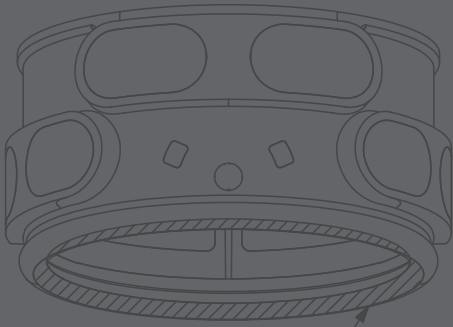


# dyson airblade

## Architect guide



SILICONE GREASE ALL ROUND  
INNER LIP BEFORE ASSEMBLE  
NOTE 12

J

K

OB

O

POSITION OF LABEL  
REFER TO NOTE 16

L

APPLY THREAD LOCKER ON THE UPPER SECTION  
OF THE THREAD BEFORE TIGHTENING  
THE THREADED PIPE INTO THE BODY  
SINGLE SHORT ASSEMBLY  
SEE NOTE 11

(8,00)



## Dyson is about new technology

**“Most people only consider how something is designed if it doesn’t work. The best products evolve as part of a design process, in which the technology on the inside informs the way that they look on the outside. Design is about how something works, not how it looks. It’s what’s inside that counts. The best design comes from someone questioning everything.”**

*James Dyson*

James Dyson, Inventor.

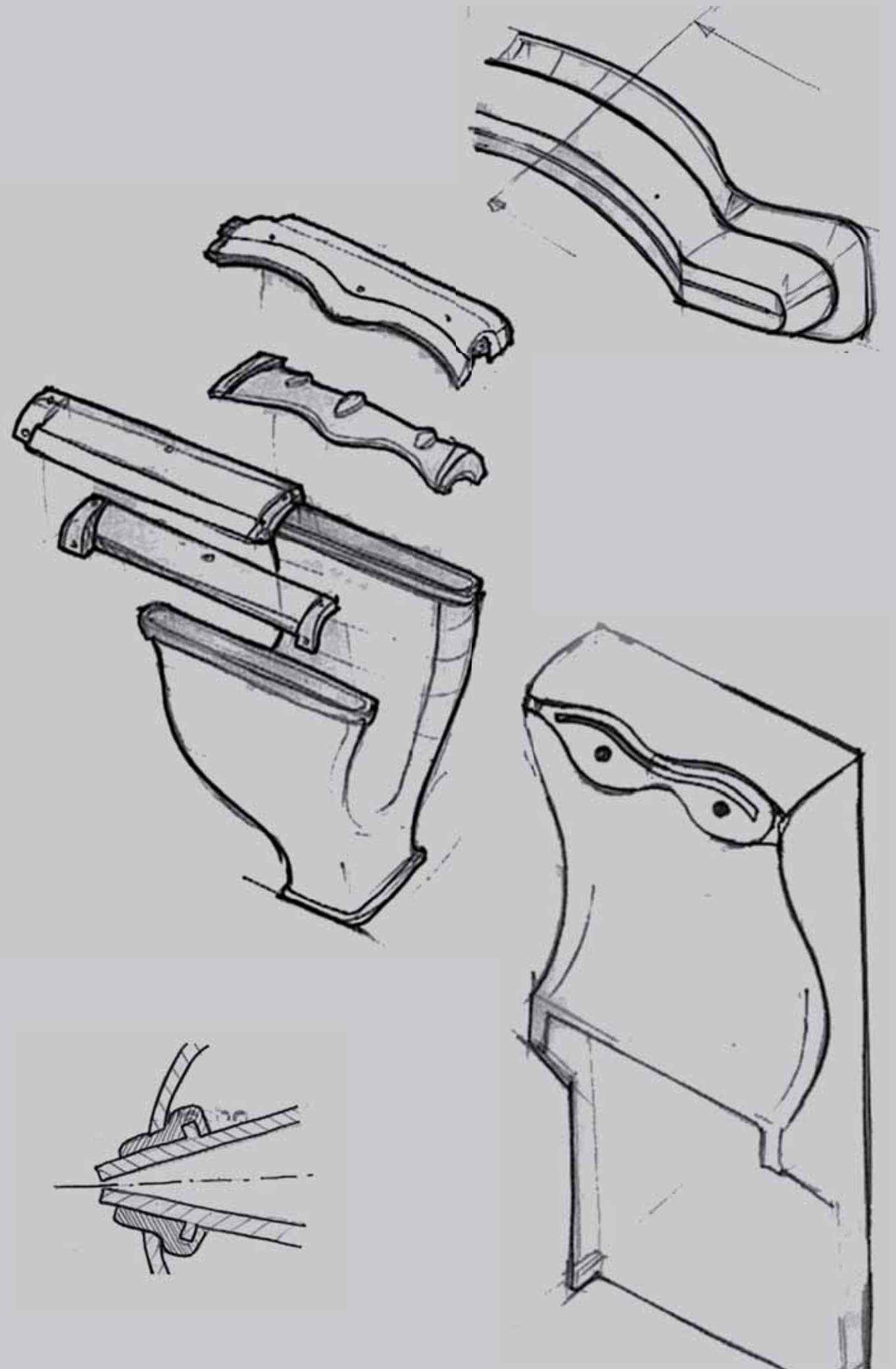
## 2006 The Dyson Airblade™ hand dryer

Hand dryers had changed little in over 60 years. Slow. Unhygienic. Energy-hungry. We didn't think that was good enough. The Dyson Airblade™ hand dryer was launched in 2006. It took 3 years to develop.

The idea for the Dyson Airblade™ hand dryer came about from a Dyson engineer experimenting with pressurised air. He noticed how it scraped water from his hands. Why didn't all hand dryers work this well?

During its development, Dyson engineers repeatedly washed and dried 70 pairs of rubber hands, refining the technology to achieve the fastest dry time of 12 seconds<sup>1</sup>. To simulate the harshest washroom environments they also showered prototypes in soup (to replicate vomit) and exerted the weight equivalent of an elephant to ensure robustness.

<sup>1</sup>Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

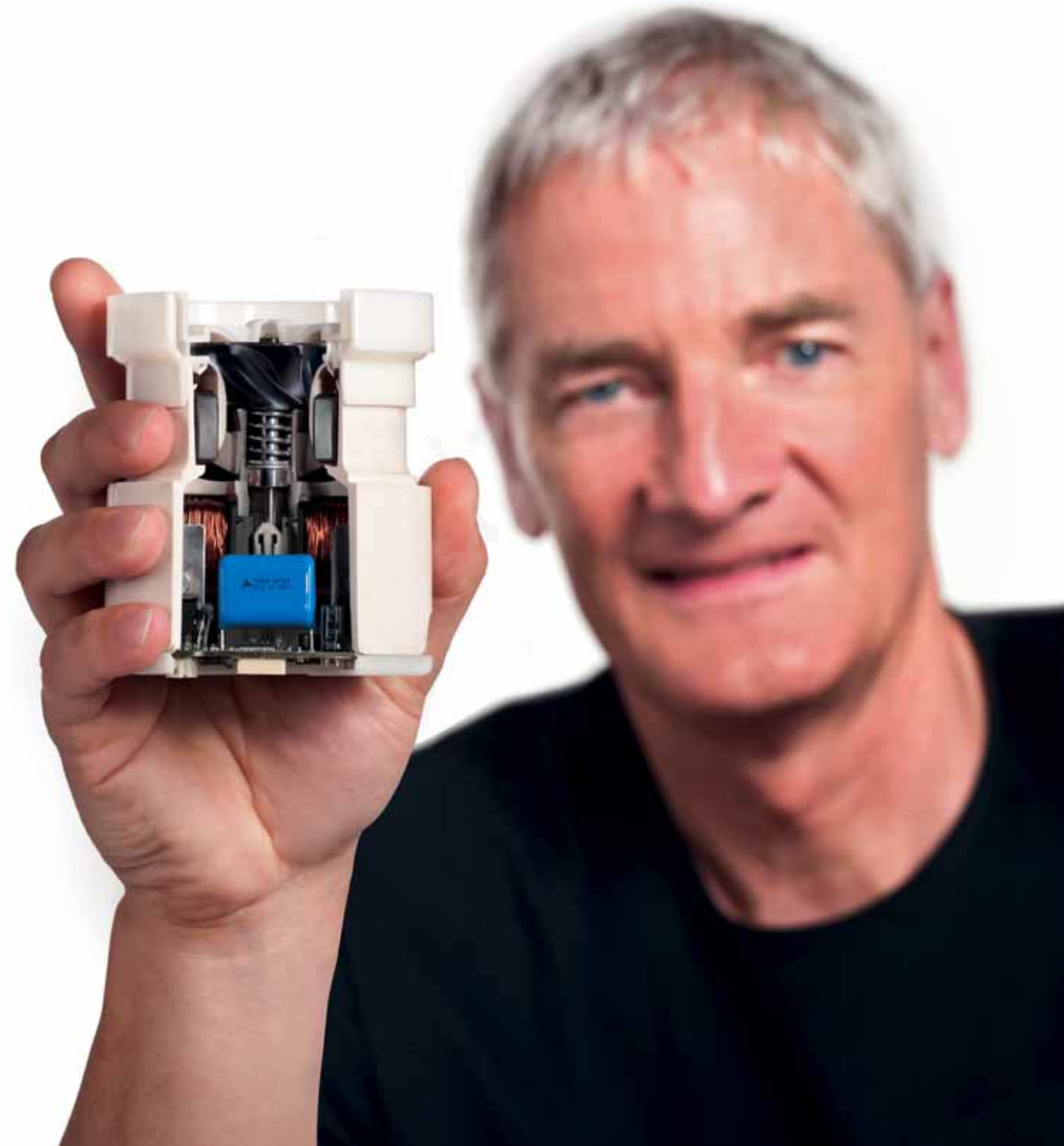


**1 new digital motor.  
3 new hand dryers.**

**“It’s been seven years in the making but we’ve now achieved something quite revolutionary in motor design – one of the world’s smallest fully-integrated 1400W motors. It was just the starting point for our latest hand drying technology.”**

*James Dyson*

James Dyson, Inventor.





**50% quieter.<sup>2</sup>**  
**Acoustically re-engineered**  
**to reduce noise.**

**dyson airblade dB**



<sup>2</sup>When compared to the original Dyson Airblade™ hand dryer.

Concentrated Airblade™  
hand drying technology

dyson airblade V



Airblade™ hand drying  
technology in a tap

dyson airblade tap



# Product range

## dyson airblade dB

**50% quieter.<sup>2</sup>**  
**Acoustically re-engineered to reduce noise.**

- 50% quieter<sup>2</sup>**  
Improved acoustics compared to the original Dyson Airblade™ hand dryer. Scallop-shaped apertures reduce air rush noise, and motor tones have been minimized.
- 12 second dry time<sup>1</sup>**  
Sheets of air travelling at 420 mph scrape water from the front and back of hands simultaneously.
- The most hygienic hand dryer**  
A HEPA filter removes 99.97% of bacteria at 0.3 microns from the air used to dry hands.
- Costs less to run**  
Dries 18 pairs of hands for the price of a single paper towel.<sup>3</sup>
- Certified by NSF International**  
No other hand dryer meets every part of NSF Protocol 335.
- Certified by HACCP**  
Hygienically safe for use in the food and beverage industry.
- Small carbon footprint**  
Dyson Airblade™ hand dryers produce up to 72% less CO<sub>2</sub> per dry than paper towels, and up to 68% less than other hand dryers.<sup>4</sup>
- Contains antimicrobial additive**  
Seal casing infused with antimicrobial additives to protect the product.



