

SOLDERING IRON[LEAD-FREETEMPERATURE-CONTROLLED STATIONS]

Nitrogen improves solder wetting and fillet shape.

TEMPERATURE-CONTROLLED LEAD-FREE NITROGEN SOLDERING STATION RX-802ASPH

RoHS **ANTI** **LEAD**
FREE



CE

Tip not included.

New Soldering Iron Stand
More stable, better operation

CALIBRATION SERVICES
We provide calibration and/or certification for a fee.

All-in-one N2 Nozzle Tips (PAT.)

Each RX-80HRT tip is equipped with a slim N2 nozzle.



Slim N2 Nozzles

φ6.4 mm slim N2 nozzles. Get into small spaces easily.

Light and Easy-to-use Handpiece

Handpiece weighs only 33g. So light it's hard to believe it's for a Nitrogen Station!

Flexible N2 Induction Tube

Super-flexible. Allows free maneuvering of handpiece.

Special Tool for Easy Tip Replacement

Comes with a handy tool to change a hot tip easily.

IMPROVING LEAD-FREE SOLDERING

Advantages of the Preheat Effect

- Allows you to use lead-free solder (which has a high melting point) at a temperature close to that of a Eutectic Sn-Pb tip.
- Minimal tip temperature reduction shortens soldering time significantly.
- Reduces splashing or component damage by heat shock.

Advantages of Preheating with Nitrogen

- Reduces oxidation of the solder area and the tip.
- Improves solder wetting and fillet shape.

Normal soldering iron



A tip alone heats only the solder joint area, so the PCB drains the heat. Solder wetting may also be poor.

Nitrogen soldering iron



Nitrogen preheats the whole soldering area. This is particularly effective on a multi-layered PCB copper pattern. Better solder wetting.

INCLUDED

Control Unit 	Iron Unit RX-80GASPH  Tip is not included	Soldering Iron Stand S T-2 2  Brass Wool & Sponges included	Tip changing tool RX-80PHC 
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PRODUCT SPECIFICATIONS / FUNCTIONS

SPECIFICATIONS

Model	RX-802ASPH
Voltage	110 V, 120 V, 220 V, 230 V, 240 VAC 50 / 60 Hz
Power Consumption	80 W
Power Cord Length	1.2 m inlet type
Temperature Setting Range	50–450°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	Over 100 MΩ (500 V DC)
Applicable Iron Units	N ₂ Gas Adaptive Iron Unit RX-80GASPH (included) 80 W Standard Iron Unit *RX-80GAS (sold separately) Micro Iron Unit *RX-81GAS (sold separately) Soldering Tweezers Unit *XST-80G (sold separately) Iron Unit (RX-80GASPH)
Accessories	Soldering Iron Stand (ST-22)

For basic performance, please refer to RX-802AS, page 18.

The Iron Unit RX-80GAS / RX-81GAS / XST-80G cannot be used as a N₂ soldering iron.

Control Unit

Output Voltage	24 V AC
Dimensions	115 (W) × 98 (H) × 146 (D) mm
Weight	1.8 kg

Iron Unit

Model	RX-80GASPH
Iron Unit	N ₂ Gas Adaptive Iron Unit
Voltage / Consumption	24 V AC / 72 W
Ground Resistance	Less than 2 Ω
Leak Voltage	Less than 2 mV
Heater	Nichrome heater
Gas Supply Pressure	0.2 MPa (2 kgf / cm ²)
Cord Length	1.2 m
Length	158 mm (with RX-80HRT-PHB)
Weight	33 g (with RX-80HRT-PHB)

Equivalent to IPC/EIA J-STD-001C

*The length does not include the cord bushing. The weight does not include the cord.

For replacement tips, refer to p. 29

For Soldering Tweezers XST-80G, refer to p. 56

REPLACEMENT PARTS / OPTIONS

RX-80PHB Tip is not included	RX-80GAS Tip is not included Non-N ₂ , also supported	RX-81GAS Tip is not included Non-N ₂ , also supported	RX-80PHB N ₂ O-ring	RX-80PHC Tip changing tool	ST-53SP Soldering Iron Stand Sponge	ST-40BW Soldering Iron Stand Cleaner (2pcs./set)
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A compact N₂ station combining N₂ generator and controller.

N₂ STATION
NC-100R

RoHSANTI

The special separation membrane separates the nitrogen from the compressed air produced by a compressor.

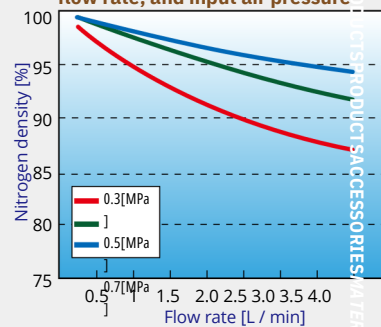
Maintains a stable output pressure (0.2 MPa). Two-tiered setting with RX-802ASPH achieves efficient work in smaller space.



NITROGEN GENERATION DENSITY

(According to in-house measuring method)

The relation between Nitrogen density, flow rate, and input air pressure



MPa	0.5	1.0	1.5	2.0	2.5	3.0	3.5	4.0
0.3	98.7	96.6	94.5	92.0	90.8	89.7	88.5	87.5
0.5	99.8	99.2	98.0	96.8	95.7	94.8	93.8	92.6
0.7	99.9	99.7	99.2	98.3	97.7	97.1	96.3	95.4

An example of measured values

■ SET-UP EXAMPLE

RX-802ASPH + NC-100R



SPECIFICATIONS

Model	NC-100R
Input pressure	0.3–0.7 MPa
Input temperature	5–50°C
Nitrogen generation density	Maximum 99.5% (0.7 MPa, 0.5 L / min)
Recommended Nitrogen generation flow rate	1.0 L / min
Flow meter	0.5–4.0 L / min
Dimensions	118 (W) × 112 (H) × 185 (D) mm (not including protruding parts)
Weight	2 kg
Required Hose Dimension	Input: Outer diameter φ6 mm Output: Outer diameter φ4 mm