

dyson airblade wash+dry

PRE-INSTALLATION INFORMATION

WD WD WD
04 05 06



Sink specification guidelines

Using a specially designed test method, Dyson engineers tested a wide range of sinks to assess their compatibility with the Dyson Airblade Wash+Dry hand dryer. For recommended sinks, please use our guide at www.dyson.com/docs

Porcelain or brushed metal sinks are ideal.

Sinks with highly polished surfaces should be avoided e.g. reflective chrome.

Faucet mounting

The faucet stem (measured from the outside diameter) should be mounted $\frac{1}{2}$ " - $1\frac{1}{2}$ " (15-40 mm) from the outside edge of the sink.

There should be a minimum of $11\frac{1}{2}$ " (290 mm) between a faucet center and a side wall. When multiple faucets are installed side-by-side, faucet centers should be a minimum of $22\frac{7}{8}$ " (580 mm) apart. This allows sufficient space for mounting the motor bucket, as well as sufficient shoulder room for users.

Fig.1

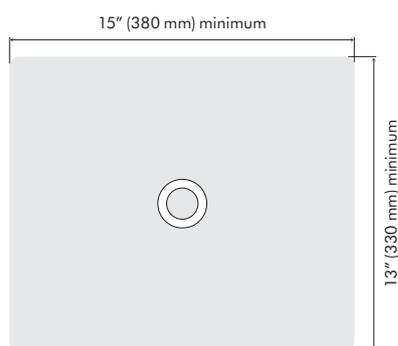


Fig.2

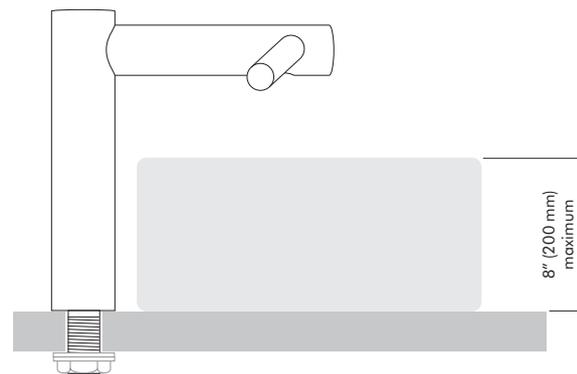
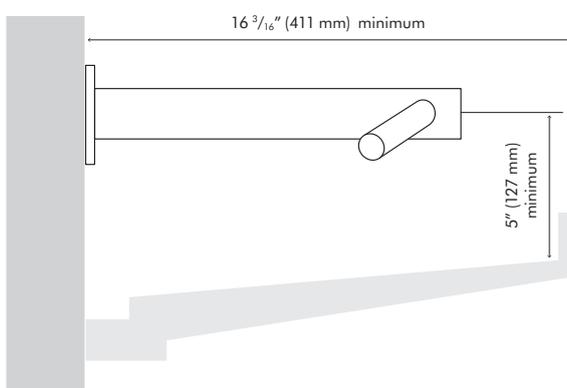


Fig.3



Sink dimensions (All internal measurements unless otherwise stated)

Fig.1 Width of sink minimum: 15" (380 mm),
Front to back of sink minimum: 13" (330 mm)

Fig.2 Maximum depth of sink for Tall Neck Faucet (WD05) only: 8" (200 mm)
(External measurement of vessel/pedestal sink.)

Fig.3 Minimum distance from faucet center to top of sink (WD06 only) 5" (127 mm).
Front edge of sink (all types – pedestal, recessed, slab) to wall minimum $16\frac{3}{16}$ " (411 mm).

Internal depth of sink minimum (for all models): 5" (127 mm)

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Faucet mounting

Do not place the downward facing water sensor of the faucet over a reflective surface, such as the drainage hole. (Fig.4)

For complete instructions, please refer to the printed installation guide supplied with the machine.

It's also available online at www.dyson.com/docs

Soap and locating the soap dispenser

For best user experience, Dyson recommends the use of gel soaps.