Gray White

## dyson airblade V

**Concentrated Airblade™ technology.**

- Slim profile**  
Protrudes just 4 inches from the wall. No recessing required.
- 12 second dry time<sup>1</sup>**  
Sheets of air travelling at 420 mph scrape water from hands like a windshield wiper.
- The most hygienic hand dryer**  
A HEPA filter removes 99.97% of bacteria at 0.3 microns from the air used to dry hands.
- Costs less to run**  
Dries 17 pairs of hands for the price of a single paper towel.<sup>3</sup>
- Certified by NSF International**  
No other hand dryer meets every part of NSF Protocol 335.
- Small carbon footprint**  
Dyson Airblade™ hand dryers produce up to 72% less CO<sub>2</sub> per dry than paper towels, and up to 68% less than other hand dryers.<sup>4</sup>
- 60% smaller**  
The same drying performance as the original Dyson Airblade™ hand dryer but 60% smaller.
- Dries each hand separately**  
V-configuration separates hands, drying them quickly and evenly.
- Contains antimicrobial additive**  
Seal casing infused with antimicrobial additives to protect the product.



Sprayed nickel White

## dyson airblade tap

**Airblade™ hand drying technology in a tap.**

- Wash and dry hands at the sink**  
Water and air from the tap.
- 14 second dry time<sup>1</sup>**  
Sheets of air travelling at 420mph scrape water from hands like a windshield wiper.
- The most hygienic hand dryer**  
A HEPA filter removes 99.97% of bacteria at 0.3 microns from the air used to dry hands.
- Costs less to run**  
Dries 15 pairs of hands for the price of a single paper towel.<sup>3</sup>
- Certified by NSF International**  
No other hand dryer meets every part of NSF Protocol 335.
- Certified by HACCP**  
Hygienically safe for use in the food and beverage industry.
- Small carbon footprint**  
Dyson Airblade™ hand dryers produce up to 72% less CO<sub>2</sub> per dry than paper towels, and up to 68% less than other hand dryers.<sup>4</sup>
- No water on the floor**  
There’s no need to leave the sink to dry hands, so water isn’t dripped on to the floor.
- Saves water**  
Controlled water flow rate and sensor operation save water.



AB 09 Short AB 10 Long AB 11 Wall

# Reasons to choose a Dyson Airblade™ hand dryer

# Why Dyson?

<sup>1</sup> Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.  
<sup>2</sup> When compared to the original Dyson Airblade™ hand dryer.  
<sup>3</sup> For calculations visit [dysonairblade.com/calcs](https://www.dysonairblade.com/calcs)  
<sup>4</sup> Calculated using method developed with Carbon Trust, utilizing data from 2011 Life Cycle Assessment of Hand Drying Systems study, U.S. environmental statistics including electricity grid mix and recycling practices, and dry times measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.



# Benefits

Airblade™ technology.

Fast dry time.

Dries hands hygienically.

Better for the environment.

No paper waste.

Less energy.

Saves money.

# How Airblade™ technology works.

Dyson digital motor V4

+

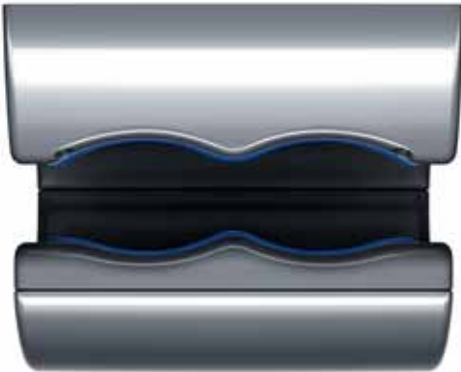
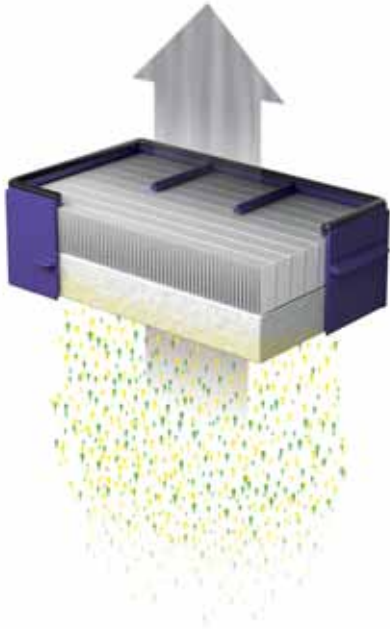
HEPA filter

+

Airblade™ technology

=

The fastest, most hygienic hand dryers



**Dyson digital motor**  
The Dyson digital motor V4 was seven years in the making. It's one of the world's smallest fully integrated 1400W motors. And it's the only hand dryer motor powerful enough to draw in up to 9.25 gallons of air a second through a HEPA filter, then dry hands in 14 seconds or under.<sup>1</sup>

**HEPA filter**  
Two layers of filtration allow the HEPA filter to work harder, capturing 99.97% of bacteria at 0.3 microns. Our new HEPA design is proven to last twice as long as the filter used in the original Dyson Airblade™ hand dryer.

**Airblade™ technology**  
Every second, up to 9.25 gallons of air are forced through apertures up to 0.8 mm wide. The result – 420mph sheets of air that scrape water from hands, drying them quickly and hygienically.

<sup>1</sup>Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

# Fast dry time

**Other hand dryers are too slow**

Some hand dryers take up to 43 seconds to dry hands. Many people give up when using a slow hand dryer. But damp hands can spread up to 1,000 times more bacteria than dry hands.

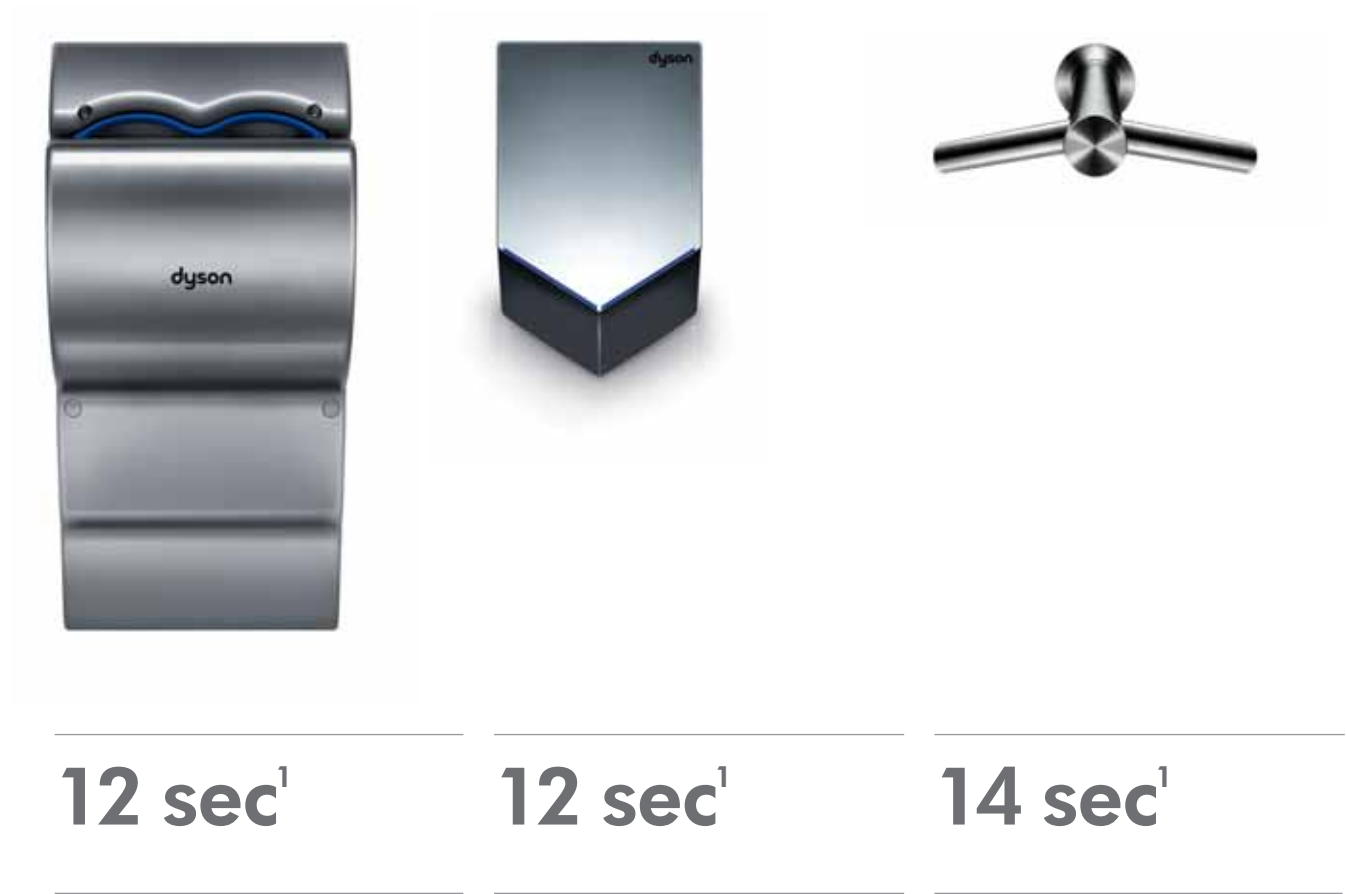


up to 43 sec<sup>1</sup>

<sup>1</sup>Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

**Dyson hand dryers are the fastest**

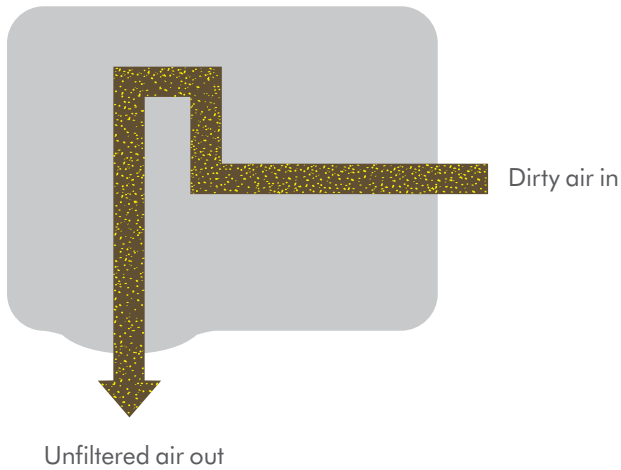
Every second, up to 9.25 gallons of air are forced through apertures up to 0.8mm wide. The result – 420 mph sheets of air that scrape water from hands, drying them quickly and hygienically.



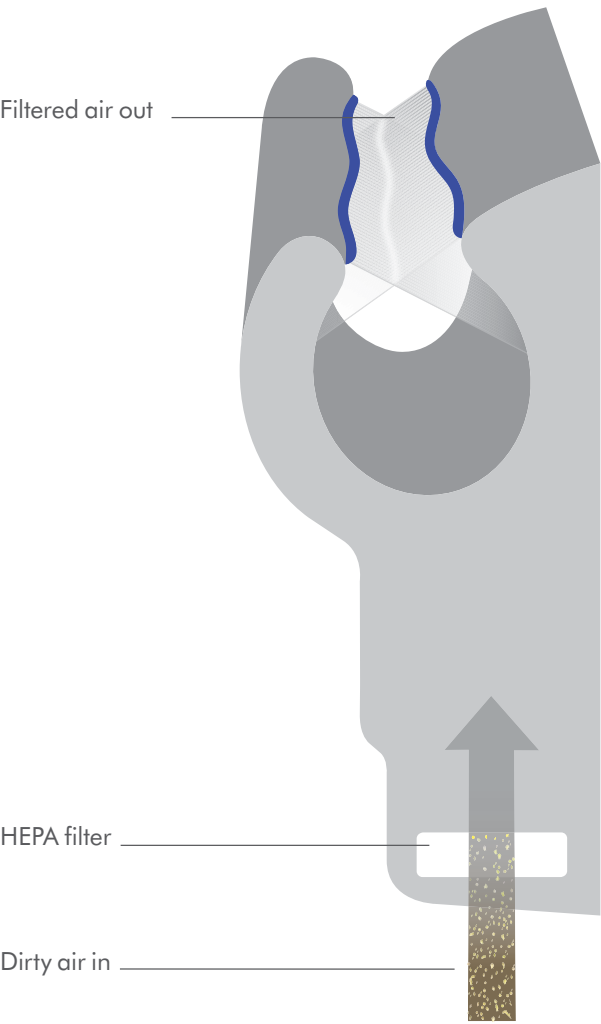
<sup>1</sup>Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

# Dries hands hygienically

**Other hand dryers can be unhygienic**  
They don't filter bacteria from the washroom air. They suck in dirty air then blow it back onto hands.



