

# MFR-1100 Series Single Output

## Soldering & Rework Systems



The MFR-1100 Single Output Series is designed to minimize training investment, maximize application solutions and increase productivity.

This Series is compact and **versatile**. It can be used with either a soldering tip, cartridge or tweezers hand-piece. A desoldering option is also available as an upgrade kit (see pages 11 & 13).



Systems	MFR-PS1100 Power Supply	MFR-H1-SC Soldering Cartridge Hand-piece	MFR-H2-ST Soldering Tip Hand-piece	MFR-H4-TW Tweezer Hand-piece	MFR-H6-SSC SSC Cartridge Hand-piece	WS1 Soldering Workstand	MFR-WSPT Tweezer Workstand	WS2 Soldering Workstand
Picture Reference		1	2	3	4	5		6
MFR-1110	1	1				1		
MFR-1120	1		1			1		
MFR-1140	1			1			1	
MFR-1160	1				1			1
MFR-1161	1	1			1	1		1

Note: The MFR-1160 replaces the Metcal SP200 Soldering System. The MFR-H6-SSC hand-piece accepts the same SSC cartridges.

**SxP**  
Soldering Cartridges

**RxP**  
Rework Cartridges

Full range on pages 27-28

**SxV**  
Soldering Tips

**CxV**  
Blade Tips

Full range on pages 24-25

**TxP**  
Tweezer Cartridges

Full range on page 29

**SSC**  
Soldering Cartridges  
(**METAL** SP200 System)

Full range on page 23

# MFR-1100 & MFR-2200 Series

## Soldering & Rework Systems



Systems from both MFR-2200 and MFR-1100 series can be locked together for increased flexibility.



MFR-2200: Three position switch. Select left, right or center (both ports operational) to power hand-pieces

### Key Features & Benefits

- ▶ SmartHeat® Technology provides exceptional power for high thermal demand applications
- ▶ Single or Dual simultaneous outputs allow for single or dual hand-piece use
- ▶ Five hand-pieces available for increased application solutions for soldering, desoldering (upgrade kit) and rework on one system
- ▶ Each hand-piece has a comprehensive range of cartridges or tips for maximum flexibility
- ▶ Hand-pieces are ergonomic for operator safety and comfort

### Other Accessories Available:

<b>MFR-CA2</b>	Coil Assembly for Tip Hand-piece (MFR-H2-ST)
<b>WS1G</b>	Auto-sleep Workstand, Green
<b>MFR-PM70</b>	Power Meter
<b>AC-CP2</b>	Cartridge / Tip Removal Pad
<b>AC-BP</b>	Brass Pad (for Workstand) - Pack of 10

### Technical Specifications

Power Supply	MFR-1100	MFR-2200
Ambient Operating Temperature	10 - 40°C (50°F - 104°F)	10 - 40°C (50°F - 104°F)
Maximum Enclosure Temperature	55°C (131°F)	55°C (131°F)
Input Line Voltage	100 - 240 VAC	100 - 240 VAC
Input Line Frequency	50/60 Hz grounded circuit	50/60 Hz grounded circuit
Power Consumption	70 Watts maximum	130 Watts maximum
Output Power	60 Watts at 22°C	60 Watts at 22°C per output (2 outputs)
Output Frequency	450 KHz	450 KHz
Power Cord (3-wire)	183 cm 18/3 SJT	183 cm 18/3 SJT
Dimensions (approx.) W x D x H	90mm (3.5") x 142mm (5.6") x 197mm (7.8")	170mm (7") x 200mm (8") x 152.5mm (6")
Weight	2.3kg (5.05 lbs)	2.97 kg ( 6.55 lbs)
Surface Resistivity	10 <sup>5</sup> -10 <sup>9</sup> Ohms	10 <sup>5</sup> -10 <sup>9</sup> Ohms
Certification / Marking	cTUVus, CE	cTUVus, CE

### Soldering Handle and Coil Assembly

Tip-to-Ground Potential	< 2 mV RMS	< 2 mV RMS
Tip-to-Ground Resistance	<2 ohms	<2 ohms
Idle Temperature Repeatability	± 1.1°C (2°F) in still air	± 1.1°C (2°F) in still air
Handle Cord Assembly Length	122 cm – burn proof, ESD safe	122 cm – burn proof, ESD safe
Connector	8-pin circular DIN	8-pin circular DIN
Workstand W x D x H	100 mm (4") x 200 mm (8") x 100 mm (4")	100 mm (4") x 200 mm (8") x 100 mm (4")
Workstand Weight	0.69 kg (1.51 lbs)	0.69 kg (1.51 lbs)