

USER MANUAL

AIRTAP HAND DRYER

Deck mounted

Prod. no. 371/471



TABLE OF CONTENTS

Dimensions and technical specifications	3
General safety information	4
Circuit diagram	5
Installation	6
Installation height	10
Product application	10
Light indicator	10
Cleaning and maintenance	11
Timer settings	12
Troubleshooting and corrective actions	13
Parts list	14
Spare parts list	

IMPORTANT!

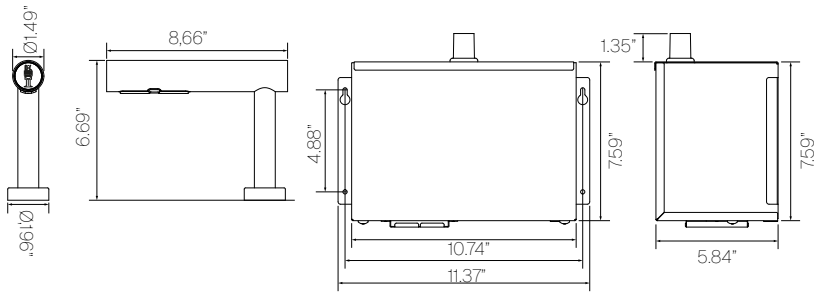
This product falls within the scope of the WEEE directive on recycling and recovery of waste electrical and electronic equipment.

- This product should not be disposed of with general household waste
- This product must be reused if possible
- Contact your local authority for further details
- This product may also be returned to the manufacturer/retailer for proper treatment, recovery, and recycling
- Read instructions in full before use



DIMENSIONS AND TECHNICAL SPECIFICATIONS

Dimensions / Unit of measurement: inch



TECHNICAL SPECIFICATIONS

DESCRIPTION	DATA
Operating voltage	110V-120V, 50/60Hz, 0.84-1.0kW 220V-240V, 50/60Hz, 0.84-1.0kW
Air temperature	55°C ~ ambient temperature 25°C
Air speed	93-110 m/s (at air outlet)
Motor type	500W (adjustable) carbon brush, 22.000-29.000 rpm.
Motor thermal protecton	Auto resetting, thermostat turns off at: 120V at 135°C 240V at 95°C
Heating element	100 - 500W (adjustable)
Heating element protection	Auto resetting, thermostat turns circuit off at: 85°C, thermal fuse turns off at 142°C
Drying time	≤ 10-15 seconds
Stand-by power	0.3-0.4W
Sensor type	Infrared, self adjusting
Sensor range	110-230 mm adjustable. Standard 130 mm± 20 mm
Protection time	60 seconds auto shut off
IP Class	IP35
Insulation class	Class 1
Net weight	12.34 lb
Gross weight	17.85 lb
Model	371, Stainless steel, satin finish, 110V 471, Stainless steel, black PVD coating, 110V