**The most hygienic hand dryers**  
Dyson Airblade™ hand dryers use HEPA filters. 99.97% of bacteria at 0.3 microns in the washroom air are captured. So hands are dried using cleaner air, not dirty air.





# Better for the environment

## High impact on the environment

Dyson Airblade™ hand dryers produce up to 72% less CO<sub>2</sub> than some other hand dryers and up to 68% less than paper towels.<sup>4</sup>



17.8g

per dry<sup>4</sup>

15.5g

per dry<sup>4</sup>

## Low impact on the environment

Dyson Airblade™ hand dryers have a low environmental impact across measures including carbon emissions and energy consumption.<sup>4</sup>



5.0g

per dry<sup>4</sup>

5.3g

per dry<sup>4</sup>

5.8g

per dry<sup>4</sup>

<sup>4</sup>Calculated using method developed with Carbon Trust, utilizing data from 2011 Life Cycle Assessment of Hand Drying Systems study, U.S. environmental statistics including electricity grid mix and recycling practices, and dry times measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

# Waste paper

If every person watching a 90 minute football match at Wembley Stadium used paper towels to dry their hands in the washrooms, more than 180,000 paper towels would go into landfill or an incinerator.<sup>5</sup>



<sup>5</sup>Capacity of the national football stadium in England (Wembley) is 90,000 (data source: www.thefa.com). Based on two paper towels per use.

# Less energy

Most conventional hand dryers heat the air. A fast dry time and no heating element mean the Dyson Airblade™ hand dryer uses up to **80%** less energy than warm air dryers.<sup>4</sup>



<sup>4</sup>Calculated using method developed with Carbon Trust, utilizing data from 2011 Life Cycle Assessment of Hand Drying Systems study, U.S. environmental statistics including electricity grid mix and recycling practices, and dry times measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

# Saves money

**Expensive to run**  
Paper towels need constant restocking and disposal. Traditional hand dryers are slow so they're energy hungry.



**\$1,460**

per year<sup>3</sup>

**\$157**

per year<sup>3</sup>

**Low running costs**  
Dyson Airblade™ hand dryers cost up to 69% less to run than other hand dryers, and up to 97% less than paper towels.<sup>3</sup>



**\$40**

per year<sup>3</sup>

**\$43**

per year<sup>3</sup>

**\$48**

per year<sup>3</sup>

<sup>3</sup>For calculations visit [dysonairblade.com/calcs](https://dysonairblade.com/calcs)

<sup>3</sup>For calculations visit [dysonairblade.com/calcs](https://dysonairblade.com/calcs)

Dyson Airblade™  
hand dryer  
accreditations



Approved



# HACCP

HACCP International has certified the Dyson Airblade dB hand dryer and the Dyson Airblade Tap hand dryer as suitable for use in the food industry.

## Approved for the food industry

Traditionally hand dryers have not been used in food preparation environments. They leave staff with damp hands because they're too slow, they blow dirty washroom air onto clean hands and their surfaces can harbour bacteria. The Dyson Airblade dB hand dryer and the Dyson Airblade Tap hand dryer have a fast dry time and a HEPA filter.

**“The technology addresses a number of unacceptable risks posed by hand dryers in the past. It’s easy to clean and is a touch-free system. It also has a fast dry cycle. With the inclusion of a HEPA filter, these features combine to reduce considerably the risk of microbiological contamination and thereby meet HACCP International’s food safety criteria.”**

Clive Withinshaw  
Director, HACCP International.

The Hazard Analysis Critical Control Point (HACCP) is an internationally recommended system of food safety management.



# Carbon Trust

Working with the Carbon Trust, Dyson measured the carbon footprint of the Dyson Airblade™ hand dryer. The calculation covers: materials, manufacture, transport, use, and end-of-life disposal.<sup>4</sup>

## Every single component

The Dyson Airblade™ hand dryer range has 275 components and even the smallest one was assessed. Materials and manufacture were found to represent 7% of total emissions. The manufacture of paper towels represents 81% of total emissions.

## Waterways vs. highways

Transportation represents less than 1% of total Dyson Airblade™ hand dryer emissions. Most of it is by energy-efficient ships. It’s far lower than paper towels, which continually rely on road transport for re-stocking.

## Less energy = less carbon

The patented Dyson digital motor spins 90,000 times a minute – delivering a much faster dry time using less energy. Emissions during drying are lower than for warm air dryers because it uses up to 80% less energy.

## Disposal

When the Dyson Airblade™ hand dryer does eventually stop, many component parts are recyclable and the impact of doing so is a negligible part of its carbon footprint.

The Dyson Airblade™ hand dryer range is the only range to be awarded the Carbon Reduction Label.



<sup>4</sup>Calculated using method developed with Carbon Trust, utilizing data from 2011 Life Cycle Assessment of Hand Drying Systems study, U.S. environmental statistics including electricity grid mix and recycling practices, and dry times measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

# NSF

Dyson partnered with independent public health specialist NSF to define the criteria for a hygienic hand dryer. It’s something no one else had ever done before. The result is NSF Protocol P335 – and the Dyson Airblade™ hand dryer is the only hand dryer that meets every part of it. So it’s the only hand dryer certified hygienic.

## Only the Dyson Airblade™ hand dryer meets every part of NSF Protocol P335

### Air filtration

Air used to dry hands must be HEPA filtered.

### Unheated air

Warming moist bacteria increases their reproduction rate. Heated air can also remove beneficial oils from the skin.

### Drying time

Hands must be dried in under 15 seconds. NSF have defined dry as 0.1g of moisture. Damp hands can spread up to 1,000 times more bacteria.

### Touch-free operation

The hand dryer must start and stop without user contact.



TESTED. CERTIFIED. HYGIENIC

## Dyson Airblade™ hand dryer installations



# Case studies

## Dyson Airblade Tap hand dryer case studies





Kevlavik airport



“We wanted to create a functional, hygienic and elegant user-experience. This is exactly what we were looking for.”

Elin Kjartansdóttir, Architect.



With the Dyson Airblade Tap hand dryer, hands can be both washed and dried at the sink. There’s no need to move to a separate drying area, so water isn’t dripped on the floor.

Keflavik Airport in Iceland prides itself on delivering a modern, streamlined travel experience. Providing a natural link between North America and Europe, it encounters extreme ‘rush hours’ with up to 2,000 passengers landing and taking off.

To better cope, the airport recently underwent extensive renovations, including new washrooms in the Departure terminal. These were fitted with 81 Dyson Airblade Tap hand dryers.

“We wanted to create a functional, hygienic and elegant user-experience. The old-fashioned dryers take a long time, and do a bad job,” says the terminal’s architect, Elin Kjartansdóttir.

“We also didn’t want to see water or paper towels on the floor. We knew about Dyson but then stumbled on this one that’s a tap and a hand dryer. And we said ‘this is it, this is exactly what we’re looking for.’”

The Dyson Airblade Tap hand dryer washes and dries hands at the sink – there’s no need to move to a separate drying area, so no water is dripped on the floor. It uses air travelling at 420mph to dry hands in 14 seconds.

It also dries hygienically. Water and air are sensor-operated, so there are no taps to turn, or buttons to touch. A HEPA filter captures 99.97% of bacteria at 0.3 microns from the washroom air.

“They’re very easy to install – everything is wall-mounted and accessible. They go well with the whole design and the washrooms still look nice after a rush hour – no mess or water dripped on the floor. Most importantly, passengers really like it. They know their hands will be clean and dry and there’s no walking around with wet hands.”

dyson airblade tap

Sytner High Wycombe



“The feedback we have had on the Dyson Airblade Tap hand dryer is that all our customers think it’s amazing. The taps fit perfectly with the updated BMW Corporate Identity that we have recently installed in our dealership.”

Victoria Richards, Customer Relations Manager, Sytner High Wycombe BMW and MINI.



With the Dyson Airblade Tap hand dryer, hands can be both washed and dried at the sink. There’s no need to move to a separate drying area, so water isn’t dripped on the floor.

BMW is one of the best-selling luxury car manufacturers in the world. As well as producing its own vehicles, it owns and produces MINI cars and is the parent company of Rolls-Royce Motor Cars. Its award-winning Sytner dealership in High Wycombe has just installed the Dyson Airblade Tap hand dryer.

“We’ve recently been under refurbishment, installing the updated BMW Corporate Identity. When refitting our washrooms, there was a clear choice,” explains Victoria Richards, Customer Relations Manager.

“We wanted to ensure that our customers have a premium experience throughout the dealership. And we felt it important that each area reflects the same level of design and engineering that’s present on the showroom floor. The sophistication and modern efficiency of the Dyson Airblade Tap hand dryer fitted this perfectly.”

The Dyson Airblade Tap hand dryer allows users to wash and dry their hands at the sink – so there’s no need to move to a separate drying area. Hands are dried hygienically in just 14 seconds.

An infrared sensor detects hand position and releases water. When hands are moved apart, another sensor is triggered and air is forced through two laser-cut apertures measuring just 8 mm in width. This creates two high-velocity sheets of air that literally scrape water from hands like windscreen wipers.

“The feedback we have had on the taps is that all our customers think they are amazing,” says Victoria. “They work seamlessly in conjunction with our new countertop sinks – and there’s never any water dripped on the floor.”

dyson airblade tap

# The Serpentine Galleries



“We are thrilled to be working with Dyson. The new Dyson Airblade Tap hand dryers fit perfectly with the aesthetic of the new building and the existing gallery. It is both visually appealing and efficient.”

Serpentine Galleries, London



With the Dyson Airblade Tap hand dryer, hands can be both washed and dried at the sink. There’s no need to move to a separate drying area, so water isn’t dripped on the floor.

**The Serpentine is one of London’s best loved modern and contemporary art galleries, situated in Kensington Gardens. It attracts up to 1.2 million visitors a year to its exhibitions, architecture, design, education and public programmes.**

In 2013, it opened its new space, The Serpentine Sackler Gallery designed by renowned firm Zaha Hadid Architects. Built in an 1805 former gunpowder store, it’s a striking fusion of old and new with every detail considered to provide a stimulating, user-friendly experience.

This included the latest hand drying technology. The architects discovered that the Dyson Airblade Tap hand dryer was launching shortly before the gallery’s opening. Washrooms were designed especially with the Dyson Airblade Tap hand dryer in mind, including bespoke sinks.

“We wanted our washrooms to be clean, hygienic places, free from paper and mess,” say the Serpentine Galleries. “And we didn’t want guests to have to wait with dripping hands to use slow hand dryers.”

The Dyson Airblade Tap hand dryer washes and dries hands at the sink – there’s no need to move to a separate drying area, so no water is dripped on the floor. It uses air travelling at 420mph to dry hands in 14 seconds.

