Acme Sanitary Ware Co Ltd
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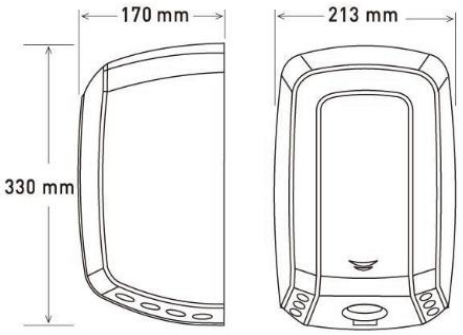
PROJECT		REF		REV	ITEM CODE	
LOCATION		DATE			PAGE	

SANITARY WARE SPECIFICATION SHEET

Item Descriptions	Mediclinics "Machflow®" (Spain) Steel wall-mounted automatic hand dryer with an ionizer in matte black epoxy finish
Dimensions	L213 x W170 x H330 mm
Model	M09AB-I
Material/ Finish	Steel / Matte Black Epoxy Finish
Manufacturer	Mediclinics, S.A. (Spain)
Supplier	Acme Sanitary Ware Co. Ltd Mr. Eric Wong/ Mr. Don Yuen
Contact Tel/Fax E-mail Website	(852) 2388-7171 / (852) 2710-8012 acme@acmesanitary.com.hk www.acmesanitary.com.hk

Illustration/ Drawing



General description

· Sensor operated Machflow Plus hand dryer, available in steel, white or black finish and in AISI 304 stainless steel, bright or satin finish.

· With a compact and very robust design, this hand dryer is energetically very efficient and sustainable, providing great energy savings and ultra-fast hand drying. Strongly recommendedfor high traffic places.

· It has an adjustable power motor that regulates energy consumption (between 420 and 1,500W) and provides a maximum air output speed of 325 km/h that dries your hands between 10 and 15 seconds.

· Machflow Plus can incorporate, optionally, a HEPA filter media that filters the solid particles in suspension (pollen, dust mites, tobacco smoke, etc.) significantly improving air quality.

· As a complement to the HEPA filtermedium, and also optionally, the Machflow Plus can incorporate an ionizer ("Ion Hygienic" technology) that cleans and purifies the air through the emission of anions, eliminating most of the germs and particles transported through the air, helping it to be purer and healthier.

· Optionally, it is also possible to incorporate a quick assembly / disassembly kit for the machine ("Plug-in" kit code KTP009) that allows you to install and uninstall the hand dryer easily, quickly and safely, making maintenance much more efficient and reducing your costs at the same time.

· New air concentrator nozzle which helps to channel better the airflow on the hands. Instead of blowing air all over the hands, it focuses the airflow for a more targeted drying. The narrower opening of the concentrator gives the airflow greater pressure on exit, boosting its speed and thus, making the hand drying process much more efficient.

M09A-I
White epoxy finish

M09AB-I
Matte black epoxy finish

M09AC-I
Bright finish

M09ACS-I
Satin finish

Technical Specifications

Voltage	*220- 240 V*
Frequency	*50/60 Hz*
Electrical Isolation	*Clase I*
Total power	*420 – 1,500 W*
Consumption	*3.2 –6.4 A*
Standby consumption	*0.3 W*
Motor power	*420 – 1,100 W*
Rpm	*19,000 – 30,000*
Heating element power	*400 W (interruptor "ON/OFF")*
Dimensions	*330x213x170 mm*
Weight	*5.1 Kg*
Cover thickness	*1.5 mm*
Drying time	*10-15"*
Effective airflow	*115-180 m3/h –1,917-3,000 L/min*
Air velocity	*191 – 325 Km/h*
Air temperature (10 cm distance/21ºC)	*45 ºC*
Sound pressure (*) (at 2m)	*67-74 dBA*
Protection rating	*IP23*

(*) According to UNE EN ISO 11201:2010 V2 standard

Note: YouTube https://youtu.be/qDUU0ues3DE

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- It has an odor neutralizer, code RCPOM14 that aromatizes and deodorizes the environment thanks to its soft fragrance (optional).
- Machflow Plus is equipped with an automatic safety disconnection system that switches it off automatically after 60 seconds of continuous use.
- It is supplied as standard with all the elements to fix it to a brick wall.

