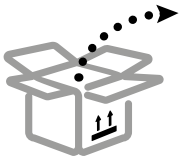
Weller®


# WX 1
# WX2
# WXD 2
# WXA 2

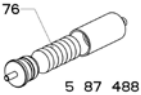
GB Translation of the original instructions

# 1 WX1 WX2 WXD 2 WXA 2

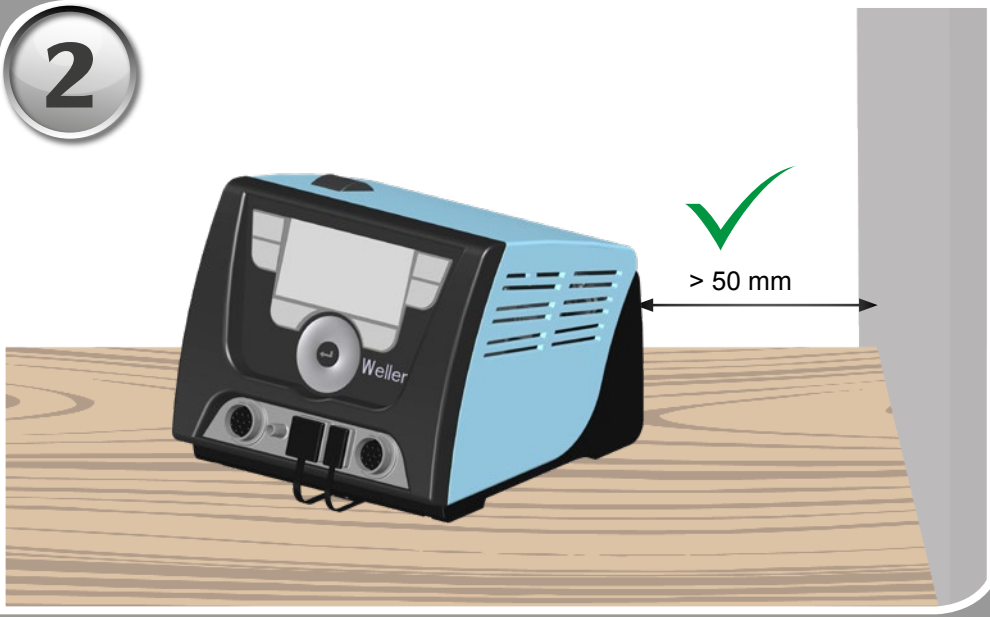
**WXD2**

5 87 657 76



5 87 488 52

# 2



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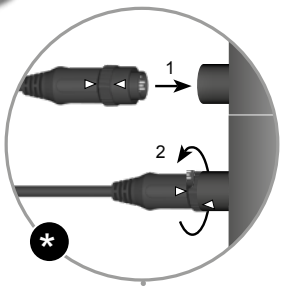
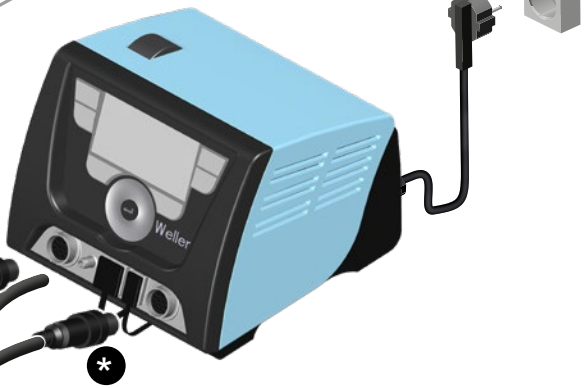


