#### HAKOFX-780 · FX-781

#### ■ Performance table of FX-780

N <sub>2</sub> conce Input compression air pressure (MPa)	entration (%)	99.9	99.5	99.0	98.0	97.0	96.0	95.0	90.0
0.3		0.15	0.37	0.48	0.66	0.88	1.1	1.3	2.6
0.4	Output amount (L/min. at 25°C)	0.24	0.57	0.77	1.1	1.4	1.7	2.0	4.4
0.5		0.35	0.75	1.1	1.5	1.9	2.2	2.9	5.9
0.6		0.48	0.97	1.3	1.8	2.4	3.1	3.5	7.5
0.7		0.55	1.2	1.6	2.2	3.1	3.7	4.2	9.2

#### ■ Performance table of FX-781

Input compression air pressure (MPa)	entration (%)	99.9	99.5	99.0	98.0	97.0	96.0	95.0	90.0
0.3	Output amount (L/min. at 25°C)	0.28	0.55	0.84	1.1	1.4	1.7	2.1	4.8
0.4		0.49	0.9	1.3	1.8	2.3	2.8	3.4	7.8
0.5		0.7	1.2	1.8	2.4	3.2	4.0	4.8	10.9
0.6		0.92	1.7	2.3	3.2	4.2	4.9	6.1	13.8
0.7		1.1	2.1	2.8	4.0	5.1	6.3	7.6	17.1

#### ■ Specifications

— <b>-</b>   -   -   -   -   -   -   -   -   -	•				
Part No.	FX780-01	FX781-81			
Air supply pressure	0.3 to	0.7 MPa			
Concentration of generated N <sub>2</sub>		(Max.)			
Amount of generated N2	1.5 L/min. (When compressed air of 0.5 MPa is supplied at 25°C, the concentration of generated nitrogen is 98%)	2.4 L/min. (When compressed air of 0.5 MPa is supplied at 25°C, the concentration of generated nitrogen is 98%)			
External dimensions (w/o sockets and valve)	73 (W) x 282(H) x 71(L) mm	73 (W) x 407 (H) x 71(L) mm			
Weight (w/o racks)	1.5 kg	2 kg			

#### ■ Packing List for FX-780

HAKKO FX-780 N₂ generator ·····	 1
Backs for station	 2

#### ■ Packing List for FX-781

HAKKO FX-780 N <sub>2</sub> generator ······	1
Racks for station	4
Fitting	1

#### HAKOFX-791

#### ■ Specifications

Part No.	FX791-01	
Outer dimensions	70(W) x 121(H) x 134(D) mm	
Weight	600 g	
Pressure guage for discharged gas	0.2 MPa (2.0 kgf/cm <sup>2</sup> )	
Gas flow	0.25 to 2.5 L/min.	

■ Packing List
HAKKO FX-791 N₂ station-



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Supporting lead-free soldering

# N<sub>2</sub> system

For lead-free soldering

N<sub>2</sub> gas and preheating effect improves the solderbility greatly!



# The lineup for the N<sub>2</sub> system has greatly improved design and cost performance

### Features of the HAKKO N<sub>2</sub> system

#### **Preheating effect**

The preheating effect is achieved by passing Nitrogen gas along the heating element in the hand piece. Soldering can be done on multilayer PWB and high density PWB sensitive to heat without raising the temperature of the tip excessively, even when the melting point of lead-free solder is high.

#### Improvement of wettability and spreadability

By using the HAKKO N2 system, the wetting and spreading are excellent for eutectic solder, lead-free solder and high-temperature solder, comparing with our conventional soldering iron.

#### **Preventing oxidation**

Oxidization of solder and soldering tip can be prevented by using Nitrogen gas, which passes along the nozzle assembly uniformly.

#### Space saving

In case of setting with HAKKO FX-951, the dimensions are 163(W) x 282(H) x 131(D)mm In case of setting with HAKKO FM-203, the dimensions are 193(W) x 282(H) x 190(D)mm



HAK(0FX-791

N<sub>2</sub> station

#### Compact N<sub>2</sub> flow meter

This meter is very compact and can be installed in a minimal space next to the soldering station. The flow meter has a range between 0.25 to 2.5 L/min, allowing easy control. (Recommended flow rate is 0.5 L/min. to 1.5 L/min. Adjust the flow rate depending on the tip shape.)

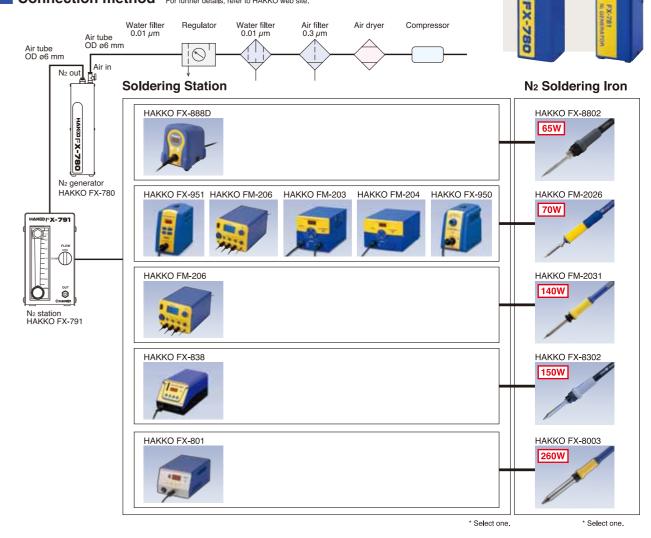


# ● Setting example with FX-951 ※HAKKO FX-951

# HAK(0FX-780·FX-781 ■ Compact high-performance N₂ generator - Highest concentration of nitrogen gas: 99.9%

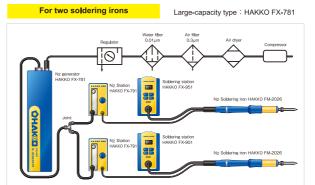
- Non-electrical compressed air delivers N2 gas
- HAKKO FX-781 large-capacity type accepts 2 soldering irons and capable of
- Connection method \* For further details, refer to HAKKO web site.

creating high concentration and large flow of N2 gas.

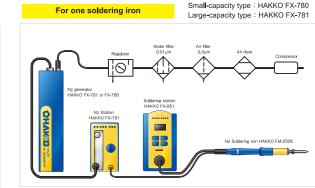


N<sub>2</sub> generator

**WHAK** 







\*It is capable to supply high concentration Nitrogen of 99.9% at the output rate approx. 1 L/min. (at air supply pressure of 0.7 MPa)