Safety



The weight of the electrofusion coupler is detailed on the packaging label. Please follow published safety practices when handling Easigrip® couplers.



The surface of the fitting will become hot during the electrofusion process. Do not touch the fitting until it has fully cooled.



Before carrying out an electrofusion joint

- The inside and outside of the pipe must be completely dry
- Visually check all electrical components including the generator, electrofusion control unit and all cables to ensure that they are in good working order and fit for use. Follow the supplier's recommendations
- Do not use the electrofusion fitting if the electrical terminal connections are damaged.

Minimum equipment requirement

1. Easigrip® compatible 80 V electrofusion control unit
2. Generator capable of providing the required power for the full duration of the electrofusion cycle. A 7.5-10 kVA generator will be required depending on the manufacturer
3. Easigrip® compatible re-rounding clamps and alignment bars
4. Industry approved pipe surface preparation tool (rotary pipe preparation tool preferred. For ProFuse® pipe, use the pipe exposure tool - PET)
5. Welding shelter
6. Ground sheet
7. Measuring equipment
8. Approved marker pen
9. Suitable pipe cleaning equipment and disposable paper cleaning towels



Recommendation

Installers of Radius Systems' large diameter Easigrip® electrofusion couplers 450 - 710 mm must be qualified in electrofusion jointing techniques and must be familiar with the 3 stage welding principles of the Easigrip® coupler and the correct use of the associated equipment.

ONLY fusion equipment bearing the Easigrip® compatible label should be used with Easigrip® couplers.

Compatible electrofusion control units can be obtained through a wide range of pipe jointing equipment suppliers. Please contact Radius Systems for more details.



Compatible electrofusion control units as pictured here can be obtained through the following suppliers:

- Caldervale Technology
t: +44 (0)1924 469571
e: info@caldertech.com
- Advance Welding
t: +44 (0)844 8807748
e: sales@advancewelding.co.uk



Caldervale Technology
electrofusion control unit



Advance Welding
electrofusion control unit

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