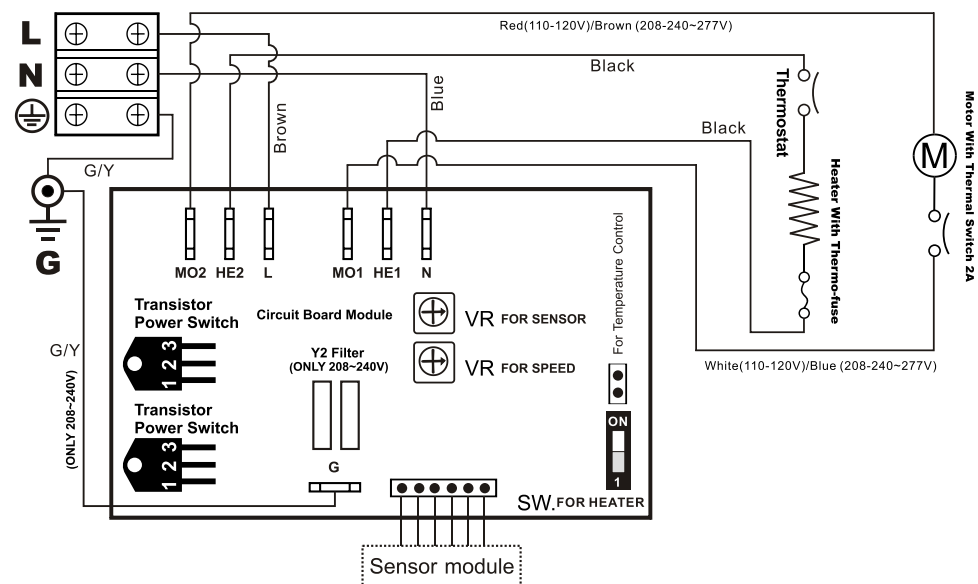


GENERAL SAFETY INFORMATION

WARNING

- Before use, the appliance must be properly mounted and installed by a qualified electrician
- Important: To ensure extra protection, it is recommended to install a residual current device (RCD) in the electrical system supplying the appliance, with a tripping threshold of no more than 30 mA. For further information, please consult an authorized electrician
- Check that the unit is connected to a device ensuring disconnection of all poles from the power supply under conditions of overvoltage category III
- Make sure the appliance is completely dry before use
- Never place the appliance in locations where it may fall into water
- Do not attempt to retrieve an electrical appliance that has fallen into water
- This appliance may be operated by children aged 8 years and above and by persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided they are under proper supervision, or have been instructed on the safe use of the appliance and understand the related risks
- Children must not play with the appliance
- Children must not carry out cleaning or maintenance without supervision
- Only connect the appliance to an AC power source and check that the mains voltage corresponds to the voltage indicated on the appliance
- Use the hand dryer in such a way that the air vents are not blocked
- Do not use the appliance if it shows signs of malfunction. Never attempt to repair electrical appliances yourself; always contact an authorized electrician. If the power cord is damaged, it must be replaced by the manufacturer, our technical service center, or a person with equivalent qualifications, in order to avoid any risk
- Packaging elements (plastic bags, cardboard boxes, etc.) must be kept out of the reach of children, as they may pose a potential hazard
- This appliance must only be used for its expressly intended purpose: drying hands. Any other use is considered improper and therefore dangerous. The manufacturer declines all responsibility for any damage resulting from incorrect or improper use
- The sound pressure level of professional hand dryers is less than 70 dB(A)

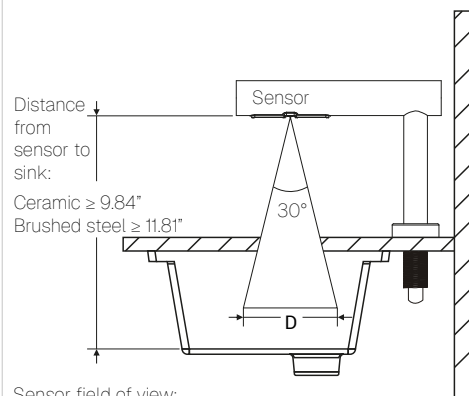
CIRCUIT DIAGRAM



INSTALLATION

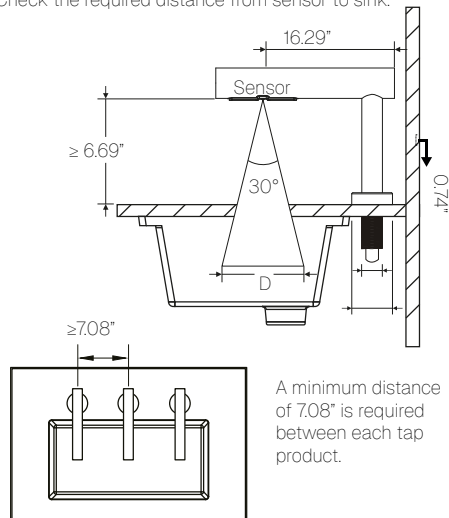
Make sure the main breaker is turned off. Installation must be carried out by a qualified person in accordance with applicable standards in the country concerned.

