

# dyson airblade

Fast to dry hands hygienically  
with HEPA filtered air.





## Why do we put up with products that don't work properly?

In 1907, paper towels were introduced to washrooms. The electric hand dryer made its first appearance in 1948. But both have changed little since – they can still be expensive, unhygienic and harmful to the environment.

At Dyson, our engineers didn't think that was good enough. So in 2006, they put a century of poor performing hand drying methods to rest – with the invention of Airblade™ technology.

## The problems with paper towels

Some paper towels may have a high impact on the environment and cause extra maintenance through mess and blockages. This can make them very expensive.

And because dispensers may be found empty leaving no way to dry hands, paper towels can create hygiene issues beyond the washroom.

### Did you know?

Ensuring hands are dry is crucial for maintaining hygiene levels, as damp hands can spread up to 1,000 times more bacteria to the surfaces they touch.<sup>1</sup>

<sup>1</sup>D. R. PATRICK, G. FINDON and T. E. MILLER: Residual moisture determines the level of touch-contact associated bacterial transfer following hand washing, *Epidemiol. Infect.* (1997): 119, 319-325.

## The problems with other hand dryers

### Warm air dryers

Warm air dryers are slow. Which means they're energy hungry, expensive to run and unhygienic.

Dry times can take up to 24 seconds, so many users give up before their hands are dry – risking increased spread of bacteria.

### Jet dryers

Other jet dryers might look like a Dyson Airblade™ hand dryer. But without patented Airblade™ technology and HEPA filters as standard, their performance is not the same. Thanks to weak motors, most other jet dryers can't generate the fast airflow needed to dry hands quickly. They can also lack the power required to draw the air through a HEPA filter.

So most other jet dryers aren't just slower than Airblade™ technology, they're less hygienic too.



### Have you ever looked inside a drain tank?

Some hand dryers collect waste water using drain tanks. But these are unhygienic – providing the perfect breeding ground for bacteria.

Drain tanks must be emptied and cleaned regularly – adding time and effort to the washroom maintenance process, and risking spillage of waste water during disposal.



### Did you know?

In recent testing, Dyson microbiologists detected greater levels of bacteria in a drain tank than levels that can be found in the average household toilet.\*

\*Sources: Dyson in-house testing, 2015; Scott et al., 2009; Medrano-Felix et al., 2010.

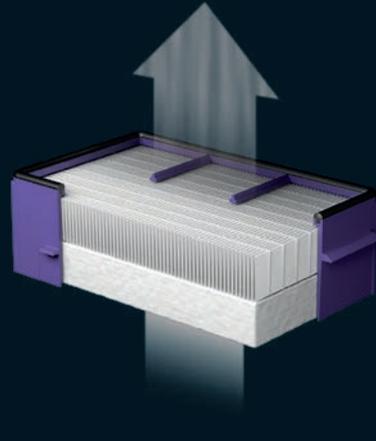
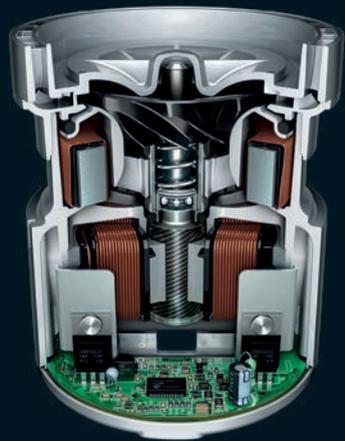
## Dyson Airblade™ hand dryers work differently

Dyson digital motor V4

+ HEPA filter

+ Airblade™ technology

= Fast to dry hands  
hygienically with  
HEPA filtered air



### Dyson digital motor V4

Sometimes conventional motors are bulky, slow and can be inefficient. They can also rely on carbon brushes, which wear out over time. The Dyson digital motor V4 is different. It's both compact and powerful, and instead of old-fashioned carbon brushes, it uses digital pulse technology to spin up to three times faster than a conventional motor.