It also dries hygienically. A HEPA filter captures 99.97% of bacteria at 0.3 microns from the washroom air. Water and air are sensor-operated, so there are no taps to turn, or buttons to touch.

“We are thrilled to be working with Dyson. The new Dyson Airblade Tap hand dryers fit perfectly with the aesthetic of the new building and existing gallery. It is both visually appealing and efficient.”

# Dyson Airblade V hand dryer case studies



## Welcome Break



“Customers can go into the washroom and have a fantastic experience, knowing they can wash their hands and they’ll be dry.”

Natalie Baxter, Purchasing Coordinator.



With concentrated Airblade™ technology, the Dyson Airblade V hand dryer protrudes just four inches from the wall. It is 60% smaller than the original Dyson Airblade™ hand dryer, but has the same drying performance.

**Welcome Break is one of the UK’s largest independent motorway service operators. Its 4,500 staff annually provide world-class hospitality to 80 million visitors. High-quality washroom facilities are a fundamental part of the services they offer. To give customers a positive experience, washrooms need to be clean, fully functional and quick to use.**

Hand drying had previously presented problems. The hand dryers in Welcome Break washrooms were slow, expensive to run and needed considerable maintenance. To make improvements, the unreliable hand dryers were replaced with Dyson Airblade V hand dryers. Senior Unit Business Manager, Tracy Pollard, is responsible for the Leicester Forest East site, “We decided to use Dyson Airblade V hand dryers to improve on the speed, less maintenance work is involved and they’re more hygienic.”

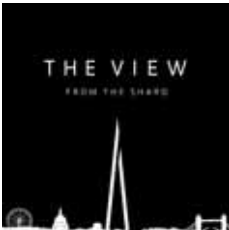
For Property and Safety Manager Simon Peene, the slowness of the previous hand dryers was a considerable drawback, “We’d just get this backlog of people wanting to dry their hands – if they bothered to dry their hands at all.”

Because Dyson Airblade™ hand dryers are the fastest, most hygienic hand dryers, Welcome Break customers are now able to dry their hands in 12 seconds using HEPA-filtered air. Simon Peene explains how this will improve both customer satisfaction and crowd management, “With a 12 second dry time, as opposed to 18-20 seconds, we’re going to reduce queues at our peak times.”

With all these advantages, Purchasing Coordinator Natalie Baxter says the decision to upgrade to Airblade™ technology was a simple one to make, “We just wanted to improve the washroom experience for our customers.”

dyson airblade V

## The View from The Shard



“The Dyson Airblade V hand dryers have a modern and sleek design that fits the general design of ‘The View from The Shard’ very well. Guests have told us they like the power and speed of the machines. We are very proud to be amongst the first to have these hand dryers.”

Sandy Clark, Operations Director, The View from The Shard.



With concentrated Airblade™ technology, the Dyson Airblade V hand dryer protrudes just four inches from the wall. It is 60% smaller than the original Dyson Airblade™ hand dryer, but has the same drying performance.

**The Shard is the tallest building in Western Europe. This iconic building, designed by master architect Renzo Piano, reaches 310m into the sky. It has redefined London’s skyline.**

‘The View from The Shard’ is the highest viewing platform from which the general public can view London – it is almost twice the height of any other. Spread across floors 68, 69 and 72 of The Shard, it offers 360° views across England’s capital city that reach up to 40 miles.

Previously, warm air hand dryers had been installed in the public washrooms. But they were not considered effective enough at drying hands, and their dated look did not reflect well on The Shard’s cutting-edge architectural and design status.

It is easy to replace old hand dryers with the Dyson Airblade V hand dryer. Being just four inches deep, no recessing is required and no additional services are needed for installation.

The Dyson machine dries hands in just 12 seconds and all the air passes through a HEPA filter that captures 99.97% of bacteria at 0.3 microns.

Guests have responded well to the drying speed and like the look of the Dyson hand dryers. Operations Director Sandy Clark explains, “The Dyson Airblade V hand dryers are efficient and drying time has improved dramatically. Guests feel that the new hand dryers are higher quality than hand dryers they have used elsewhere.”

The decision to replace old fashioned energy-hungry hand dryers with Airblade™ technology has also been received positively by management at ‘The View from The Shard’ Sandy explains, “We’re delighted with the new machines, and are particularly pleased to be one of the first British businesses to install Dyson Airblade V hand dryers.”

dyson airblade V



## Dyson Airblade dB hand dryer case study





Shedd Aquarium



“We were very excited to learn about Dyson’s sound improvements around absorbing unpleasant frequencies with their new Dyson Airblade dB hand dryer”

Bob Wengel, VP of Facilities.



Airblade™ technology combined with the Dyson digital motor V4 creates high speed sheets of air. The Dyson Airblade dB hand dryer is the fastest way to dry hands and is 50% quieter<sup>2</sup> than the original Dyson Airblade™ hand dryer.

**The John G. Shedd Aquarium is one of the world’s largest indoor aquariums with more than two million visitors yearly.**

In an effort to reduce waste, Shedd had removed paper towels from guest restrooms and installed hand dryers. Soon enough, they began experiencing issues: during large events in the Oceanarium, a 3 million gallon saltwater re-creation of the Pacific Northwest coast, noise from the hand dryer would bleed out of the restroom and disturb guests. In fact, Shedd had gone as far as to turn the hand dryers off and provide paper towels for guests to dry their hands – negating their sustainability goals.

Robert Wengel, VP of Facilities, was excited to learn about Dyson’s sound improvements with the Dyson Airblade dB hand dryer.

Dyson engineers significantly reduced air rush noise and incorporated Helmholtz silencers to absorb the unpleasant frequencies produced by the motor, making the Dyson Airblade dB hand dryer 50% quieter.<sup>2</sup>

To combat the issue of noisy, disruptive dryers, Shedd partnered with Dyson to install Dyson Airblade dB hand dryers in its Oceanarium lobby restrooms. “I believe that the Dyson Airblade dB hand dryer is going to have a positive effect on our guest experience,” Wengel observed.

The Dyson Airblade dB hand dryer also contributes to Shedd’s sustainability efforts. “It’s a great way to continue to stay on that technological edge. Our guests can realize as they’re using them that sustainability reaches every part of Shedd Aquarium including the restroom,” said Aislinn Gauchay, Manager of Great Lakes & Sustainability.

<sup>2</sup>When compared to the original Dyson Airblade™ hand dryer.

dyson airblade dB

Dyson Airblade™ hand dryer in washroom environments

Design

## Installations

The Dyson Airblade™ hand dryers are compatible with a wide range of washroom styles and sizes. Here are some examples of the machine installed in different environments.

The View  
from The Shard.  
London.



Sytner High Wycombe  
BMW and MINI.  
Buckinghamshire.



Broad Oak  
Ashford MINI.  
Kent.





**Idle Rocks Hotel.**  
St. Mawes, Cornwall.



**The Serpentine Galleries.**  
London.







## Engineered from the inside out

Good design is about how something works. Like all our machines, Dyson Airblade™ hand dryers are engineered to solve a problem – style trends hold no influence. The result: high performance technology that's beautiful in form and function.











Dyson Airblade™  
hand dryer  
technical details

Specifications

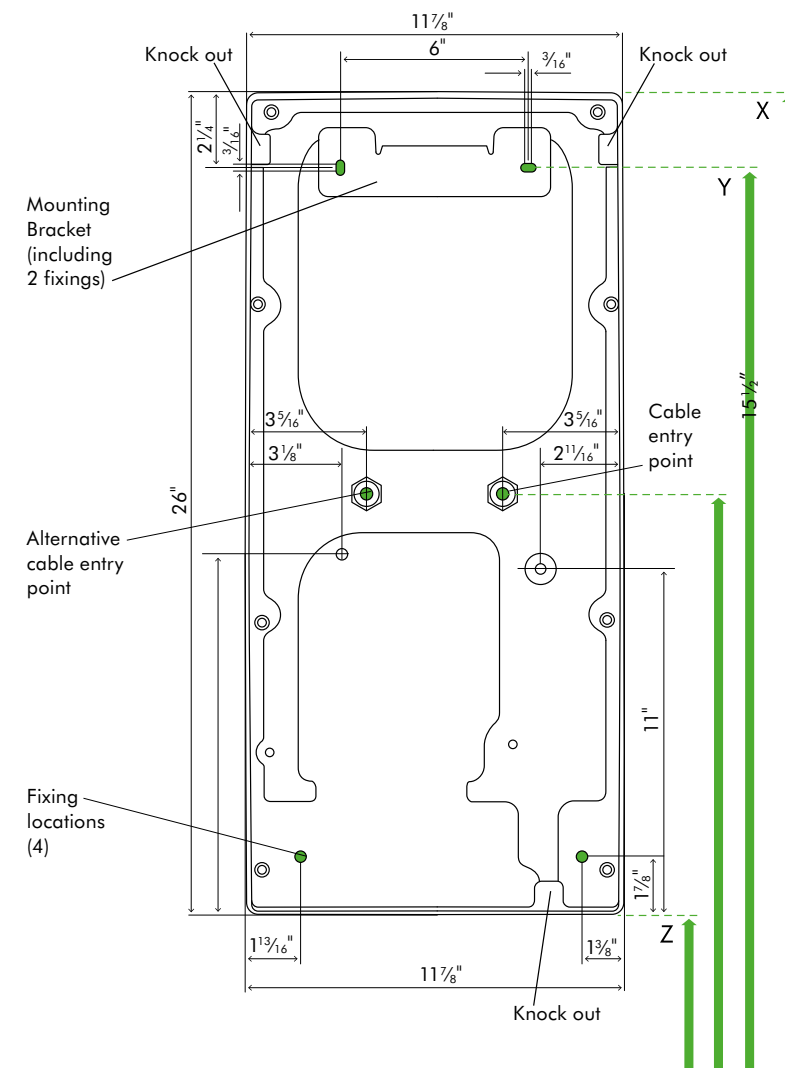


## TECHNICAL SPECIFICATION

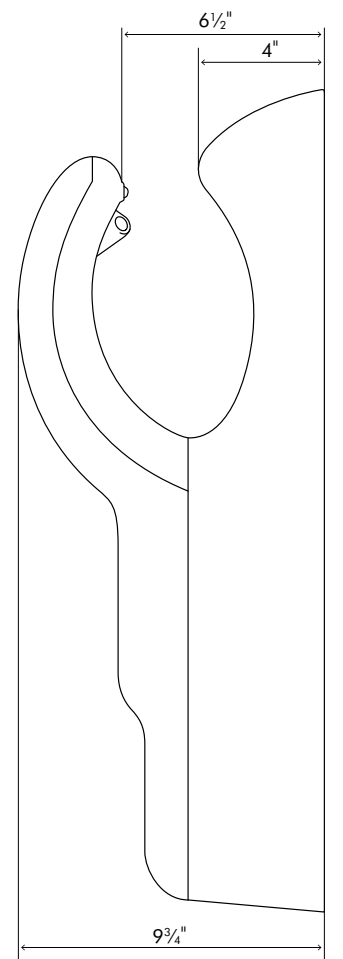
**AB**  
**14**



REAR ELEVATION



SIDE ELEVATION



All dimensions shown in inches (+/- 3/16 inches)

## FLOOR

Recommended installation heights from floor			
Male	X	41 <sup>3</sup> / <sub>8</sub> "	Y 39" Z 15 <sup>3</sup> / <sub>8</sub> "
Female	X	38 <sup>3</sup> / <sub>8</sub> "	Y 36" Z 12 <sup>3</sup> / <sub>8</sub> "
Child or disabled	X	34 <sup>1</sup> / <sub>2</sub> "	Y 32 <sup>1</sup> / <sub>8</sub> " Z 8 <sup>1</sup> / <sub>2</sub> "
Machine dimensions			
Height 26" Width 11 <sup>7</sup> / <sub>8</sub> " Depth 9 <sup>3</sup> / <sub>4</sub> "			

