

mediclinics

HAND DRYERS / SECADOR DE MANOS / SÈCHE-MAINS

M09A-UL / M09AC-UL / M09ACS-UL



**INSTALLATION AND OPERATING MANUAL
MANUAL DE INSTALACIÓN Y UTILIZACIÓN
MANUEL D'INSTALLATION ET D'UTILISATION**

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INTRODUCTION

'Machflow' range hand dryers offer the following technical features:

- Automatic operation. Hand detection is based on IR-type movement sensors.
- These hand dryers have a provision for grounding.
- They provide a potent beam of air, intense and even.
- The distance for detecting hands is adjustable.
- The speed of the air generated by the hand dryer can also be adjusted, to achieve an optimum balance between the drying power and noise level.
- The hand dryers include an intelligent detection system which eliminates static 'targets' (marble, shelves or similar). After detecting a static target, the dryer will disconnect a few seconds later.
- It includes a vandal-proof system with an automatic stop. Maximum continuous functioning time is 60 seconds.
- It includes a universal high speed motor that is activated gradually to control the inertia of its ignition torque and thus ensure a longer useful life of the hand dryer.

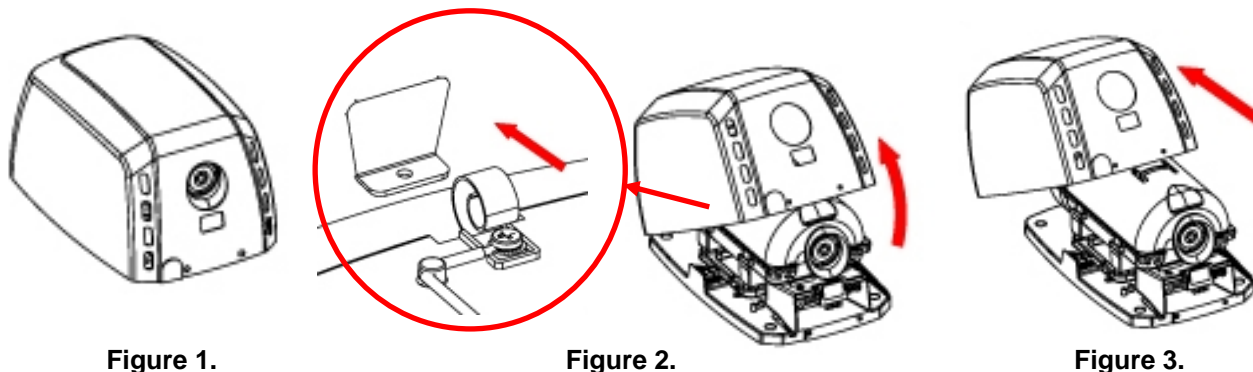
ONLY A QUALIFIED TECHNICIAN CAN INSTALL, ADJUST AND MAINTAIN THIS HAND DRYER.

INSTALLATION

Removal of the casing.

- The hand dryer is supplied with the casing fitted to the base without tightening (Figure 1).
- Carefully remove the casing since it is connected to the base by a tab that joins the two pieces (casing and base) at the rear (Figure 2).
- Remove the casing keeping it at an angle at all times (Figure 3) until the upper tab is completely withdrawn, taking care to:
 - ✓ not damage the internal components, in particular the electronic circuit,
 - ✓ not scratch or damage the LED sensor screen,
 - ✓ not damage the surface of the casing.

CAUTION ⚡: RISK OF ELECTRIC SHOCK – WHEN CASING IS DISMANTLED, ACTIVE PARTS MAY BE ACCESSIBLE.



Assembly

Connection to the power grid will be preferably through the rear plug.

In order to assemble the hand dryer complete the following steps:

- Make four drill holes with an 8 mm (0,31") diameter in the wall, using the provided template (Figure 4).
- Clean the dust away from the holes and insert the wall plugs.
- Pass the electrical cables from the power grid through the hole with the 22 mm (0,87") diameter which is situated above the device's terminal strip (Figure 5).

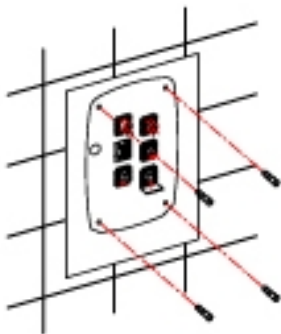


Figure 4.

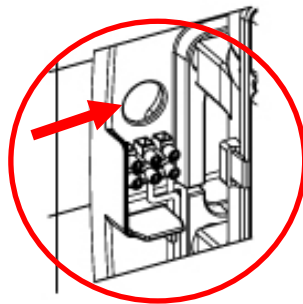


Figure 5.

