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dyson airblade wash+dry



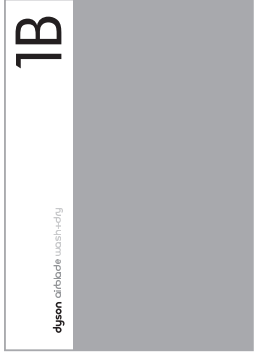
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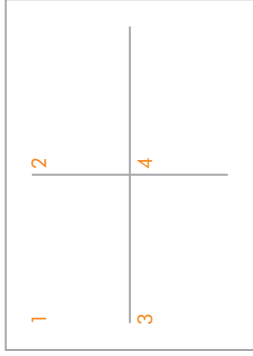
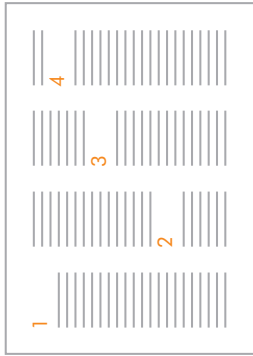
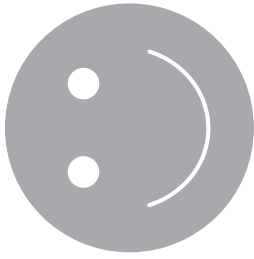
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IMPORTANT SAFETY INSTRUCTIONS

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READ AND SAVE THESE INSTRUCTIONS

BEFORE INSTALLING OR USING THIS UNIT READ ALL INSTRUCTIONS AND CAUTIONARY MARKINGS IN THIS INSTALLATION GUIDE AND THE OWNER'S MANUAL.

WARNING

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WARNING

RISK OF ELECTRIC SHOCK!

IF CASING IS REMOVED OR HANDLED IMPROPERLY THE INTERNAL COMPONENTS OF THE UNIT MAY CAUSE HARM OR BECOME PERMANENTLY DAMAGED.

THIS UNIT MUST BE EARTHED TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

- Before beginning any installation work you must confirm the following.
- Check that the electrical supply corresponds to that shown on the rating plate.
 - A means for all-pole disconnection must be incorporated into fixed wiring, in accordance with local wiring regulations.

- Connect the electricity supply using suitable conduit and electrical fittings. Ensure that the conduit and wires are long enough to connect to the backplate and the terminal block. Solid metal conduit is not suitable for side entry.

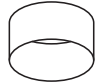
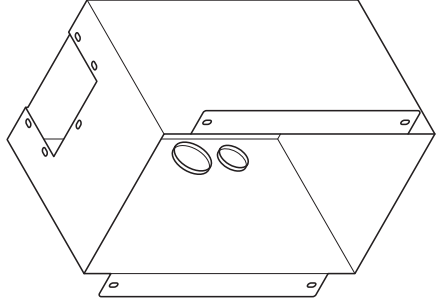
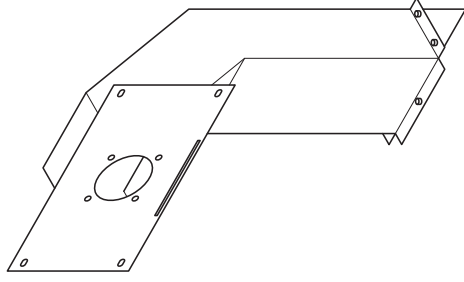
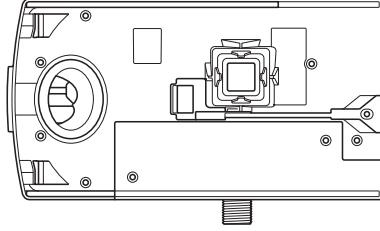
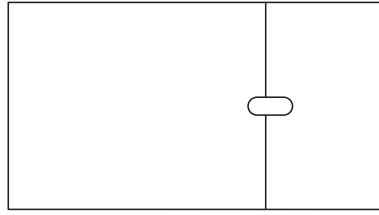
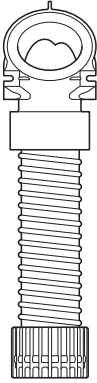
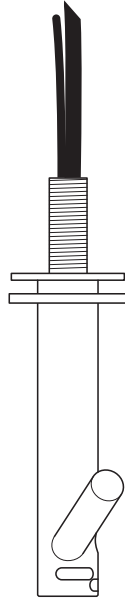
WARNING

Use caution when unpacking the components. There may be sharp edges/corners which may cut or cause harm.

