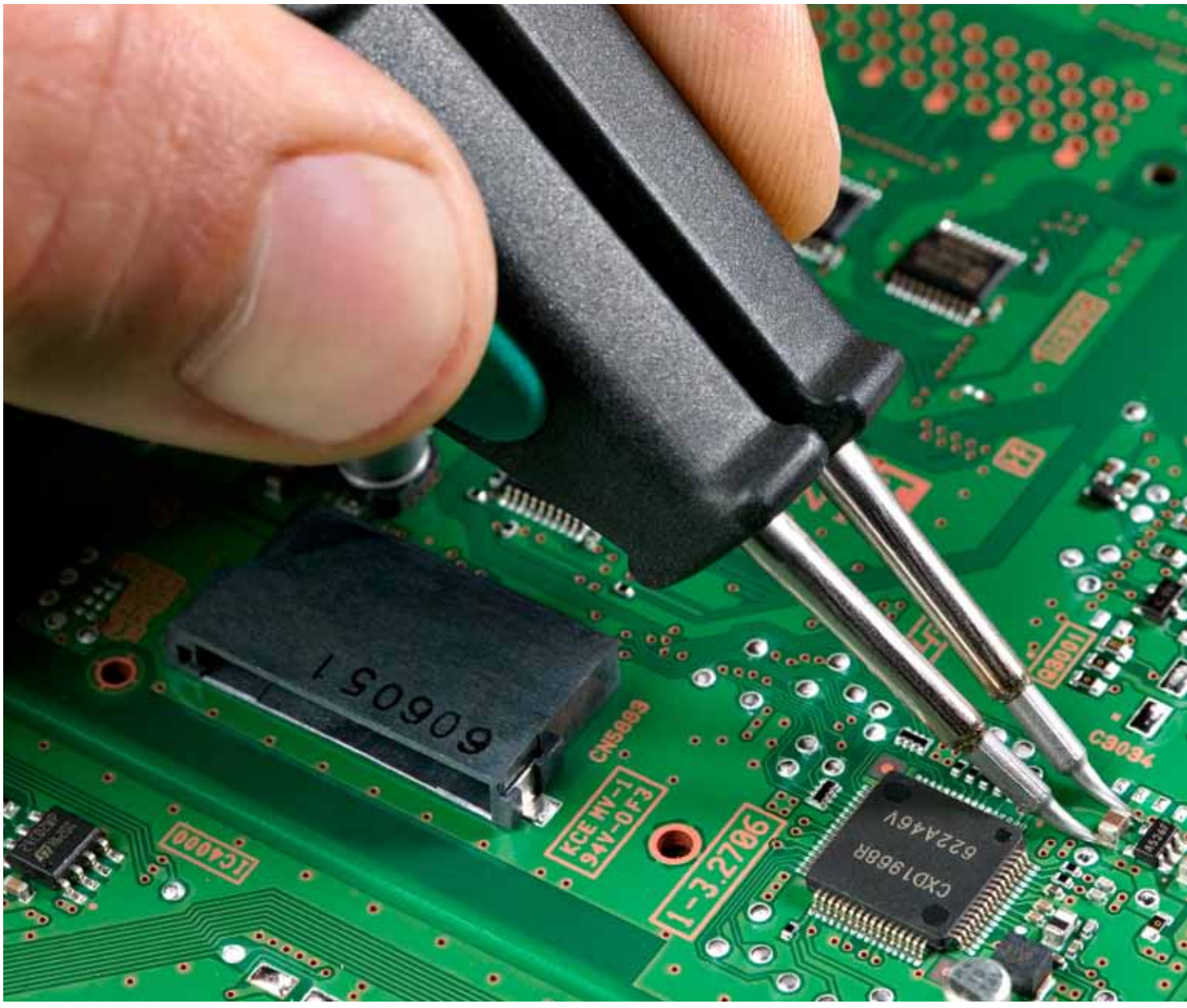

# SPECIFICATION SHEETS

REV:12 / APRIL'10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# BT Soldering stations

Analogue stations with dial for temperature selection.
You can modify parameters of the initial configuration with console Ref. AC-A.

## BT-BA Soldering station

General electronics jobs.

**Includes** Control unit BT
Handpiece T245-A
Cartridges C245-003 & C245-007

## BT-SA Soldering station

For high precision solder joints.