1. Check the required distance from sensor to sink.

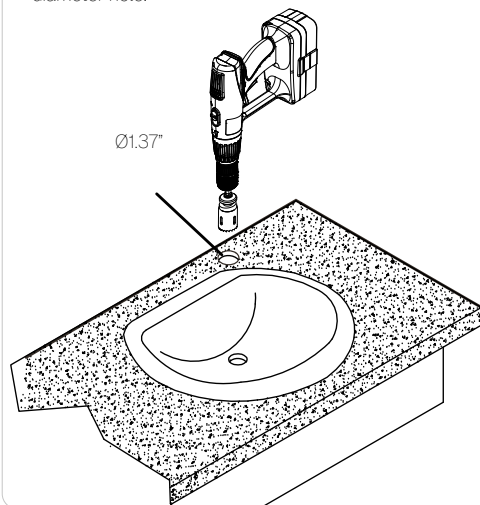


Sensor field of view:
Object distance $9.84"$: $D \leq 5.03"$
Object distance $11.81"$: $D \leq 6.10"$
Objects within range D may cause unintentional activation.

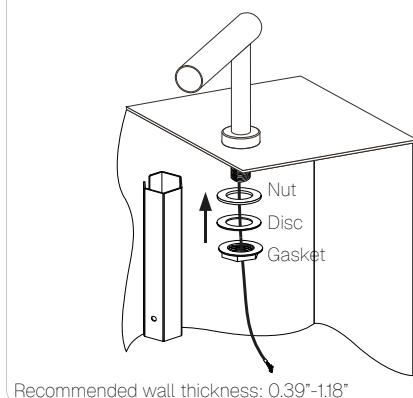
2. Check the required distance from sensor to sink.



3. Mark the desired position on the wall and drill a $\varnothing 1.37"$ diameter hole.

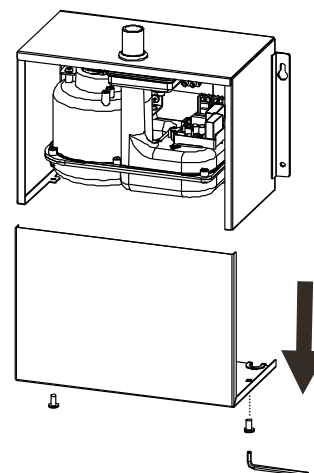


4. Installation of the tap:
A) Push the screwed bushing through the hole in the wall.
B) Place gasket, disc, and nut on the threaded coupling of the tap.
C) Tighten with tool, be careful not to overtighten the nut.

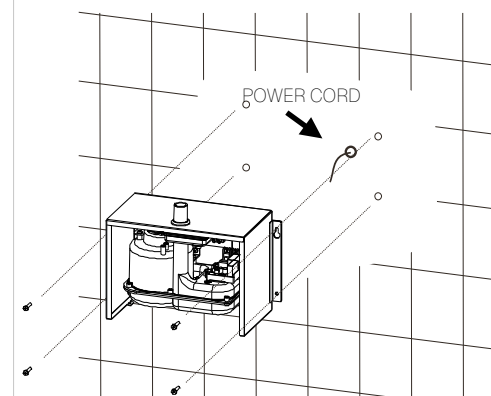


INSTALLATION

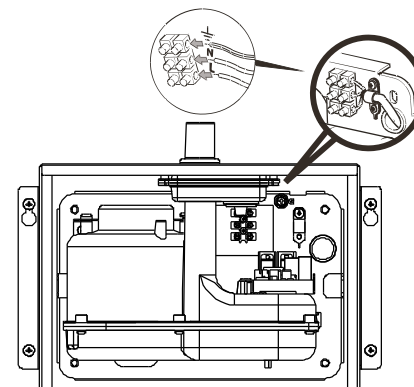
5. Unscrew (2) bottom screws and remove cabinet using the allen wrench included.