DO NOT USE ANY JET WASH EQUIPMENT FOR CLEANING ON OR NEAR THIS UNIT

In the box

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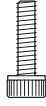
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x1



x9



x4



Tools required:

Small Phillips screwdriver

4mm Hex drive

7mm slotted screwdriver

2.5mm slotted screwdriver

Torx T15 screwdriver

Torx drive T30

8mm nut spinner

Means for cutting plaster board

Tape measure and pencil

Hand drill

Suitable drill bit

65mm hole saw

Pliers/wire strippers

Knife

Adjustable spanner

Pre-installation checks

Fig. A

Pre-installation planning

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. A(i)**.

The vertical wall studs must be constructed so as to allow the metal enclosure to be fitted between them. Refer to **Fig. A(i)**.

- The unit is designed for a dry, internal location only.
- Consult local and national accessibility codes and regulations for relevant installation guidelines. Conformity and compliance is the responsibility of the installer. Make sure that the unit is installed in compliance with all building codes and/or regulations.
- A means for all-pole disconnection must be incorporated into fixed wiring, in accordance with local wiring regulations.
- Isolate the power and water supplies before installation or service.
- Ensure no pipe work (gas, water, air) or electrical cables, wires or ductwork are located directly behind the drilling/mounting area.
- Dyson recommends the use of protective clothing, eye wear and materials when installing/repairing as necessary.
- This appliance is intended to be permanently connected to the water mains.

Use in food preparation areas

For food preparation environments special installation is required, which must fully enclose the motor bucket and hose in a cleanable housing or have the motor bucket on the reverse side of a wall, provide adequate clearance for cleaning underneath (if applicable) and be such that the unit is at least 2.5 metres from uncovered food or uncovered food-contact surfaces.

Refer to the sink recommendation guide at www.dyson.com prior to install.

- Correct positioning of the: wall studs, wall surface, work surface and basin is essential for a successful installation as shown in **Fig. A(ii)**.
- The key measurement is from the centre of the tap to the floor. The recommended distance is approximately 955mm, but this will differ depending on the height of the sink, refer to **Template (Part 2)**.
- For wall model only: Allow sufficient access space for installation and servicing, see **Fig. A(ii)**.
- If a series of units are to be fitted along a wall adjacent to each other, additional planning may be required.

Fig. B

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.

Porcelain or brushed metal sinks are ideal. Sinks with highly polished surfaces should be avoided e.g. reflective chrome.

For minimum sink dimensions refer to **Fig. B**.

Fig. C/D/E

Tap mounting

There should be a minimum of 100mm and a maximum of 155mm from the top of the sink to the tap centre **Fig. C**.

There should be a minimum of 290mm between a tap centre and a side wall.

When multiple taps are installed side-by-side, tap centres should be a minimum of 580mm apart. This allows sufficient space for mounting the motor bucket, as well as sufficient shoulder room for users **Fig. D**.

Do not place the downward facing water sensor of the tap over a reflective surface, such as the drainage hole **Fig. E**.

Fig. F

Soap and locating the soap dispenser

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

The infrared sensing zone for air activation extends along each tap 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 60mm outside the width of the tap, so the user reaches around the side of the branch.

It should also be located at least 60mm 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. G/H

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 guidelines below.

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 60mm radius **Fig. G**.

Minimum of 6° ramp angle from the edge of the drain hole of the sink will result in good drainage leading to reduced levels of splashback (minimum 60mm radius) **Fig. H**.

Fig. I/J/K

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. I**. Curved geometry is more likely to increase splashback

Fig. J, whereas sloping back and front wall transitions should be avoided **Fig. K**.

Fig. L

Plug hole

Plug holes with the most open aperture 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.

Fig. M

Water temperature control

If you are connecting a hot and cold water feed you will need to install a blender valve.

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

The water supply to this product must be fitted with a temperature control device in accordance with local regulations.

- A= Blender valve
- B= Hot and cold feed
- C= Desired temperature out
- D= Isolation valve
- E= Heater
- F= Cold feed in

Fig. N

Installing

The main unit must be mounted on a flat vertical wall capable of supporting the full weight of the unit.

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 tap stem.

The unit must be installed using the supplied duct, duct cover and metal enclosure.

Do not use sealant when fixing the unit to the wall.