**Includes** Control unit BT
Handpiece T210-A
Cartridges C210-001 & C210-008

## Technical specifications

| Control unit | BT | |
|---|---|---|
| Weight | 2,4 Kg | 5.3 lb |
| Size: Width:<br>Height:<br>Depth: | 155 mm<br>115 mm<br>155 mm | 6.1”<br>4.5”<br>6.1” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 100 - 400 ºC | 210 - 750 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5 Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | BT-2BA/BT-2SA |
| 120V | BT-1BA/BT-1SA |

## Connectable Tools:

| Tool | Cartridge |
|---|---|
| T210-A Handpiece | C210 |
| T245-A Handpiece | C245 |
| T245-CA Comfort Handpiece | C245 |
| T245-FAA Handpiece with set screw | C245 |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# BD Soldering stations

Digital soldering stations with 2 lines display and parameters modification menu for the inital configuration of the station.

## BD-BA Soldering station

General electronics jobs.

**Includes** Control unit BD
Handpiece T245-A
Cartridges C245-003 & C245-007

## BD-SA Soldering station

For high precision solder joints.

**Includes** Control unit BD
Handpiece T210-A
Cartridges C210-001 & C210-008

## Technical specifications

| Control unit | BD | |
|---|---|---|
| Weight | 2,4 Kg | 5.3 lb |
| Size: Width:<br>Height:<br>Depth: | 155 mm<br>115 mm<br>155 mm | 6.1”<br>4.5”<br>6.1” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5 Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | BD-2BA/BD-2SA |
| 120V | BD-1BA/BD-1SA |

## Connectable Tools:

| Tool | Cartridge |
|---|---|
| T210-A Handpiece | C210 |
| T245-A Handpiece | C245 |
| T245-CA Comfort Handpiece | C245 |
| T245-FAA Handpiece with set screw | C245 |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000,
ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1,
EN 55014-2, EN 61000-3-2, EN 61000-3-3

# CD Soldering stations

Digital soldering stations with digital display and parameters modification menu for the inital configuration of the station.

## CD-BA Soldering station

General electronics jobs.

**Includes** Control unit CD
Handpiece T245-A
Cartridges C245-003 & C245-007

## CD-SA Soldering station

For high precision solder joints.

**Includes** Control unit CD
Handpiece T210-A
Cartridges C210-001 & C210-008

## Technical specifications

| Control unit | CD | |
|---|---|---|
| Weight | 2,4 Kg | 5.3 lb |
| Size: Width:<br>Height:<br>Depth: | 150 mm<br>165 mm<br>145 mm | 5.9”<br>6.5”<br>5.7” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5 Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | CD-2BA/CD-2SA |
| 120V | CD-1BA/CD-1SA |

## Connectable Tools:

| Tool | Cartridge |
|---|---|
| T210-A Handpiece | C210 |
| T245-A Handpiece | C245 |
| T245-CA Comfort Handpiece | C245 |
| T245-FAA Handpiece with set screw | C245 |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000,
ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1,
EN 55014-2, EN 61000-3-2, EN 61000-3-3

# CF-A Soldering feed stations

Digital stations with digital display and menu that allows the parameters modification of the initial configuration of the station.

Allows the configuration of the following parameters;
- Fixing the working temperature
- Modification of “sleep” temperature
- Selection of Hibernation mode
- Protection PIN
- Counters, working hours, cycles etc..
- Calibration of temperatures

Designed for repetitive soldering or when you need a free hand.
Equiped with solder feed iron of 1mm diameter.

**Includes** CF control unit
AP-A Solder feed iron.
C130-403 cartridge.

## Technical specifications

| Control unit | CF | |
|---|---|---|
| Weight | 2,4 Kg | 5.3 lb |
| Size: Width:<br>Height:<br>Depth: | 150 mm<br>170 mm<br>145 mm | 6.1”<br>6.7”<br>5.7” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5 Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | CF-2A |
| 120V | CF-1A |

## Connectable Tools:

| Tool | Cartridge |
|---|---|
| AP-A Solder feed iron | C130 |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# CP-A Micro tweezer Station

Digital stations with digital display and menu that allows the parameters modification of the initial configuration of the station.

Allows the configuration of the following parameters;
- Fixing the working temperature
- Modification of “sleep” temperature
- Selection of Hibernation mode
- Protection PIN
- Counters, working hours, cycles etc..
- Calibration of temperatures

For soldering and desoldering SMD components with Micro-Tweezer.

**Includes** Control unit CP
PA-A micro hot tweezers
2 x C120-002 cartridge.


## Technical specifications

| Control unit | CP | |
|---|---|---|
| Weight | 2,4 Kg | 5.3 lb |
| Size: Width:<br>Height:<br>Depth: | 150 mm<br>175 mm<br>145 mm | 5.9”<br>6.9”<br>5.7” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 2 x 40 W / 2 x 40 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5 Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| **Voltage:** | **Reference:** |
|---|---|
| 230V | CP-2A |
| 120V | CP-1A |

## Connectable Tools:

| Tool | Cartridge |
|---|---|
| PA-A Micro hot tweezers | C120 |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# CS/CV Desoldering stations

Digital stations with digital display and menu that allows the parameters modification of the initial configuration of the station.