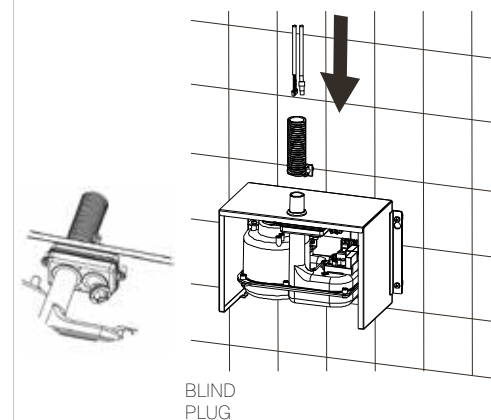
6. Mount unit cabinet to the wall. Insert power cord through the inlet hole located in the back of the cabinet, or through the premade opening at the bottom of the cabinet. Connect power cord to hand dryer. It may be necessary to remove a plate to push the cord through.



7. Connect supply wires to terminal block:
A) Connect phase wire (black or brown) to terminal block "L".
B) Connect neutral wire (light blue) to terminal block "N".
C) Connect earthing (yellow/green) to terminal block "⊕"

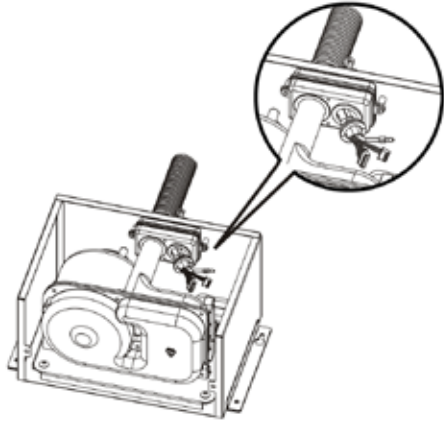


8. Remove end cap from blind plug. Pull wires and earthing through the flexi hose and air branch on motor. Fasten the flexi hose to the cabinet branch. Attach the opposite end of the flexi hose to branch on tap.



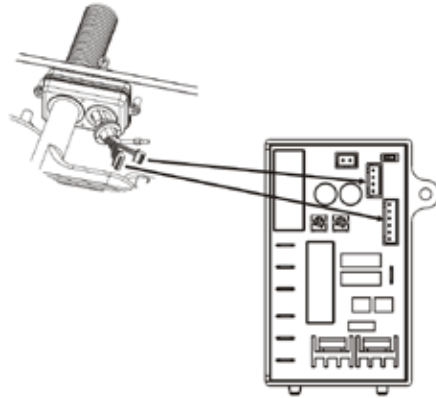
INSTALLATION

9. Close wires and earthing with suitable blind plugs.



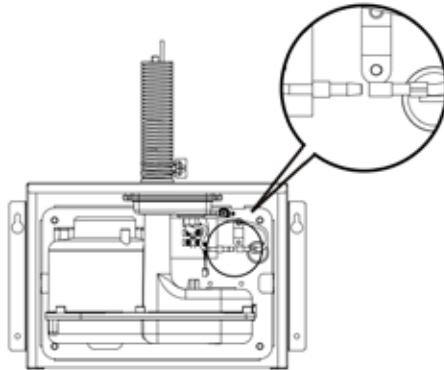
Fit blind plug into the mounting cap to create an airtight seal.

10. Connect plugs to timer via respective ports.

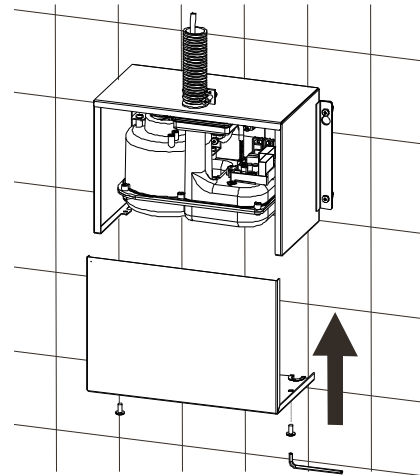


Make sure to orient the plugs correctly.