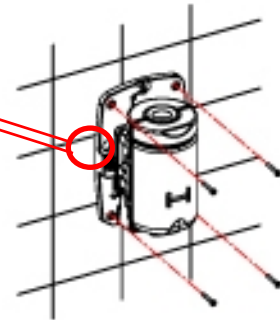


Figure 6.

- Firmly screw the base of the device to the wall (Figure 6), ensuring that the 4 silent-blocks are correctly placed between the base and the wall.
- Connect the electrical cables to the hand dryer's terminal strip. Connect the cables corresponding to the two phases (N and L) and to earth in the corresponding sockets of the terminal strip, as indicated by the engraved letters (Figure 7).



Figure 7.

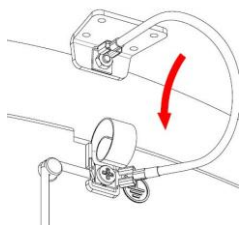


Figure 8.

- The hand dryer must be installed permanently wired to the main power and the installation, operation and maintenance must be conducted in accordance with the National Electrical Code, ANSI/NFPA 70 applicable work and safety codes.
- The hand dryer must be installed against a solid surface only (wall, partition, or similar).
- Connect earth wire supplied from the upper rib of metal casing to grounding terminal on base plate as shown on Fig.8.
- Carefully place the casing on the base of the device. To do so place it over the base with a slight incline from top to bottom, in such a way that the tab in the casing correctly inserts into the corresponding slot in the base (Figures 8 and nº 9).
- Place the screws for fixing the casing to the base, fixing them tightly using the special spanner provided (Figure 10).

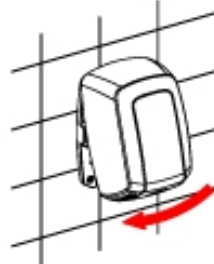


Figure 9.

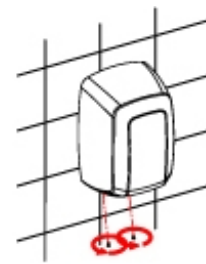


Figure 10.

- During this process of fitting the casing to the base take care not to damage the electronic circuit that is below the hand dryer's nozzle (Figure 11).
- It is also very important to ensure that once mounted and screwed to the base the casing has the plastic protector correctly placed on the lower inverted "U" shaped window (Figure 12).

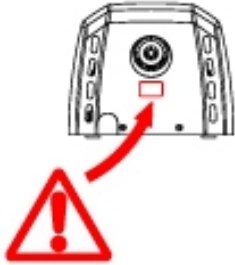


Figure 11.

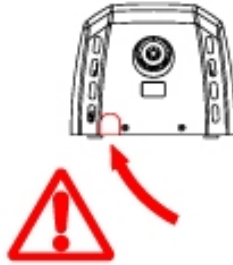


Figure 12.

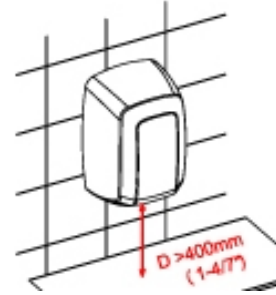


Figure 13.

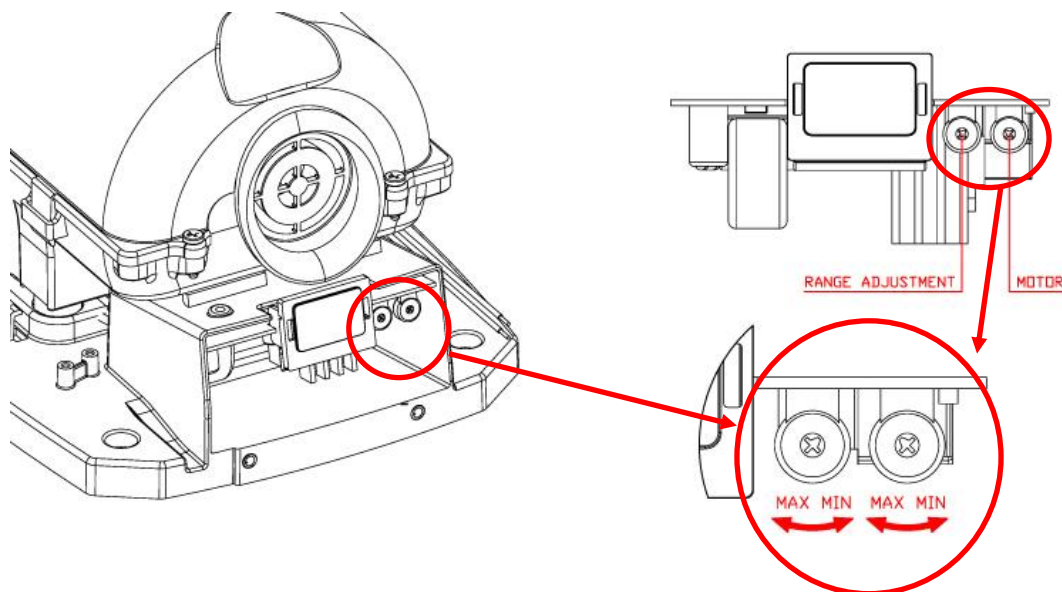
NOTE: contemplate a minimum distance of 400 mm (15,80") away from ledges, marble tops or wash basins (Figure 13). Avoid as much as possible the presence of reflecting surfaces within the area of the hand dryer's IR sensor.

