

New open-valve mechanism achieves unrivalled vacuum power and start-up speed.



**AUTOMATIC DESOLDERING STATION
TP-280AS**



400% MORE SUCTION CAPACITY
With open-valve mechanism

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

SUPERIOR TEMPERATURE-CONTROL CIRCUIT
To keep the temperature constant during desoldering

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

SUCTION CAPACITY COMPARISON
The arrow indicates solder residue.



OPEN-VALVE MECHANISM

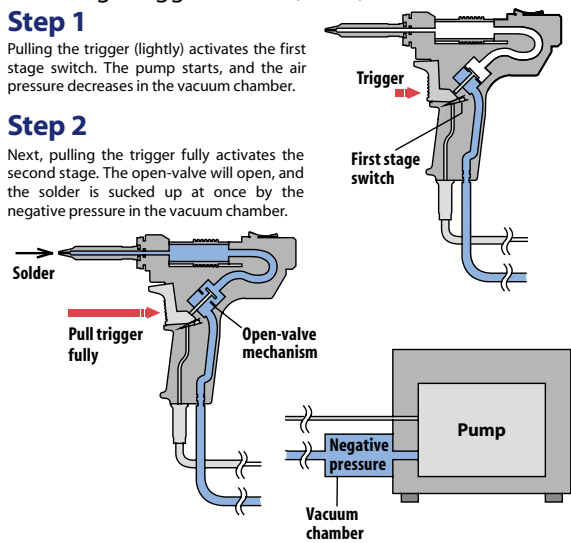
Two-stage trigger switch (PAT.P)

Step 1

Pulling the trigger (lightly) activates the first stage switch. The pump starts, and the air pressure decreases in the vacuum chamber.

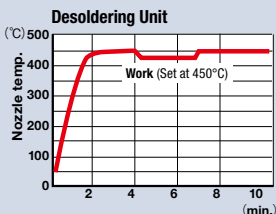
Step 2

Next, pulling the trigger fully activates the second stage. The open-valve will open, and the solder is sucked up at once by the negative pressure in the vacuum chamber.

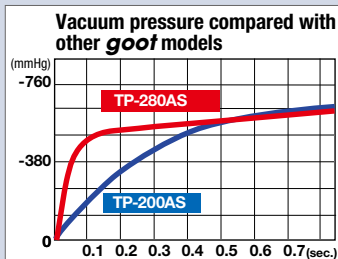


NOZZLE TEMPERATURE-RECOVERY FEATURES

Solder melted consecutively on 5x5mm land. Approx. 2 s / land. (with TP-100N-10 nozzle)



The open-valve allows the device to reach vacuum pressure of -0.06MP (approx. -450 mmHg) in only 0.1 second. (about 4 times faster than our TP-200AS).



SPECIFICATIONS

MODEL	TP-280AS
Voltage	110 V, 120 V, 220-240 V AC 50/ 60 Hz
Power Consumption	130 W (110 V, 120 V) 170-200 W (220-240 V)
Power Cord Length	1.5 m
Temperature Setting Range	250-450°C
Insulation Resistance	Over 100 MΩ(500 V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08 MPa (-600 mmHg)
Accessories	Cleaning pin TP-100CP-13 Soldering iron stand ST-76
Total Weight	Approx. 2.9 kg (w/o cord, hose)

CONTROL BOX

Output Voltage	110 V, 120 V, 220-240 V AC
Dimensions	95 (W) x 205 (H) x 256 (D) mm
Weight	2.6kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	110-120 V, 220-240 V AC / 85 W
Heater	Ceramic Heater
Cord Length	1.2 m
Dimensions	220 x 155 mm
Weight	250 g (w/o hose)
Standard Nozzle	TP-100N-S5

For replacement tips, nozzles, and optional parts, refer to p. 65

ST-76
soldering iron stand (included)



DESOLDERING PRODUCTS

Perfect for desoldering through-hole and multi-layered PCBs.

AUTOMATIC DESOLDERING STATION TP-200AS



- Built-in powerful and compact twin pump.
- When trigger is pulled, the heater heats up forcibly, reducing temperature decrease.
- After trigger release, the pump operates for approx. 0.5 seconds more, reducing solder clogs.