Allows the configuration of the following parameters;
- Fixing the working temperature
- Modification of “sleep” temperature
- Selection of Hibernation mode
- Protection PIN
- Counters, working hours, cycles etc..
- Calibration of temperatures

Desoldering station with pneumatic or electrical suction system.

## CS-A Electric system

Electrical suction system feeded by suction module.

**Includes** Control unit CSV
DS-A Micro desoldering iron with tip C36-003
MS-A Electric vacuum pump

## CV-A Pneumatic system

Pneumatic suction system feeded by suction module.

**Includes** Control unit CSV
DS-A Micro desoldering iron with tip C36-003
MV-A Pneumatic suction system feeded by compress air Max. 6 bar

## Technical specifications

| | | |
|---|---|---|
| Control unit | CSV | |
| Weight | 2,4 Kg | 5.3 lb |
| Size: Width:<br>Height:<br>Depth: | 150 mm<br>170 mm<br>145 mm | 5.9”<br>6.7”<br>5.7” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 40 W / 40 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 300 - 450 ºC | 572 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5 Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | CS-2A/CV-2A |
| 120V | CS-1A/CV-1A |

### Meets Standards:

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

## Connectable Tools:

| Tool | Tips |
|---|---|
| DS-A Micro desoldering iron | C360 tips |
| with MS-A Electric suction system or MV-A | Air presure suction system |

# DIT and DIR Soldering stations

## DIT-A Soldering station 230V

For general electronic applications.

**Includes** Control unit DI-A
Stand AD-SA
Soldering iron T245-A
Cartridge C245-003

## DIR-A Soldering station

For high and medium precision solder-joints.

**Includes** Control unit DI-A
Stand AD-SA
Soldering iron T210-A
Cartridge C210-001


## Technical specifications

| Control unit | DI | |
|---|---|---|
| Weight | 2 Kg | 4.4 lb |
| Size: Width:<br>Height:<br>Depth: | 90 mm<br>105 mm<br>180 mm | 3.5”<br>4.1”<br>7” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5 Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | DIT-2A/DIR-2A |
| 120V | DIT-1A/DIR-1A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

## Connectable Tools DIT:

| Tool | Stand | Cartridge |
|---|---|---|
| T245-A Handpiece | ADB-SA | C245 |

## Connectable Tools DIR:

| Tool | Stand | Cartridge |
|---|---|---|
| T210-A Handpiece | ADS-SA | C210 |

# DIS, DIV and DSS Desoldering Station


## DIS-A Desoldering station

For desoldering insertion components and clean circuits with SMD.

**Includes** Control unit DI-A
Desoldering iron with tip C560-003
Stand DR-SA
MS-A Suction module electric system
Accessories set

## DIV-A Desoldering station

For desoldering insertion components and clean circuits with SMD.

**Includes** Control unit DI-A
Desoldering iron with tip C560-003
Stand DR-SA
MV-A Pneumatic suction system
Accessories set

## DSS-A Micro desoldering station

For desoldering high and medium precision insertion components.

**Includes** Control unit DI-A
Desoldering iron DS-A with tip C360-004
Stand DS-SA
MS-A Suction module electric system
Accessories set

## Technical specifications

| Control unit | DI | |
|---|---|---|
| Weight | 2 Kg | 4.4 lb |
| Size: Width:<br>Height:<br>Depth: | 90 mm<br>105 mm<br>180 mm | 3.5”<br>4.1”<br>7” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | DIS-2A/DSS-2A |
| 120V | DIS-1A/DSS-1A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

## Connectable Tools:

| Tool | Tips |
|---|---|
| DS-A Micro desoldering iron | C360 tips |
| DR-A desoldering iron | C560 tips |
| with MS-A Electric desoldering pump or MV-A Air presure desoldering pump | |

# DIN Nitrogen soldering Station

## DIN-A Nitrogen soldering

The DIN-A Nitrogen station. combines 2 ways of transferring heat:
- Firstly by direct contact between the solder tip and the joint just like any soldering iron.
- Secondly as the extra heat radiated from the tip, its residual heat is transferred to the gas, providing unparalleled thermal efficiency.

**Includes** DI-A control unit
Stand DN-SA
Nitrogen handpiece T245-NA with C245-003

MN-A Nitrogen flow regulator
N2 Flow regulation: 0,5 - 3,5 LPM at 5 Bar.
Max. Pressure: 6 Bar.

