### Optional Tips

Optional rips					Unit : mm
T12-B SHAPE-B	T12-B2 SHAPE-0.5B	T12-B3 SHAPE-0.7B	T12-B4 SHAPE-0.4B	T12-BL SHAPE-BL	T12-BC1 SHAPE-1BC T12-BCF1 *
O 90 <sup>2</sup> 7.5	⊙ <sub>90</sub> 5 10	⊙ <sub>901</sub> 5	O 90 5	O 0 12	11.5
T12-BC2 SHAPE-2BC T12-BCF2 *	T12-BC3 SHAPE-3BC T12-BCF3 *	T12-C1 SHAPE-1C	T12-C4 SHAPE-4C T12-CF4 *	T12-D08 SHAPE-0.8D	T12-D12 SHAPE-1.2D
2 35 11.5	23 10	12	0 11.5	0.5 3	0.5 3
T12-D16 SHAPE-1.6D	T12-D24 SHAPE-2.4D	T12-D4 SHAPE-4D	T12-D52 SHAPE-5.2D	T12-DL08 SHAPE-0.8DL	T12-DL12 SHAPE-1.2DL
0.5	0.5 4.1	0.5 4 8.5	1.2 7 8	0.6 3 13	0.6
T12-DL32 SHAPE-3.2DL	T12-DL52 SHAPE-5.2DL	T12-I SHAPE-I	T12-IL SHAPE-IL	T12-ILS SHAPE-ILS	T12-J02 SHAPE-0.2J
0.5	1.2 9 16	O (\$)3 (9.5)	O 12.7	0,5	8 12 12
T12-JL02 SHAPE-0.2JL	T12-JS02 SHAPE-0.2JS	T12-K SHAPE-K	T12-KF SHAPE-KF	T12-KL SHAPE-KL	T12-KR SHAPE-KR
9.3	\$ 7.9 2 7.9	2 15 15	2.4 55 17	1.5 55	1.5
T12-KU SHAPE-KU	T12-1201 QUAD 13.6 x 8.5	T12-1202 QUAD 10.3 x 10.3	T12-1203 QUAD 12.8 x 12.8	T12-1204 QUAD 17.9 x 17.9	T12-1205 QUAD 23.4 x 17.3
1.2 45	13.6 14.8	10.3	12.8	17.9 19	23.4 24.6
T12-1206 QUAD 22.5 x 16.5	T12-1207 QUAD 15.5 x 15.5	T12-1208 QUAD 15.8 x 15.8	T12-1209 QUAD 8.4 x 8.4	T12-1001 TUNNEL 5.1 x 4.6	T12-1002 TUNNEL 5.1 x 10.4
22.5 23.7	15.5 16.7	15.8 17	8.4 9.6	(6 23 ) (6 23 )	10.4
T12-1003 TUNNEL 9.5 x 18.3	T12-1004 TUNNEL 9.5 x 15.8	T12-1005 TUNNEL 9.5 x 13.2	T12-1006 TUNNEL 6.9 x 11.4	T12-1007 TUNNEL 7.9 x 18.8	T12-1008 TUNNEL 19.5 x 10.2
183	15.8	132 32 55	11.4 23	18.8	10.2
T12-1009 TUNNEL 13.4 x 20.5	T12-1010 TUNNEL 19.5 x 12	T12-1401 SPATULA 10.4	T12-1402 SPATULA 15.7	T12-1403 SPATULA 21.2	T12-1404 SPATULA 25
20.5	0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10.4 7.2	15.7 72	212 7.2	7.2 9.5
T12-1405 SPATULA 32	T12-1406 SPATULA 40	T12-BZ SHAPE-B(Z)	T12-B2Z SHAPE-0.5B(Z)	T12-BC1Z SHAPE-1BC(Z) T12-BCF1Z *	T12-BC2Z SHAPE-2BC(Z) T12-BCF2Z *
32 72 3.5	40 7.2 10.5	O 992 8	O 905 10	22 10	23 10
T12-BCM2 SHAPE-2BC Bevel with indent **	T12-BC3Z SHAPE-3BC(Z) T12-BCF3Z *	T12-BCM3 SHAPE-3BC Bevel with indent **	T12-C4Z SHAPE-4C(Z) T12-CF4Z *	T12-D12Z SHAPE-1.2D(Z)	T12-D16Z SHAPE-1.6D(Z)
250	2 10	970 10	3 10	9 0.5 4 10	0.5 5
T12-D24Z SHAPE-2.4D(Z)	T12-D4Z SHAPE-4D(Z)	T12-KFZ SHAPE-KF(Z)	T12-KRZ SHAPE-KR(Z)	T12-WB2 SHAPE-0.5WB	T12-WD08 SHAPE-0.8WD
0.5	0.5 4	2.4 45 17	2 352	0,	9 0.5 3.5
T12-WD12 SHAPE-1.2WD	T12-WD16 SHAPE-1.6WD	T12-WD52 SHAPE-5.2WD	T12-WI SHAPE-WI	SHAPE BC SHAPE BC	SHAPE C SHAPE D SHAPE I
0.5 3 11	0.5 3.5	1.2 7 10	0,	SHAPE J SHAPE K  SMD TYPE(SPATULA) SPECIAL	SMD TYPE(QUAD) SMD TYPE(TUNNEL)  APPLICATIONS TYPE HEAVY DUTY TYPE
1 - 1 1 11 1	o only				