- POWERFUL VACUUM**
Everything from through-hole to multi-layered PCB
- CERAMIC HEATER WITH INTERNAL SENSOR**
A wide range for terminals, connectors and flat ICs
- ZERO VOLT SWITCH CIRCUIT**
Reduces noise during heater ON/OFF
- REPLACEABLE CARTRIDGE FILTER**
Makes changing the filter easy

ST-76 soldering iron stand (included)



For replacement tips, nozzles, and optional parts, refer to p. 65

Handy, portable Desoldering Gun with combined temperature-control circuit and desoldering mechanism

PORTABLE DESOLDERING GUNS TP-100/ 100AS



- POWERFUL VACUUM**
Everything from through-hole to multi-layered PCB
- ZERO VOLT SWITCH CIRCUIT**
Reduces noise during heater ON/OFF
- CERAMIC HEATER WITH INTERNAL SENSOR**
A wide range for terminals, connectors and flat ICs
- REPLACEABLE CARTRIDGE FILTER**
Makes changing the filter easy

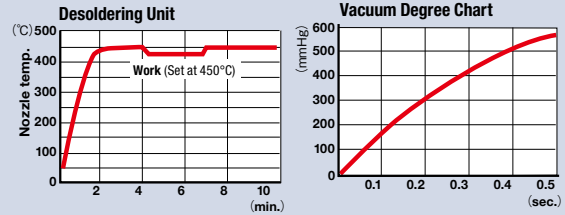
- Compact design with an internal motor, pump, and temperature-control circuit built into the grip. Portable and efficient.
- Maximum vacuum of -0.08MPa (-600 mmHg).
- Removes through-hole solder easily.
- Sensor feedback system allows temperature setting from $250\text{--}450^\circ\text{C}$.
- Makes changing the filter easy.

SPECIFICATIONS

MODEL	TP-100	TP-100AS
Voltage	110–130 V, 220–240 V AC 50/ 60 Hz	
Power Consumption	80 W (110–130 V), 70–75 W (220–240 V)	
Power Cord Length	1.5 m	
Temperature Setting Range	250–450°C	
Insulation Resistance	Over 100 MΩ (500 V DC)	
Vacuum Pump System	Diaphragm system	
Vacuum	- 0.08 MPa (-600 mmHg)	
Heater	Ceramic Heater	
Standard Nozzle	TP-100N-10	
Accessories	Cleaning pin TP-100CP-07/ Filter TP-100F Carry case Heat resistant pipe /Stand	
Dimensions	225 × 170 mm	
Weight	470 g (w/o cord)	

NOZZLE TEMPERATURE-RECOVERY FEATURES

Solder melted consecutively on 5x5mm land. Approx. 2 s / land. (with TP-100N-10 nozzle)



SPECIFICATIONS

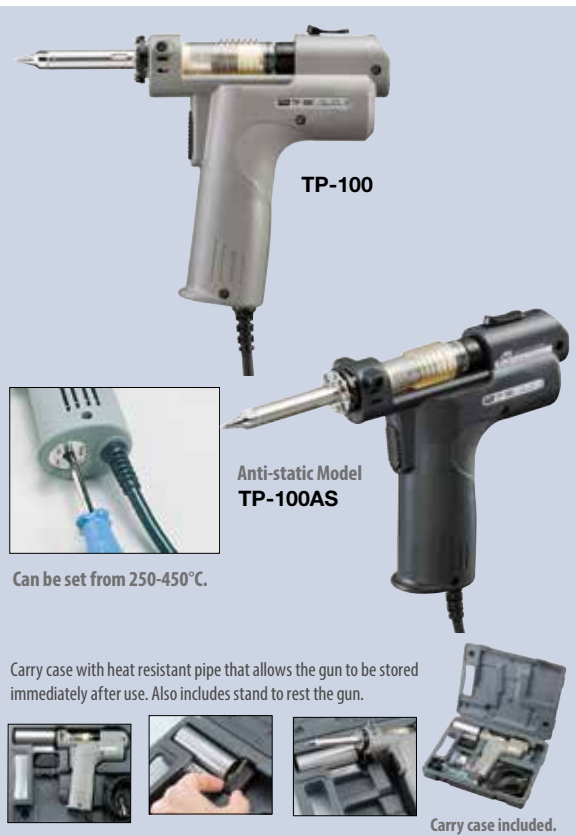
MODEL	TP-200AS
Voltage	110 V,120-130 V, 220–240 V AC 50/ 60 Hz
Power Consumption	130 W (110 V,120-130 V) 170-200 W (220-240 V)
Power Cord Length	1.5 m
Temperature Setting Range	250–450°C
Insulation Resistance	Over 100 MΩ (500 V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08 MPa (-600 mmHg)
Accessories	Cleaning pin TP-100CP-07 Soldering iron stand ST-76
Weight	Approx. 2.9 kg (w/o cord, hose)

CONTROL BOX

Output Voltage	110 V,120-130 V, 220–240 V AC
Dimensions	95 (W) x 205 (H) x 256 (D) mm
Weight	2.6kg (w/o cord, hose)

