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MFR-2200 Series Dual Output

Simultaneous Soldering & Rework Systems



The MFR-2200 Series features dual output capability allowing users to select operation of one hand-piece or two hand-pieces **simultaneously**.

The MFR-2200 Systems below offer a choice of three hand-pieces, however two additional hand-pieces including the desoldering option are also available as upgrade kits (see pages 21 & 23).



Systems	MFR-PS2200 Power Supply	MFR-H1-SC2 Soldering Cartridge Hand-piece	MFR-H2-ST2 Soldering Tip Hand-piece	MFR-H4-TW Tweezer Hand-piece	WS1 Universal Soldering Workstand	MFR-WSPT Tweezer Workstand
Picture Reference		1	2	3		
MFR-2210	1	1			1	
MFR-2220	1		1		1	
MFR-2240	1			1		1
MFR-2211	1	2			2	
MFR-2222	1		2		2	
MFR-2241	1	1		1	1	1

NEW STYLE MFR Tip and Cartridge Hand-pieces.



Slimmer grip for added comfort and handling.











MFR-1100 Series Single Output

Soldering & Rework Systems



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

This Series is compact and **versatile** and can be used with either a soldering tip, cartridge or tweezers hand-piece. A shop air desoldering option is also available as an upgrade kit (see pages 21 & 23).



Systems	MFR-PS1100 Power Supply	MFR-H1-SC2 Soldering Cartridge Hand-piece	MFR-H2-ST2 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.











MFR-1100 & MFR-2200 Series

Soldering & Rework Systems



MFR-2200 and MFR-1100 series



MFR-2200, MFR-1100 and MFR-1300 series (shown on page 14)

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
- Ergonomic hand-pieces for operator safety and comfort

Other Accessories Available:

MFR-CA3	Coil Assembly for Tip Hand-piece (MFR-H2-ST2)	
WS1G	Auto-sleep Workstand, Green	
MFR-PM70	Power Meter	
AC-CP2	Cartridge / Tip Removal Pad	
AC-BP	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
Power Consumption	70 Watts maximum	130 Watts maximum
Input Line Frequency	50/60 Hz grounded circuit *	50/60 Hz grounded circuit *
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")	170mm (7") x 200mm (8")
	x 197mm (7.8")	x 152.5mm (6")
Weight	2.3kg (5.05 lbs)	2.97 kg (6.55 lbs)
Surface Resistivity	10 ⁵ -10 ⁹ Ohms	10 ⁵ -10 ⁹ 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")	100 mm (4") x 200 mm (8")		
	x 100 mm (4")	x 100 mm (4")		
Workstand Weight	0.69 kg (1.51 lbs)	0.69 kg (1.51 lbs)		
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^{*} RF SmartHeat Technology provides greater power. More details at www.metcal.com/smartheat

MFR-1150 Single Output Soldering & Desoldering Systems with Venturi

The MFR-1150 Desolder System with Venturi Workstand provides a compact and easy shop air option.

Key Features & Benefits

- Venturi workstand
- ▶ 2 in 1 Desolder hand-piece (Pistol or Pencil)
- MFR-H5-DS & MFR-WSDSX are compatible for use with all MFR systems (available under MFR-UK5 upgrade kit)
- Uses DxP desolder cartridges and replaceable coil assembly (MFR-HDCA)

Part No.	Description
MFR-1150	Complete System
Includes:	
MFR-PS1100	Power Supply
MFR-H5-DS	Desolder hand-piece
MFR-WSDSX	Workstand with venturi box for desolder hand-piece
MFR-FTKIT	Fittings and air hose kit
AC-TC	Desolder tip cleaner tool







	MFR-PS1100 Power Supply
Input Line Voltage	100-240 VAC
Power Consumption	65 Watts max.
Input Line Frequency	50/60Hz *
Output Power	60 Watts Max *
Output Frequency	450 KHz
Dimensions W x D x H	90mm x 200mm x 152.5mm (3.5" x 8" x 6")

* RF SmartHeat Technology provides greater power. More details at www.metcal.com/smartheat

Collection chamber replacement

MFR-1150 System
+/- 1.1°C (2°F) in still air
10 - 40°C (50 - 104°F)
55°C (131°F)
<2mV
<2 Ohms
10 ⁵ − 10 ⁹ Ohm
cTUVus, CE



Remove grip for Pencil config.