**An external nitrogen circuit is needed or the nitrogen generator from JBC GN-A*


## Technical specifications

| | | |
|---|---|---|
| Control unit | DI | |
| Weight | 2 Kg | 4.4 lb |
| Size: Width:<br>Height:<br>Depth: | 90 mm<br>105 mm<br>180 mm | 3.5”<br>4.1”<br>7” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | DIN-2A/DIN-2A |
| 120V | DIN-1A/DIN-1A |

### Meets Standards:

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

## Connectable Tools:

| Tool | Stand | Cartridge |
|---|---|---|
| T245-NA Nitrogen Handpiece with MN-A Nitrogen control module | DN-SA | C245 |

# DDST Rework station

The DDST-A station offers the complete solution for the fast and safe circuit repair with insertion components by solder intake. It's also necessary for cleaning the pads in SMD circuits.

Features all the benefits from the JBC technology, such as fast temperature recovery, the sleep mode, small footprint, lightweight tools and manageability of the soldering and desoldering irons.

Apart from the standard configuration, solders and desolders, this station allows the connection of any JBC series tool in both outputs but only admits one desoldering iron.

## DDST-A Soldering & desoldering station

**Includes** Control unit DD-A
Handpiece T245-A
Cartridge C245003
Desoldering DR-A
Tip C560-003
Stand AD-SA
Stand DR-SA
Suction electrical system MS-A
Set of tools and accessories


## Technical specifications

| | | |
|---|---|---|
| Control unit | DD | |
| Weight | 3,5 Kg | 7,7 lb |
| Size: Width:<br>Height:<br>Depth: | 145 mm<br>120 mm<br>225 mm | 5.7"<br>4.7"<br>8.9" |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 2 x 4 W / 2 x 10 W / 2 x 75 W / 2 x 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | DDST-2A |
| 120V | DDST-1A |

### Meets Standards:

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

## Connectable Tools:

| Tool | Stand | Cartridge / Tip |
|---|---|---|
| DR-A Desoldering Iron<br>with MS-A Electric desoldering module | DR-SA | C560 Tips |
| T245-A Handpiece | DN-SA | C245 |

# JT High power hot air station

The JT-A is a high power hot air station used for desoldering all types of SMDs.

Its powerful heater enables quick and safe desoldering of even the biggest QFPs and PLCCs. In addition, it desolders small and medium sized BGA's in a very reduced time span.

Digital read-out temperature allows more precision and tool control.

The system, exclusive to JBC, uses extractors/protectors and hot air, to desolder in a quick, safe and clean way while protecting the surrounding components by concentrating the heat onto the IC.

A medium-sized QFP, for example, can be desoldered in 20 seconds.

## JT-A High power hot air station

**Includes** Control unit JTE-A
Heater 1000 W
Extractor stand with 5 extractors, 5 protectors and two tripods.
Heater stand and set of accessories.

## Technical specifications

| Control unit | JTE | |
|---|---|---|
| Weight: | 2,5 Kg | 5,5 lb |
| Size: Width:<br>Height:<br>Depth: | 145 mm<br>135 mm<br>225 mm | 5.7"<br>5.3"<br>8.9" |
| Voltage (AC): | 230, 120 & 100 V | |
| Maximum power: | 1100W | |
| ESD: | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Room operating temp.: | 10 - 40 ºC | 50 - 104 ºF |

| | Hot air | |
|---|---|---|
| Power: Nominal / Peak | 200 W / 1000 W | |
| Temperature Range: | Room - 450 ºC | Room - 850 ºF |
| Idle Temp. Stability (Still air): | ± 20 ºC | ± 36 ºF |
| Air Flow Range: | 6 - 45 SLPM | |

## Connectable Tools:

| Tool | Stand |
|---|---|
| T260-A Pick & Place | - |
| Heater JT-A (230V/120V) | JT-SA |

| Voltage: | Reference: |
|---|---|
| 230V | JT-2A |
| 120V | JT-1A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# TE Hot air station

The TE-A is a precision hot air station ideal, for desoldering and soldering small and medium sized SMD's by hot-air.

It takes about 30 seconds to desolder a medium sized component, quick enough to prevent the substrate and component from heating up to a dangerous temperature. In combination with the unique system of extractors, which process is explained on page 23 of this catalogue, it provides the safest hot air desoldering system in the market.

The station has a digital temperature control feature as well as a regulated and accurate air flow, allowing desoldering safely, even on a heavily populated PCB's.

## TE-A Hot air station presicion

**Includes** Control unit JTE-A
Heater 300 W.
Heater stand JT-SA
Accessories.
Extractor stand with 2 tripods,
3 extractors and 5 protectors.