Minimum clearance	
7 <sup>7</sup> / <sub>8</sub> " from floor; 2" clearance either side and above machine.	
Cable entry point from floor	
Male	28 <sup>1</sup> / <sub>2</sub> "
Female	25 <sup>5</sup> / <sub>8</sub> "
Child or disabled	21 <sup>5</sup> / <sub>8</sub> "

For further information please contact Dyson.  
1-888-397-6622 • [www.dysonairblade.com](http://www.dysonairblade.com) • [airbladeinfo@dyson.com](mailto:airbladeinfo@dyson.com)

# dyson airblade dB

AB  
14

<b>Electrical</b>
Input voltage/Frequency: 120-127V 50 & 60 Hz
Rated power: 1400 W
Motor type: Dyson digital motor V4 – brushless DC Motor
Motor switching rate: 6,100 per second
Motor speed: 92,000 rpm
Operating temperature range: 32°– 104°F
Heater type: None
Standby power consumption: Less than 0.5 W

<b>Construction</b>
Casing construction: Polycarbonate-ABS casing
Antimicrobial coating type: Antimicrobial molded additive in facia and blades
Color finish: Gray or White
Light reflective value: 28.3 (gray) 77.4 (white)
Galvanized steel back plate/mounting bracket
Exterior screw type: Anti-tamper M6 machine screw
Water ingress protection to IP35

<b>Filter</b>
HEPA filter (glass fiber and fleece prelayer)
Bacteria removal 99.97% at 0.3 microns

<b>Operation</b>
Touch-free infra-red activation
Hand dry time measurement: 12 seconds* (Measurement based on National Sanitation Foundation Protocol P335)
Operation lock-out period: 30 seconds
Airspeed at apertures: 420 mph
Operating airflow: Up to 9.25 gallons/s
Sound power level: 81dB(A)

<b>Logistics</b>
Serial number prefix: Gray FT6; White FT7
Single unit order code: Gray 300681-01; White 300682-01
Net weight: 18.1 lbs
Packaged weight: 24.3 lbs
Packaged dimensions: 28 <sup>15</sup> <sub>16</sub> " × 14 <sup>1</sup> <sub>8</sub> " × 12"
Unit barcode: Gray 88560900151 7; White 88560900152 4

<b>Standard warranty</b>
5 year parts, 1 year limited labor warranty

<b>Accreditations</b>
Carbon Trust
HACCP International
NSF International P335

\*Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.



### Product range

AB14 Gray



White



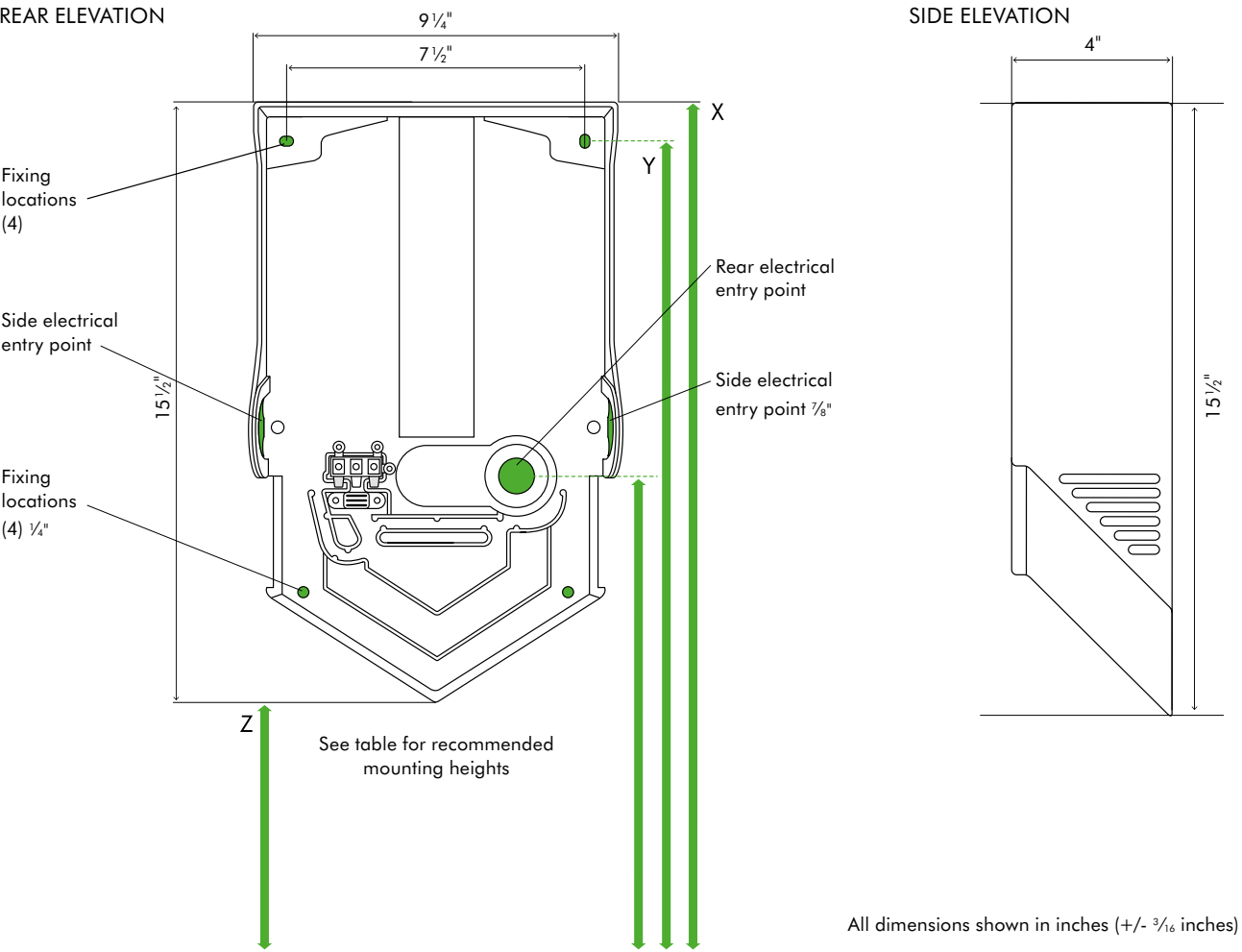
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airbladeinfo@dyson.com

# dyson airblade V

## TECHNICAL SPECIFICATION

AB  
12



Recommended installation heights from floor				Minimum clearance
Male	X 52 1/8"	Y 51 3/16"	Z 36 5/8"	8 11/16" in clearance either side and 1 3/16" in above machine.
Female	X 50 3/4"	Y 49 13/16"	Z 35 1/4"	<b>Cable entry point from floor</b>
Child or disabled	X 42 5/16"	Y 41 3/8"	Z 26 13/16"	Male 42 7/8"
Child 5-8	X 37 1/2"	Y 36 7/16"	Z 22"	Female 41 1/2"
Child 8-11	X 41 1/16"	Y 40 1/2"	Z 25 13/16"	Child or disabled 33 3/16"
<b>Machine dimensions</b>				Child 5-8 28 1/4"
Height 15 1/2" Width 9 7/32" Depth 4"				Child 8-11 32 3/16"

For further information please contact Dyson.  
1-888-397-6622  
www.dysonairblade.com  
airbladeinfo@dyson.com

# dyson airblade V

AB  
12

<b>Electrical</b>
Input voltage/Frequency: 110V-120V 60 Hz
Rated power: 1400 W
Motor type: Dyson digital motor – V4 brushless DC Motor
Motor switching rate: 6,100 per second
Motor speed: 92,000 rpm
Operating temperature range: 32°– 104°F
Heater type: None
Standby power consumption: Less than 0.5 W
<b>Construction</b>
Casing construction: Polycarbonate casing
Antimicrobial coating type: AB12 (Sprayed nickel) Antimicrobial additive in paint. AB12 (White) Antimicrobial molded additive
Color finish: AB12 Sprayed nickel molded plastic. AB12 White molded plastic.
Back plate/mounting bracket construction: ABS/PBT Plastic
Exterior screw type: Anti-tamper M4 Pin-Hex
Water ingress protection to IP24
<b>Filter</b>
HEPA filter (Glass fiber and fleece prelayer)
Bacteria removal 99.97% at 0.3 microns
<b>Operation</b>
Proximity capacitive sensor. Touch free operation.
Hand dry time measurement: 12 seconds* (Measurement based on National Sanitation Foundation Protocol P335)
Operation lock-out period: 30 seconds
Airspeed at apertures: 420 mph
Operating airflow: Up to 7.39 gal/sec
Rated operating noise power: 85 db(A)
<b>Logistics</b>
Serial number prefix: AB12 (Sprayed nickel) AR7; AB12 (White) AR6
Single unit order code: AB12 (Sprayed nickel) 25887-01; AB12 (White) 25878-01
Net weight: AB12 6.17 lb
Packaged weight: AB12 8.81 lb
Packaged dimensions: H5¾" × W17⅞" × D10¾"
Unit barcode: AB12 (Sprayed nickel) 8799 5700 908 0; AB12 (White) 8799 5700 907 3
<b>Standard warranty</b>
5 year parts and 5 year limited labor warranty
<b>Accreditations</b>
Carbon Trust
NSF International



## Product range

AB12 Sprayed Nickel    AB12 White



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1-888-397-6622  
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[airbladeinfo@dyson.com](mailto:airbladeinfo@dyson.com)