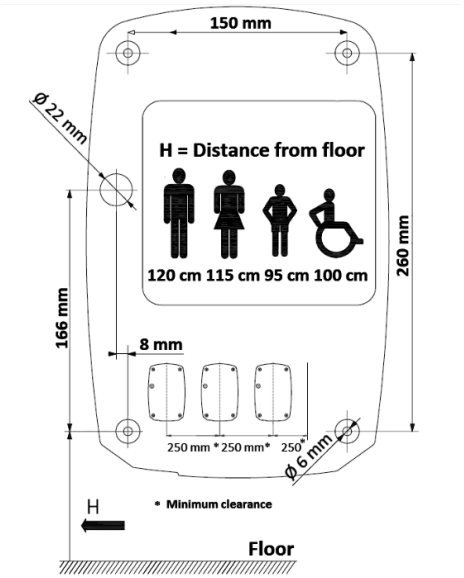
Components and materials

- **COVER**: made of steel (M09A...and M09AB...) or AISI 304 stainless steel (M09AC...and M09ACS...) of 1.5 mm thickness, in one piece without welding.
- **BASE PLATE**: made with PA6V0 fire resistant plastic. It incorporates 4 silent-blocks to cushion mechanical vibrations.
- **INTERIOR SET**: made of PA6V0 fire resistant plastic.
- **MOTOR**: vacuum universal brush motor, F class. Speed may be adjusted manually between 19.000 and 30.000 rpm by means of a potentiometer.
- **HEATING ELEMENT**: minimum waved wire NiCr heating element of 400W, mounted on a mica frame that incorporates a self-resetable thermal cut-off which disconnectsthe whole appliance. The heating element can be disconnected by means of a ON/OFF switch.
- **HANDS DETECTION SYSTEM**: fully adjustable IR electronic detection sensor by means of a potentiometer. Detection distance can be adjusted between 5and 25 cm. It has an automatic disconnection system after 60 "of continuous use.
- **HEPA FILTER MEDIUM**: which filters the solid particles in suspension (pollen, dust mites, tobacco smoke, etc.) significantly improving air quality (optional).
- **IONIZER**: cleans and purifies the air through negative ions (anions) that remove microscopic particles from the air and make it healthier (optional).
- **ODOR NEUTRALIZER**: aromatizes and deodorizes the environment through its soft fragrance (optional).

Operation

Place the hands under the air outflow valve. The dryer will start automatically, and go on with no interruption as long as the hands are kept in the detection range of the sensor. The appliance will stop 2 seconds after the handsare removed from the airflow or 60 seconds after continuous working.

Mounting (Recommended hights distance from the floor)



Heating element ON/OFF switch
Option to turn ON/OFF the heating element

HEPA filter media
clans the air stopping the particles of dirt, dust, bacteria, pollen, etc. Clean and fresh air.

Heating element
For a maximun comfort

Ionizer
Helps to clean and purify the air

The Machflow® Plug-in
technology is an easy, practical, fast and secure system to install and uninstall the hand dryer (optional)

Codes	Cover material	Cover finish
M09A-I	Steel	White
M09AB-I	Steel	Black
M09AC-I	Stainless steel	Bright
M09ACS-I	Stainless steel	Satin

Maintenance videos YouTube

Cover removal : https://youtu.be/tNETgUZ4Ypc
Distance detection and power adjustment : https://youtu.be/AsIxFP3GJcs
Electronic circuit board replacement : https://youtu.be/aiWwbwWuqio
Motor replacement : https://youtu.be/yEqs69A6vL0
Carbon Brushes Replacement : https://youtu.be/WD_omt-MeCc
Heating element replacement : https://youtu.be/Lu3kCLsYExE

Note: YouTube https://youtu.be/qDUU0ues3DE

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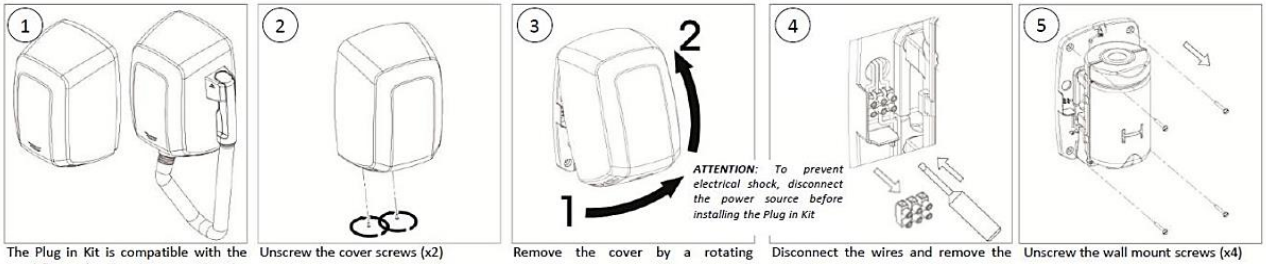
PLUG-IN SYSTEM

The Machflow® Plug-in technology is an easy, practical, fast and secure system to install and uninstall a hand dryer, making maintenance much more efficient and reducing at the same time its costs.

