

MFR-2200 Series: Dual Simultaneous Output Soldering and Rework System



New MFR Series with SmartHeat® Power and Control

The MFR-2200 Series Soldering and Rework Systems provide a high power, flexible solution for production soldering, touch-up soldering and SMD rework. SmartHeat responds to the load demand, delivering only the energy required for each connection, protecting sensitive components and substrates from damage. With SmartHeat® Technology, users are assured of highly responsive and controlled heating.

Choose One or Two Active Hand-pieces

The MFR-2200 Series allows the user to select operation of one hand-piece or two hand-pieces simultaneously. A three position switch easily shifts to left, right or center (both hand-pieces on) to power the connected hand-pieces.



Three position switch.
Select left, center
(both) or right to
power handpieces

Multiple Hand-pieces Increases Flexibility

The MFR-2200 Series has three hand-pieces that can be used with the system. A comprehensive range of soldering and rework cartridges are available for the cartridge handpiece (MFR-H1-SC) provide users with fine-access soldering tips, SMD rework tips and pad clean-up blade tips. A soldering handpiece for production soldering (MFR-H2-ST) features high power and tips designed for production soldering environments. A third option is the Precision Tweezers handpiece for SMD removal of 0201 resistors to 28 mm long SOIC.



Cartridge handpiece with small diameter tips for access



Cartridge handpiece with rework tips for SMD rework



Soldering "tip" handpiece with exceptional power and production tips



Precision Tweezers handpiece for rework of SMD components with fine dimension to large blade geometries

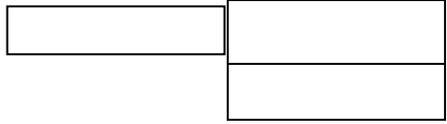
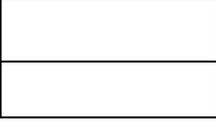
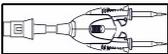
Specifications

Ambient Operating Temperature	10- 40°C
Maximum Enclosure Temperature	55°C
Input Line Voltage / Frequency	100- 240 VAC, 50/60 Hz grounded circuit
Recommended Air Pressure Input	450kPa (65PSI) MFR-PS2X only
Power Consumption	170 Watts maximum

Output Power Max.	>60 Watts maximum at 22°C
Output Frequency	450 KHz
Power Cord 3-Wire	183cm (18/3") SJT
Hand-piece Connector	8-pin circular DIN
Certification / Marking	cTUVus, CE
Tip-to-Ground Potential	<2mV
Tip-to-Ground Resistance	<2 ohms
Idle Temperature Stability	± 1.1°C
Other Handpiece Cable Length	L=122cm (48"), burn resistant, ESD safe
Power Supply Dimensions W x D x H	170mm (7") x 200mm (8") x 152.5mm (6")
Workstand Dimensions W x D x H	100 mm (4") x 200 mm (8") x 100 mm (4")

SYSTEM CONFIGURATIONS	
Part Number	Description
MFR-2210	Dual output, one cartridge soldering handpiece
MFR-2220	Dual output, one tip soldering handpiece
MFR-2240	Dual output, one precision tweezers handpiece
MFR-2241	Dual output, one precision tweezers, one cartridge soldering handpiece
MFR-2211	Dual output, two cartridge soldering handpieces
MFR-2222	Dual output, two tip soldering iron handpieces
SYSTEM COMPONENTS	
MFR-H1-SC	Handpiece, soldering cartridge
MFR-H2-ST	Handpiece, soldering tip
MFR-H4-TW	Handpiece, tweezers cartridge
MFR-UK1	Upgrade Kit: solder cartridge handpiece (MFR-H1-SC) & workstand (WS1)
MFR-UK2	Upgrade Kit: Solder tip handpiece (MFR-H2-ST) & workstand (WS1)
MFR-UK4	Upgrade Kit: tweezers handpiece (MFR-H4-TW) & workstand (WST)
MFR-PS2200	Power supply, dual output
WS1	Sleeper Workstand, cartridge soldering or tip soldering handpieces, black cradle (standard)
WS1G	Sleeper Workstand, cartridge soldering or tip soldering handpieces, green cradle (optional)
WST	Workstand for tweezers handpiece, black cradle (standard)
WSTG	Workstand for tweezers handpiece, green cradle (optional)
SPARES	
MFR-CA2	Coil Assembly, soldering tip handpiece (MFR-H2-ST)
AC-CP2	Cartridge / tip removal pad
AC-BP	Brass pad (pack of 10)

Soldering and Rework Cartridges and Tips

MFR-H1-SC	Series	Line Drawings
	SxP Soldering Cartridges RxP Rework Cartridges	
MFR-H2-ST 	SxV Series production soldering tips CxV "Clean-up" blade tips for BGA pad	
MFR-H4-TW 	TxP Series cartridges for SMD rework	

To view the complete range of cartridges and tips go to www.okinternational.com