<sup>★</sup>Tinned on the soldering surface only. ★★The part numbers T12-BCM2 and T12-BCM3 are not available for sale or use in the U.S.A.

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4-5, SHIOKUSA 2-CHOME, NANIWA-KU, OSAKA, 556-0024 JAPAN TEL:+81-6-6561-3225 FAX:+81-6-6561-8466 http://www.hakko.com E-mail:sales@hakko.com

**OVERSEAS AFFILIATES** 

**HAKKO CORPORATION** 

**PHAK(O** 

HONG KONG
HAKKO DEVELOPMENT CO., LTD.
ROOM 1504, EASTERN HARBOUR CENTRE,
28 HOI CHAK STREET, QUARRY BAY, HONG KONG.
TEL: 2811-5588 FAX: 2590-0217
http://www.hakko.com.hk
E-mail:info@hakko.com.hk

SINGAPORE
HAKKO PRODUCTS PTE., LTD.

1, GENTING LINK #02-04, PERFECT INDUSTRIAL
BUILDING, SINGAPORE 349518
TEL: 6748-2277 FAX: 6744-0033
http://www.hakko.com.sg
E-mail:sales@hakko.com.sg

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CA00252BbBa001 Oct. 2006



## The standard model for lead-free soldering

# HAKOFX-951 ESD SOLDERING STATION



## HAKKO's advanced lead-free soldering model added safe function and upgrading performance.

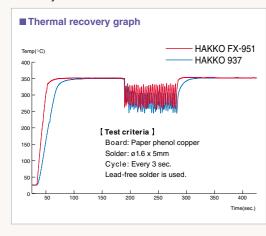


### **Basic functions**

### **Excellent thermal control**

Shows great thermal recovery and thermal accuracy

The composite tip combining heating element and sensor allows great thermal recovery and thermal accuracy.



### User-friendly design

Space-saving vertical design allows more space on The angle can be freely changed.

The neat and compact design conforms to the work space more easily. Dimensions: 80(W) x 130 (H) x 131 (D) mm

User-friendly iron holder The angle can be adjusted

to suit the individual working

The unit can be used with HAKKO 599B

### Thermal control function

- The temperature setting can be locked with the control card.
- An alarm can be set to inform reaching the preset lower limit.
- The digital display makes it easier to offset the temperature.

#### Safe design

- ESD safe by design.
- Various kinds of information by a buzzer or display.

### Standard 84 types of tip variations

■ The standard 84 types of tips are available to suit various kinds of

### **New functions**



### Lock-type sleeve

The lock-type sleeve enables it to be firmly secured. When replacing a tip, a clicking sound shows that it is inserted fully

< Replacement of tip and sleeve assembly >



Pull out in the arrow's direction Pull out the tip while pressing on both locks.



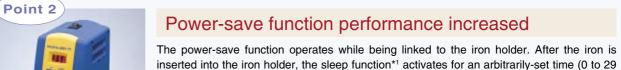
Insert a replacement tip. When the tip is fully inserted / When also replacing a sleeve.