11. Connect earthing.



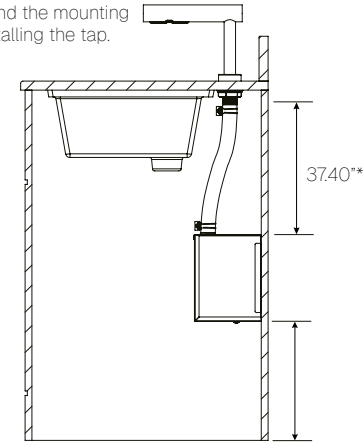
12. Mount cabinet front and tighten (2) screws.



INSTALLATION

113. Place fan for the hand dryer behind the wall.

There must be sufficient space behind the mounting wall for installing the tap.



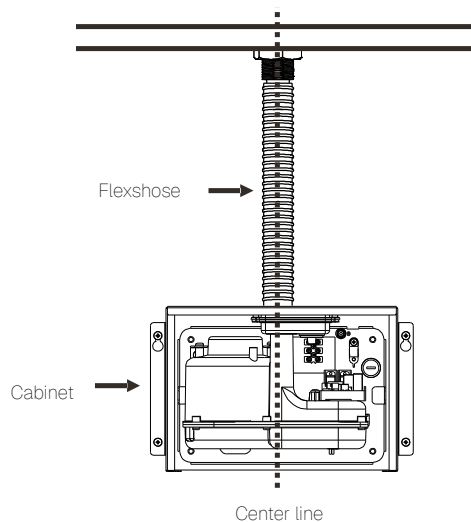
* Standard dimensions with 1200 mm flexible hose

IMPORTANT

Ensure easy access to maintenance and cleaning of the unit

- Add extra space (+30 mm) at the air inlet if a HEPA filter should be fitted
- It is recommended to install a power switch to the hand dryer to ensure easy disconnection of electricity supply before cleaning and maintenance
- Do not turn or bend the flexi hose too sharp. This will reduce the air velocity and thus increase the drying time
- Ensure unit is installed on solid and stable background
- If in doubt, contact Dan Dryer

INSTALLATION HEIGHT



RECOMMENDATION:

Tolerance for position of flexi hose from centre line ± 2 cm. If tolerance, for any reason, deviates more than ± 2 cm on the determined installation position, it must be ensured that the hose is not bent or curved.

A bent or curved hose can cause reduced air velocity and air volume.

PRODUCT APPLICATION

- Shake excess water from hands
- Place hands under the dryer to turn it on
- Place your hands approx. 10-15 cm under the unit
- Move your hands slowly through the airflow from your wrists to finger tips to make the water roll off your hands
- The dryer stops automatically when hands are moved away

LIGHT INDICATOR

Standby	Solid red light
Active	Light changes from blue to red

CLEANING AND MAINTENANCE

Routine cleaning and maintenance is recommended every 12 months. This may be required more frequently depending on the local conditions.

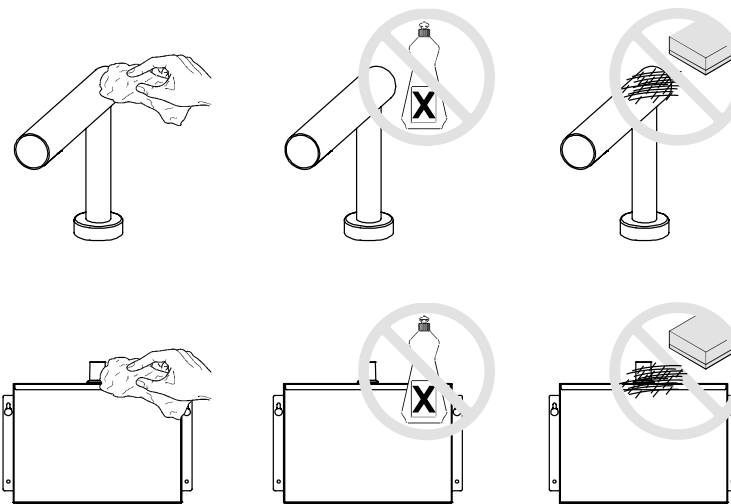
Carbon brushes are wearing parts and need to be checked more often to prevent damage to the motor.