Ensure electricity and mixed water supplies and drainage connections are available for connection. Suitable isolation of the power and water supplies must be in place to switch off supplies before install and for servicing.

Electrical

Input voltage/Frequency: Refer to rating plate.

Isolated by switch fuse spur or RCD as appropriate.

Current 6.6 A.

Cable specification: Dual core PVC + Single core PVC (earth)

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

Rated power: Refer to rating plate.

Operating temperature range: 0° – 40°C.

Standby power consumption:

Less than 0.5 W.

Maximum altitude: 2,000 metres.

Water operation

Water flow rate: 1.9 l/m standard fitted aerator. 4 l/min with low flow aerator supplied with product.

Water pressure required: 1-8 bar. 1/2" BSP isolated valve required for service.

Keep secondary hot water return as close to blender valve as possible to reduce the risk of Legionella bacteria growth.

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 minimise 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 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.

Abusive testing

The Dyson Airblade Wash+Dry hand dryer has undergone rigorous abusive testing to ensure that it can withstand substantial forces and impacts typical of a commercial and public bathroom environment.

Step-by-step

Fig. 1/2

Assemble enclosure

Assemble the metal enclosure and ducting as shown in Fig. 1 using the 5 x hex head bolts and washers supplied.

Construct the wall studding ensuring adequate space to fit the metal enclosure and ducting as shown in Fig. 2.

The key measurement is from the centre of the tap to the floor. The recommended distance is approximately 955mm but this will differ depending on the height of the sink, refer to Template (Part 2).

Fig. 3

Enclosure mounting

Fit the enclosure and ducting into the wall studs and mark the location of the 8 x screw holes on the wall studs using the fixing holes in the enclosure and ducting as a guide. Ensure that the enclosure is pushed up against the top horizontal stud to set correct tap height and that it is level Fig. 3.

Remove the enclosure and ducting and drill 8 x fixing holes using a suitable drill bit for the 8 x M5 wood screws Fig. 3.

CAUTION: Do not use the enclosure and ducting as a guide when drilling. Fix the enclosure and ducting into the wall studs and fix using the 8 x countersunk screws provided Fig. 3.

Use this mark to position the template on the plaster board and cut and drill holes for the tap stem, the stem fixing holes, the access hole and access panel fixing holes as detailed on the Template (Part 2).

Line up the holes in the plasterboard with the holes in the enclosure and ducting and attach the plasterboard to the wall studding using appropriate fixings.

Fit sink and work surface as required.

Finish the wall surface as required.

Clean and remove any dust or debris from the inside of the enclosure.

Fig. 6

Preparing for installation of backplate

Remove the motor bucket from the backplate by pressing the red release catch at the bottom and lifting up as shown in Fig. 6a.

Store the motor bucket safely until required.

Remove the water pipe cover and the electric cover from the backplate as shown in Fig. 6b and 6c. Store them safely along with fixings until required.

Fig. 7

Backplate installation planning

Fix the backplate onto the metal studs inside the enclosure and secure with the 4 x M5 nuts and washers supplied as shown in Fig. 7.

Fig. 8

Hose installation

Unscrew the cover plate from the tap stem. Slide the rubber seal over the water tube and sensor cable and onto the tap stem as shown in Fig. 8a.

Slide the grey hose up over the water tube and sensor cable Fig. 8b.

Feed the water tube through the left exit hole in the hose duct as shown in Fig. 8c.

Use pliers to gently pull the water tube through as far as the solid white line Fig. 8d. Ensure the grommet on the water tube fits tightly into the hose duct so that it is airtight Fig. 8e.

Feed the sensor cable through the right exit hole as shown in Fig. 8c. DO NOT use pliers as this may damage the electrical connections Fig. 8d. Ensure the grommet on the cable fits tightly into the hose duct so that it is airtight Fig. 8e.

Screw the upper hose collar onto the tap stem so that it is hand tight Fig. 8f.

A= Rubber seal
B= Water tube
C= Sensor cable
D= Grey hose

Fig. 9

Secure tap

Feed the hose through the hole in the plasterboard and into the metal duct. The rubber seal should now fit between the tap stem and the wall [Fig. 9a](#).

Fix the tap to the plasterboard wall, lining up the mounting holes and making sure that the tap sits flat on the rubber seal and wall [Fig. 9b](#).

Attach the tap to the ducting behind the plasterboard using the 4 x M5 CSK screws supplied as shown in [Fig. 9b](#) making sure that the tap is level before fully tightening.

