

Metcal PS-900

60W SmartHeat® Soldering System



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

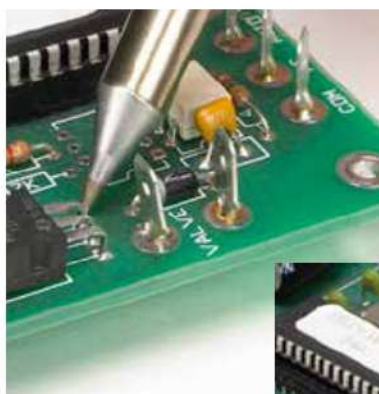
Power Supply

Ambient Operating Temperature	10 - 40°C (50° - 104°F)
Maximum Endure 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. For more details, visit www.metcal.com/smartheat

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

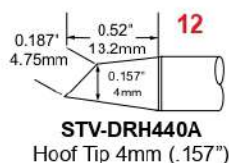
PS-CA1	8	Coil Assembly for PHT Soldering Tips Only
PS-HC1		Hand-piece (PS-H3) and Coil Assembly (PS-CA1)
PS-H3	4	Hand-piece only, NO PS-CA1 Coil Assembly



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.

For more information about Metcal's PS-900-Solar Soldering System or any Metcal product, visit www.Metcal.com or contact your local Metcal representative.

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	 SFV-CH10A STV-CH10A SCV-CH10A
	 SFV-CH10AR STV-CH10AR SCV-CH10AR
	 SFV-CH10 STV-CH10 SCV-CH10
	 SFV-CH15A STV-CH15A SCV-CH15A
	 SFV-CH15AR STV-CH15AR SCV-CH15AR
	 SFV-CHB15 STV-CHB15 SCV-CHB15
	 SFV-CH18AR STV-CH18AR SCV-CH18AR
	 SFV-CH20 STV-CH20 SCV-CH20
CHISEL	 SFV-CH24A STV-CH24A SCV-CH24A
	 SFV-CH25AR STV-CH25AR SCV-CH25AR
	 SFV-CH25 STV-CH25 SCV-CH25
	 SFV-CH30AR STV-CH30AR SCV-CH30AR
CONICAL	 SFV-CH50A STV-CH50A SCV-CH50A
	 SFV-CH50AR STV-CH50AR SCV-CH50AR
	 SFV-CH50 STV-CH50 SCV-CH50
	 SFV-CNL03AR STV-CNL03AR SCV-CNL03AR
	 SFV-CNB04A STV-CNB04A SCV-CNB04A
	 SFV-CN05A STV-CN05A SCV-CN05A
	 SFV-CNB04AR STV-CNB04AR SCV-CNB04AR
	 SFV-CNL04 STV-CNL04 SCV-CNL04

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



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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		HOOF		SFV-DRH420AR STV-DRH420AR SCV-DRH420AR
				SFV-DRH20CP STV-DRH20CP SCV-DRH20CP
				SFV-DRH430AR STV-DRH430AR SCV-DRH430AR
				STV-DRH630AR SCV-DRH630AR
				SFV-DRH420A STV-DRH420A SCV-DRH420A
				SFV-DRH30CP STV-DRH30CP SCV-DRH30CP
				SFV-DRH440R STV-DRH440R SCV-DRH440R
				SFV-DRH640AR STV-DRH640AR SCV-DRH640AR
				SFV-DRH40CP STV-DRH40CP SCV-DRH40CP
				SFV-DRH440A STV-DRH440A SCV-DRH440A
KNIFE				SFV-DRK30AR STV-DRK30AR SCV-DRK30AR
				SFV-DRK45AR STV-DRK45AR SCV-DRK45AR

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