## Technical specifications

| Control unit | | JTE |
|---|---|---|
| Weight: | 2,5 Kg | 5,5 lb |
| Size: Width:<br>Height:<br>Depth: | 145 mm<br>135 mm<br>225 mm | 6.7"<br>5.3"<br>8.9" |
| Voltage (AC): | 230, 120 & 100 V | |
| Maximum power: | 300W | |
| ESD: | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Room operating temp.: | 10 - 40 ºC | 50 - 104 ºF |

| | Hot air | |
|---|---|---|
| Power: Nominal / Peak | 100 W / 300 W | |
| Temperature Range: | Room - 450 ºC | Room - 850 ºF |
| Idle Temp. Stability (Still air): | ± 20 ºC | ± 36 ºF |
| Air Flow Range: | 4 - 11 SLPM | |

## Connectable Tools:

| Tool | Stand |
|---|---|
| T260-A Pick & Place | - |
| Heater TE-A | JT-SA |

| Voltage: | Reference: |
|---|---|
| 230V | TE-2A |
| 120V | TE-1A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# HD Heavy duty station

The HD-A is the best solution for high termal demand and prolonged heavy duty soldering.

It is specially designed to solder intensively on multi-layer boards and on parts requiring high amount of heat.

The temperature on the tip is strictly controlled by a micro processor through the sensor-heating element integrated to the tip itself.

The HD also offers high reliability especially in intensive applications like for example in solar panels.

It includes a sleep system, the hibernation mode and all other basic advantages featured in the rest of our JBC stations.

The T245-A handpiece can be connected to the station using the C470 cartridge range.

## HD-A Heavy duty

**Includes** Control unit HD-A
Stand HD-SA
Handpiece T245-A


## Technical specifications

| Control unit | HD | |
|---|---|---|
| Weight | 3,5 Kg | 7,7 lb |
| Size: Width:<br>Height:<br>Depth: | 145 mm<br>120 mm<br>225 mm | 5.7”<br>4.7”<br>8.9” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 9 W / 20 W / 145 W / 270 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 500 ºC | 190 - 930 ºF |
| Idle Temp. Stability (Still air) | ± 1,5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | HD-2A |
| 120V | HD-1A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

## Connectable Tools:

| Tool | Stand | Cartridge |
|---|---|---|
| T245-A Handpieces | HD-SA | C470 |

# AL Automatic Solder feed station

This is the perfect solution for intensive soldering processes where one or two hands free are needed.

It automates the soldering by solder feed system using the advantages of the JBC soldering station.

The system is supplied containing the control unit AL-A that incorporates the electronic control, the motorized solder wire feed, the conduction tube and the solder feed handle.

**With the AL-A is possible:**

- Length selection and thread speed advance.
- Working cycle selection: continous and step by step.
- Statistic working hours control and soldering cycles.

## AL-A Solder feed station

**Includes** Control unit AL-A
Complete handle AL-A
Cartridge C250403
Stand AL-SA
Tubes set and guides, for: wires ø 0,9 - 1 mm : 0002401

## Connectable Tools:

| Tool | Stand | Cartridge |
|---|---|---|
| AL-A Soldering iron | AL-SA | C250 |
| | Hands free soldering stand AL-IA | |

## Technical specifications

| Control unit | AL | |
|---|---|---|
| Weight | 3,2 Kg | 7 lb |
| Size: Width:<br>Height:<br>Depth: | 195 mm<br>200 mm<br>240 mm | 7.7”<br>7.9”<br>9.4” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |
| Capacity of solder reels up to | 2 Kg | 4.4 lb |
| Diameter of solder thread | 0,5mm to 1,5 mm | 0.02” to 0.06“ |

| Voltage: | Reference: |
|---|---|
| 230V | AL-2A |
| 120V | AL-1A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

www.jbctools.com

# AM Rework station

Station for rework and repair of through-hole and SMT boards. It contains four modules that cover the main rework tasks:

**Hot air to desolder any size of SMd component**. The station uses the exclusive JBC system, based on protectors-extractors and hot-air flow (page 23), which makes desoldering safe, clean and quick, concentrating the heat on the IC, and protecting the rest of the circuit at the same time.

**Desoldering SMTs and cleaning through-hole components**, and pads by using the desoldering iron DR-A. The unit features a self-contained vacuum pump.

**Pick & Place pencil by suction to aid components positioning**.

**Soldering and desoldering of all types of components**, with the quick response, high power and superb temperature recovery of the JBC Series.

Includes sleep, hibernation mode and all the advantages of JBC Station.