Screw the cover plate over the tap mounting plate and tighten to hand tight [Fig. 9c](#).

- A= Rubber seal
- B= Grey hose
- C= Tap stem
- D= Cover plate

Fig. 10

Connecting the tap

Clip the grey hose into the backplate.

Plug the sensor cable in the hose into the connector in the backplate as shown in [Fig. 10](#). Check the orientation of the connector; the two tabs must be lined up. Ensure the cable is correctly routed in the backplate.

Fig. 11

Connecting the water tube

Cut the water tube to size at the dotted white line as shown in [Fig. 11a](#).

Slide the hose clip (supplied) onto the water tube [Fig. 11b](#).

Remove the 2 x Phillips screws and unclip the solenoid from the backplate [Fig. 11b](#).

Attach the water hose to the solenoid [Fig. 11c](#).

Clip the solenoid back on to the backplate and fasten the 2 x screws [Fig. 11d](#).

Tighten the hose clip and ensure the solenoid cable is correctly positioned in the retaining channel.

Fig. 12

Connecting the electricity supply

Route the electricity supply to the backplate using approved flexible or solid conduit and fittings. Ensure the power cable is long enough to connect to the terminal block mounted in the back plate.

Route the cable into the backplate and tighten the cable gland.

Strip the cable to a suitable length and secure the live and neutral wires into the corresponding terminal blocks as shown in [Fig. 12](#). Ensure the correct positioning of the cables before proceeding.

Fig. 13

Re-assemble electrical cover

Fix the electrics cover and secure with the 6 x fixings supplied ensuring no wires are trapped.

Fig. 14

Connecting the mixed water supply

NOTE: Ensure water feed has been completely flushed of debris, copper filings etc. prior to connecting to the backplate. Failure to do so may damage the solenoid valve.

Connect the isolated, mixed water supply to the backplate.

Turn on the water.

Inspect for leaks at the main water supply inlet and the water tube connection to the tap.

Also check for leaks at the solenoid connection.

Fig. 15

Switching power on

Switch on power to the machine.

CALIBRATION CYCLE: Once installed, the tap will go through a 30 second calibration cycle.

Place hand under sensor on tap to activate water flow.

Check for leaks as per [Fig. 14](#).

Secure the water pipe cover on to the backplate using the 2 x fixings provided.

Fig. 16

Assembling the motor bucket

Hook the motor to the top of the electrics cover. Swing it downwards so it clicks into place as shown. Push in securely.

OPTIONAL: A screw is supplied to secure the red release button and prevent unwanted removal of the motor bucket.

Test the unit for correct operation.

Fig. 17

Fitting the access panel

Fix the access panel to the plasterboard using the 4 x M6 screws.

Test installation

Troubleshooting

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Test the hand dryer for normal operation:

- Place your hands beneath the centre of the tap and water will flow automatically for as long as the hands remain in place.
- Place your hands to either side of the centre tap to activate the hand dryer, creating sheets of air to scrape water from your hands.
- Move your hands backwards and forwards slowly through the air, turning them over so both back and front are exposed to the airflow.

Automatic duty flush

The unit is equipped with a fixed automatic water flush, which activates for 60 seconds 24 hours after last use. This helps reduce water stagnation and bacteria proliferation within the product.

Please ensure that the unit is always installed over a functional basin with free and connected drainage.

Hand dryer fails to start:

- Check fuse/circuit breaker is working and that the power and water supply are connected.
- Ensure the cleaning cap is removed and that the sensors are clean and unobstructed.
- Turn the unit off and on.

Hand dryer turns itself on and off erratically:

- Turn the unit off and on.
- Ensure there is no plug in the sink and remove if plug is present.
- Ensure sensors are clean.
- Check that the sensor cable from the tap is securely connected.

Hand dryer sometimes cuts out in use:

- Turn the unit off and on.
- Ensure sensors are clean.
- Check the air inlets are clean and free of dust. If the air inlets are dusty simply remove dust.
- Ensure that the air inlets are free from obstructions and have sufficient clearance.

The dry time has increased:

- Inspect the air inlets for dust and remove.
- Inspect filter and change if required.
- Ensure that the hose is securely attached to the base of the tap and no leaks are present.

The airflow is running hotter than usual:

- Inspect the air inlets for dust and remove.
- Inspect filter and change if required.
- Ensure that the hose is securely attached to the base of the tap and no leaks are present.