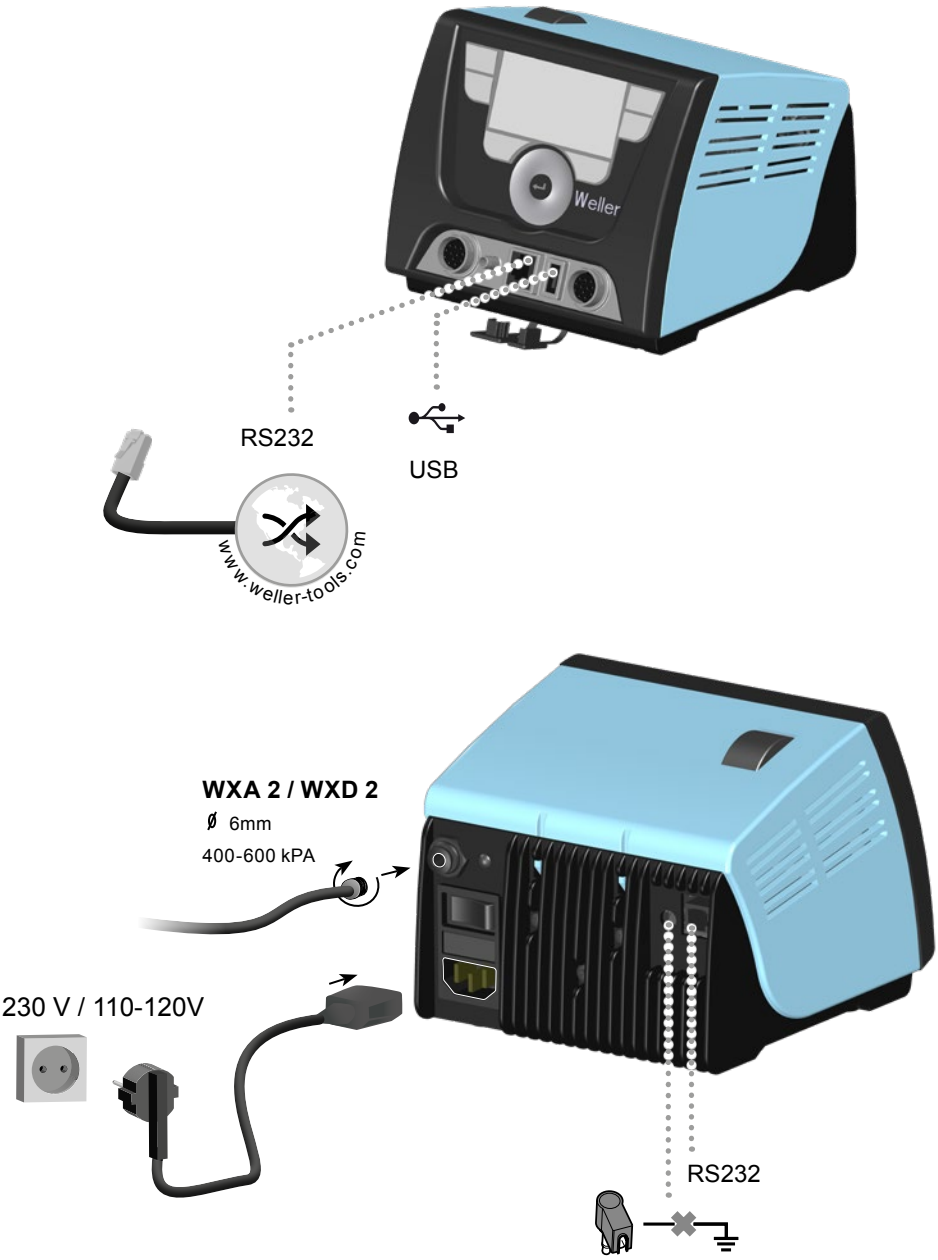

230 V / 110-120V



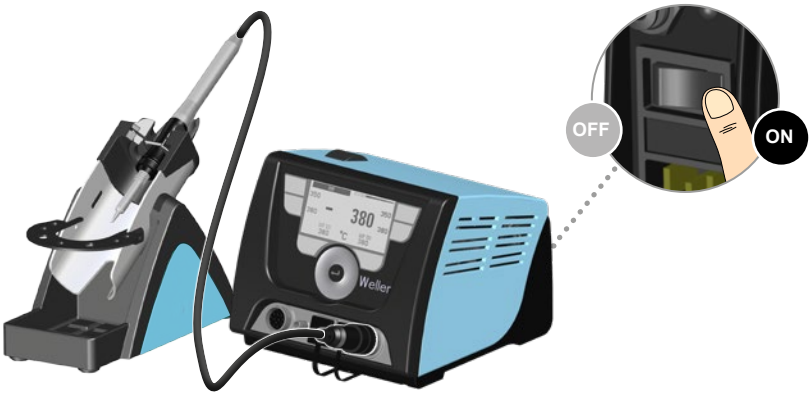

*

WXA

WXD


Weller
RS232
USB
www.weller-tools.com
WXA 2 / WXD 2
Ø 6mm
400-600 kPA
230 V / 110-120V
RS232