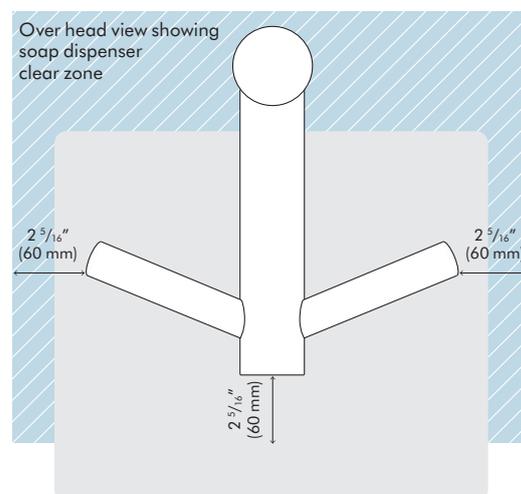
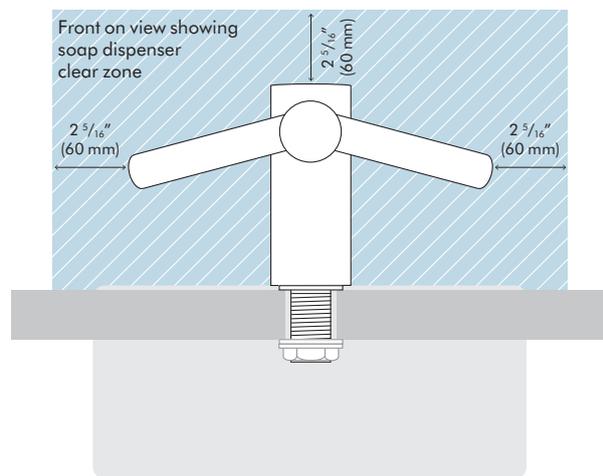
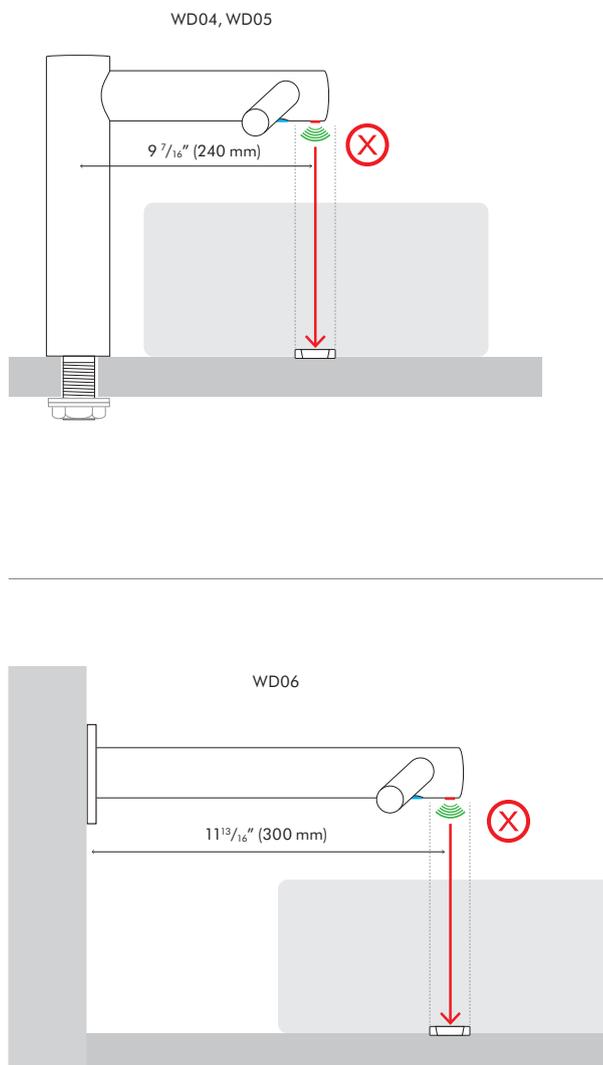
The infrared sensing zone for air activation extends along each faucet branch. In order to prevent accidental activation, it's important to consider the user's hand route to the soap dispenser.

The dispenser should be located at least $2\frac{5}{16}$ " (60 mm) outside the width of the faucet, so the user reaches around the side of the branch.

It should also be located at least $2\frac{5}{16}$ " (60 mm) above the branches, so that the sensors are not activated.

Please note that the user may reach diagonally across for the soap, so this path must not go through the sensing zone.

Fig.4



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Water drainage

Due to high velocity air and water being in close proximity, there is a chance of some water and soap dispersion outside the sink dimensions. To alleviate this effect, we recommend following the below guidelines.