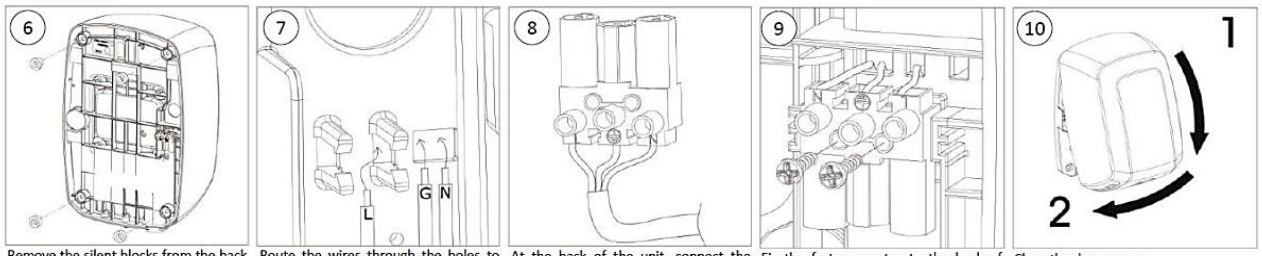
With the Machflow® Plug-in technology a hand dryer can be installed in a few steps and it can be replaced in less than 10 seconds thanks to its SMED (Single-Minute Exchange of Die) system. Furthermore its maintenance can be carried out better at the maintenance workshop and it is totally secure against electric shocks. All of these benefits allow you to reduce the

This fast install/uninstall technology to the wall is **optional** and it is carried out by means of a special kit code: KTP009.

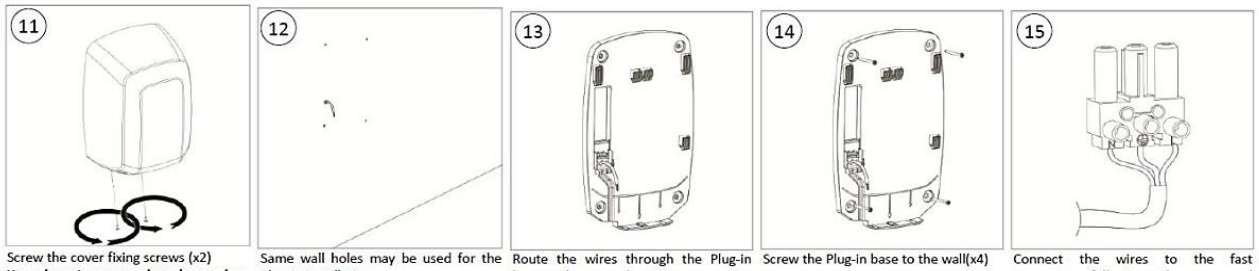
Installation of the dryer with this system is as follows



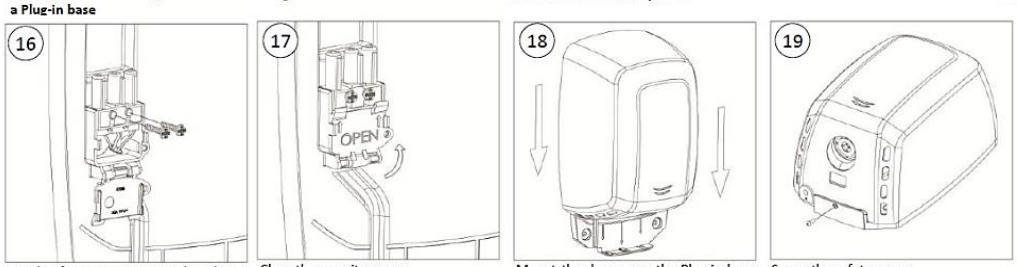
1. The Plug in Kit is compatible with the Machflow hand dryer and the Machflow hairdryer
2. Unscrew the cover screws (x2)
3. Remove the cover by a rotating movement
4. Disconnect the wires and remove the power strip
5. Unscrew the wall mount screws (x4)