\*Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

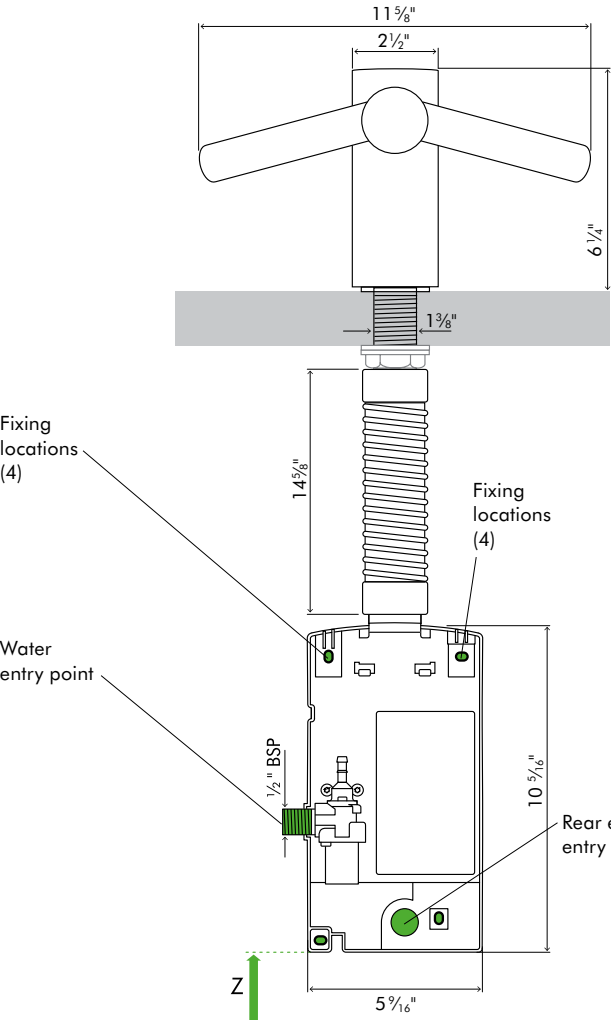
# dyson airblade tap

## TECHNICAL SPECIFICATION

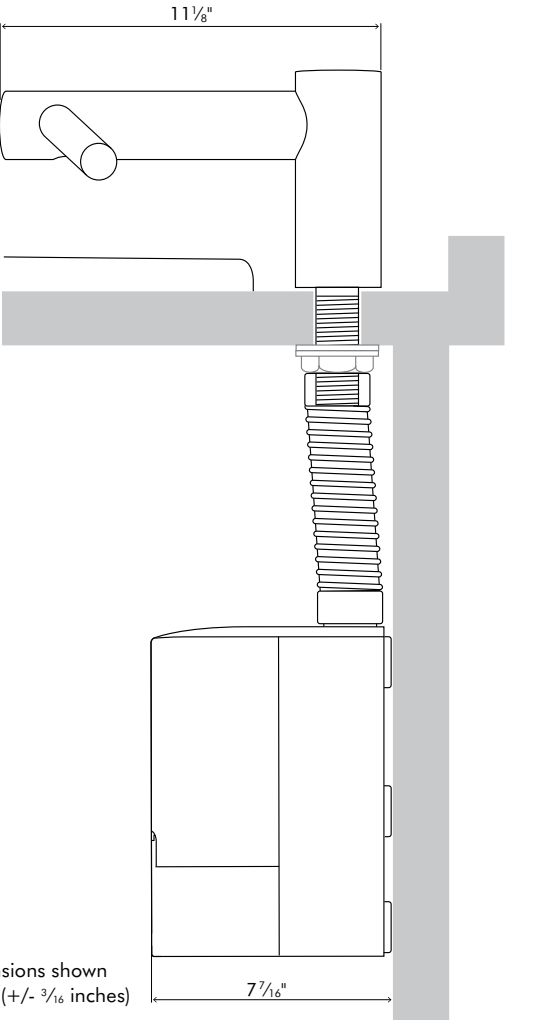
AB  
09    AB  
10    AB  
11



## FRONT ELEVATION



## SIDE ELEVATION



<b>Tap dimensions</b>	<b>Minimum clearance</b>
AB09 Height 6 ¼" Width 11 ⅝" Depth 11 ⅝"	Z 4" clearance from floor.
<b>Motor bucket dimensions</b>	
AB09 Height 10 ⅝" Width 5 ⅞" Depth 7 ⅞"	

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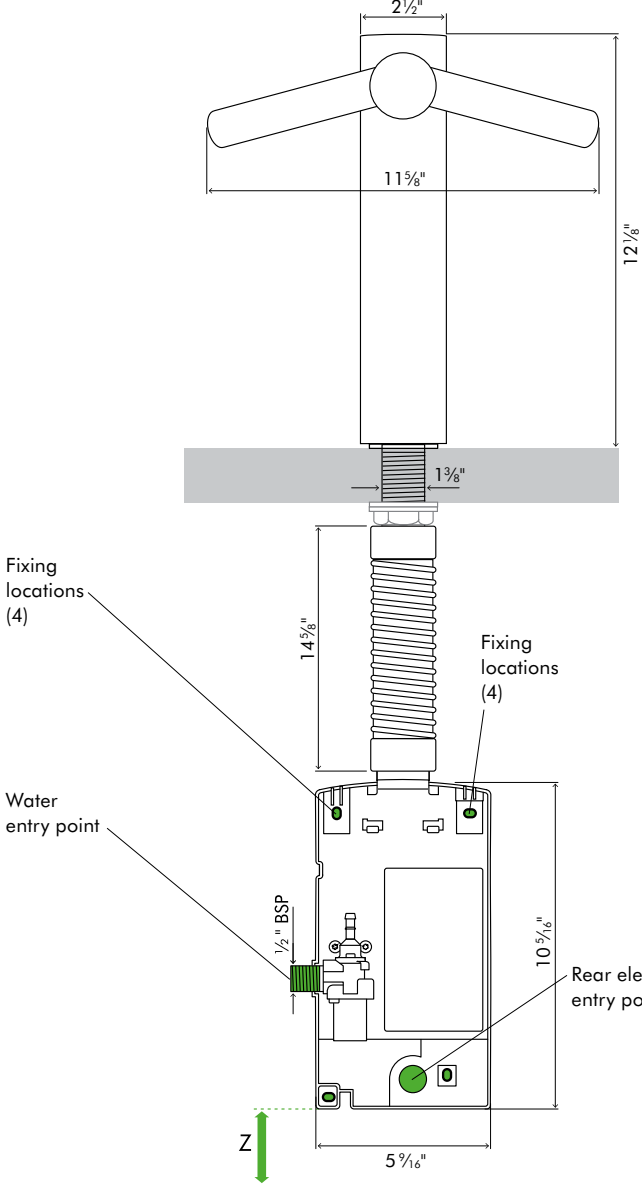
dyson airblade tap

TECHNICAL SPECIFICATION

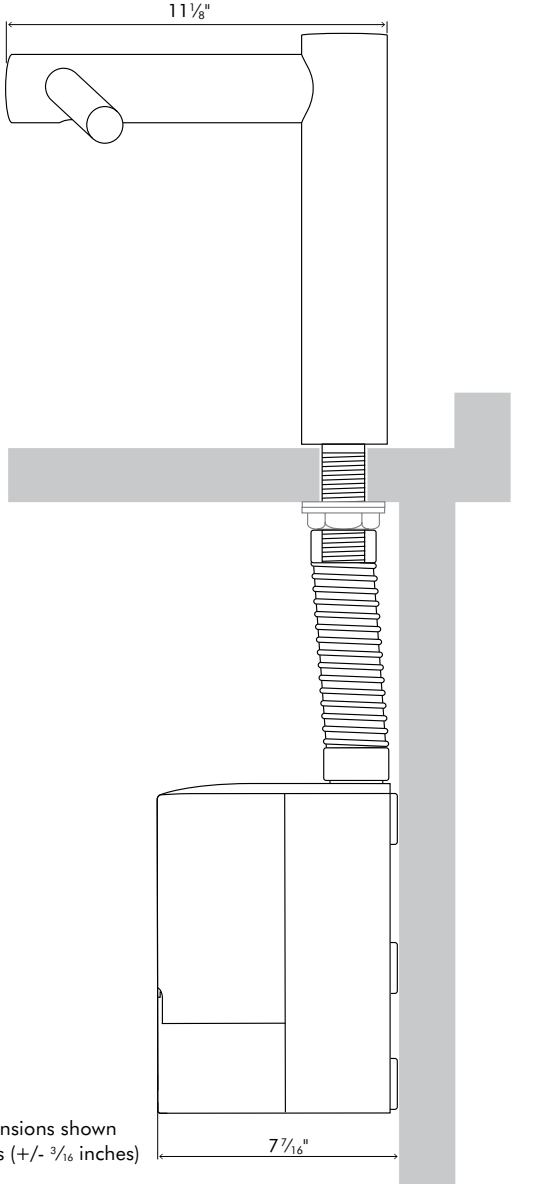
AB 09 AB 10 AB 11



FRONT ELEVATION



SIDE ELEVATION



All dimensions shown in inches (+/- 3/16 inches)

FLOOR	
Tap dimensions	Minimum clearance
AB10 Height 12 1/8" Width 11 5/8" Depth 11 1/8"	Z 4" clearance from floor.
Motor bucket dimensions	
AB10 Height 10 5/16" Width 5 9/16" Depth 7 7/16"	

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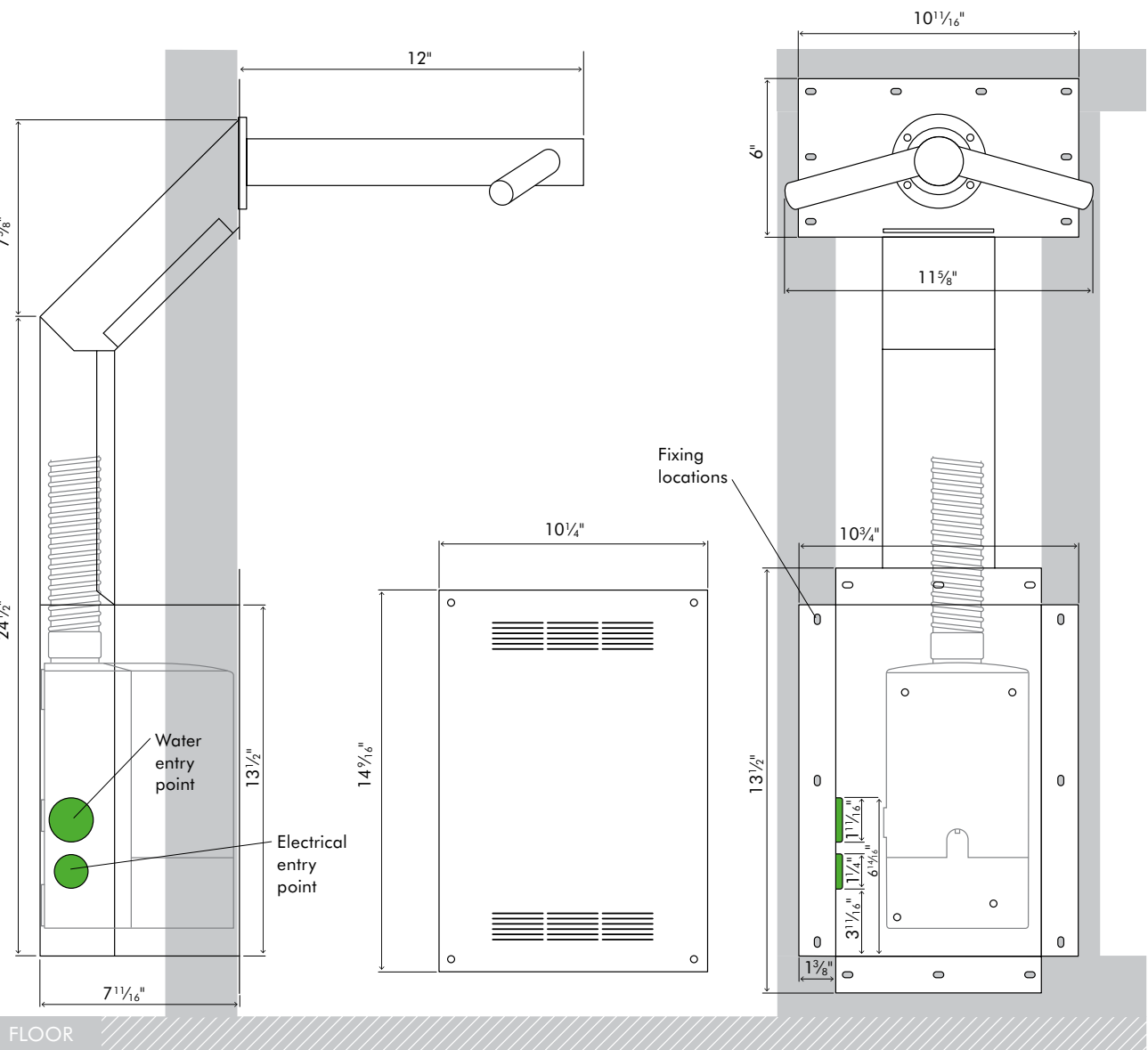
dyson airblade tap

TECHNICAL SPECIFICATION

AB 09 AB 10 AB 11



FRONT ELEVATION



Tap dimensions
AB11 Length 12 1/16" Width 11 5/8"
Motor bucket dimensions
AB11 Height 10 5/16" Width 5 9/16" Depth 7 7/16"

All dimensions shown in inches (+/- 3/16 inches)

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[www.dysonairblade.com](http://www.dysonairblade.com)  
[airbladeinfo@dyson.com](mailto:airbladeinfo@dyson.com)

# dyson airblade tap

AB  
09

AB  
10

AB  
11

### Electrical

Input voltage/Frequency: 110V-120V 60 Hz

Rated power: 1400 W

Motor type: Dyson digital motor – V4 brushless DC Motor

Motor switching rate: 6,100 per second

Motor speed: 92,000 rpm

Operating temperature range: 32° – 104°F

Heater type: None

Standby power consumption: Less than 0.5 W

### Construction

Tap construction: Stainless steel (brushed)

Lead Free

Under counter motor bucket: Molded ABS (main unit) also uses polycarbonate and polypropylene

Exterior screw type: Torx T15

Water ingress protection rating to IP35

### Filter

HEPA filter (glass fiber and fleece prelayer)

Bacteria removal 99.97% at 0.3 microns

### Operation

Touch-free infra-red activation

Hand dry time measurement: 14 seconds\*

(Measurement based on National Sanitation Foundation Protocol P335)

Operation lock-out period: 30 seconds

Airspeed at apertures: 420 mph

Operating airflow: Up to 7.92 gal/sec

Rated operating noise power: 85 db(A)

### Water operation

Water flow rate: 1.06 gal/min

Tap Aerator: 0.5 gal/min aerator outlet

Tap power supply: Mains supply

Water temperature control: Thermostatic mixer recommended (not supplied)

Water pressure required: 14.5-116 psi

### Logistics

Serial number prefix: AB09 AN5; AB10 AN6; AB11 AN7

Single unit order code: AB09 25992-01; AB10 25993-01; AB11 25994-01

Net weight: AB09 9.5 lbs.; AB10 10.1 lbs.; 19.7 lbs.