Base profile

Flat base profile will result in poor drainage leading to high levels of splashback.

To improve drainage, avoid sinks with a flat base with particular focus on the immediate area surrounding the drain hole, minimum $2\frac{5}{16}$ " (60 mm) radius (Fig.5).

Fig.5

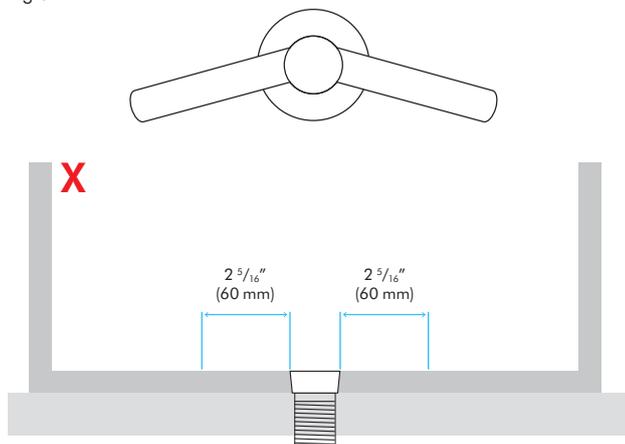
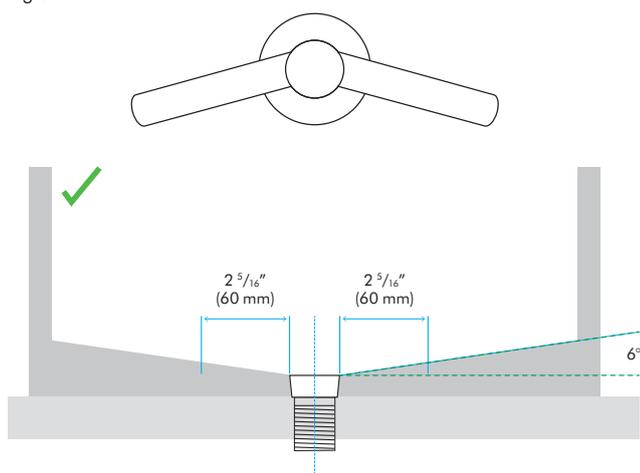


Fig.6

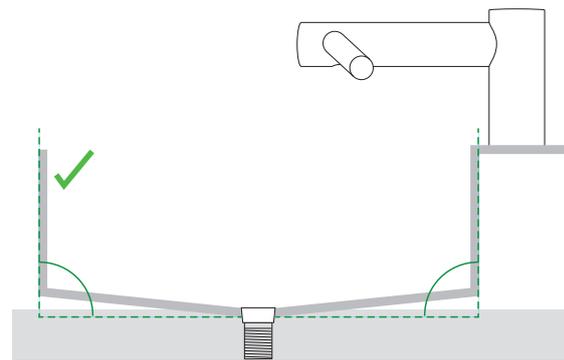


Minimum of 6° angle from the edge of the drain hole of the sink will result in good drainage leading to reduced levels of splashback (minimum $2\frac{5}{16}$ " (60 mm) radius).

Base to back and front wall transition

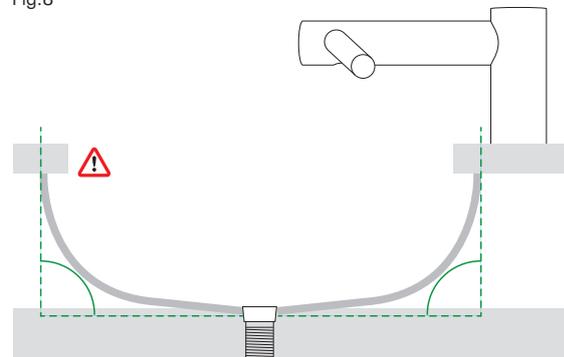
The base to back and front wall transition should also be considered. The back wall should be as close to 90° , and at as sharp a radius as possible (Fig.7). Curved geometry is more likely to increase splashback, whereas sloping back and front wall transitions should be avoided (Fig.8 & 9).