# 4

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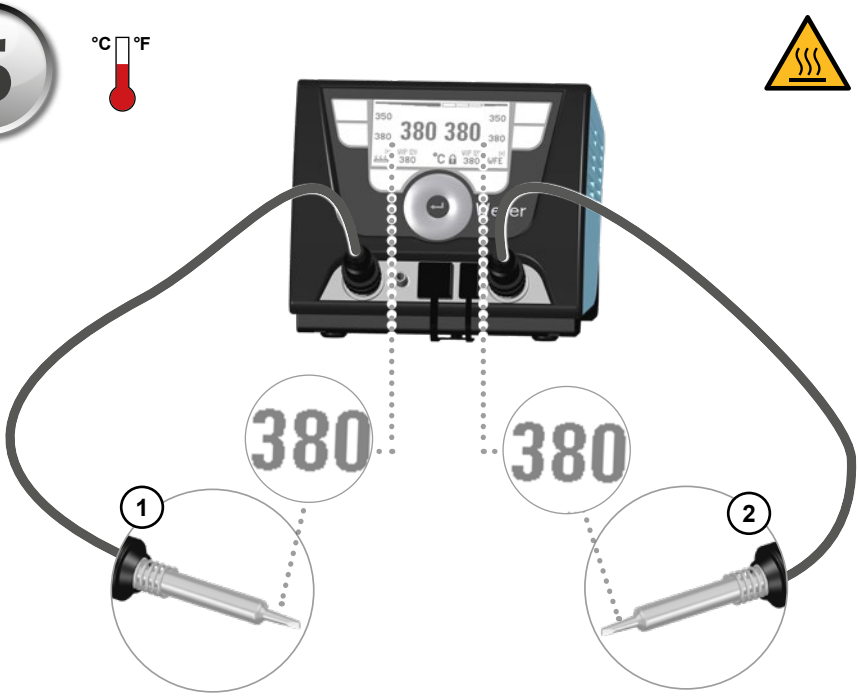
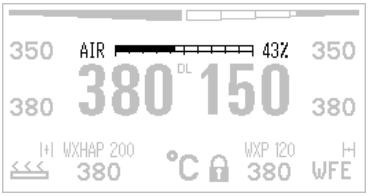
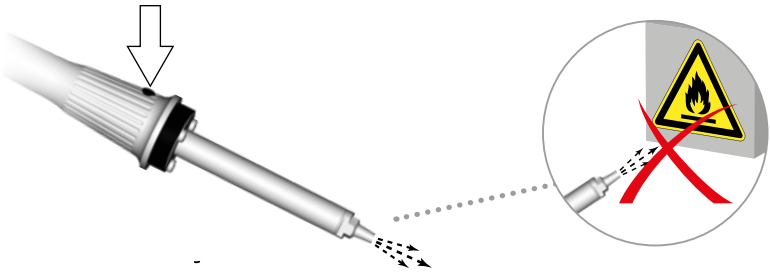
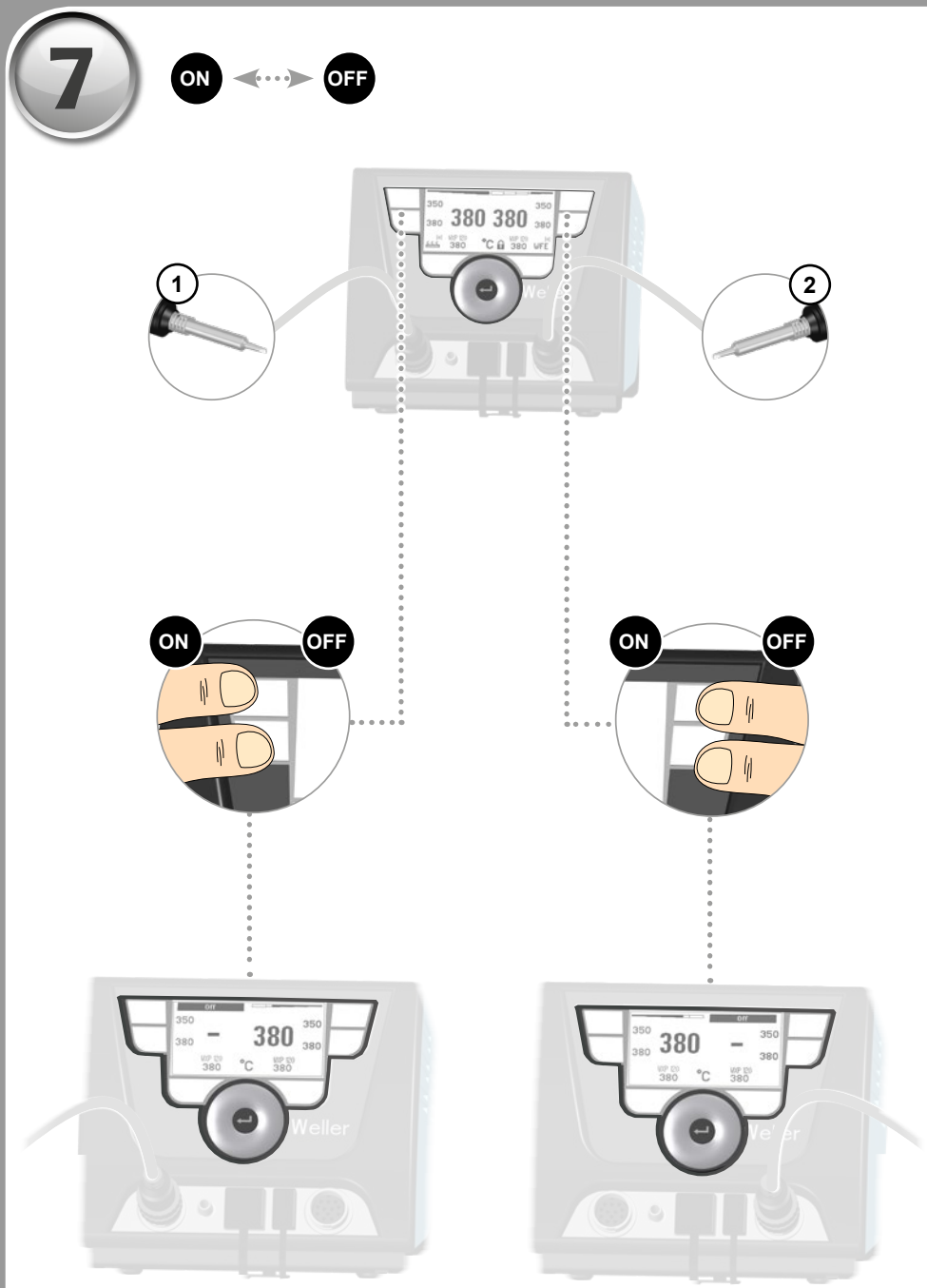