The station is easily controlled thanks to its display that provides information accurately. All functions are integrated with a PIN that allows to adapt to the specific demands of the user.

Apart from the standard configurations, you can connect any JBC tool to soldering and desoldering module, soldering, desoldering tweezer and solder feed irons.

## AM-A REWORK STATION

**Includes** Control unit AM-A
T245 Handpiece with cartridge C245003.
DR-A Desoldering iron with the C560-003 tip
Heater 1000W.
MP 2260 Pick & Place Ref T260-A
Extractor stand with: 5 extractors, 5 protectors and 2 tripods.
Stands for soldering iron, desoldering iron and heater.
Set of accessories.

## Technical specifications

| Control unit | AM | |
|---|---|---|
| Weight: | 8,1 Kg | 17.9 lb |
| Size: Width:<br>Height:<br>Depth: | 255 mm<br>130 mm<br>300 mm | 10”<br>5.1”<br>11.8” |
| Voltage (AC): | 230, 120 & 100 V | |
| Maximum power: | 1150W | |
| ESD: | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Room operating temp.: | 10 - 40 ºC | 50 - 104 ºF |

| | AM ports | |
|---|---|---|
| Power (each tool):<br>Hibernation / Sleep / Nominal / Peak | 2 x 4 W / 2 x 10 W / 2 x 75 W<br>2 x 140 W | |
| Temperature Range: | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air): | ± 1,5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Desoldering Vacuum: | 75% / 570 mmHg / 22.4 in.Hg | |
| Desoldering Flow Rate: | 9 SLPM | |

| | Hot air | |
|---|---|---|
| Power: Nominal / Peak | 200 W / 1000 W | |
| Temperature Range: | 150º C - 450 ºC | 300º C - 850 ºF |
| Idle Temp. Stability (Still air): | ± 20 ºC | ± 36 ºF |
| Air Flow Range: | 6 - 45 SLPM | |

## Connectable Tools:

| Tool | Stand | Cartridge |
|---|---|---|
| T210-A Handpiece | ADS-SA | C210 |
| T245-A Handpiece | ADB-SA | C245 |
| T245-CA Comfort Handpiece | ADB-SA | C245 |
| T245-FA Handpiece with set screw | ADB-SA | C245 |
| PA-A Micro hot tweezers | PA-SA | C120 |
| HT-A Hot tweezers | HT-SA | C245 |
| AP-A Solder feed iron | AP-SA | C130 |
| DS-A Microdesoldering iron | DS-SA | C360 tip |
| DR-A Desoldering iron | DR-SA | C560 tip |
| T260-A Pick & Place | - | - |
| Heater JT-A | JT-SA | - |

| Voltage: | Reference: |
|---|---|
| 230V | AM-2A |
| 120V | AM-1A |

### Meets Standards:

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# NA Nano station

NA is a complete station, for micro rework designed for micro soldering and micro desoldering the tiniest components, like chips 0201, 0402, etc.

Tools for this station; Nano soldering iron NT205-A and nano tweezer NP105-A are the lightest, tiniest and ergonomic of the market, which allows you to work at highest precison.


## NA-A Station

**Includes** Control unit NA-A
Nano soldering iron NT205-A
Tweezers NP105-A
Cartridge set (10 pcs)

## Technical specifications

| Control unit | NA | |
|---|---|---|
| Weight | 1,2 Kg | 2.6 lb |
| Size: Width:<br>Height:<br>Depth: | 170 mm<br>90 mm<br>135 mm | 9.5”<br>6.3”<br>8.0” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 2 x 1,5 W / 2 x 3 W / 2 x 7 W / 2 x 15 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 3 ºC | ± 5,5 ºF |
| Tip to ground resistance | < 5Ω | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

| Voltage: | Reference: |
|---|---|
| 230V | NA-2A |
| 120V | NA-1A |

## Connectable Tools:

| Tool | Tips |
|---|---|
| NT205-A Nano soldering iron | C105 |
| NP105-A Nano hot tweezers | C105 |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# DI 1 Tool control unit

Control unit featuring digital read-out, for precise temperature and tool control.

Control unit is designed for production and rework applications of light or medium thermal requiremet in electronics.

The stations are provided with extra built-in features to personalize hibernation, sleep settings and temperature limits. All parameters can be blocked with a PIN.

All JBC soldering hand pieces and hot tweezers can be used, always using the corresponding stand, also the DR and DS desoldering irons can be connected by adding the electric suction system MS-A or MV-A.


**For a complete soldering station the following is needed:**
Control unit
One tool with its corresponding stand & cartridge.