### HEPA filter

Bacteria and viruses in washrooms can cause colds, flu, sickness, diarrhea or worse. Dyson Airblade™ hand dryers have HEPA filters installed as standard, which capture 99.97% of particles the size of bacteria as small as 0.3 microns from the washroom air. So hands are dried with cleaner air, not dirty air.

### Airblade™ technology

Every second, the Dyson digital motor V4 draws in up to 7.4 gal (28 liters) of air through a HEPA filter, and forces it through apertures up to 0.8 mm wide. The result – up to 420 mph (675 km/h) sheets of filtered air that scrape water from hands, drying them quickly and hygienically.

**No other hand  
dryer has this  
technology**

**Some hand dryers are too slow**

Testing based on NSF Protocol P335 shows that most other hand dryers are much slower than their manufacturers claim – with dry times based on drying hands without a HEPA filter. 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.



**24 sec**

Up to 24 sec

No HEPA filter as standard

**Dyson hand dryers are fast**

Testing based on NSF Protocol P335 shows that Dyson Airblade™ hand dryers are fast. Every second, up to 7.4 gal (28 liters) of air is forced through apertures up to 0.8 mm wide. The result – up to 420 mph (675 km/h) sheets of air that scrape water from hands, drying them quickly and hygienically.



**12 sec<sup>2</sup>**

HEPA filter as standard

**12 sec<sup>2</sup>**

HEPA filter as standard

**14 sec<sup>2</sup>**

HEPA filter as standard



<sup>2</sup>Dry time determined using Dyson test method 769 based on NSF P335 to a measurement of 0.1g residual moisture.

## Airblade™ technology is fast and hygienic

These are the reasons why:

Dyson digital motor V4

HEPA filter

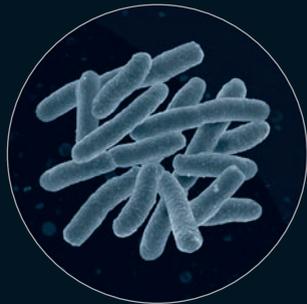
12-14 second dry time<sup>2</sup>

No drain tank

Antibacterial additive

No heating element

Touch-free operation



Damp hands can spread up to 1,000 times more bacteria than dry hands.<sup>1</sup>



### Hygienically drying hands is as important as washing them

Bacteria and viruses deposited by hands onto surfaces can survive for several hours. When others touch these contaminated surfaces, they can be transferred. Damp hands can spread up to 1,000 times more bacteria than dry hands.<sup>1</sup> It's why it's important that hands are dried with cleaner air.

### Hygienic hand dryers

Dyson Airblade™ hand dryers use HEPA filters. 99.97% of particles the size of bacteria as small as 0.3 microns are captured from the washroom air. So hands are dried in 14 seconds or less using cleaner air, not dirty air.<sup>1</sup> Both the Dyson Airblade V hand dryer and the Dyson Airblade dB hand dryer contain an antibacterial additive which can help prevent the growth of bacteria.

### Dyson hand dryers are globally certified as hygienic by HACCP International

Certified by HACCP International. The Dyson Airblade dB hand dryer and the Dyson Airblade Wash+Dry hand dryer have been certified for use in food preparation environments.



<sup>1</sup>D. R. PATRICK, G. FINDON and T. E. MILLER: Residual moisture determines the level of touch-contact associated bacterial transfer following hand washing, Epidemiol. Infect. (1997): 119, 319-325.  
<sup>2</sup>Dry time determined using Dyson test method 769 based on NSF P335 to a measurement of 0.1g residual moisture.

**Other hand drying methods can be more expensive to run**

Paper towels need constant restocking and disposal. Most other hand dryers are slow. They can be energy-hungry too.