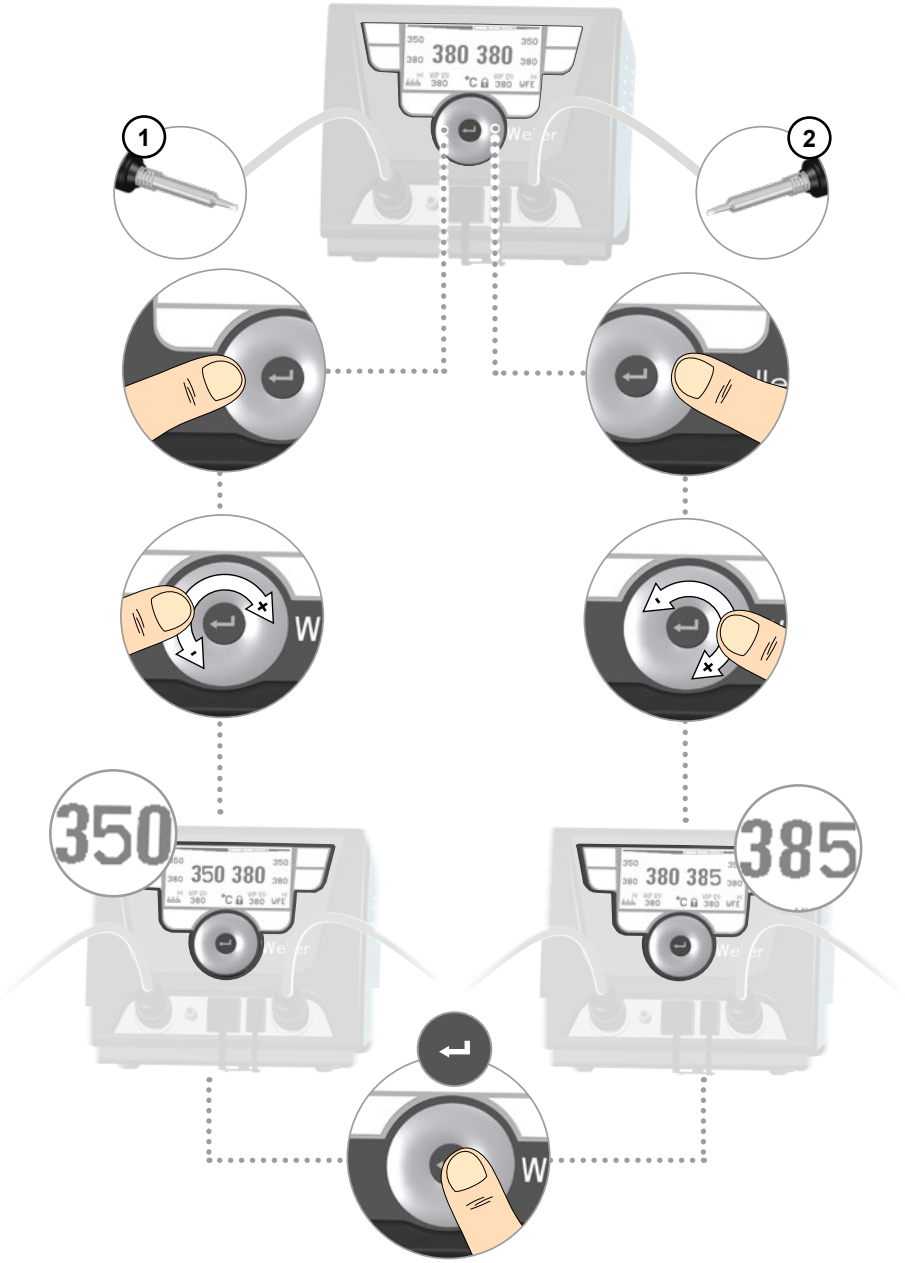
# 6 WXA 2

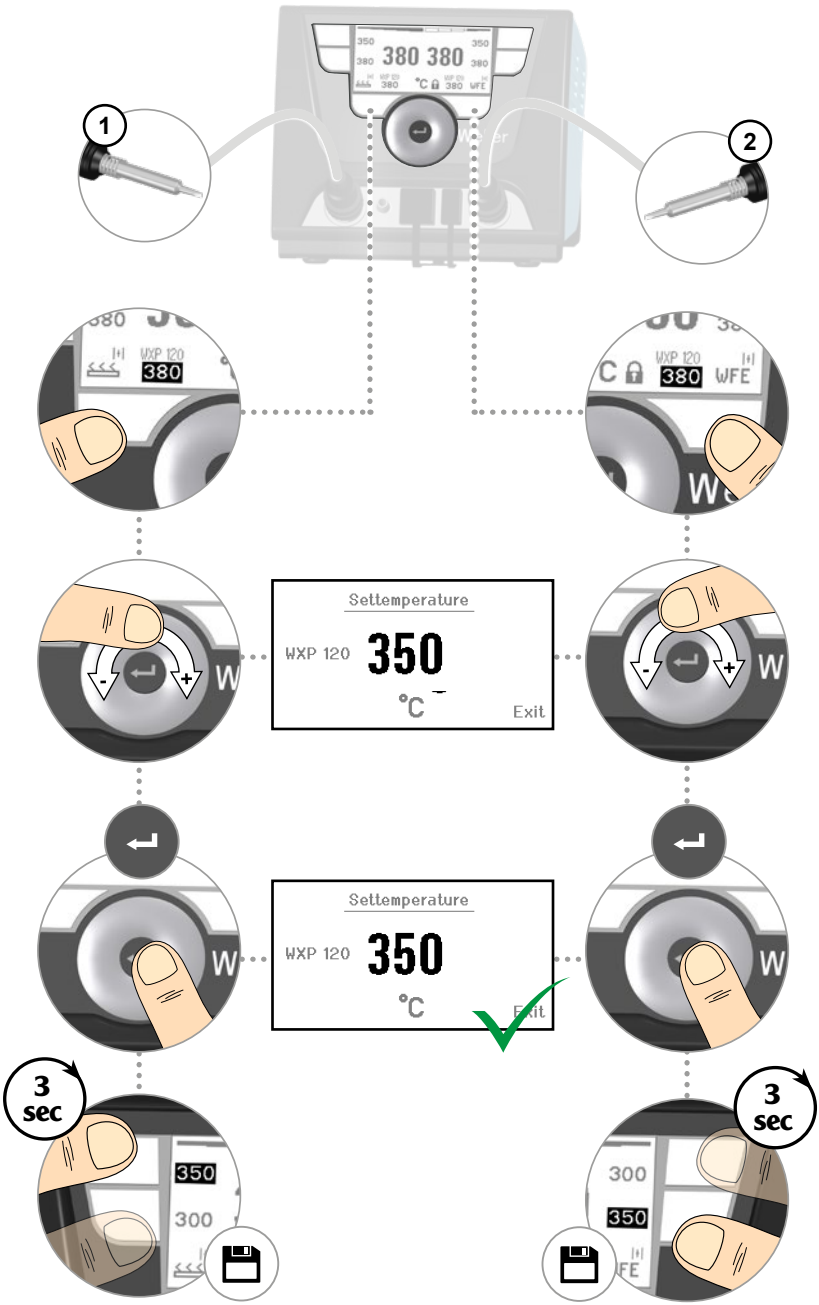



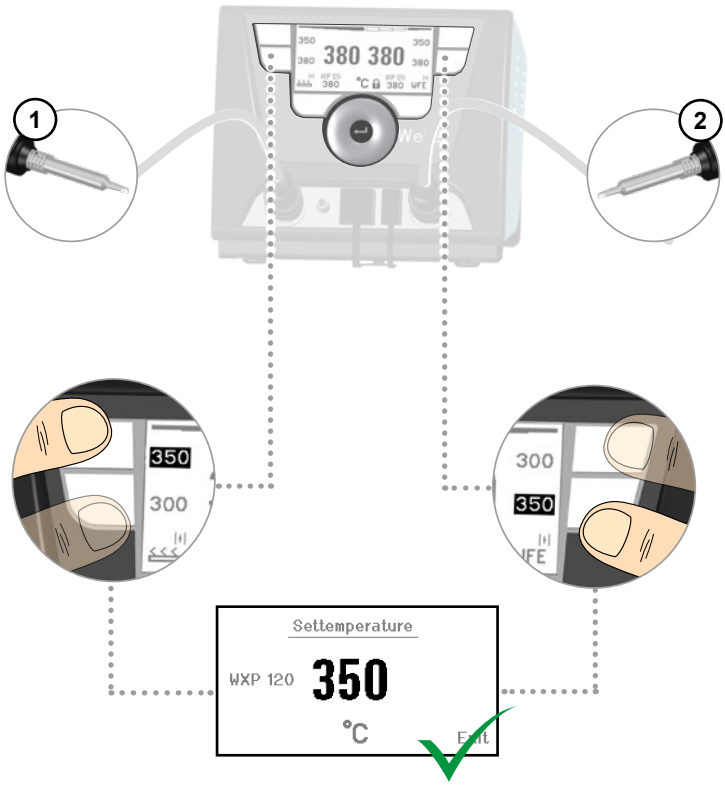

**10-100%**
100% ≈ 20 l/min ( 6 bar )

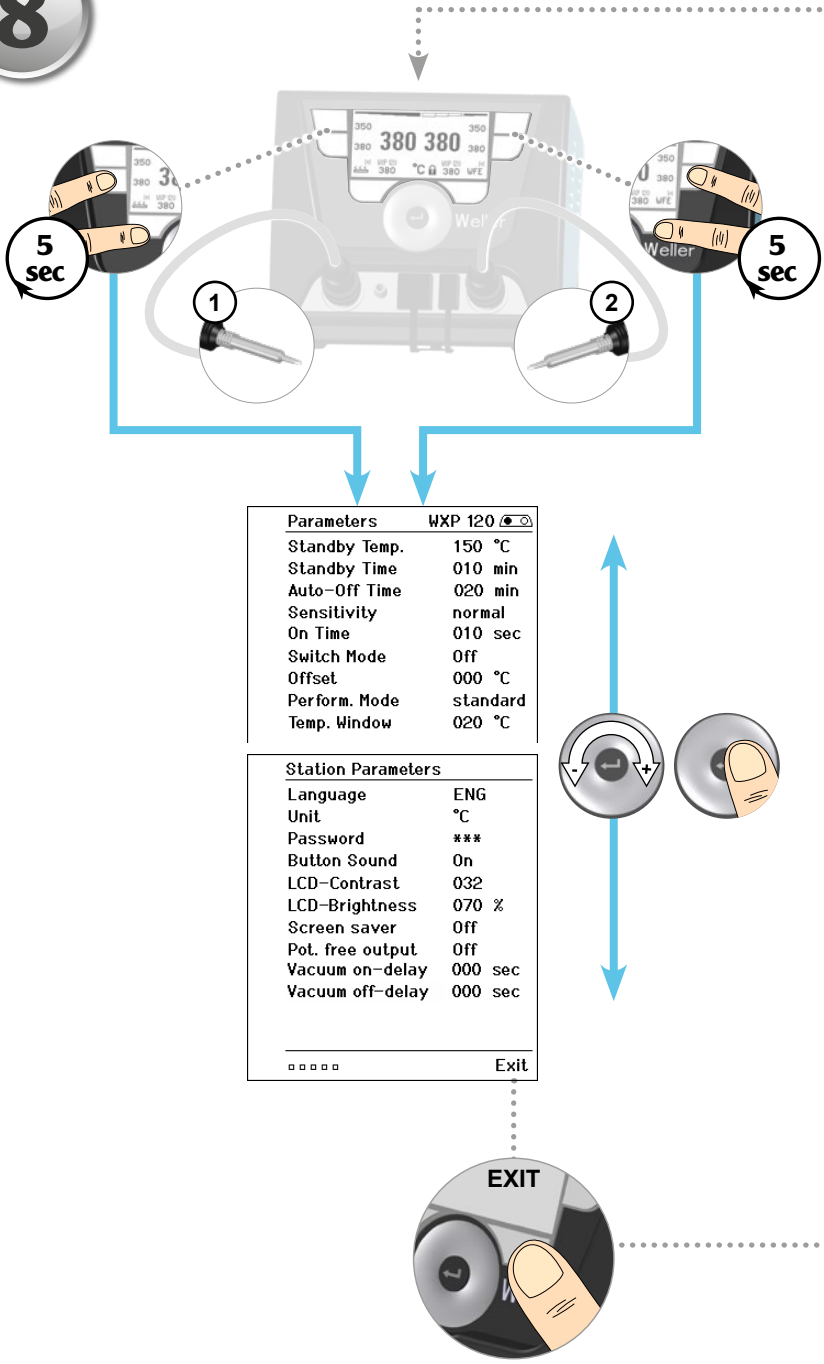

7
ON
OFF
1
2
ON
OFF
ON
OFF
380 380
380
Weller

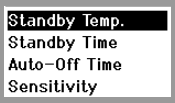

1
2
380 380
W
350
350 380
385
380 385
W


1
2
380 380
WXP 120
380
WFE
Settemperature
WXP 120
350
°C
Exit
Settemperature
WXP 120
350
°C
Exit
3 sec
350
300
3 sec
300
350
FE


1
2
350
300
300
350
Settemperature
WXP 120
350
°C
Exit

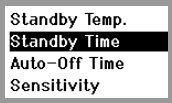
# 8


5 sec
5 sec
1
2
Parameters WXP 120
Standby Temp. 150 °C
Standby Time 010 min
Auto-Off Time 020 min
Sensitivity normal
On Time 010 sec
Switch Mode Off
Offset 000 °C
Perform. Mode standard
Temp. Window 020 °C
Station Parameters
Language ENG
Unit °C
Password ***
Button Sound On
LCD-Contrast 032
LCD-Brightness 070 %
Screen saver Off
Pot. free output Off
Vacuum on-delay 000 sec
Vacuum off-delay 000 sec
Exit
EXIT



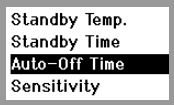

**EN** Standby Temperature

**100 - 450 °C**
**200 - 850 °F**




**EN** Standby Time

**1 - 999 min**




**EN** OFF time

**1-999 min**


**EN** Sensitivity

**low**
**normal**
**high**

**WXHAP**


**EN** Max. hot air duration

**1-60 s**


**EN** Offset

**-40 - 40 °C**
**-72 - 72 °F**


**EN** Perform. Mode

**standard**
**soft**
**aggressive**

**WXHAP**

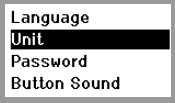

**EN** Button lock

**ON / OFF**


**EN** Process window

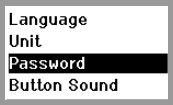
**100 - 450 °C**
**200 - 850 °F**


**EN** Language




**EN** Temperature units

**C/°F**




**EN** Lock function

**1-999**


**EN** Touchtones on/off

**ON / OFF**


**EN** LCD-Contrast

**10 - 60**


**EN** LCD background brightness

**10 - 100 %**

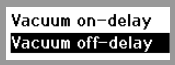

**EN** Screen saver

**ON / OFF**


**EN** Robot output

**100 - 450 °C**
**200 - 850 °F**

**WXD 2**




**EN** Vacuum run-on

**0 - 10 s**

**WXD 2**


**EN** Vacuum pre-feed

**0 - 10 s**

**Read these instructions and the safety guidelines carefully before starting up the unit and starting work.**

Failure to observe the safety regulations results in a risk to life and limb.

Keep these instructions in a place that is accessible to all users. Please adhere to the operating instructions of the connected devices.

## Safety information

For safety reasons, children and youths under the age of 16, as well as persons who are not familiar with these operating instructions, may not use the device. Children should be supervised in order to ensure that they do not play with the tool.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance.

Cleaning and user maintenance shall not be made by children without supervision.

**Keep other persons well away from your workplace.**

The work area is out of bounds for children and unauthorised persons. Never allow other persons to touch the soldering tool or cable.

**⚠ WARNING** **Electrical shock**

**Connecting the control unit incorrectly poses a risk of injury due to electric shock and can damage the device.**

- Carefully read the attached safety information, the safety information accompanying these operating instructions as well as the operating instructions for your control unit before putting the control unit into operation and observe the safety precautions specified therein.
- Only connect WELLER tools.