CLEANING AND MAINTENANCE OF CABINET/MOTOR

- Cut the power
- Unscrew (2) bottom security screws
- Remove cabinet front
- Clean the cabinet inside and remove dust/dirt. Compressed air can be used
- Do not rinse with running water
- Use a damp cloth and mild cleaning solution. Never use cleaning detergents with an abrasive effect
- Replace cabinet front and tighten screws. Ensure not to overtighten screws

CLEANING AND MAINTENANCE OF TAP/SENSOR

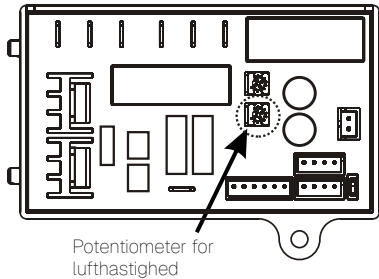
- Do not rinse with running water
- Use a damp cloth and mild cleaning solution.
Never use cleaning detergents with an abrasive effect
- Clean sensor for dust and dirt to prevent unintentional activation





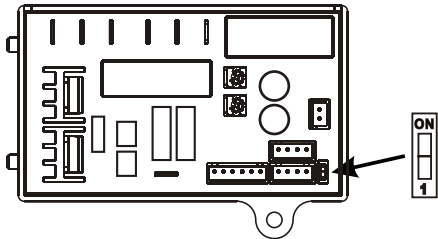
AIR SPEED ADJUSTMENT

- Switch off power and remove front cover
- Air speed is adjusted on the potentiometer
- Use Phillips screwdriver or flat notch
- Turn clockwise to increase air speed (+)
- Turn counterclockwise to decrease air speed (-)
- Be careful not to overturn the adjustment screw



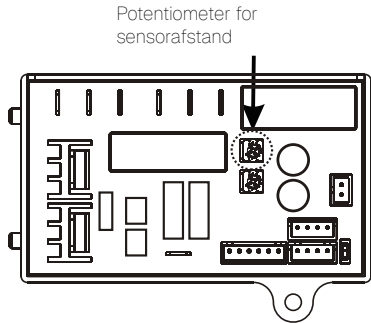
SWITCH FOR HEATING ELEMENT

- Switch off power and remove front cover
- Switch for heating element is placed on timer.
Use a flat notch to activate/deactivate
- Move switch to "ON" → heating element active
- Move switch to "1" → heating element not active



SENSOR RANGE ADJUSTMENT

- Switch off power and remove front cover
- Use Phillips screwdriver or flat notch
- Adjust sensor activation range on the potentiometer
- Sensor range can be adjusted between 3.93" and 9.05"
Standard range: 5.11" ± 0.78"
- Turn clockwise: Increasing sensor activation range (+)
- Turn counterclockwise: Decreasing sensor activation range (-)
- Sensor activation is affected by the ambient environment,
e.g. light and distance to the bottom of the sink
- Be careful not to overturn the adjustment screw
- To ensure the hand dryer functions uninterrupted the activation
distance should as minimum be set at the recommended standard
range