Air is continuously running:

- Check for any object in the sink and remove if necessary.
- Ensure sensors are clean and free from any obstructions.
- Inspect filter and change if required.
- Ensure that the hose is securely attached to the base of the tap and no leaks are present.

There is no air running:

- Turn the unit off and on.
- Check fuse/circuit breaker is working and that the power is connected.
- Ensure sensors are clean.
- Ensure that the air hose is securely attached to the base of the tap and no leaks are present.
- Check that the sensor cable from the tap is securely connected.

Water is continuously coming from the tap:

- Ensure sensors are clean and free from any obstructions.

There is no water coming from the tap:

- Ensure that the power and water supplies are turned on and that the isolation valve is open.
- Ensure that the aerator is free from debris, remove and clean/replace if necessary.

The water coming from the tap is overly hot or cold:

- Check the blender valve is set to the desired temperature.
- Contact Dyson Customer Care for further support and information or online at www.dyson.com

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- Check that the electrical supply corresponds to that shown on the rating plate.
 - A means for all-pole disconnection must be incorporated into fixed wiring, in accordance with local wiring regulations.

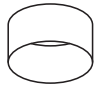
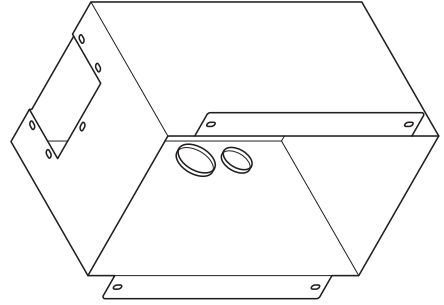
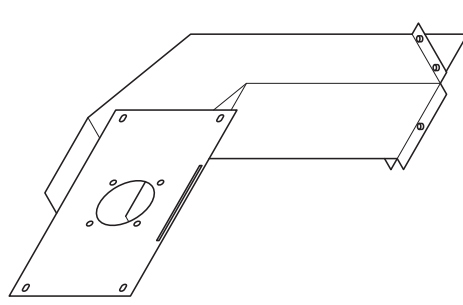
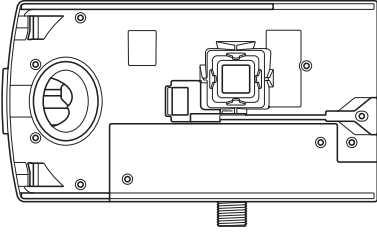
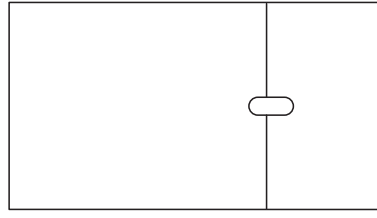
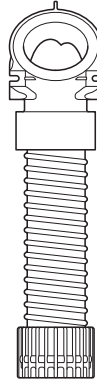
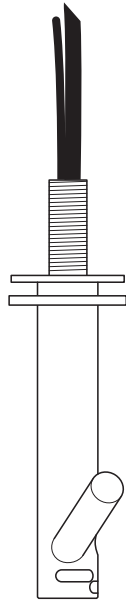
- Connect the electricity supply using suitable conduit and electrical fittings. Ensure that the conduit and wires are long enough to connect to the backplate and the terminal block. Solid metal conduit is not suitable for side entry.

WARNING

Use caution when unpacking the components. There may be sharp edges/corners which may cut or cause harm.

DO NOT USE ANY JET WASH EQUIPMENT FOR CLEANING ON OR NEAR THIS UNIT

In the box



x8



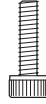
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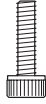
x4



x5



x1



x9



x4



Tools required:

Small Phillips screwdriver

4mm Hex drive

7mm blade screwdriver

Small bladed screwdriver

Torx drive T15

Torx drive T30

8mm nut spinner

Means for cutting plaster board

Tape measure and pencil

Hand drill

Suitable drill bit

65mm hole saw

Pliers/wire strippers

Knife

Adjustable spanner

Pre-installation checks

Fig. A

Pre-installation planning

The 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. **Fig. A(i)**

The vertical wall studs must be constructed so as to allow the metal enclosure to be fitted between them. Refer to **Fig. A(i)**.