6. Remove the silent blocks from the back of the unit (x4)
7. Route the wires through the holes to the back of the unit as shown on the picture
8. At the back of the unit, connect the wires to the fast connector following the engraved letters (N, L and Earth)
9. Fix the fast connector to the back of the unit using 2 screws
10. Close the dryer cover



11. Screw the cover fixing screws (x2)
Your dryer is now ready to be used on a Plug-in base
12. Same wall holes may be used for the Plug-in installation
13. Route the wires through the Plug-in base as shown on the picture
14. Screw the Plug-in base to the wall(x4)
15. Connect the wires to the fast connector following the engraved



16. Fix the fast connector to the Plug-in base using 2 screws
17. Close the security cover
Your Plug-in base is now ready to be used with a Plug-in dryer
18. Mount the dryer over the Plug-in base with a from top to down movement
19. Screw the safety screw
Your dryer is ready to be used

Note: YouTube https://youtu.be/qDUU0ues3DE

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HAND DRYERS

Table

	MODEL	OPERATION		DIMINENSIONS	Ionizer	HEPA filter media	Drain Pipe	ADJUSTABLE POWER	MOTOR			TRAFFIC FREQUENCY		
		manual	sensor	(mm)					induction	brush	brushless	HIGH	MEDIUM	LOW
	dualflow plus											dualflow plus		
	M24A		●	L320xD228xH665	❊	●	❊				●	●		
	M24AB		●		❊	●	❊				●	●		
	M24ACS		●		❊	●	❊				●	●		
	M14A		●		❊	●	❊	●		●		●		
	M14AB		●		❊	●	❊	●		●		●		
	M14ACS		●		❊	●	❊	●		●		●		
	machflow plus / machflow										machflow plus / machflow			
	M19A		●	L213xD170xH330	❊	❊		●			●	●		
	M19AB		●		❊	❊		●			●	●		
	M19AC		●		❊	❊		●			●	●		
	M19ACS		●		❊	❊		●			●	●		
	M09A		●		❊	❊		●		●		●		
	M09AB		●		❊	❊		●		●		●		
	M09AC		●		❊	❊		●		●		●		
	M09ACS		●		❊	❊		●		●		●		
	speedflow plus / speedflow									speedflow plus / speedflow				
	M17A		●	L290xD100xH270 (INSIDE CABINET)	❊	●		●		●		●		
	M17AB		●		❊	●		●		●		●		
	M17AC		●		❊	●		●		●		●		
	M17ACS		●		❊	●		●		●		●		
	M17AF		●		❊	●		●		●		●		
	M06A		●					●		●		●		
	M06AB		●					●		●		●		
	M06AC		●					●		●		●		
	M06ACS		●					●		●		●		
	M06AF		●					●		●		●		
	saniflow											saniflow		
	E05	●		L276xD214xH245						●		●		
	E05B	●								●		●		
	E05C	●								●		●		
	E05CS	●								●		●		
	E85	●		L282xD215xH255						●		●		
	E88	●		L278xD212xH248						●		●		
	E88B	●								●		●		
	E88C	●								●		●		
	E88CS	●								●		●		
	E88O	●								●		●		
	E05A		●	L276xD214xH245	●					●		●		
	E05AB		●		●					●		●		
	E05AC		●		●					●		●		
	E05ACS		●		●					●		●		
	E85A		●	L282xD215xH255	●					●		●		
	E88A		●	L278xD212xH248	●					●		●		
	E88AB		●		●					●		●		
	E88AC		●		●					●		●		
	E88ACS		●		●					●		●		
	E88AO		●		●					●		●		
	mediflow											mediflow		
	M02A		●	L275xD164xH325	●					●			●	
	M02AB		●		●					●			●	
	M02AC		●		●					●			●	
	M02ACS		●		●					●			●	
	M03A		●		●					●			●	
	M03AB		●		●					●			●	
	M03AC		●		●					●			●	
	M03ACS		●		●					●			●	
	optima											optima		
	M99A		●	L260xD150xH302	●				●				●	
	M99AC		●		●				●				●	
	M99ACS		●		●				●				●	
	juniorplus											juniorplus		
	M88APLUS		●	L253xD150xH303	●				●				●	
	M88PLUS	●		L253xD153xH303					●				●	
	smartflow											smartflow		
	M04A		●	L147xD138xH259	●					●				●
	M04AC		●		●					●				●
	M04ACS		●		●					●				●

❊ Optional