**\$1,460**

per year<sup>3</sup>

**\$140**

per year<sup>3</sup>

**Low running costs**

Dyson Airblade™ hand dryers cost up to 78% less to run than other hand dryers, and up to 98% less than paper towels.<sup>3</sup>



**\$40**

per year<sup>3</sup>

**\$31**

per year<sup>3</sup>

**\$34**

per year<sup>3</sup>



<sup>3</sup>Electricity prices as of April 2017. For calculations visit [www.dyson.com/calcs](http://www.dyson.com/calcs)

**Higher impact on the environment**

Dyson Airblade™ hand dryers produce up to 80% less CO<sub>2</sub> than some other hand dryers and up to 81% less than paper towels.<sup>4</sup>



**17.1g**

CO<sub>2</sub> per dry<sup>4</sup>

**16.8g**

CO<sub>2</sub> per dry<sup>4</sup>

**Low impact on the environment**

Dyson Airblade™ hand dryers have a lower environmental impact across measures including carbon emissions and energy consumption.<sup>4</sup> They are the only hand dryer certified by the Carbon Trust.



**3.7g**

CO<sub>2</sub> per dry<sup>4</sup>

**3.3g**

CO<sub>2</sub> per dry<sup>4</sup>

**3.6g**

CO<sub>2</sub> per dry<sup>4</sup>



<sup>4</sup>The environmental impact of electrical appliances and paper towels was measured by Carbon Trust. The calculations were produced using the software Footprint Expert Pro, based on product use over 5 years and using weighted averages of individual countries of use. Dry times for product were evaluated using DTM 769.

# PAPER TOWELS HAVE AN IMPACT ON THE ENVIRONMENT

FROM DEFORESTATION, CHEMICAL PROCESSES AND DISPOSAL PRACTICES, PAPER TOWELS HAVE A SIGNIFICANT IMPACT ON THE ENVIRONMENT.

# 1

## DEFORESTATION

Trees are a major source of pulp for virgin paper towel production. Cutting down trees can result in loss of habitat.



# 2

## TIMBER TRANSPORTATION

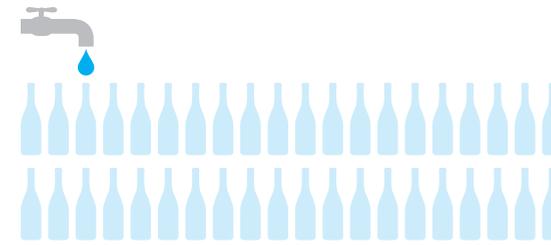
Timber has to be transported from forests to the paper mill.



# 3

## WATER INTENSIVE PROCESS

A high volume of water is used throughout the paper towel production.



# 4

## CHEMICAL PROCESSES

Chemicals, such as chlorine and sulfur dioxide, are used in the manufacturing process of paper towels.



# 5

## DELIVERY AND RESTOCKING

Paper towels have to be delivered from the mill to distributors and from distributors to facility managers. This is a continuous process resulting in carbon emissions.



# 6

## WASTE

Most used paper towels cannot be recycled. They are put into plastic bin liners which have to be stored.



# 7

## END OF LIFE DISPOSAL

Stored waste is collected and taken away for disposal.



# Dyson Airblade™ hand dryers have all these benefits.

12-14 second dry time.<sup>2</sup>

Hygienic.

HEPA filter as standard.

Costs less to run.

Better for the environment.

5 year limited warranty.



<sup>2</sup>Dry time determined using Dyson test method 769 based on NSF P335 to

## 5 year warranty. Unrivalled service.

### Test. Test. Test.

Dyson Airblade™ hand dryers are engineered to last. They have been repeatedly tested for durability and resilience to physical abuse. They have also been exposed to real-life environments to ensure that they can withstand the pressures of high usage.

### Warranty

Thanks to this rigorous testing regime, all factory parts on Dyson Airblade™ hand dryers are guaranteed against original defects in materials and workmanship for 5 years.

### Aftersales support

But if anything does go wrong with your machine, we provide repair and maintenance support through Dyson service engineers and self-service spare parts. Reducing downtime and disruption to your facilities.