Adjust the speed of the motor and the detection distance.

The hand dryer has means to adjust manually the distance for detecting hands and the speed of the drying air.

These adjustments of the motor speed and detection distance must be made by a qualified technician only.

The adjustments can be made by moving the respective cursors of the two linear potentiometers, as shown in figure 14.



HOW TO USE

The hand dryer starts automatically when the hands are placed near the LEDs detection zone, which is just next to the air outlet. Hand detection and the ensuring starting of the machine is based on emission-reflection-reception of an IR light beam coming from the sensors. The detection distance is between 120 and 150 mm approximately. (4.72 – 5.9”).

For good hand drying it is advisable to rinse the hands properly in order to remove totally any remains of soap.

In order to start the hand drying process, the hands must be rubbed together at an approximate distance of 600 - 700 mm (2,36 - 2,76") from the air output (see figure 15). The hand dryer will stop within 2 - 3 seconds, once the hands are removed.

The detection range can be adjusted by turning the potentiometer as shown in figure 14.

The maximum time for which the hand dryer will function continuously is 60 seconds. After this time, the hands must be removed from the hand dryer and placed next to it in the same zone once more in order to start the hand dryer up again.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

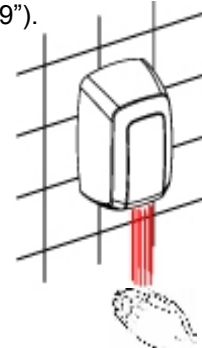


Figure 15.

CHILDREN SHOULD BE SUPERVISED TO ENSURE THAT THEY DO NOT PLAY WITH THE APPLIANCE.

PREVENTIVE MAINTENANCE AND CLEANING

Adequate cleaning of the hand dryer will extend its useful life. It is recommended to remove any dust accumulated inside the hand dryer at least once a year.

To clean the hand dryer correctly, take the following steps:

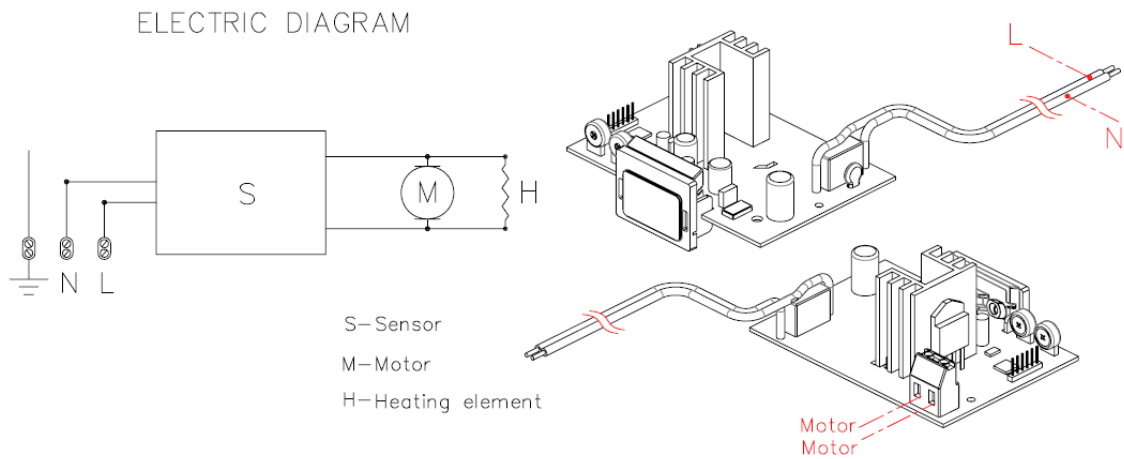
- Disconnect the hand dryer from the power supply.
- Remove the two lower screws that fix the casing to the base using the special spanner provided.
- Remove the casing as instructed in the chapter "Removing the casing" and place it on a cloth, to prevent scratching or rubbing at all times.
- Clean away the dust and remove any dirt accumulated inside the hand dryer, using a dry cloth or a soft brush.
- Clean from the air input to inside the motor (upper part of the nozzle) preventing dust or dirt falling inside the turbine-motor assembly.
- Carefully clean the dust away from around the electronic circuit located inside its box-type housing. Carry out this operation taking maximum care not to damage any component of the electronic circuit.
- Use a soft cloth to clean the surface of the IR sensor protector screen.