**If the device is faulty, active electrical conductors may be bare or the PE conductor may not be functional.**

- Repairs must always be referred to a Weller-trained specialist.
- If the electrical tool's power supply cord is damaged, this must be replaced with a specially prefabricated power supply cord available through the customer service organisation.

**Protect yourself against electric shocks.** The handles on soldering tools with an antistatic design are conductive.

- Avoid touching earthed objects such as pipes, heaters, cookers and refrigerators.
- Do not use the soldering tool in a damp or wet environment.
- Never work on voltage-carrying parts.

**⚠ WARNING** **Risk of burns**

**Risk of burns from the soldering tool while the control unit is operating. Tools may still be hot long after they have been switched off.**

- Always place the soldering tool in the safety rest while not in use. Make sure the safety holder is stable.
- Only connect the vacuum and hot air at the designated points.
- Do not direct hot air soldering tools at people or inflammable objects.
- Only replace solder tips when cold

**Risk of burning through liquid solder. Protect yourself against solder splashes.**

- Wear appropriate protective clothing to protect yourself against burns. Protect your eyes by wearing eye protectors.
- When working with adhesives, special attention must be paid to the warning information provided by the adhesive manufacturer.

**Store your soldering tool in a safe place.** When not in use, units and tools should be stored in a dry, high or locked area out of the reach of children. Make sure that unused soldering tools are free of voltage and de-pressurised.

**⚠ WARNING** **Fire hazard**

**Covering the soldering iron or the safety holder poses a fire hazard. Always keep objects well away from the soldering iron and safety holder.**

- Always keep objects well away from the soldering iron and safety holder.
- Keep all combustible objects, liquids or gases well away from the hot soldering tool.

**The mains cable must only be plugged into the mains socket or adapter approved for this purpose.** Check to see if the mains voltage matches the ratings on the nameplate. Make sure the machine is switched off before plugging in.

**Do not use the cable for purposes other than those for which it is intended.**Never carry the unit by the cable. Do not use the cable to pull the plug out of the socket. Protect the cable against heat, oil and sharp edges..

**Be alert.** Pay attention to what you are doing. Be smart when using the unit. Do not use the soldering tool if you are having difficulty concentrating.

**Avoid abnormal posture.** Arrange your work station in an ergonomically correct way. Avoid bad posture when using the unit, as this can lead to postural problems.

**The soldering tool must be operated only in perfect technical working order.** Safety devices must not be deactivated.

**Faults and defects must be repaired immediately.** Before using the unit / tool, safety devices must be carefully checked to make sure that they are functioning properly and in the manner intended. Check that moving parts are functioning properly and are not sticking, and whether parts are damaged. All parts must be correctly fitted and must satisfy all the requirements necessary to guarantee troublefree operation of the unit.

**Use the correct tool.** Use only accessories or auxiliary devices which are included in the list of accessories or approved for use by the manufacturer. Use WELLER accessories or auxiliary devices on original WELLER equipment only. The use of other tools and other accessories can cause injury.

**Secure the tool.** Use clamping fixtures to hold the workpiece.

**Use a solder fume extraction unit.** If appliances for connecting solder fume extraction units are available, ensure that they are connected and used properly.

## Specified Conditions Of Use

Supply unit for WELLER WX soldering tools. Use the soldering station / desoldering station / hot air station exclusively for the purpose indicated in the operating instructions of soldering and desoldering under the conditions specified herein.

**⚠ WARNING**

Flammable gases and liquids may not be extracted.

The device may only be used with correctly fitted and suitable filter cartridges.

Replace filter cartridges when full.

This device may only be used at room temperature and indoors. Protect against moisture and direct sunlight.

We hereby declare that the products described herein comply with the following guidelines:

2014/30/EU, 2006/95/EG, 2011/65/EU (RoHS)

## User groups

Due to differing degrees of risk and potential hazards, several work steps may only be performed by trained experts.

| Work step | User groups |
|---|---|
| Default soldering parameters | Specialist personnel with technical training |
| Replacing electrical replacement parts | Electricians |
| Default maintenance intervals | Safety expert |
| Operation<br>Filter change | Non-specialists |
| Operation<br>Filter change<br>Replacing electrical replacement parts | Technical trainees under the guidance and supervision of a trained expert |

## Care and maintenance

**⚠ WARNING** 

**Before doing any work on the machine, pull the plug out of the socket. Leave the unit to cool down.**

Clean the operator panel, if dirty, using a suitable cleaning cloth.

Seal ports which are not in use with covering caps.

Check all connected cables and hoses on a regular basis. If power tools are damaged, they must be immediately removed from use.

**⚠ WARNING** **Risk of burns**

- Only replace solder tips when cold
- Replace and clean suction nozzles only when hot and using the suitable tool
- Only replace hot air nozzles using the suitable tool
- Only clean or replace solder collection tubes when cold

**Filter change**

Regularly check the main filter for vacuum, and replace it if necessary.

*Contaminated filters must be treated as special waste. Dispose of replaced equipment parts, filters or old devices in accordance with the rules and regulations applicable in your country. Wear suitable protective gear.*

**Warning!**
Working without a filter can result in irreparable damage to the vacuum unit.

- Check before starting soldering whether a main filter is inserted.

**Repairs must always be referred to a Weller-trained specialist.**

Use original replacement parts only.

## Symbols


Caution!


**Warning! Risk of burns!**


Read the operating instructions!


Before performing work of any kind on the unit, always disconnect the power plug from the socket.


ESD-compatible design and ESD-compatible workstation


Equipotential bonding


Soldering


Desoldering


Hot air


CE mark of conformity


Fuse


Safety transformer


**Disposal**

Do not dispose of electric tools together with household waste material! In observance of European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in accordance with national law, electric tools that have reached the end of their life must be collected separately and returned to an environmentally compatible recycling facility.