- The unit is designed for dry, internal location only.
- Consult local and national accessibility codes and regulations for relevant installation guidelines. Conformity and compliance is the responsibility of the installer. Make sure that the unit is installed in compliance with all building codes and/or regulations.
- A means for all-pole disconnection must be incorporated into fixed wiring, in accordance with local wiring regulations
- Isolate the power and water supplies before installation or service.
- Ensure no pipe work (gas, water, air) or electrical cables, wires or ductwork are located directly behind the drilling/mounting area.
- Dyson recommends the use of protective clothing, eyewear and materials when installing/repairing as necessary.
- This appliance is intended to be permanently connected to the water mains.

Use in food preparation areas

For food preparation environments special installation is required, which must fully enclose the motor bucket and hose in a cleanable housing or have the motor bucket on the reverse side of a wall, provide adequate clearance for cleaning underneath (if applicable) and be such that the unit is at least 2.5 metres from uncovered food or uncovered food-contact surfaces.

Refer to the Sink recommendation guide at www.dyson.com prior to install.

- Correct positioning of the: wall studs, wall surface, work surface and basin is essential for a successful installation as shown in **Fig. A(ii)**.
- The key measurement is from the center of the tap to the floor. The recommended distance is approximately 955mm, but this will differ depending on the height of the sink, refer to **Template (Part 2)**.
- Allow sufficient access space for installation and servicing.
- If a series of units are to be fitted along a wall adjacent to each other, additional planning may be required.

Fig. B

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.au.

Porcelain or brushed metal sinks are ideal. Sinks with highly polished surfaces should be avoided e.g. reflective chrome.

For minimum sink dimensions refer to **Fig. B**.

Fig. C/D/E

Tap mounting

There should be a minimum of 100mm and a maximum of 155mm from the top of the sink to the tap centre. **Fig. C**

There should be a minimum of 290mm between a tap centre and a side wall. When multiple taps are installed side-by-side, tap centres should be a minimum of 580mm apart. This allows sufficient space for mounting the motor bucket, as well as sufficient shoulder room for users. **Fig. D**

Do not place the downward facing water sensor of the tap over a reflective surface, such as the drainage hole. **Fig. E**

Fig. F

Soap and locating the soap dispenser

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

The infrared sensing zone for air activation extends along each tap 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 60mm outside the width of the tap, so the user reaches around the side of the branch.

It should also be located at least 60mm 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. G/H

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 guidelines below.

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 60mm radius. **Fig. G**

Minimum of 6° ramp angle from the edge of the drain hole of the sink will result in good drainage leading to reduced levels of splashback (minimum 60mm radius). **Fig. H**

Fig. I/J/K

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. I. Curved geometry is more likely to increase splashback

Fig. J, whereas sloping back and front wall transitions should be avoided Fig. K.

AU
NZ

Fig. N

Installing

The main unit must be mounted on a flat vertical wall capable of supporting the full weight of the unit.

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 tap stem.

The unit must be installed using the supplied duct, duct cover and metal enclosure.

Do not use sealant when fixing the unit to the wall.

Ensure electricity and mixed water supplies and drainage connections are available for connection. Suitable isolation of the power and water supplies must be in place to switch off supplies before install and for servicing.

Electrical

Input voltage/Frequency: Refer to rating plate. Isolated by switch fuse spur or RCD as appropriate.

Current 6.6 A.

Cable specification: Dual core PVC + Single core PVC (earth)

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

Rated power: Refer to rating plate.

Operating temperature range: 0° – 40°C.

Standby power consumption:

Less than 0.5 W.

Maximum altitude: 2,000 metres.

Water operation

Water flow rate: 4 l/min normal fitted aerator. 1.9 l/m with low flow aerator supplied with product.

Water pressure required: 1-8 bar. 1/2" BSP isolated valve required for service.

Keep secondary hot water return as close to thermostatic mixing valve as possible to reduce the risk of Legionella bacteria growth.

Fig. L

Plug hole

Plug holes with the most open aperture 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.

Fig. M

Water temperature control

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

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

The water supply to this product must be fitted with a temperature control device in accordance with local regulations.

A= Thermostatic mixing valve

B= Hot and cold feed

C= Desired temperature out

D= Isolation valve

E= Heater

F= Cold feed in

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 minimise 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 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.

Abusive testing

The Dyson Airblade Wash+Dry hand dryer has undergone rigorous abusive testing to ensure that it can withstand substantial forces and impacts typical of a commercial and public bathroom environment.

Step-by-step

Fig. 1/2

Assemble enclosure

Assemble the metal enclosure and ducting as shown in Fig. 1 using the 5 x hex head bolts and washers supplied.