## Technical specifications

| Control unit | DI | |
|---|---|---|
| Weight | 2 Kg | 4.4 lb |
| Size: Width:<br>Height:<br>Depth: | 90 mm<br>105 mm<br>180 mm | 3.5”<br>4.1”<br>7” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 W / 10 W / 75 W / 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

## Connectable Tools:

| Tool | Stand | Cartridge |
|---|---|---|
| T210-A Handpiece | ADS-SA | C210 |
| T245-A Handpiece | ADB-SA | C245 |
| T245-CA Comfort Handpiece | ADB-SA | C245 |
| T245-FA Handpiece with set screw | ADV-SA | C245 |
| PA-A Micro hot tweezers | PA-SA | C120 |
| HT-A Hot tweezers | HT-SA | C420 |
| AP-A Solder feed iron | AP-SA | C130 |
| DS-A Microdesoldering iron | DS-SA | C360 tips |
| DR-A Desoldering iron with MS-A or MV-A desoldering suction modules | DR-SA | C560 tips |
| T245-NA Nitrogen Handpiece with MN-A Nitrogen control module | DN-SA | C245 |

| Voltage: | Reference: |
|---|---|
| 230V | DI-2A |
| 120V | DI-1A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# DD and DM Control units 2 & 4 tools

Control units featuring digital read-out that allow precise temperature and tool control.

-The dual unit DD-2A allows you to connect and work with 2 tools simultaneously.

-The control unit DM-2A 4 tools allows you to connect and work with each one simultaneously.

These control units are designed for production and rework applications in electronics with a high thermal requirement.

The stations are provided with extra-built features to personalize hibernation, sleep and temperature limits. All parameters can be blocked with a PIN.

You can connect to the units DD and DM to all the tools of our JBC range, always using their corresponding stand, including the desoldering iron DR-A by adding the desoldering pump (MS-A or MV-A).

**For a complete soldering station the following is needed:**

Control unit
From 1 to 4 tools with its corresponding stand & cartridge

## Technical specifications

| Control unit | DD | |
|---|---|---|
| Weight | 3,5 Kg | 7.7 lb |
| Size: Width:<br>Height:<br>Depth: | 145 mm<br>120 mm<br>225 mm | 5.7”<br>4.7”<br>8.9” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 2 x 4 W / 2 x 10 W / 2 x 75 W / 2 x 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

## Connectable Tools:

| Tool | Stand | Cartridge |
|---|---|---|
| T210-A Handpiece | ADS-SA | C210 |
| T245-A Handpiece | ADB-SA | C245 |
| T245-CA Comfort Handpiece | ADB-SA | C245 |
| T245-FA Handpiece with set screw | ADB-SA | C245 |
| PA -A Micro hot tweezers | PA-SA | C120 |
| HT-A Hot tweezers | HT-SA | C420 |
| AP-A Solder feed iron | AP-SA | C130 |
| DS-A Microdesoldering iron | DS-SA | C360 tips |
| DR-A Desoldering iron with MS-A or MV-A desoldering suction modules | DR-SA | C560 tips |
| T245-NA Nitrogen Handpiece with MN-A Nitrogen control module | DN-SA | C245 |

| Voltage: | Reference: |
|---|---|
| 230V | DD-2A/ DM-2A |
| 120V | DD-1A/ DM-1A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3


## Technical specifications

| | | |
|---|---|---|
| Control unit | DM | |
| Weight | 4,5 Kg | 9.9 lb |
| Size: Width:<br>Height:<br>Depth: | 145 mm<br>120 mm<br>225 mm | 5.7”<br>4.7”<br>8.9” |
| Voltage (AC) | 230, 120 & 100 V | |
| Power: Hibernation / Sleep / Nominal / Peak | 4 x 4 W / 4 x 10 W / 4 x 75 W / 4 x 140 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Temperature Range | 90 - 450 ºC | 190 - 840 ºF |
| Idle Temp. Stability (Still air) | ± 1.5 ºC | ± 3 ºF |
| Tip to ground resistance | < 5Ω | |
| Tip to ground voltage | < 2 mV RMS | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

## Connectable Tools:

| Tool | Stand | Cartridge |
|---|---|---|
| T210-A Handpiece | ADS-SA | C210 |
| T245-A Handpiece | ADB-SA | C245 |
| T245-CA Comfort Handpiece | ADB-SA | C245 |
| T245-FA Handpiece with set screw | ADB-SA | C245 |
| PA -A Micro hot tweezers | PA-SA | C120 |
| HT-A Hot tweezers | HT-SA | C420 |
| AP-A Solder feed iron | AP-SA | C130 |
| DS-A Microdesoldering iron | DS-SA | C360 tips |
| DR-A Desoldering iron with MS-A or MV-A desoldering suction modules | DR-SA | C560 tips |
| T245-NA Nitrogen Handpiece with MN-A Nitrogen control module | DN-SA | C245 |

### Meets Standards:

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# MS and MV Desoldering suction modules

They are essential to complete the desoldering function. Control unit regulates the temperature and the vacuum module suctions the solder. There are 2 models, one by electric mechanism through control unit and the pneumatic one that should be feeded by compressed air.