## Technical Data

| | soldering station WX 1 | soldering station WX 2 | desoldering station WXD 2 | Hot air station WXA 2 |
|---|---|---|---|---|
| Dimensions L x W x H | 170 x 151 x 130 mm<br>6,69 x 5,94 x 5,12 inch | | | |
| Weight | ca. 3,2 kg | ca. 3,2 kg | ca. 3,8 kg | ca. 3,8 kg |
| Mains supply voltage | 230 V, 50 Hz / 120 V, 60 Hz / 100 V 50/60 Hz | | | |
| Power consumption | 200 W | 200 W (255 W) | 200 W (255 W) | 200 W (255 W) |
| Safety class | I, antistatic housing<br>III, Soldering tool | | | |
| Fuse | T2 A (230 V)<br>T4 A (120 V) | | | |
| Temperature range<br>Tool dependent | 100 - 450°C (550°C)<br>200 - 850°F (999°F) | | | |
| Temperature accuracy | ± 9 °C / ± 17 °F | | | |
| Temperature stability | ± 2 °C / ± 4 °F | | | |
| Air consumption | - | | 35 l / min, max vacuum 55 kPA (8 psi) | - |
| Compressed air connection | - | | Compressed air hose outer diameter 6 mm (0,24“) | Compressed air hose outer diameter 6 mm (0,24“) |
| Compressed air | - | | Inlet pressure 400 - 600 kPA (58-87 psi); oil-free, dry compressed air | Inlet pressure 400 - 600 kPA (58-87 psi) oil free, dry compressed air or nitrogen (N2) * |
| Air flow: | - | | | approx. 0-18 l/ min at 6 bar |

* WXA 2: Nitrogen N2 reduces oxidation and flux remains active for longer. We recommend the nitrogen N2 that is available in steel bottles. The bottle must be equipped with a 0-10 bar pressure reducer.

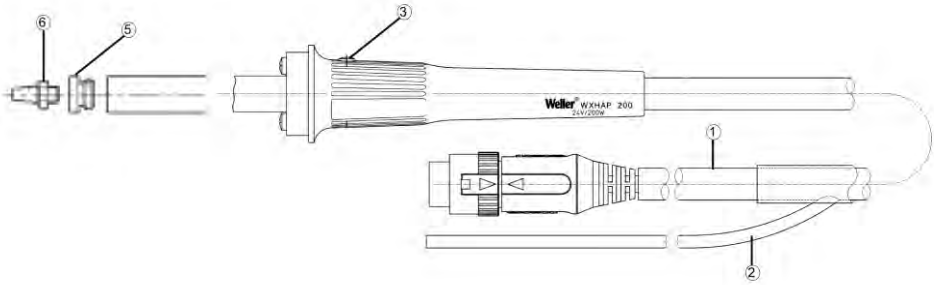
**Subject to technical alterations and amendments.**

EN

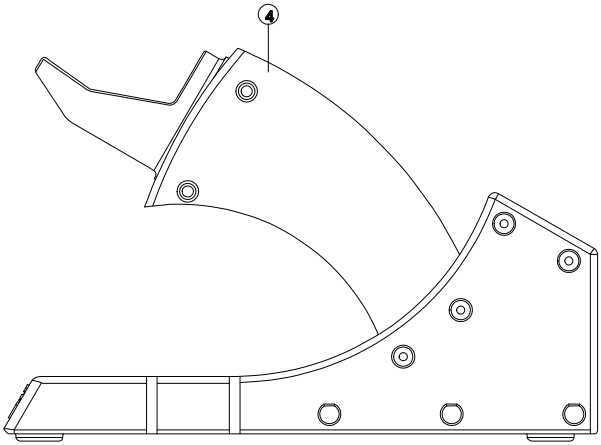
# WXHAP 200

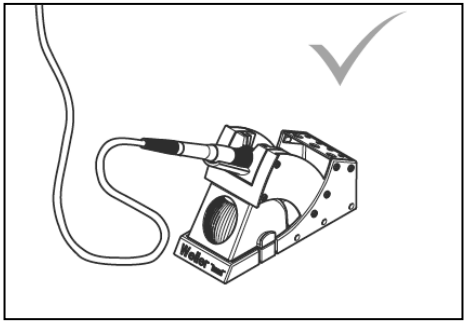
## Operating Instructions

# WXHAP 200
## Device overview




1 Connector with cable
2 Hot air hose connection
3 Push button
4 Stand
5 Nozzle adaptor
6 Nozzle



Always place the soldering tool in the safety rest while not in use.

EN

# Contents



# 1 About these instructions

Thank you for placing your trust in our company by purchasing the Weller WXHAP 200 Hot Air Tool. This product meets or exceeds the requirements established by Weller for superior performance, versatility and quality.

These instructions contain important information which will help you to start up, operate and service the WXHAP 200 safely and correctly, as well as to eliminate simple faults/malfunctions yourselves.

▷ Please read these instructions carefully and the attached safety guidelines before you put the WXHAP 200 into operation.

▷ Keep these instructions in a place that is accessible to all users.

## 1.1 Directives taken into consideration

The Weller WXHAP 200 Hot Air Tool corresponds to the EC Declaration of Conformity in accordance with the basic safety requirements of Directives 2004/108/EC, 2006/95/EC and 2011/65/EU (RohS).

## 1.2 Applicable documents

– WXHAP 200 operating instructions
– Accompanying booklet on safety
– Operating instructions for your control unit

# 2 For your safety

The WXHAP 200 Hot Air Tool has been manufactured in accordance with state-of-the-art technology and recognized safety rules and regulations. There is nevertheless the risk of personal injury and damage to property if you fail to observe the safety information set out in the enclosed booklet accompanying these operating instructions and the warnings given therein.

Always pass on the WXHAP 200 on to third parties along with these operating instructions. The manufacturer shall not be liable for damage resulting from misuse of the machine or unauthorized alterations

- **State of California warning:**

  When used for soldering and similar applications, this product produces chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## 2.1 Please observe the following:

- Always place the hot air tool in its original stand.
- Remove all flammable objects from the vicinity of the hot soldering tool.
- Do not connect flammable gases to your hot air equipment.
- Always wear suitable protective clothing when using the WXHAP 200.
- Do not direct the hot air jet at persons or look into the hot air jet.
- Never leave the hot WXHAP 200 unattended.
- Do not carry out work on live parts
- When using inert gases, make sure the area is well ventilated.
- Read and observe the operating instructions of your control unit.
- Read and follow the operating instructions for the Weller WXA 2, WXR 3 supply unit.

## 2.2 Intended use

Use the WXHAP 200 exclusively for the purpose indicated in the operating instructions of releasing, accommodating and setting down chip components under the conditions specified here. Intended use of the WXHAP 200 also includes that

- you read and follow these instructions,
- you read and follow all additional accompanying documents,
- you observe the national accident-prevention regulations applicable at the location where the device is used.

The manufacturer accepts no liability for damages resulting from failure to use the device in compliance with these operating instructions or unauthorised modifications to the device.