### Sleeve assembly in 4-color

Yellow, blue, orange and green color sleeve assemblies are available. Workability increases if sleeves are changed according to the tip shape and job application.

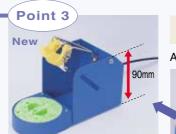




min.) and the tip temperature will decrease to 200°C. After 30 minutes have

elapsed, the automatic power-off function\*2 activates.

\*1 To use sleep function, it is necessary to set the desired time arbitrarily in advance. \*2 In order to use the automatic power shut-off function, it is necessary to set it in advance



### Solder-splashing prevention

A higher side plate of the iron holder prevents solder from splashing when placing the tip.

#### [ For customers using the former FX-951 unit ]

- In the former FX-951 station, FM-2028/lock-type sleeve can be used. (A new sleeve assembly cannot be used interchangeably.)

  The former FX-951 station cannot be connected to the new iron holder/FH-200.

  A new sleeve assembly is available for the FM-2028 soldering iron only.

#### ■ Specifications

#### ● HAKKO FX-951 soldering station

Power consumption	75W	
Temperature range	200 - 450°C	
Temperature stability	±5°C	

Output	24V
Dimensions	80(W) x 130(H) x 131(D)mm
Weight	1.2kg

### ● HAKKO FM-2028 soldering iron

Power consumption	70W		
Tip to ground resistance	< 2		
Tip to ground potential	< 2mV		
Length of cord	1.2m		
Total Length (w/o cord)	188mm with 2.4D tip		
Weight (w/o cord)	30g with 2.4D tip		

NOTE: The temperature were measured using the HAKKO 191 \*Tip is an optional part.

### ■ Packing List

Station
Iron (FM-2028)·····
Power cord·····
Iron holder (FH-200)·····
Control card·····
Connecting cable
Heat resistant pad ······