Fig.7



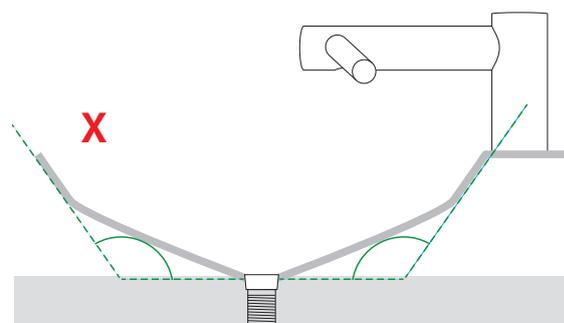
Vertical and sharp transition

Fig.8



Vertical and smooth transition

Fig.9



Sloped transition, especially on square or rectangular sinks

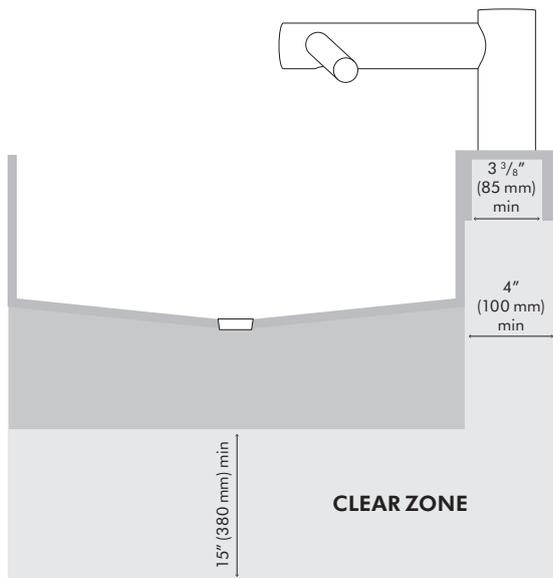
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Sink access guidelines

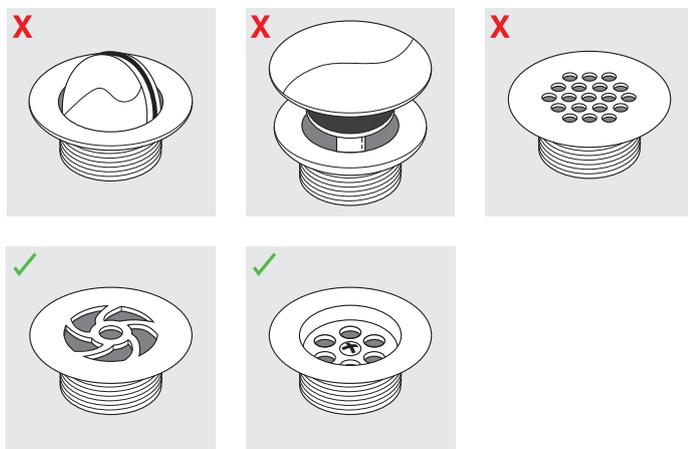
It is recommended that the following guidelines are followed to ensure there is sufficient access under the sink to allow for servicing and installation to take place (Fig.10).

Fig.10



Plug hole

Plug holes with large apertures are recommended, whereas grill or perforated type plug holes should be avoided as they restrict the drainage of soapy water (lather). Do not use plugs within the plug holes in sinks.



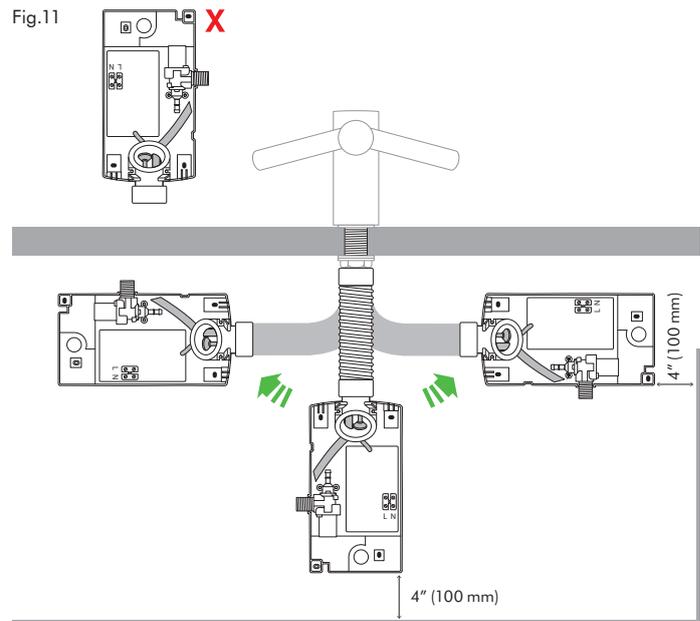
Mounting the motor bucket (WD04/WD05)

Ensure 4" (100 mm) minimum clearance from bottom of motor bucket to floor/wall.

