

Miniray IR-1759-Mk4/A & IR-3104-Mk4/A Hand tools ED-7-001/002, ED-7-Cont-230/110V & ED-7-Batterybox-230/110V Control Units RoHS compliant version

SolderSleeve products

Installation of SolderSleeve Products with Portable Infra-red Heating Tool



The Miniray tool is a hand held Infra-red heating tool designed for use in installing Raychem SolderSleeve termination products.

A significant re-design has taken place in terms of electronic and electrical components to make these tools RoHS compliant but these changes are virtually invisible and there are no functional differences with previous versions of these tools.

The tool is portable, lightweight and is convenient for use where work space is restricted. The handtool is fan cooled and has low heat emission as the lamp is only energised on demand. A duty cycle up to 50% is permissible with a maximum heating time of 30 seconds.

With the ED-7-Cont and ED-7-Batterybox this duty cycle is fixed within the controller software. These controllers have a new software feature incorporated in order to improve filter and bulb life.

The heat energy is derived from a tungsten halogen lamp and is focused onto the product by means of the reflector design.

A kit product is available, comprising, Manual control box, hand tool, AT3130 reflector and spare bulb.

The product being installed is visible during the heating cycle. An optical filter eliminates the unwanted UV emissions and excess visible light thus reducing glare for the operator.

The unit may be connected directly to a 24 VAC or DC supply or alternatively may be used in conjunction with one of the two available control units.

The ED-7-001/002 Control units provide controls for both power and time and are suitable where the use of pre-set installation conditions is required. Up to 20 memory locations are available for the storage of time/power values. A trigger switch is used to initiate each cycle. This controller can also be used in a manual mode with the operator controlling the duration of the heating cycle via the trigger switch.

The ED-7-Cont-230/110V controller is a more simple unit, with no variable time, or variable power memory functions, and maintains power to the lamp for as long as the trigger switch remains depressed. The tool can be used with either 230V or 110V (nominal) voltage supply.

The ED-7-Batterybox controller is designed for remote areas, where more portability is required. This battery-powered controller can install approximately 50, 30 second installations before recharging is required.

Two versions of the handtool are available: -
IR-1759-MK3/A Standard aperture recommended for products up to 6 mm diameter.
IR-3104-MK3/A Large aperture for products up to 9 mm diameter.
Both versions of the tool will accept larger diameter components but uniform heating is not then assured.

No versions are designed for fuelled environments.

Miniray IR-1759-Mk4/A & IR-3104-Mk4/A Hand tools ED-7-001/002, ED-7-Cont-230/110V & ED-7-Batterybox-230/110V Control Units

SolderSleeve Products

TECHNICAL SPECIFICATION IR-1759-Mk4/IR-3104-MK4/A

IR-1759/IR-3104 HAND TOOLS

Supply Voltage	21.5 VAC nominal
Weight	1.1 kg
Typical Operating Temperature	500°C
Typical Heating Time	15 secs
Lamp Type, Power & Life – typical values	250 W Tungsten Halogen average life 10,000 cycles @ 50% duty cycle
Noise	51 dB (A)
Power Cord Length	3.1 m

ED-7-001/002, ED-7-Cont , & ED-7-Batterybox Control Units

Supply Voltage	001 & 002	230 VAC 50 Hz & 110 V 50/60 Hz
	ED-7-Cont	230 VAC 50 Hz OR 110 V 50/60 Hz
	ED-7-Batterybox	2 x 12V batteries
Input Current	001 & 002	4 A & 10 A
	ED-7-Cont	6.3 A
Dimensions WxHxL		160x120x250 mm
Weight	001 & 002	6.2 kg
	ED-7-Cont	8.0 kg
	ED-7-Batterybox	8.5 kg
Timer Adjustment (001/002 only)		1-250 secs
Output Voltage	001 & 002	16-24 VAC (dependent on program)
	ED-7-Cont	21.5 VAC
	ED-7-Batterybox	24V DC nominal
Voltage Output Control Accuracy (with +/-10% input variation)		
	001 & 002	+/- 3%
	ED-7-Cont	+/- 0.5V (120V/230V supply)
	ED-7-Batterybox	N/A (dependant upon charge)
Lamp 'Hold-On' Voltage	001 & 002	3.5 VAC
	ED-7-Cont	N/A
	ED-7-Batterybox	N/A
Memory Locations (001 & 002 only)		20

Product Range

Shield Terminators	D-10X, S063, SO96
For other Raychem Products	Discuss with Product Management

ORDERING INFORMATION

	Description	PCN
Handtool/Reflector/Control Box (1)	IR1759-MK4-AT3130-EDCont	CF0024-000
Handtool, standard aperture (2)	IR-1759-MK4/A	CF0025-000
Handtool, large aperture (2)	IR-3104-MK4/A	CF5497-000
Control Box with time control-230 V (3)	ED-7-001-MK4-230V-50HZ	CF0199-000
Control Box with time control-110 V (3)	ED-7-002-MK4-110V-60HZ	CF0201-000
Control Box manual control 110/230 (4)	ED-7-CONT-230/110V-MK4	CF0026-000
Battery Box	ED-7-BATTBOX-MK4-230/110V	CF0200-000

The numbers above refer to the pictures shown overleaf.



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