Packaged weight: AB09 13.4 lbs.; AB10 14.3 lbs.; 25.9 lbs.

Packaged dimensions: AB09 H11<sup>7</sup>/<sub>8</sub>" × W11<sup>1</sup>/<sub>8</sub>" × D11<sup>1</sup>/<sub>4</sub>";

AB10 H10<sup>7</sup>/<sub>8</sub>" × W17<sup>1</sup>/<sub>4</sub>" × D11"; AB11 H11<sup>7</sup>/<sub>8</sub>" × W24" × D14<sup>3</sup>/<sub>4</sub>"

Unit barcode: AB09 8799 5700 9110;

AB10 8799 5700 9127; AB11 8799 5700 9141

### Sink specifications

The Dyson Airblade™ Tap is compatible with most sink types.

Ensure plugs are not installed in the sinks.

Sink dimensions: All sink measurements are internal unless stated otherwise.

Width of sink – Minimum: 13<sup>25</sup>/<sub>32</sub>", Front to back – Minimum: 11<sup>13</sup>/<sub>16</sub>";

Depth of sink – Minimum 4"

Maximum depth of sink for AB10 only: 7<sup>7</sup>/<sub>8</sub>" (External measurement of vessel sink).

Sink materials: Sinks with highly polished surfaces should be avoided e.g. shiny chrome.

### Standard guarantee

5 year parts and 5 year limited labor warranty



### Product range

AB09 Short



AB10 Long



AB11 Wall



### Accreditations

Carbon Trust

HACCP International

NSF International



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\*Dry time measured using Dyson test method 769 based on NSF P335 using a measurement of 0.1g residual moisture.

For further information please contact Dyson.

1-888-397-6622

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[airbladeinfo@dyson.com](mailto:airbladeinfo@dyson.com)

# dyson airblade tap

## PRE-INSTALLATION INFORMATION

AB  
09

AB  
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AB  
11



### Sink specification guidelines

The Dyson Airblade Tap hand dryer is compatible with most sink types.

Do not use plugs within the plug holes in sinks.

Due to high velocity air and water being in close proximity, there is a chance of some water dispersion outside the sink dimensions.

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

Porcelain or brushed metal are ideal.

### Tap mounting

The tap stem (measured from the outside diameter) should be mounted 1<sup>9</sup>/<sub>32</sub>" – 1<sup>1</sup>/<sub>16</sub>" from the outside edge of the sink.

When multiple taps are installed side-by-side, tap centers should be a minimum of 22<sup>53</sup>/<sub>64</sub>" apart and a minimum of 11<sup>27</sup>/<sub>64</sub>" from tap center to a side wall. This allows sufficient space for mounting the motor bucket horizontally as well as enough space for users at the sink (shoulder to shoulder).

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

Fig.1

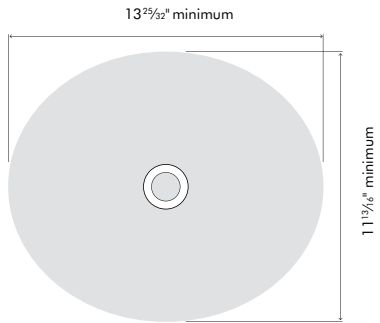


Fig.2

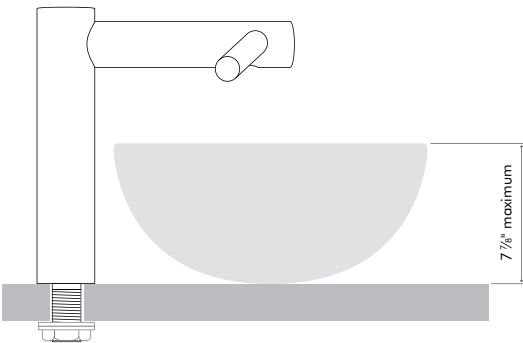


Fig.3

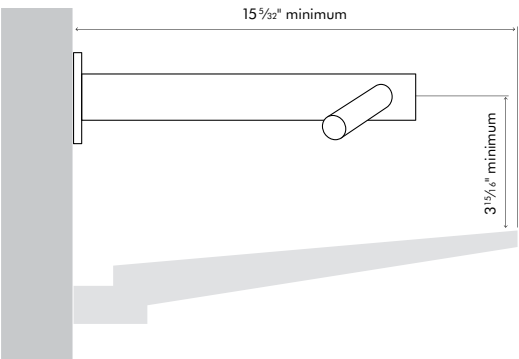
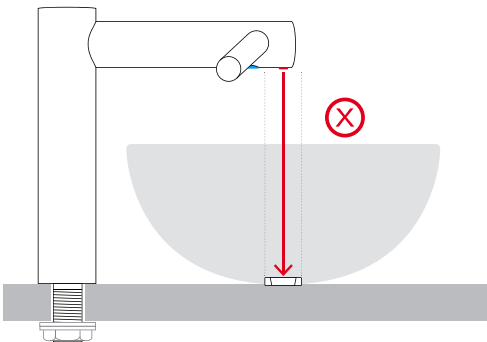


Fig.4



### Sink dimensions (All internal measurements unless otherwise stated)

**Fig.1** Width of sink minimum: 13<sup>25</sup>/<sub>32</sub>", Front to back of sink minimum: 11<sup>13</sup>/<sub>16</sub>"

**Fig.2** Maximum depth of sink for Long Neck Tap (AB10) only: 7<sup>7</sup>/<sub>8</sub>" (External measurement of vessel/pedestal sink).

For further information please contact Dyson.

888-397-6622

[airbladeinfo@dyson.com](mailto:airbladeinfo@dyson.com)

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**Fig.3** Minimum distance from tap center to top of sink (AB11 only) 3<sup>15</sup>/<sub>16</sub>". Front edge of sink (all types – pedestal, recessed, slab) to wall minimum 15<sup>5</sup>/<sub>32</sub>".

Internal depth of sink minimum (for all taps): 3<sup>15</sup>/<sub>16</sub>"



# dyson airblade tap

AB  
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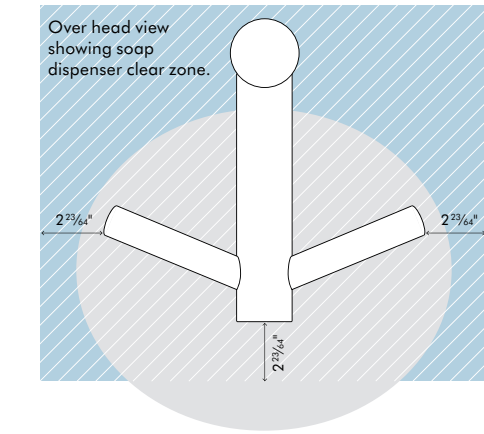
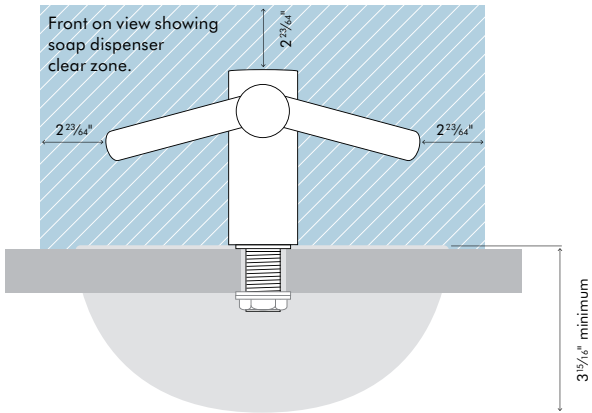
## Locating the soap dispenser

The infrared sensing zone for air activation extends along each tap branch. Therefore, it is the user’s hand route to the soap dispenser that is most important to prevent nuisance activation.

The soap dispenser should be located at least 2<sup>23</sup>/<sub>64</sub>" outside the width of the tap. This is so the user can reach around the side of the branch.

The soap dispenser should be located at least 2<sup>23</sup>/<sub>64</sub>" above the branches so that the sensors are not activated.

It is also important to note that the user may reach diagonally across for the soap and this path must not go through the sensing zone.



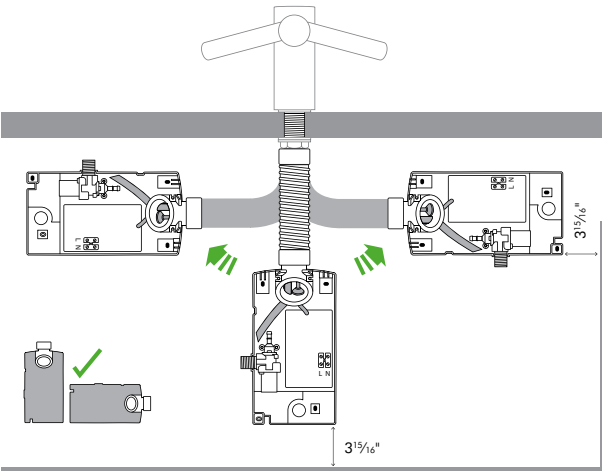
## Mounting the motor bucket (AB09/AB10)

The motor bucket cannot be mounted upside down.

The motor bucket cannot be installed above the sink.

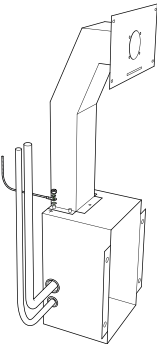
3<sup>15</sup>/<sub>64</sub>" minimum clearance from bottom of motor bucket to floor/wall.

Only the following is advised.



## Mounting the motor bucket (AB11) Metal enclosure assembly

This Dyson product is designed so the motor unit is located behind the stud wall. The vertical wall studs must be constructed so as to allow the metal enclosure to be fitted between them. 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.



