

Raychem Mini-Ray MK4 Heating Tool Systems

SAFE AND EFFICIENT

- Product being installed is visible during the heating cycle
- Optical filter eliminates unwanted UV emissions and excess visible light, reducing glare for the operator
- Heat energy from a tungsten halogen lamp is focused onto the product with a reflector

VERSATILE

- Controller can be used in a manual mode with the trigger switch or by pre-set time and power
- Up to 20 memory locations are available for the storage of time/power values

COMPONENTS

- The ED-7-Cont-230 V/110 V controller is a simple unit, with no variable time or variable power memory functions
- 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
- The ED-7-Batterybox controller is designed for remote areas, and can install approximately 50 x 30 second installations before recharging

COMPLETE

- A kit product is available, comprising manual control box, hand tool, AT3130 reflector and bulb



Mini-Ray MK4 Infrared Heating Tool

Designed for installing Solder Sleeve termination products up to 9 mm diameter.

**IR-1759-MK4/A, IR-3104-MK4/A
ED-7-001/002, ED-7-CONT-230 V/110 V
ED-7-BATTERYBOX-230 V/110 V**

The Raychem Mini-Ray MK4 tool from TE is a hand held infrared heating tool designed for use in installing Solder Sleeve termination products. The tool is portable, lightweight and convenient for use where workspace is restricted.

The hand tool is fan cooled and has low heat emission as the lamp is only energized on demand. A duty cycle up to 50% is permissible with a maximum heating time of 50 seconds. With the ED-7-Cont and ED-7-Batterybox, this duty cycle is fixed within the controller software.

The controllers have a new software feature that improves filter and bulb life. The heat energy is derived from a halogen lamp and is focused onto the product by means of the reflector design. The IR-1759-MK4/A standard aperture is recommended for products up to 6 mm diameter and the IR-3104-MK4/A large aperture for products up to 9 mm diameter. This version of the tool will accept larger diameter components, but uniform heating is not then assured.

Note: Current optical filters still fit the older MK III tools.



Specifications

Mini-Ray MK4 Heating Tool System

	Hand Tool	Control Units		
	IR-1759/IR-3104	ED-7-001/002	ED-7-Cont	ED-7-Batterybox
Supply Voltage	21.5 VAC nom.	230 VAC, 50 Hz and 110 V, 50-60 Hz	230 VAC, 50 Hz or 110 V, 50-60 Hz	NP7-12FR Yuasa 12 V 7 Ah
Input Current	—	4 A/10 A	6.3 A	2 x 12 V batteries, not supplied
Output Voltage	—	16-22 VAC (dependent on program)	21.5 VAC	22 VDC nominal
Weight	1.1 kg (2.4 lb.)	6.2 kg (13.6 lb.)	8.0 kg (17.6 lb.)	8.5 kg, 160 (18.7 lb.)
Typical Operating Temperature	500°C @ 10 second operation	—	—	—
Typical Heating Time	15 seconds	—	—	—
Halogen Lamp. Power/ Live, Typical Values	250 W x 24 V average life 10,000 cycles @ 50% duty cycle	—	—	—
Noise	41 dB (A)	—	—	—
Power Cord Length	3.1 m	—	—	—
Dimensions	—	6.3" x 4.7" x 9.8"		
Timer A Memory Locations (001 and 002 only)	—	1-250 secs 20 Memory	—	—

*Note: Current optical filters still fit the older MK III tools.

Ordering Information

IR-1759 Infrared Heating Tools

Model	Description	Part No.
Mini-Ray MK4 Heating Tool System	IR1759-MK4-AT3130-EDCont Hand tool/Reflector/Control Box	CF0024-000
IR-1759-MK4/A (1)	Hand tool, standard aperture	CF0025-000
IR-3104-MK4/A (1)	Hand tool large aperture	CF5497-000
IR1759-MK4AT3130-ED-7-001	Hand tool/standard aperture/ Timed 230 V Control Box	EG3472-000
ED-7-001-MK4-230V-50HZ	Control Box with time control-230 V	CF0199-000
ED-7-002-MK4-110V-60HZ	Control Box with time control-110 V	CF0201-000
ED-7-CONT-230/110V-MK4	Control Box manual control 110/230	CF0026-000
ED-7-BATTBOX-MK4-230/110V	Battery Box [†]	CF0200-000

[†]Battery box takes 2X12V batteries, type NP7-12FR. Please note that TE does not supply replacement batteries.

(1) Note: No control box or reflector supplied. Hand tool only.



Ordering Information (continued)

Accessories and Replacement Parts

Model	Description	Part No.
AE-153	Inner reflector for large aperture (3104)*	988285-000
AE-424	Inner reflector for standard aperture*	547918-000
AES-IR1759-100- FILTER-DUL	Standard filter*	431468-000
AES-IR1759-300-FLT-LRG	Large filter	F52511-000
ED-7-CONT-PCB	PCB*	CA3022-000
AE-900	Filter spring IR-1759*	277774-000
AE-897	Conversion kit for standard to Large aperture*	966953-000
AT-3130	Reflector to fit standard aperture standard Vee block*	988299-000
AT-3131	Reflector to fit standard aperture for SolderTacts contacts*	988300-000
AT-3132	Reflector to fit standard aperture*	988301-000
AT-3132-MK31/1	Reflector to fit standard aperture with clamps*	879865-000
AT-3134	Reflector to fit large aperture with standard Vee block*	988303-000
AT-3147	Reflector to fit large aperture with clamps*	988328-000
AT-3191	Reflector to fit standard aperture special Vee block*	588701-000
ED-7-CONT-TRANSFORMER	Transformer	139128-000
ED-7-BATT-FRONT-PANEL	Comes complete with PCB	132692-000
IR-1759/3104-CABLE-ASSY	Trigger PCB/cable/fan/lamp holder*	585643-000
NAE-143-3	Bulb 250 W, 24 V IR1759/3104*	988208-000
AE-205	Linear reflector for standard aperture	988596-000
AE-226	Linear reflector for large aperture	988314-000
AT-3134/AE-897	Reflector and conversion kit (see above)	934630-000
NAE-109-02	Lamp support	988382-000
NAE-152-1	Fan	988204-000
MINIRAY-GUN-CASE	Mini-Ray heat gun case	CM8837-000

*Items marked with an asterisk are compatible and can be used with MK2/MK3 IR1759.



ROHS Information can be found at the following website: <http://www.te.com/customersupport/productcompliance/>



This product must not be disposed of as municipal waste.