Construct the wall studding ensuring adequate space to fit the metal enclosure and ducting as shown in Fig. 2.

The key measurement is from the centre of the tap to the floor. The recommended distance is approximately 955mm but this will differ depending on the height of the sink, refer to Template (Part 2).

Fig. 3

Enclosure mounting

Fit the enclosure and ducting into the wall studs and mark the location of the 8 x screw holes on the wall studs using the fixing holes in the enclosure and ducting as a guide. Ensure that the enclosure is pushed up against the top horizontal stud to set correct tap height and that it is level Fig. 3.

Remove the enclosure and ducting and drill 8 x fixing holes using a suitable drill bit for the 8 x M5 wood screws Fig. 3.

CAUTION: Do not use the enclosure and ducting as a guide when drilling. Fix the enclosure and ducting into the wall studs and fix using the 8 x countersunk screws provided Fig. 3.

Use this mark to position the template on the plaster board and cut and drill holes for the tap stem, the stem fixing holes, the access hole and access panel fixing holes as detailed on the Template (Part 2).

Line up the holes in the plasterboard with the holes in the enclosure and ducting and attach the plasterboard to the wall studding using appropriate fixings.

Fit sink and work surface as required.

Finish the wall surface as required.

Clean and remove any dust or debris from the inside of the enclosure.

Fig. 6

Preparing for installation of backplate

Remove the motor bucket from the backplate by pressing the red release catch at the bottom and lifting up as shown in Fig. 6a.

Store the motor bucket safely until required.

Remove the water pipe cover and the electric cover from the backplate as shown in Fig. 6b and 6c. Store them safely along with fixings until required.

Fig. 7

Backplate installation

Fix the backplate onto the metal studs inside the enclosure and secure with the 4 x M5 nuts and washers supplied as shown in Fig. 7.

Fig. 8

Hose Installation

Unscrew the cover plate from the tap stem. Slide the rubber seal over the water tube and sensor cable and onto the tap stem as shown in Fig. 8a.

Slide the grey hose up over the water tube and sensor cable Fig. 8b.

Feed the water tube through the left exit hole in the hose duct as shown in Fig. 8c.

Use pliers to gently pull the water tube through as far as the solid white line Fig. 8d. Ensure the grommet on the water tube fits tightly into the hose duct so that it is airtight Fig. 8e.

Feed the sensor cable through the right exit hole as shown in Fig. 8c. **DO NOT** use pliers as this may damage the electrical connections Fig. 8d. Ensure the grommet on the cable fits tightly into the hose duct so that it is airtight Fig. 8e.

Screw the upper hose collar onto the tap stem so that it is hand tight Fig. 8f.

A= Rubber seal
B= Water tube
C= Sensor cable
D= Grey hose

Fig. 9

Secure tap

Feed the hose through the hole in the plasterboard and into the metal duct. The rubber seal should now fit between the tap stem and the wall [Fig. 9a](#).

Fix the tap to the plasterboard wall, lining up the mounting holes and making sure that the tap sits flat on the rubber seal and wall [Fig. 9b](#).

Attach the tap to the ducting behind the plasterboard using the 4 x M5 CSK screws supplied as shown in [Fig. 9b](#) making sure that the tap is level before fully tightening.

Screw the cover plate over the tap mounting plate and tighten to hand tight [Fig. 9c](#).

- A= Rubber seal
- B= Grey hose
- C= Tap stem
- D= Cover plate

Fig. 10

Connecting the tap

Clip the grey hose into the backplate.

Plug the sensor cable in the hose into the connector in the backplate as shown in [Fig. 10](#). Check the orientation of the connector; the two tabs must be lined up. Ensure the cable is correctly routed in the backplate.

Fig. 11

Connecting the water tube

Cut the water tube to size at the dotted white line as shown in [Fig. 11a](#).

Slide the hose clip (supplied) onto the water tube [Fig. 11b](#).

Remove the 2 x Phillips screws and unclip the solenoid from the backplate [Fig. 11b](#).

Attach the water hose to the solenoid [Fig. 11c](#).

Clip the solenoid back on to the backplate and fasten the 2 x screws [Fig. 11d](#).

Tighten the hose clip and ensure the solenoid cable is correctly positioned in the retaining channel.

Fig. 12

Connecting the electricity supply

Route the electricity supply to the backplate using approved flexible or solid conduit and fittings. Ensure the power cable is long enough to connect to the terminal block mounted in the back plate.

