

Metcal PS-900

60W SmartHeat® Soldering System

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176 - TestEquipmentDepot.com



PS-900 Features and Benefits

- Powerful, easy to use unit with a small footprint
- Large selection of blade and soldering tips ensures that the PS-900 can handle your project requirements
- SmartHeat® technology operates at lower and safer temperatures and eliminates overshoot.
- No calibration required which saves money and down-time.

Power And Control

Metcal's PS-900 Soldering System, powered by SmartHeat® technology, is a powerful, cost-effective soldering system with a small benchtop footprint. The PS-900 provides exceptional thermal control and enables operators to produce high quality, repeatable solder connections with exceptional speed.

The PS-900 is designed for lead-free soldering, multilayer boards and thermally demanding components. With SmartHeat® technology, the PS-900 can solder at lower temperatures even in demanding lead-free soldering processes. Operators using the PS-900 are more productive and materials are safe from temperatures that can damage other components.

The PS-900 with SmartHeat® is easy to use, eliminates calibration time and hassle and requires very little maintenance. Moreover, the soldering tips are designed for long life which reduces overall operating costs. Metcal's PS-900 is the best choice for small or large production environments which need exceptional performance from a unit with a small footprint.

Technical Specifications

Power Supply

Ambient Operating Temperature	10 - 40°C (50° - 104°F)
Maximum Enclosure Temperature	65°C (149°F)
Input Line Voltage	100 - 240 VAC
Power Consumption	90 Watts Max.
Input Line Frequency	50/60 Hz
Output Power	60 Watts Max.*
Output Frequency	450 KHz
Power Cord (3-wire)	183cm, 18/3 SJT
Dimensions W x D x H	80 x 160 x 115mm (3.1" x 6.3" x 4.5")

*RF SmartHeat Technology provides greater power.

Soldering Handle and Coil Assembly

Tip-to-Ground Potential	< 2 mV
Tip-to-Ground Resistance	< 2 ohms
Idle Temperature Repeatability	± 1.1°C in still air
Handle Cord Assembly Length	122cm – burn proof, ESD safe
Connector	3-pin power connector
Overall length (with tip)	230mm (9.06") with standard tips
Grip diameter	13mm (0.51")
Tip to grip	58mm (2.28")
Tip shaft diameter	8.0mm (0.31")
Tip length	82 to 93mm (3.25" x 3.66") Typical
Workstand W x D x H	105 x 175 x 90mm (4.1" x 6.9" x 3.5")



Metcal PS-900 60W SmartHeat® Soldering System

PS-900 System and Accessories

Part No.	Photo	Description
PS-900		Complete System
Includes:		
PS-PW900	1	Power Supply
PS-HC3	2	Hand-piece (PS-H3) and Coil Assembly (PS-CA3)
WS2-NS	3	Workstand, Black
SFV-CH15A	6	Economical and Affordable Chisel Solder Tip 1.5mm (.06")

Other Accessories Available:

PS-H3	4	Hand-piece only (does not include PS-CA3 Coil Assembly)
PS-CA3	5	Coil Assembly for SxV Soldering Tips (9) and CxV Blade Tips (10) Only
WS2		Auto-sleep Workstand, Black
WS2G		Auto-sleep Workstand, Green
AC-CP2	7	Tip Removal Pad

PS-900 Accessories For Use With PHT Tips

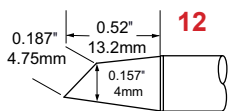
PS-CA1	8	Coil Assembly for PHT Soldering Tips Only
PS-HC1		Hand-piece (PS-H3) and Coil Assembly (PS-CA1)
PS-H3	4	Hand-piece only, NO PS-CA1 Coil Assembly



10
SxV Soldering Tips
See pgs. 3 - 4

9
CxV Blade Tips
See pg. 4

Also Available - PS-900-Solar Soldering



STV-DRH440A
Hoof Tip 4mm (.157")

PS-900-Solar

Designed specifically for the solar industry, Metcal's PS-900 Solar Unit can solder wires, tabs and stringers without causing damage to expensive solar materials.

PS-900-Solar uses SmartHeat® technology and a special hand-piece to deliver the precise heat needed for reliable connections. SmartHeat's internal microprocessor enables the unit to operate at lower temperatures to help eliminate micro-cracking or stressing expensive material.