TROUBLESHOOTING AND CORRECTIVE ACTIONS

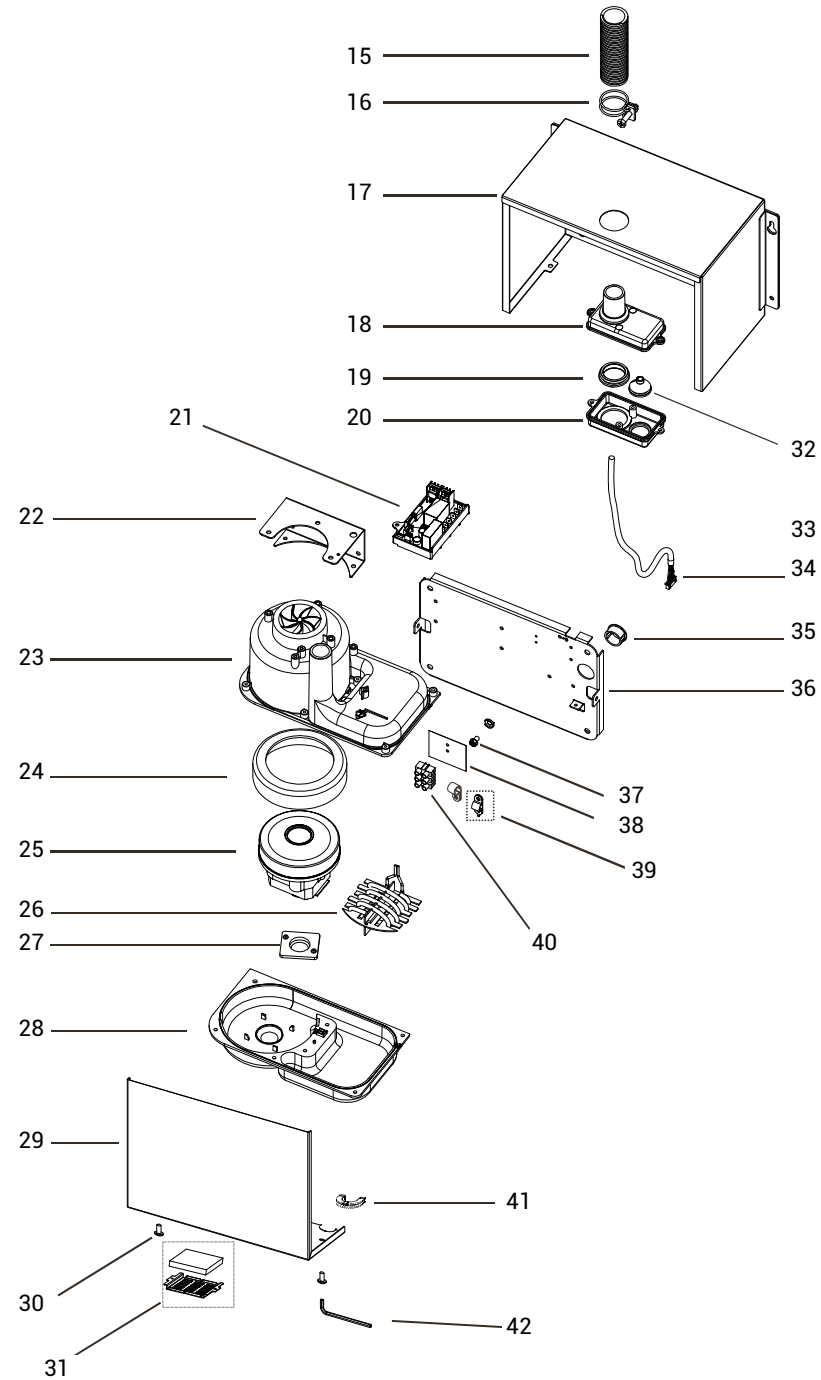
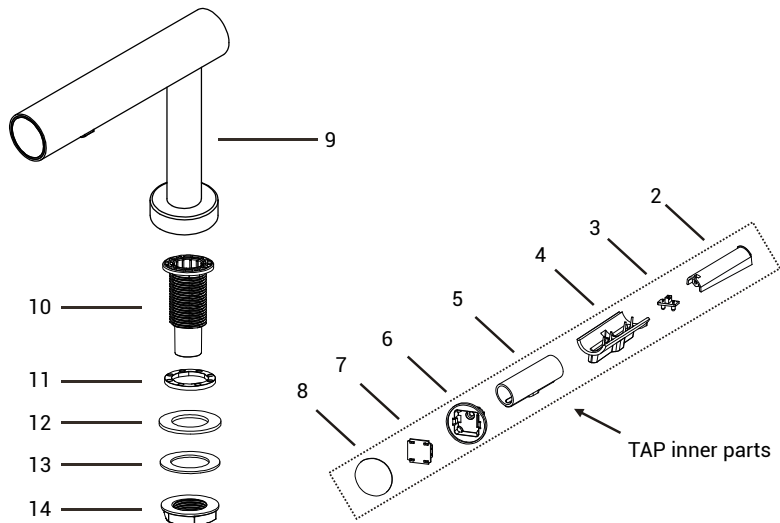
SYMPTOM	CORRECTIVE ACTION: NEW HAND DRYER
Hand dryer does not start	Check power supply to the product and ensure the connections at the terminal block are made properly.
Hand dryer cycles by itself and runs constantly	Make sure nothing is obstructing the IR-sensor activation area. If the problem persists, check the recommended installation height.
Hand dryer is very loud and does not run for a complete cycle	Ensure power supply is correct If the timer is damaged, replace both timer and sensor.
Hand dryer runs randomly and stops before the cycle is finished	Check timer and sensor. Replace if required.
The hand dryer runs, but the airdspeed is low	Ensure the voltage is correct. Check setting of potentiometer for air speed adjustment (see page 12).