- Clean the casing using a damp cloth moistened in a solution of neutral soap and water. After cleaning the entire surface rinse the soap from the casing using another cloth moistened in water and dry using a dry cloth.
- Close the hand dryer by assembling the casing once more, tightening the screws that fix the casing to the base and connect to the power grid.
- Start the hand dryer up 2 or 3 times in a row to ensure that all remaining dust is extracted.

ATTENTION: Take care at all times not to damage any component of the hand dryer.

CONNECTION DIAGRAM

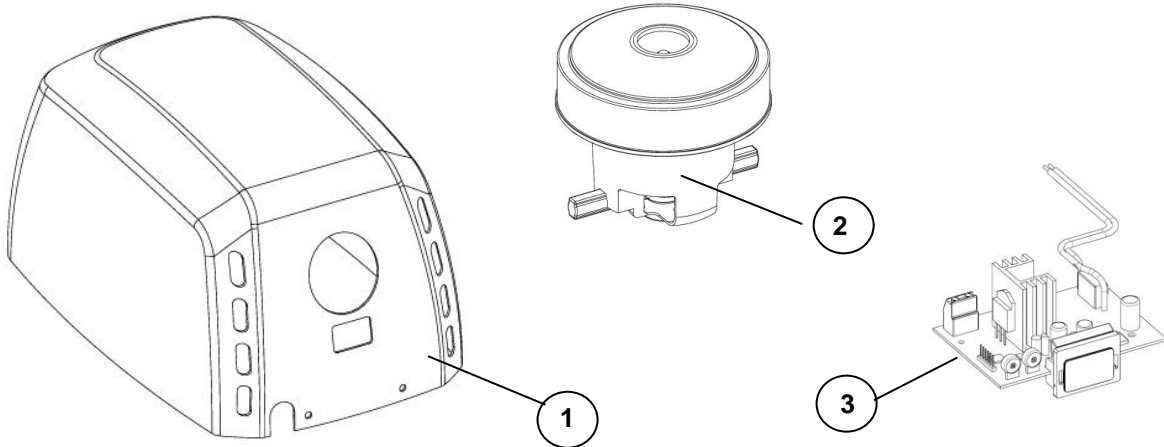


DANGER.
Electric shock
risk

- The installer must make sure that the electric system is grounded in accordance with the law in force.
- Make sure that the electric system has a high-sensitivity breaker $I \Delta n \leq 0.03 \text{ A}$.
- Make sure the machine is disconnected from electric power supply, before performing maintenance operation.

BASIC EXPLODED VIEW

COMPONENT	NUMBER	CODE
Steel casing painted white	1	RC9224008SMD
Stainless steel casing with a polished finish	1	RC9213008SMD
Stainless steel casing with a satin finish	1	RC9212008SMD
Motor assembly	2	RC9111003UL
Electronic circuit	3	RC9121011UL