Part No.	Photo	PS-900-Solar
PS-PW900	1	Power Supply
PS-900-PC9	11	Hand-piece with 9' Cord (274cm)
PS-CA3	5	Coil Assembly
STV-DRH440A	12	High Performance Soldering Tip
WS2-NS	3	Workstand
AC-CP2	7	Tip Removal Pad
SxV Tips	10	Soldering Tips (SOLD SEPARATELY)

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Metcal PS-900 SxV Soldering Tips



Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,
PS-HC3, MFR-H2-ST and MFR-H2-ST2 hand-pieces, PS-CA3, MFR-CA2 and MFR-CA3 Coil Assemblies

SxV SOLDERING TIPS				
CHISEL	<p>SFV-CH10A STV-CH10A SCV-CH10A</p>	CHISEL	<p>SFV-CH25 STV-CH25 SCV-CH25</p>	
	<p>SFV-CH10AR STV-CH10AR SCV-CH10AR</p>		<p>SFV-CH30AR STV-CH30AR SCV-CH30AR</p>	
	<p>SFV-CH10 STV-CH10 SCV-CH10</p>		<p>SFV-CH50A STV-CH50A SCV-CH50A</p>	
	<p>SFV-CH15A STV-CH15A SCV-CH15A</p>		<p>SFV-CH50AR STV-CH50AR SCV-CH50AR</p>	
	<p>SFV-CH15AR STV-CH15AR SCV-CH15AR</p>		<p>SFV-CH50 STV-CH50 SCV-CH50</p>	
	<p>SFV-CHB15 STV-CHB15 SCV-CHB15</p>		CONICAL	<p>SFV-CNL03AR STV-CNL03AR SCV-CNL03AR</p>
	<p>SFV-CH18AR STV-CH18AR SCV-CH18AR</p>			<p>SFV-CNB04A STV-CNB04A SCV-CNB04A</p>
	<p>SFV-CH20 STV-CH20 SCV-CH20</p>			<p>SFV-CN05A STV-CN05A SCV-CN05A</p>
	<p>SFV-CH24A STV-CH24A SCV-CH24A</p>			<p>SFV-CNB04AR STV-CNB04AR SCV-CNB04AR</p>
<p>SFV-CH25AR STV-CH25AR SCV-CH25AR</p>	<p>SFV-CNL04 STV-CNL04 SCV-CNL04</p>			

F = FR4 / Fiberglass, for most standard applications T = Temperature Sensitive C = Ceramic for high thermal demand applications.

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SxV Soldering Tips / CxV Blade Tips



Compatible with: PS-900, MFR-1120, MFR-2220, MFR-2222 Systems,
PS-HC3, MFR-H2-ST and MFR-H2-ST2 hand-pieces, PS-CA3, MFR-CA2 and MFR-CA3 Coil Assemblies

SxV SOLDERING TIPS				CxV BLADE TIPS		A
CONICAL		SFV-CN05AR STV-CN05AR SCV-CN05AR	HOOF		SFV-DRH420AR STV-DRH420AR SCV-DRH420AR	
		SFV-CN05 STV-CN05 SCV-CN05			SFV-DRH20CP STV-DRH20CP SCV-DRH20CP	
		SFV-CNB05 STV-CNB05 SCV-CNB05			SFV-DRH430AR STV-DRH430AR SCV-DRH430AR	
		SFV-CNL10A STV-CNL10A SCV-CNL10A			STV-DRH630AR SCV-DRH630AR	
		SFV-CNL10AR STV-CNL10AR SCV-CNL10AR			SFV-DRH420A STV-DRH420A SCV-DRH420A	
		SFV-CNL10 STV-CNL10 SCV-CNL10			SFV-DRH30CP STV-DRH30CP SCV-DRH30CP	
		SFV-CNL14 STV-CNL14 SCV-CNL14			SFV-DRH440R STV-DRH440R SCV-DRH440R	
		SFV-DRH20 STV-DRH20 SCV-DRH20			SFV-DRH640AR STV-DRH640AR SCV-DRH640AR	
		SFV-CNL20 STV-CNL20 SCV-CNL20			SFV-DRH40CP STV-DRH40CP SCV-DRH40CP	
		SFV-WV20 STV-WV20 SCV-WV20			SFV-DRH440A STV-DRH440A SCV-DRH440A	
KNIFE		SFV-DRK45A STV-DRK45A SCV-DRK45A		SFV-DRK30AR STV-DRK30AR SCV-DRK30AR		
		SFV-DRK50 STV-DRK50 SCV-DRK50		SFV-DRK45AR STV-DRK45AR SCV-DRK45AR		

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