DESOLDERING UNIT

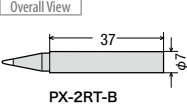
Input Voltage/Power Consumption	110-130 V, 220–240 V AC / 85 W
Heater	Ceramic Heater
Cord Length	1.2 m
Dimensions	220 × 155 mm
Weight	250 g (w/o cord, hose)
Standard Nozzle	TP-100N-10



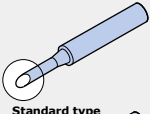
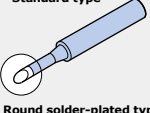
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REPLACEMENT TIPS

SVS-800AS/580AS/500AS

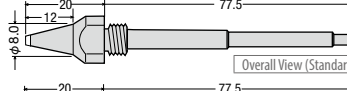
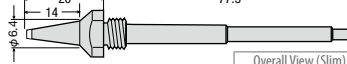
PX-2RT-SB	PX-2RT-B	PX-2RT-BC
PX-2RT-2BC	PX-2RT-3BC	PX-2RT-2C
PX-2RT-3C	PX-2RT-4C	PX-2RT-5C
PX-2RT-1.6D	PX-2RT-2.4D	PX-2RT-3.2D
PX-2RT-4D	PX-2RT-5D	PX-2RT-5K
PX-2RT-8S	PX-2RT-6E	Overall View 

ROUND SOLDER-PLATED TIP

 Standard type	PX-2RT-2CR	PX-2RT-3CR
 Round solder-plated type	PX-2RT-4CR	PX-2RT-5CR

REPLACEMENT NOZZLES

SVS-800AS/580AS/500AS/TP-280AS/TP-200AS/TP-100(AS)

TP-100N-08	TP-100N-10*2	TP-100N-15
TP-100N-25	TP-100N-S1	TP-100N-S5*1
TP-100N-S8	 Overall View (Standard)	
	 Overall View (Slim)	

*1 Model SVS-800AS, SVS-580AS, TP-280AS Standard Nozzle: TP-100N-S5
 *2 Model SVS-500AS, TP-200AS, TP-100(AS) Standard Nozzle: TP-100N-10

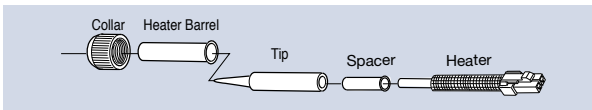
REPLACEMENT PARTS / OPTIONS

REPLACEMENT PARTS FOR SVS-800AS/580AS/500AS

*Desoldering Unit for SVS-800AS/SVS-580AS TP-28GAS	Iron Unit (common for SVS series) SVS-50GAS
Desoldering Unit for SVS-500AS TP-20GAS	Heater for Soldering Iron SVS-500H-1
Heater for Desoldering Gun TP-100H	Heater Barrel for Soldering Iron TQ-77HP(S)
Heater Barrel for Desoldering Gun TP-100HP	Spacer for Soldering Iron TQ-77SS
	Collar for Soldering Iron TQ-77NUT

*TP-28GAS Desoldering Unit is not interchangeable with TP-20GAS (SVS-500, SVS-500AS, SVS-550AS)

Iron Unit SVS-800AS, SVS-580AS, SVS-500AS



REPLACEMENT PARTS FOR TP-280AS/200AS

*Desoldering Unit for TP-280AS TP-28GAS	Desoldering Unit for TP-200AS TP-20GAS
Heater TP-100H	Heater Barrel TP-100HP

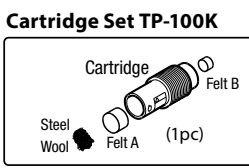
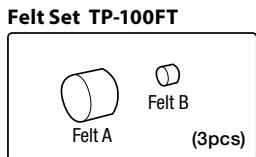
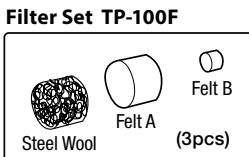
*TP-28GAS Desoldering Unit is not interchangeable with TP-20GAS (TP-200, TP-200AS, TP-250AS)

REPLACEMENT PARTS FOR TP-100/100AS

Heater TP-100H	Heater Barrel TP-100HP
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COMMON PARTS

Filter	
Filter Set (3pcs) TP-100F	Steel Wool Only (3pcs) TP-100UL
Cartridge Set TP-100K	Felt B (10pcs) TP-100RFT
Felt Set (3pcs) TP-100FT	
Cleaning Pin Vice	
Pin vice body (The drill bit is not included.) TP-100PV	Cleaning Pin TP-100CP-07
Drill Bit $\phi 0.7$ mm TP-100DB-07	Cleaning Pin TP-100CP-13
Drill Bit $\phi 0.9$ mm TP-100DB-09	
Drill Bit $\phi 1.4$ mm TP-100DB-14	
Drill Bit $\phi 2.4$ mm TP-100DB-24	



Cleaning Pin Vice body