## MS Electric desoldering pump

Electrically driven vacuum pump. Features an overdrive at startup. This will make the vacuum ramp up quickly so the solder is being removed before the solder joint cools down. This suction system is feeded by the control unit.

## MV Pneumatic suction system

Uses compressed air and a Venturi valve. This system offers the best result because the vacuum ramps up instantly.

Compressed air needs to be available at the operator's bench.

## Technical specifications

| Control unit | MS | |
|---|---|---|
| Weight | 1,7 Kg | 3.7 lb |
| Size: Width:<br>Height:<br>Depth: | 145 mm<br>60 mm<br>230 mm | 5.7”<br>2.4”<br>8.7” |
| Voltage (AC) | 24 V (from control unit) | |
| Power: | 12 W | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Vacuum | 75% / 570 mmHg / 22.4 in.Hg | |
| Flow rate | 9 SLPM | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

## Connectable Station:

| Station |
|---|
| DI-A |
| DD-A |
| DM-A |
| DS-A |
| DV-A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3


## Technical specifications

| | | |
|---|---|---|
| Control unit | MV | |
| Weight | 1,4 Kg | 3.1 lb |
| Size: Width:<br>Height:<br>Depth: | 145 mm<br>60 mm<br>230 mm | 5.7”<br>2.4”<br>8.7” |
| Voltage (AC) | 24 V (from control unit) | |
| Power: | 3 W | |
| Air pressure | 3 to 6 Bar | |
| Air pressure intake racor | 6 mm Ø PVC TUBE | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Vacuum | 90% / 680 mmHg / 26. 8 in.Hg | |
| Flow rate | 15 SLPM | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

## Connectable Station:

| Station |
|---|
| DI-A |
| DD-A |
| DM-A |
| DS-A |
| DV-A |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

# MN Nitrogen control module

The eletrovalve is controlled by the soldering station, which allows soldering by feeding nitrogen and minimizes the consumption of the nitrogen itself.

Once the Nitrogen Control Module has been connected to the control unit DIN, the module will allow the gas to pass through when the tool is grabbed from its stand, and will close  it off when the tool is returned to the stand. Integrated a flow regulator.


## Technical specifications

| | | |
|---|---|---|
| Control unit | MN-A | |
| Weight | 1,4 Kg | 3.1 lb |
| Size: Width:<br>Height:<br>Depth: | 50 mm<br>120 mm<br>130 mm | 2”<br>4.7”<br>5.1” |
| Voltage (AC) | 24 V (from control unit) | |
| Power: | 3 W | |
| $N_2$ Flow regulation | 0,5 - 3,5 SLPM at 5 Bar. | |
| Max. pressure | 6 Bar | |
| Pressure intake racor | 6 mm Ø PVC TUBE | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

## Connectable stations:

| Station |
|---|
| DI-A |
| DIN-A |
| DD-A |
| DM-A |

# GN-A Nitrogen generator

GN-A is a Nitrogen Gas Generator.

Nitrogen gas ($N_2$) simply obtained from compressed air through action of highperformance separator membrane.

Features of the compressed air:

- Dry air and without oil.
- Water filter of at least 0,01µm.
- Particles filter of at least 0,3µm.

## Technical specifications

| Nitrogen generator module | GN-A | |
|---|---|---|
| Weight | 2 Kg | 4.40 lb |
| Size: Width:<br>Height:<br>Depth: | 84,0 mm<br>87,5 mm<br>346,5 mm | 185.18”<br>192.90”<br>763.90” |
| Compressed air pressure | P4 to 6 Bar | |
| Gas concentration | Up to 99,9% | |
| Recommended gas flow $N_2$ for one soldering | 1 to 2 SLPM | |
| ESD | Skin effect ($10^6$ - $10^{11}$ Ω/□) | |
| Ambient operating temp. | 10 - 40 ºC | 50 - 104 ºF |

**Meets Standards:**

IPC J-STD-001D, MIL-STD-2000, ESD STM 13.1-2000

EN 60335-1, EN 60335-2-45, EN 55014-1, EN 55014-2, EN 61000-3-2, EN 61000-3-3

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