MFR-H5-DS Desolder Hand-niece



MFR-UK5 Upgrade Kit Compatible with all MFR **Series Power Supplies**

	With-no-Do Desolder natid-piece
Power Cord (3-wire)	183cm (72")
Solder Hand-piece cable length	152 cm (60"), burn proof, ESD safe
Hand piece connector	8 pin power connector
	MFR-WSDSX Workstand
Input voltage	24V
Intput power	15W
Workstand dimensions	100mm x 200mm x 140mm (4" x 8" x 5.5")
Noise level	< 55 dB
Recommended Air pressure input	550kPa (80PSI) - Shop air only
Vacuum suction force	0.85 bar (25" Hg)

-

MFR-1300 Dual Switchable Output

Soldering & Desoldering Systems with Internal Air

The MFR-1300 Desoldering and Rework System features a innovative desoldering hand-piece and a power supply with an **internal pump** providing 0.7 bar of vacuum suction force making through-hole desoldering easy.

Key Features & Benefits

- Self-contained powerful vacuum pump
- ▶ 2 in 1 ergonomic and flexible hand-piece
- Recyclable collection chamber with increased capacity
- Quick and easy change collection chamber
- Dual switchable output
- Powered by Smartheat® Technology
- Compatible with previous MFR Desolder range

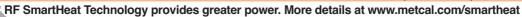
Part No.	Description
MFR-1350	Desolder System with Internal Pump*
MFR-1351	Solder / Desolder System with Internal Pump**
Includes:	
MFR-PS1300	Power Supply
MFR-H5-DS	Desolder hand-piece*
MFR-H1-SC2	Solder Cartridge hand-piece*
MFR-WSDSU	Workstand for Desolder hand-piece*
WS1	Workstand for Solder hand-piece*





Technical Specifications

	MFR-1350/51
Input Line Voltage	100-240 VAC
Input Line Frequency	50/60Hz
Power Consumption	110 Watts max. (Power Supply MFR-PS1300)
Output Power	60 Watts Max *
Output Frequency	450 KHz *
Idle Tip temperature stability	+/- 1.1°C (2°F) in still air
Ambient Operating Temperature	10 - 40°C (50 - 104°F)
Maximum Enclosure Temperature	55°C (131°F)
Noise level	< 55 dB
Vacuum suction force	0.7 bar (21in Hg at Vacuum pump at sea level)
Power Cord (3-wire)	183cm (72")
Desolder Hand-piece cable length	152 cm (60"), burn proof, ESD safe
Solder Hand-piece cable length	122 cm (48"), burn proof, ESD safe
Hand piece connector	8 pin power connector
Tip to ground Potential	<2mV
Tip to ground resistance	<2 Ohms
Surface Resistivity	10 ⁵ – 10 ⁹ Ohms
Approvals	cTUVus, CE
Dimensions (approx.) W x D x H	170mm x 200mm x 152.5mm (7" x 8" x 6")
Workstand dimensions	100mm x 200mm x 100mm (4" x 8" x 4")
A	