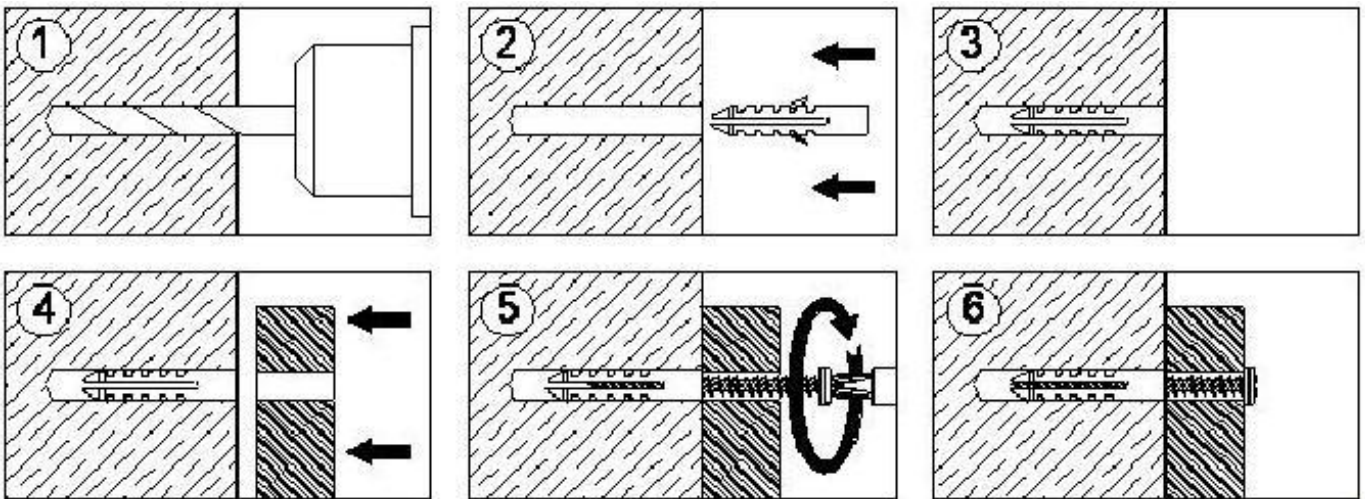


MODEL	MODELO	MODÈLE	M09A-UL	M09AC-UL	M09ACS-UL
GENERAL:	GENERAL:	GÉNÉRAL :			
Power supply:	Alimentación:	Alimentation :	100 – 120 VAC, 208 VAC, 220-240 VAC		
Power consumption:	Consumo:	Consommation :	6,4 – 10 A (To/a : 120 VAC), 2,0 – 5,6 A (To/a : 220 VAC),		
Nominal rating:	Potencia nominal:	Puissance nominale :	450 – 1.300 W (0,603 – 1,743 Hp)		
Weight:	Peso:	Poids :	4,7 Kg. (10,4 lb)		
IP:	IP:	IP:	IP 23		
Type of insulation:	Clase de aislamiento:	Classe d'isolement :	Class I / Clase I		
MOTOR:	MOTOR:	MOTEUR :			
Rating:	Potencia:	Puissance :	400 – 1.050 W (0,54 – 1,41 Hp)		
Type:	Tipo:	Type :	Universal brush motor / Universal de escobillas / Universel à balais		
Speed:	Velocidad:	Vitesse :	19.000 – 30.000 rpm		
TURBINE:	TURBINA:	TURBINE :	High pressure centrifuge / Centrifuga de alta presión / Centrifuge haute pression		
SIZE:	DIMENSIONES:	DIMENSIONS :			
Height:	Alto:	Hauteur :	330 mm (13")		
Width:	Ancho:	Largeur :	213 mm (8,4")		
Depth:	Profundo:	Profondeur :	170 mm (6,7")		
CASING:	CARCASA:	CAPOT :			
Material:	Material:	Matière :	Steel /Acero / Acier	Stainless Steel / Acero inoxidable / Acier inox	
Thickness:	Espesor:	Épaisseur :	1,5 m. (0,06")		
Finish:	Acabado:	Finition :	White paint / Pintado blanco / Peinture blanche	Bright / Brillante / Brillant	Satin / Satinado / Satiné
APPROVALS:	HOMOLOGACIONES:	HOMOLOGATIONS :	UL - 499		
AIR OUTPUT:	SALIDA AIRE:	SORTIE D'AIR :			
Air flow:	Caudal de aire:	Débit d'air :	76 – 116 CFM		
Air speed:	Velocidad del aire:	Vitesse de l'air :	11.800 – 18.000 LFM		

ANNEX

MOUNTING INSTRUCTIONS.

- To mount onto wall, be sure there are no hidden electrical circuits or pipes in the mounting location.
- Place the mounting template (provided) on the wall to mark location of four mounting screw holes.
- Drill four holes (Fig.1) Ø8 (5/16") diameter and 45mm (1 ¾") depth.
- Take off the residual dust from the holes.
- Insert nylon plugs (provided) into four holes (Fig.2-3).
- Place base plate on wall (Fig.4).
- Fix the base plate firmly on the wall (Fig.5-6).



MOUNTING ITEMS PROVIDED.

- 4 screw.
- 4 Plug.
- 1 Mounting template.
- 1 Instruction manual.