Route the cable into the backplate and tighten the cable gland.

Strip the cable to a suitable length and secure the live and neutral wires into the corresponding terminal blocks as shown in [Fig. 12](#). Ensure the correct positioning of the cables before proceeding.

Fig. 13

Re-assemble electrical cover

Fix the electrical cover and secure with the 6 x fixings supplied ensuring no wires are trapped.

Fig. 14

Connecting the mixed water supply

NOTE: ensure water feed has been completely flushed of debris, copper filings etc. prior to connecting to the backplate. Failure to do so may damage the solenoid valve resulting in it not closing properly, creating a dripping tap.

Connect the isolated, mixed water supply to the backplate.

Turn on the water.

Inspect for leaks at the main water supply inlet and the water tube connection to the tap. Also check for leaks at the solenoid connection.

Fig. 15

Switching power on

Switch on power to the machine.

CALIBRATION CYCLE: Once installed, the tap will go through a 30 second calibration cycle.

Place hand under sensor on tap to activate water flow.

Check for leaks as per [Fig. 14](#).

Secure the water pipe cover onto the backplate using the 2 x fixings provided.

Fig. 16

Assembling the motor bucket

Hook the motor to the top of the electrical cover. Swing it downwards so it clicks into place as shown. Push in securely.

OPTIONAL: A screw is supplied to secure the red release button and prevent unwanted removal of the motor bucket.

Test the unit for correct operation.

Fig. 17

Fitting the access panel

Fix the access panel to the plasterboard using the 4 x M6 screws.

Test installation

Troubleshooting

Test the hand dryer for normal operation:

- Place your hands beneath the centre of the tap and water will flow automatically for as long as the hands remain in place.
- Place your hands to either side of the centre tap to activate the hand dryer, creating sheets of air to scrape water from your hands.
- Move your hands backwards and forwards slowly through the air, turning them over so both back and front are exposed to the airflow.

Automatic duty flush

The unit is equipped with a fixed automatic water flush, which activates for 60 seconds 24 hours after last use. This helps reduce water stagnation and bacteria proliferation within the product.

Please ensure the unit is always installed over a functional basin with free and connected drainage.

Hand dryer fails to start:

- Check fuse/circuit breaker is working and that the power and water supply are connected.
- Ensure the cleaning cap is removed and that the sensors are clean and unobstructed.
- Turn the unit off and on.

Hand dryer turns itself on and off erratically:

- Turn the unit off and on.
- Ensure there is no plug in the sink and remove if plug is present.
- Ensure sensors are clean.
- Check that the sensor cable from the tap is securely connected.

Hand dryer sometimes cuts out in use:

- Turn the unit off and on.
- Ensure sensors are clean.
- Check the air inlets are clean and free of dust. If the air inlets are dusty simply remove dust.
- Ensure that the air inlets are free from obstructions and have sufficient clearance.

The dry time has increased:

- Inspect the air inlets for dust and remove.
- Inspect filter and change if required.
- Ensure that the hose is securely attached to the base of the tap and no leaks are present.

The airflow is running hotter than usual:

- Inspect the air inlets for dust and remove.
- Inspect filter and change if required.
- Ensure that the hose is securely attached to the base of the tap and no leaks are present.

Air is continuously running:

- Check for any object in the sink and remove if necessary.
- Ensure sensors are clean and free from any obstructions.
- Inspect filter and change if required.
- Ensure that the hose is securely attached to the base of the tap and no leaks are present.

There is no air running:

- Turn the unit off and on.
- Check fuse/circuit breaker is working and that the power is connected.
- Ensure sensors are clean.
- Ensure that the air hose is securely attached to the base of the tap and no leaks are present.
- Check that the sensor cable from the tap is securely connected.

Water is continuously coming from the tap:

- Ensure sensors are clean and free from any obstructions.

There is no water coming from the tap:

- Ensure that the power and water supplies are turned on and that the isolation valve is open.
- Ensure that the aerator is free from debris, remove and clean/replace if necessary.

The water coming from the tap is overly hot or cold:

- Check the thermostatic mixing valve is set to the desired temperature.
- Contact Dyson Customer Care for further support and information:
Australia Contact: 1800 426 337 or aucustomercare@dyson.com.
- www.dyson.com.au
- New Zealand contact: 0800 397 667 www.dyson.co.nz