The motor bucket cannot be mounted upside down or installed above the sink.

Only the following is advised (Fig.11).

Fig.11



*Illustrations are for reference only and are not exact product renderings.

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Installing WD06

The WD06 Dyson Airblade Wash+Dry hand dryer is designed so that the motor unit is located behind a stud wall within a metal enclosure which is supplied with the Dyson Airblade Wash+Dry hand dryer (Fig.12). The vertical wall studs must be constructed so as to allow the metal enclosure to be fitted between them (Fig.13). One of the horizontal wall studs must be fitted a) so it holds the main weight of the metal duct and the unit, and b) so it is in the correct position for the faucet stem.

For complete instructions, please refer to the printed installation guide supplied with the machine. It's also available online at www.dyson.com/docs

Fig.13

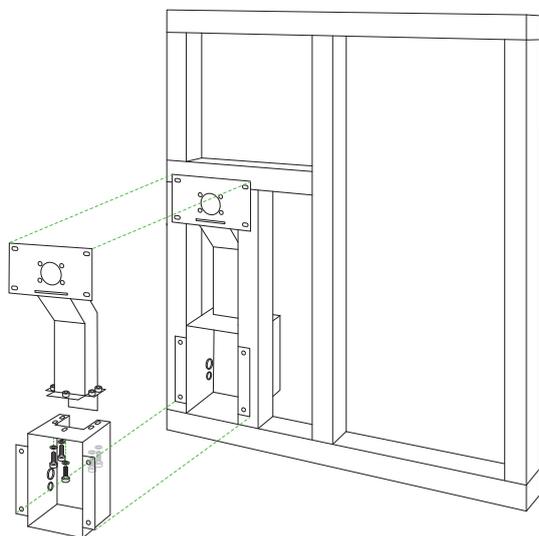
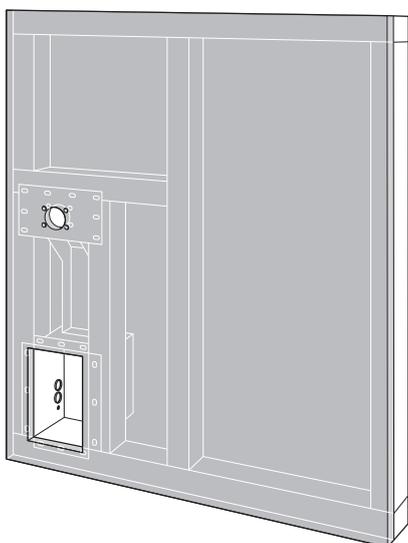


Fig.14

Install plasterboard.



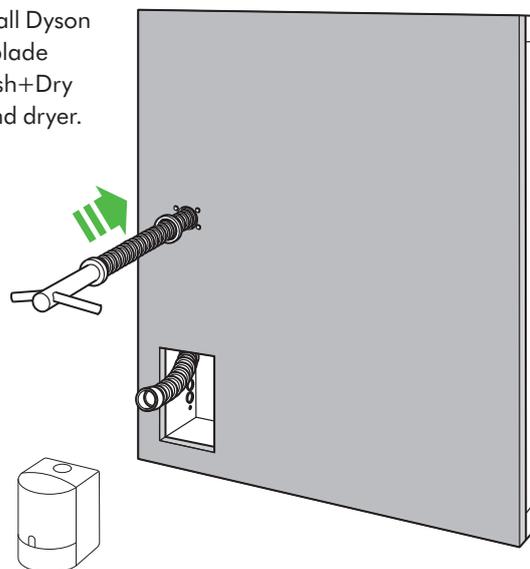
WD06 metal enclosure assembly

Fig.12



Fig.15

Install Dyson Airblade Wash+Dry Hand dryer.