### Optional Tips

Optional rips					Unit : mm
T12-B SHAPE-B	T12-B2 SHAPE-0.5B	T12-B3 SHAPE-0.7B	T12-B4 SHAPE-0.4B	T12-BL SHAPE-BL	T12-BC1 SHAPE-1BC T12-BCF1 *
O 90 <sup>2</sup> 7.5	⊙ <sub>90</sub> 5 10	⊙ <sub>901</sub> 5	O 90 5	O 0 12	11.5
T12-BC2 SHAPE-2BC T12-BCF2 *	T12-BC3 SHAPE-3BC T12-BCF3 *	T12-C1 SHAPE-1C	T12-C4 SHAPE-4C T12-CF4 *	T12-D08 SHAPE-0.8D	T12-D12 SHAPE-1.2D
2 35 11.5	23 10	12	0 11.5	0.5 3	0.5 3
T12-D16 SHAPE-1.6D	T12-D24 SHAPE-2.4D	T12-D4 SHAPE-4D	T12-D52 SHAPE-5.2D	T12-DL08 SHAPE-0.8DL	T12-DL12 SHAPE-1.2DL
0.5	0.5 4.1	0.5 4 8.5	1.2 7 8	0.6 3 13	0.6
T12-DL32 SHAPE-3.2DL	T12-DL52 SHAPE-5.2DL	T12-I SHAPE-I	T12-IL SHAPE-IL	T12-ILS SHAPE-ILS	T12-J02 SHAPE-0.2J
0.5	1.2 9 16	O (\$)3 (9.5)	O 12.7	0,5	8 12 12
T12-JL02 SHAPE-0.2JL	T12-JS02 SHAPE-0.2JS	T12-K SHAPE-K	T12-KF SHAPE-KF	T12-KL SHAPE-KL	T12-KR SHAPE-KR
9.3	\$ 7.9 2 7.9	2 15 15	2.4 55 17	1.5 55	1.5
T12-KU SHAPE-KU	T12-1201 QUAD 13.6 x 8.5	T12-1202 QUAD 10.3 x 10.3	T12-1203 QUAD 12.8 x 12.8	T12-1204 QUAD 17.9 x 17.9	T12-1205 QUAD 23.4 x 17.3
1.2 45	13.6 14.8	10.3	12.8	17.9 19	23.4 24.6
T12-1206 QUAD 22.5 x 16.5	T12-1207 QUAD 15.5 x 15.5	T12-1208 QUAD 15.8 x 15.8	T12-1209 QUAD 8.4 x 8.4	T12-1001 TUNNEL 5.1 x 4.6	T12-1002 TUNNEL 5.1 x 10.4
22.5 23.7	15.5 16.7	15.8 17	8.4 9.6	(6 23 ) (6 23 )	10.4
T12-1003 TUNNEL 9.5 x 18.3	T12-1004 TUNNEL 9.5 x 15.8	T12-1005 TUNNEL 9.5 x 13.2	T12-1006 TUNNEL 6.9 x 11.4	T12-1007 TUNNEL 7.9 x 18.8	T12-1008 TUNNEL 19.5 x 10.2
183	15.8	132 32 55	11.4 23	18.8	10.2
T12-1009 TUNNEL 13.4 x 20.5	T12-1010 TUNNEL 19.5 x 12	T12-1401 SPATULA 10.4	T12-1402 SPATULA 15.7	T12-1403 SPATULA 21.2	T12-1404 SPATULA 25
20.5	0 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	10.4 7.2	15.7 72	212 7.2	7.2 9.5
T12-1405 SPATULA 32	T12-1406 SPATULA 40	T12-BZ SHAPE-B(Z)	T12-B2Z SHAPE-0.5B(Z)	T12-BC1Z SHAPE-1BC(Z) T12-BCF1Z *	T12-BC2Z SHAPE-2BC(Z) T12-BCF2Z *
32 72 3.5	40 7.2 10.5	O 992 8	O 905 10	22 10	23 10
T12-BCM2 SHAPE-2BC Bevel with indent **	T12-BC3Z SHAPE-3BC(Z) T12-BCF3Z *	T12-BCM3 SHAPE-3BC Bevel with indent **	T12-C4Z SHAPE-4C(Z) T12-CF4Z *	T12-D12Z SHAPE-1.2D(Z)	T12-D16Z SHAPE-1.6D(Z)
250	2 10	970 10	3 10	9 0.5 4 10	0.5 5
T12-D24Z SHAPE-2.4D(Z)	T12-D4Z SHAPE-4D(Z)	T12-KFZ SHAPE-KF(Z)	T12-KRZ SHAPE-KR(Z)	T12-WB2 SHAPE-0.5WB	T12-WD08 SHAPE-0.8WD
0.5	0.5 4	2.4 45 17	2 352	0,	9 0.5 3.5
T12-WD12 SHAPE-1.2WD	T12-WD16 SHAPE-1.6WD	T12-WD52 SHAPE-5.2WD	T12-WI SHAPE-WI	SHAPE BC SHAPE BC	SHAPE C SHAPE D SHAPE I
0.5 3 11	0.5 3.5	1.2 7 10	0,	SHAPE J SHAPE K  SMD TYPE(SPATULA) SPECIAL	SMD TYPE(QUAD) SMD TYPE(TUNNEL)  APPLICATIONS TYPE HEAVY DUTY TYPE
1 - 1 1 11 1	o only				

<sup>★</sup>Tinned on the soldering surface only. ★★The part numbers T12-BCM2 and T12-BCM3 are not available for sale or use in the U.S.A.

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4-5, SHIOKUSA 2-CHOME, NANIWA-KU, OSAKA, 556-0024 JAPAN TEL:+81-6-6561-3225 FAX:+81-6-6561-8466 http://www.hakko.com E-mail:sales@hakko.com

**OVERSEAS AFFILIATES** 

**HAKKO CORPORATION** 

**PHAK(O** 

HONG KONG
HAKKO DEVELOPMENT CO., LTD.
ROOM 1504, EASTERN HARBOUR CENTRE,
28 HOI CHAK STREET, QUARRY BAY, HONG KONG.
TEL: 2811-5588 FAX: 2590-0217
http://www.hakko.com.hk
E-mail:info@hakko.com.hk

SINGAPORE
HAKKO PRODUCTS PTE., LTD.

1, GENTING LINK #02-04, PERFECT INDUSTRIAL
BUILDING, SINGAPORE 349518
TEL: 6748-2277 FAX: 6744-0033
http://www.hakko.com.sg
E-mail:sales@hakko.com.sg

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## The standard model for lead-free soldering

# HAKOFX-951 ESD SOLDERING STATION



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