EN

# 3 Scope of supply (Operating instructions)

WXHAP 200
T0052712099

&

WDH 30
T0051515299

R04 Ø 1,2 mm
R06 Ø 3,0 mm

Nozzle adaptor M6


# 4 Device description

The Weller WXHAP 200 Hot Air Tool with integrated finger switch (3) is suitable for soldering and desoldering surface-mounted components. A wide range of nozzles adds to the versatility of the WXHAP 200 tool.

A push button (3) integrated in the handle is used to control the air flow. The ionising circuit integrated in the tool ensures that hot air is static free. The hose and handle are of antistatic design.

The hot air temperature can be set to between 100°C and 550°C (212°F and 932°F) using the control unit.

## 4.1 Technical data WXHAP 200

| | |
|---|---|
| Heating output | 200 W |
| Heating voltage | 24 V AC |
| Max. air flow rate | 20 l/min |
| Temperature range | 100°C up to 550°C<br>(212°F up to 932°F) |
| Temperature accuracy | ± 30°C/± 80°F |

**Potential balance**

The WXHAP 200 hot air tool has an equipotential bonding conductor which can be connected in accordance with the operating instructions of the control unit in use.

# 5 Commissioning the device

WARNING!

## Risk of injury due to hot air and inert gases.

**Use caution when operating the hot air tool, because hot air can cause burns. Caution: use of inert gases in an enclosed area can cause asphyxiation.**

▷ Please read carefully the safety instructions in the attached booklet, the safety guidelines given in these operating instructions and the operating instructions of your control unit before putting the WXHAP 200 into operation. Also observe the safety precautions described herein.

1. Carefully unpack hot air tool WXHAP 200.
2. Make sure that the control unit is OFF.
3. Place the WXHAP 200 hot air tool into the stand (4).
4. Insert the electrical plug (1) of the WXHAP 200 into the socket on the control unit and lock the plug into place by turning it slightly to the right.
5. Push the air hose of the WXHAP 200 (2) onto the air nipple on the control unit.
6. Turn on the control unit at the power switch and set the temperature and air flow. Also read and observe the operating instructions of your control unit.

## 5.1 Operating guidelines

CAUTION!

## Excessively long nozzle threads can damage the heater core of your tool.

**The max. thread depth for hot air nozzles is 5 mm (0.2 "). Use of longer threads will cause irreparable damage to the heater core.**

**Use of Non-Weller nozzles may result in damage to the hot air tool and void the warranty.**

▷ Pay attention to the correct thread depth of the screw-in nozzles!

▷ Always use Weller original hot air nozzles!

The WXHAP 200 is supplied with an 8 mm socket wrench. Use this to replace the nozzles. Tighten the nuts on the heater core using the supplied open-end wrench.

**Note** To use the nozzles, screw the supplied nozzle adaptor (5) (T005 87 617 28) into the WXHAP 200 using the 8 AF socket wrench. You can use the same nozzles as those for the WXHAP 200.

Replacement hot air tools are supplied preset and can be connected and used without any need for readjustment.

To check the hot air temperature, it is recommended that you use a special test nozzle (T005 87 278 08) which mates with a sheathed thermocouple (Ø 0.5 mm).

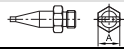
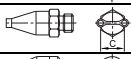
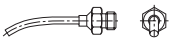
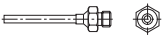
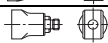
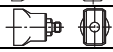
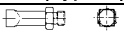
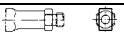
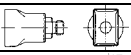
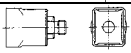
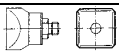
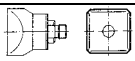
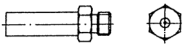
## 6 Accessories

WXHAP 200 Hot Air Nozzles (see overview Hot Air Nozzles)

## 7 Disposal

Dispose of replaced equipment parts, filters or old devices in accordance with the rules and regulations applicable in your country.

# Hot Air Nozzles for WXHAP 200

| Model | | Type | Dimensions A x B | | Order-No. |
|---|---|---|---|---|---|
| | | | inch | mm | |
| F02 |  | Flat nozzle | .059 x .315 | 1,5 x 8,0 | T005 87 277 74 |
| F04 |  | Flat nozzle | .059 x .413 | 1,5 x 10,5 | T005 87 277 73 |
| F06 |  | Flat nozzle | .059 x .472 | 1,5 x 12,0 | T005 87 277 72 |
| FD2 |  | Dual nozzle | Ø .059 x .315 | Ø 1,5 x 8,0 | T005 87 277 76 |
| FD4 |  | Dual nozzle | Ø .059 x .394 | Ø 1,5 x 10,0 | T005 87 277 75 |
| R02 |  | Round nozzle | Ø .031 | Ø 0,8 | T005 87 278 23 |
| R04 |  | Round nozzle | Ø .047 | Ø 1,2 | T005 87 278 21 |
| R06 |  | Round nozzle | Ø .118 | Ø 3,0 | T005 87 278 22 |
| R08 |  | Round nozzle, bent | Ø .079 | Ø 2,0 | T005 87 277 86 |
| R10 |  | Round nozzle, bent | Ø .079 | Ø 2,0 | T005 87 277 87 |
| M6 |  | Adapter | | | T005 87 617 28 |
| **2-side heated (Type D)** | | | | | |
| D04 |  | Nozzle | .413 x .413 | 10,5 x 10,5 | T005 87 277 79 |
| D06 |  | Nozzle | .394 x .512 | 10 x 13 | T005 87 277 82 |
| D08 |  | Nozzle | .394 x .591 | 10 x 15 | T005 87 277 81 |
| D10 |  | Nozzle | .394 x .709 | 10 x 18 | T005 87 277 84 |
| **4-side heated (Type Q)** | | | | | |
| Q02 |  | Hot air nozzle | .236 x .256 | 6 x 6,5 | T005 87 277 77 |
| Q04 |  | Hot air nozzle | .236 x .354 | 6 x 9 | T005 87 277 78 |
| Q06 |  | Hot air nozzle | .394 x .591 | 10 x 15 | T005 87 277 80 |
| Q08 |  | Hot air nozzle | .492 x .591 | 12,5 x 15 | T005 87 277 83 |
| SK709 |  | Hot air nozzle | .472 x .472 | 12 x 12 | T005 87 278 12 |
| Q10 |  | Measuring nozzle | .709 x .709 | 18 x 18 | T005 87 277 85 |
| R01 |  | Measuring nozzle for thermo element | .0197 | Ø .0,5 | T005 87 278 08 |

Subject to technical change without notice.