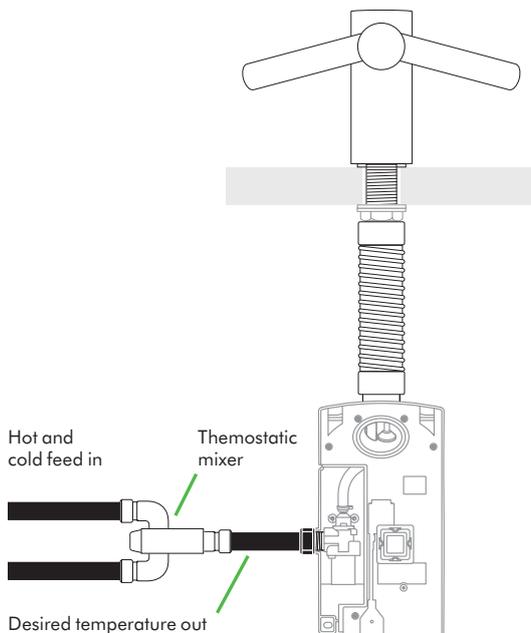


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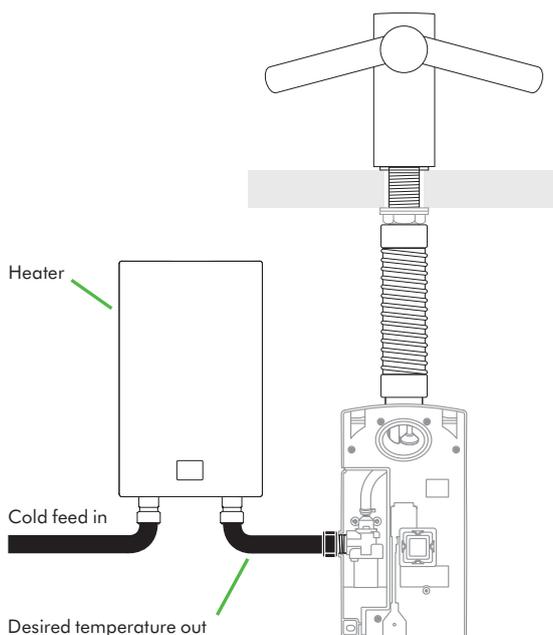
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Water temperature control

If you are connecting a hot and cold water feed you will need to install a thermostatic mixer.



If connecting to cold only water feed you will need to install a heater.



Abusive testing

The faucet has undergone rigorous abusive testing to ensure that it can withstand substantial forces and impacts typical of a commercial and public bathroom environment.

Tools required

To install this unit you will need (4) screws, and appropriate fittings

Torx T15 screw driver – long handle

Electrical drill with suitable drill bit

4 wall plugs (check suitability for wall type)

$\frac{7}{32}$ " (7 mm) flat head screwdriver

Flat terminal block screwdriver

Adjustable wrench

Sharp knife/blade

Pan head screws, toggle or masonry type

Conduit as per local electrical regulations

Electrical

Input voltage/Frequency: 100-120V (100-110V at 50Hz; 120V at 60Hz)

Isolated by switch fuse spur or RCD as appropriate

Current 6.6 A

Local electrical regulations must be adhered to when installing or repairing the product

Rated power: 1000 W

Operating temperature range: 0°-40°C, 32°-104°F

Standby power consumption: Less than 0.5 W

Water operation

Water flow rate: 0.5 gallons/min (1.9 liters/min) low flow fitted aerator
1.0 gallons/min (3.8 liters/min) with aerator supplied with product

Water temperature control: There is no in-built function to change the temperature of the water. The use of a Thermostatic mixer or heater (not included) is recommended.

Water pressure required: 1-8 bar

1 $\frac{1}{2}$ " BSP isolated valve required for service

Maximum altitude: 8,858 feet (2,700 meters)

Water supply cleanliness and biological growth

In some countries there are regulations or guidelines that require temperature controlled water supply systems (such as that supplied to the Dyson Airblade Wash+Dry hand dryer) to be subjected to regular cleaning to minimize any biological growth.

To enable you to meet these regulations, the Dyson Airblade Wash+Dry hand dryer has been designed and tested to withstand internal cleaning both with hot water up to 95°C, 203°F and with sodium hypochlorite at a concentration of 0.45%.

Please refer to specific (market) regulations and water supply system recommendations for information on cleaning regimes for water supply cleanliness and biological growth for your country.

When carrying out internal cleaning of the Dyson Airblade Wash+Dry hand dryer, please be aware of any safety considerations when using hot water or chemicals. Dyson will not be responsible for any injury caused by this process.

For further information please contact Dyson.
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