For further information please contact Dyson.  
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# dyson airblade tap

AB  
09

AB  
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AB  
11

## Abusive testing

The tap 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 1<sup>3</sup>/<sub>8</sub>" drill bit

Qty 4 wallplugs (suitable for wall type fixing to)

7mm flat head screwdriver

Flat terminal block screwdriver

Tap spanner

Spanner 1<sup>1</sup>/<sub>2</sub>"

Sharp knife/blade

Pan head screws. Size 1<sup>3</sup>/<sub>64</sub>" dia toggle or masonry type

Conduit as per local electrical regulations

## Electrical

Input voltage/Frequency: 220-253V 50 Hz

Isolated by switch fuse spur or RCD as appropriate

Current 6.6 Amps

Cable spec 3 core PVC 1.5mm cross sectional area

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

Rated power: 1400 W

Operating temperature range: 32° – 104°F

Standby power consumption: Less than 0.5 W

## Water operation

Water flow rate: 4 l/min

Water temperature control: Thermostatic mixer recommended (not supplied)

Water pressure required: 1-8 Bar

1<sup>1</sup>/<sub>2</sub>" BSP isolated valve required for service

## 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 Tap hand dryer) to be subjected to regular cleaning to minimize any biological growth.

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

Dyson is unable to advise regarding the details of the cleaning you should carry out because this will be specific both to the applicable regulations and to your water supply system.

When carrying out internal cleaning of the Dyson Airblade Tap 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.  
888-397-6622  
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www.dysonairblade.com

TECHNICAL SPECIFICATION

HEPA Filter

The latest Dyson Airblade™ hand dryers are fitted with a HEPA filter that traps 99.97% of particles, as small as 0.3 microns, from the air that passes through the filter when tested to ASTM F1977 HEPA by independent test house IBR.

A HEPA filter is very effective at removing airborne particles from the air. To meet the US HEPA standard, filters are required to remove 99.97% of particles from the air, of which any particle size could be as small as 0.3 microns.

This ensures that users are drying their hands with clean air. Filters that don't meet these stringent standards are potentially less effective at removing bacteria from the air.

Filter life specification

Filter media/design: Glass HEPA filter

Filter replacement

All Dyson Airblade™ hand dryers have filters that can be replaced.

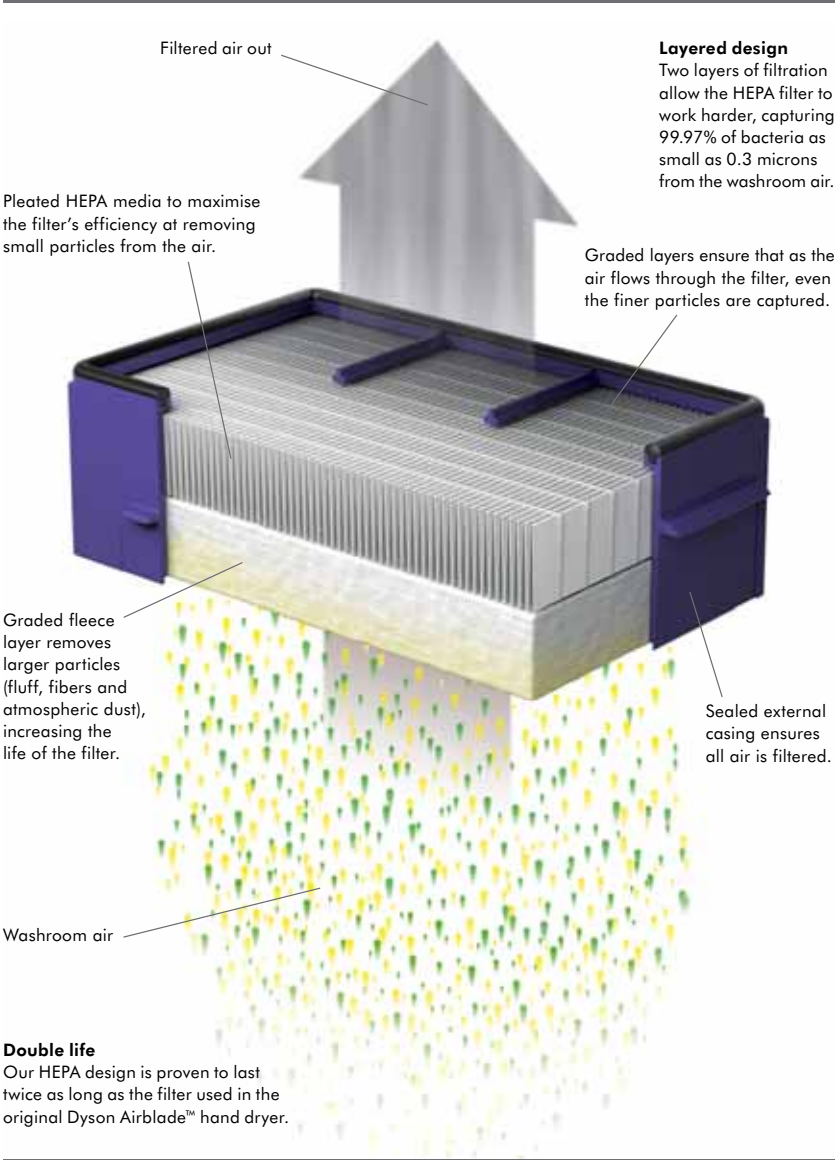
AB04/09/10/11/12/14 have filters that can be replaced by the customer, with no need for a qualified electrician.

AB02/06 have filters that can only be replaced by a qualified electrician.

All filters come with the service tool and full instructions.

Contact your local helpline to order replacement filters.

For more information, contact Dyson:  
1-888-397-6622  
airbladeinfo@dyson.com  
www.dysonairblade.com



AB02/04/06/14



AB12



AB09/10/11

Warranty

dyson airblade dB

5 Year Parts Warranty

All factory parts of your hand dryer are warrantied against original defects, material and workmanship for a period of 5 years from the start of your warranty, when used in accordance with the owner's manual and installation guide.

1 Year Labor Warranty

For 1 year from the start of your warranty, Dyson will carry out all repairs with no labor charge. After this, standard labor charges will apply. Please call the Dyson Helpline for more information.

Any parts which are returned and replaced by Dyson will become the property of Dyson.

The replacement of any part of your unit under warranty will not extend the period of warranty.

The warranty provides benefits which are additional to and do not affect any statutory rights you may have as a consumer.

AB 14



dyson airblade V

5 Year Warranty

This warranty covers the repair or replacement (at Dyson's discretion) of all factory parts of your hand dryer (including all parts and labor) if it is found to be defective due to faulty materials or workmanship for a period of 5 years from the start of your warranty, when used in accordance with the owner's manual and installation guide. Please call the Dyson Helpline for more information.

Where Dyson determines that the main body assembly needs replacement, Dyson will send a replacement to be fitted by the customer on site. The customer will need to return any defective parts to Dyson using the pre paid postage box provided.

Any replaced parts must be returned to Dyson or an administration fee will be levied.

Where a filter change is required, Dyson will provide a filter change kit to be installed on site by the customer.

Any parts which are returned and replaced by Dyson will become the property of Dyson.

The replacement of any part of your unit under warranty will not extend the period of warranty.

The warranty provides benefits which are additional to and do not affect any statutory rights you may have as a consumer.

AB 12



dyson airblade tap

5 Year Warranty

All factory parts of your hand dryer are warrantied against original defects, material and workmanship when used in accordance with the owner's manual and installation guide for a period of 5 years from the start of your warranty. Please call the Dyson Helpline for more information.

In instances where electrical failures occur during the warranty period, Dyson will carry out the repair with no labor charge. The replacement of the tap, motor bucket assembly, filter and solenoid are not covered for labor. If these parts fail replacement parts will be provided to be fitted on site by the customer. Please contact the Dyson Helpline if any further information is required.

Any parts which are returned and replaced by Dyson will become the property of Dyson.

The replacement of any part of your unit under warranty will not extend the period of warranty.

The warranty provides benefits which are additional to and do not affect any statutory rights you may have as a consumer.

AB 09



AB 10

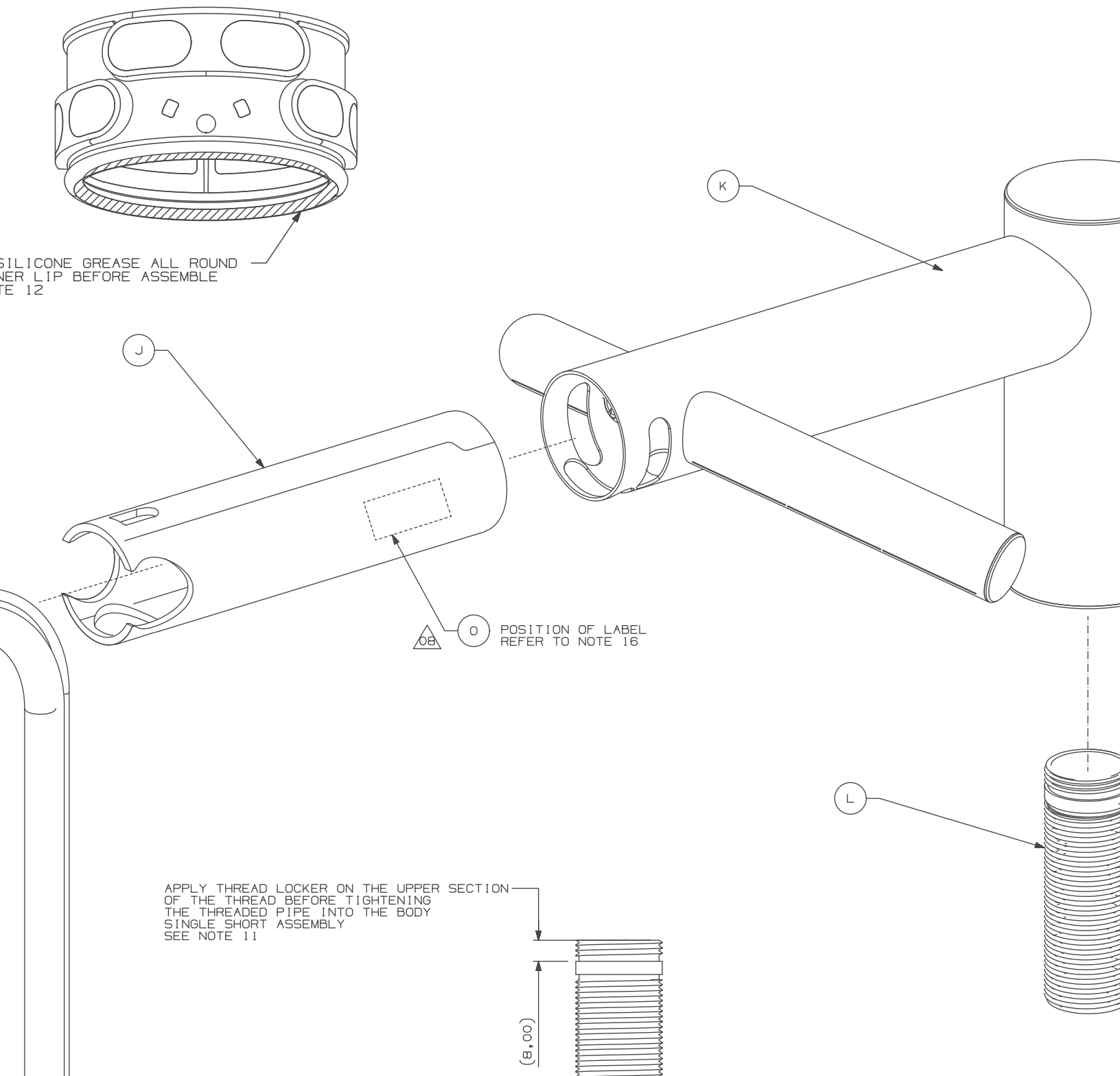


AB 11



**Find out more**

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to download CAD drawings and see technical data



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dyson airblade