Pencil



Pistol





Accessories and Spare PartsFor MFR and PS Series

Hand-pieces and replacement coils











PS-HC3	Soldering Handle with PS-CA3 Coil
	Assembly (PS-900)
PS-H3 1	Soldering Handle without Coil
	Assembly (PS-900)
PS-CA3 2	,
MED III 000 -	Hand-piece (PS-900)
MFR-H1-SC2 3	
MED HO CTO	piece (MFR)
MFR-H2-ST2 4 MFR-CA3	Tip Solder Hand-piece (MFR)
MFR-CA3	Coil Assembly for MFR-H2-ST2 Hand-piece (MFR)
MFR-H4-TW 5	
	(MFR)
MFR-H6-SSC 6	
	(MFR)
MFR-H5-DS 7	Desolder Hand-piece
MFR-HSREC	Cartridge Solder / Rework Hand-
	piece with long cord (1.83m / 6ft)
MFR-HSRLR 8	Cartridge Solder / Rework Hand-
	piece with long reach access
Workstands	
WS1	Universal Auto Sleep Workstand
WS2	Round Auto Sleep Workstand
WS2-NS 9	0 11 111 1 1 1 (70 000)
	Non Sleeper Precision Tweezer
	Workstand
MFR-WSDSX 11	Venturi Workstand for Desolder
	Hand-piece
MFR-WSDSU	Non Sleeper Workstand for
	Desolder Hand-piece
WS1CB	Solder Rework Cradle Replacement
	for WS1 Workstand
WS2CB	Solder Rework Cradle Replacement
	for WS2 Workstand
MFR-WSDSCB	Replacement cradle for all MFR
	Desolder Workstands
AC-PTP-1	Rubber tip cleaning pad insert* (1)
AC-PTP-3	Rubber tip cleaning pad insert* (3)
AC-PTP-10	Rubber tip cleaning pad insert* (10)
	* for all rectangular MFR workstands
Upgrade Kits	-
MFR-UK1	Solder Cartridge Hand-piece
	(MFR-H1-SC2) and Workstand (WS1)
MFR-UK2	Solder Tip Hand-piece (MFR-H2-ST2)
	and Workstand (WS1)
MFR-UK4	Tweezer Cartridge Hand-piece (MFR-
	H4-DS) and Workstand (MFR-WSPT)
MFR-UK5	Desolder Hand-piece (MFR-H5-DS)
	and Workstand (MFR-WSDSX)
MFR-UK6	Solder Cartridge Hand-piece (MFR-H6-
	000)

and Workstar	nd cradle (IVIFR-VV
15	16

SSC) and Workstand (MFR-WS2) Desolder Hand-piece (MFR-H5-DS)

Lead-Free Pr	осе	ss Identification
WS1G	12	Green Universal Auto Sleep
		Workstand
WS2G		Green Solder Workstand (PS-900)
WS1CG		Green Solder Rework Cradle
		Replacement for WS1 Workstand
WS2CG		Green Solder Rework Cradle
		Replacement for WS2 Workstand
AC-CK1	13	Green Identification Ring for OKi
		Cartridges (Pack of 50)
AC-CK3		Green Identification Ring for SSC
		Cartridges (Pack of 50)
AC-CK4	14	Green Identification Ring for OKi
		Tips (Pack of 50)

Miscellaneous Accessories		
AC-BRUSH	15 Soft Brass Brush	
AC-CP2	Cartridge and Tip Removal Pad	
AC-FX1	16 Fume Extraction Kit	
AC-IK	Interlocking / Mounting Kit	
MFR-PM70	Power Meter for MFR Series	
PS-PM900	Power Meter for PS-900	
AC-Y10	Yellow Sponge for WS1 Workstand	
	(Pack of 10)	
AC-YS4	Yellow Sponge Round for WS2	
	Workstand (Pack of 10)	
AC-BP	Brass Pad (Pack of 10)	

Desoldering Accessories		
MFR-DC10 1	7 Disposable Collection Chamber for	
	MFR-H5-DS (pack of 10)	
MFR-DC100	Disposable Collection Chamber for	
	MFR-H5-DS (pack of 100)	
MFR-HDCA	18 Coil Assembly for MFR Desolder	
	Hand-piece	
MFR-PG	Replacement Pistol grip for	
	MFR-H5-DS Hand-piece	
AC-SK1	Seal Kit Collection Chamber	
	(pack of 2)	
AC-VP	Vacuum Port	
AC-VL	ESD Air Hose	
AC-VPF	Vacuum Port Filter (pack of 5)	
LM-PS	Power supply for MFR-WSDSX	
	with multi plug adapters	
AC-TC	Desoldering Tip Cleaner Tool	



MFR-H5-DS-C







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