SYMPTOM	CORRECTIVE ACTION: USED HAND DRYER
Hand dryer does not start	Check power supply to the product and ensure the connections at the terminal block are made properly.
IR-sensor only detects motion when hands are placed really close to the hand dryer	Make sure nothing is obstructing the IR-sensor. Clean sensor. If the problem persists, disconnect the power and remove the cabinet, taking suitable precaution to avoid schock hazard. Carefully adjust sensor range (see paragraph on this subject). If the problem persists, replace sensor and timer.
Hand dryer blows only cold air during a full cycle	Disconnect the power. Remove cabinet and disassemble the blower/fan unit. Test the thermostat for open circuit. Check the heating element for defects. Replace defect heating element.
LED indicator does not work	Confirm the unit works properly. If yes, replace LED circuit board.
Hand dryer does not run smoothly	Check carbon brushes. Replace if they are worn or damaged. If no faults are detected, replace motor.



PARTS LIST

No.	Description	No.	Description
2	Sensor housing (upper part)	23	Blower housing (upper part)
3 + 4	Sensor + outlet branch	24	Motor rubber (upper part)
5	Silicone lining	25	Motor
6	Holder for LED circuit board	26	Heating element
7	LED circuit board	27	Motor rubber (lower part)
8	End piece	28	Blower housing (lower part)
9	Tap	29	Cabinet (front part)
10	Threaded bushing	30	Hexagonal security screw
11	Small rubber gasket	31	Filter set (filter and holder)
12	Large rubber gasket	32	Rubber bush
13	Stainless steel disc	33	Earthing
14	Nut	34	Sensor cable
15	Flexi hose (30 cm)	35	Nylon bushing
16	Clamp for flexi hose (2 pcs.)	36	Back plate
17	Stainless steel cabinet (back)	37	Earthing screw
18	Mounting cap	38	Insulation mylar
19	Gasket for wire set	39	Cable clamp
20	Mounting cap (lower part)	40	Terminal
21	Timer	41	Cable protection
22	Gasket for mounting cap	42	Allen screw



SPARE PARTS

Pos. nr.	Art. nr.	Spare part
3 + 4	51607	Outlet nozzle with sensor
5	51665	Silicone holder
6	51648	Plastic holder for LED terminal board
7	51608	LED terminal board
8	51620	End piece "AIR TAP"
9	51602	TAP with cable, deck-mounted (120cm) (incl. art. 1-4+33,34)
	51604	TAP with cable, wall-mounted (120cm) (incl. art. 1-14+33,34)
10	51705	Bushing
11	51706	Gasket small
12	51700	Gasket big
13	51697	Disc, stainless
14	51696	Nut
15	51622	Flex hose (45 cm)
	51623	Flex hose (150 cm)
16		Clamp for flex hose
21	51605	Timer 230V (60Hz)
	51614	Timer 120V (50Hz)
23		Cap for mounting of hose (motor part)
25	51600	Motor 230V (60Hz)
	51601	Motor 120V (50Hz)
26	51612	Heating element 230V (60Hz)
	51613	Heating element 120V (50Hz)
31	51615	Filter holder + carbon filter
	51617	Carbon filter



DAN DRYER A/S
Tåsingevej 2
DK - 8940 Randers SV

+45 8641 5711
info@dandryer.com
dandryer.us