### Dyson Airblade dB hand dryer

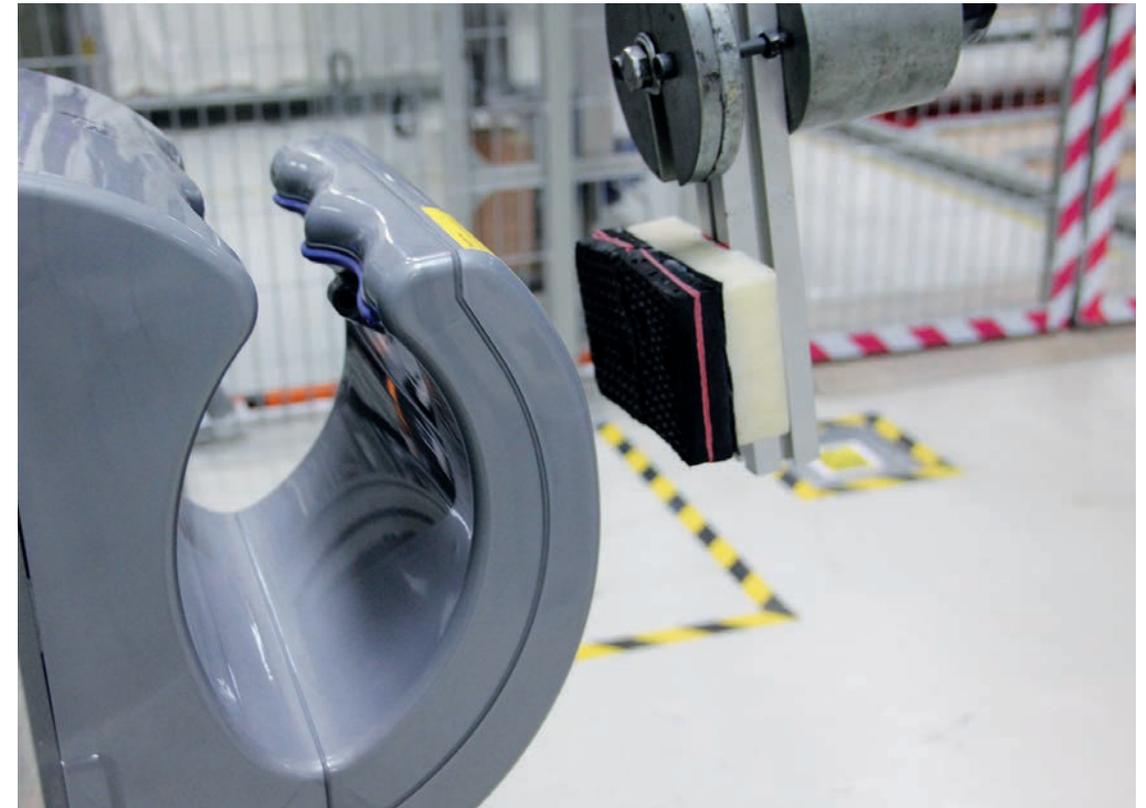
5 year parts, 1 year labor warranty.

### Dyson Airblade V hand dryer

5 year parts warranty,  
easy self-service.

### Dyson Airblade Wash+Dry hand dryer

5 year parts and labor warranty.



The hygienic hand dryer is 30% quieter.<sup>5</sup>

### 30% quieter

With reprogrammed digital motor technology and precision air apertures, loudness testing shows that the Dyson Airblade V hand dryer is 30% quieter than its predecessor.

### More room. Less hassle.

With a slim, compact profile that protrudes just 4 inches (10 cm) from the wall, the Dyson Airblade V hand dryer takes up less space in the washroom. While its easy-mount backplate allows for easy, self-service installation, maintenance and replacement.

For full product details visit [www.dyson.com](http://www.dyson.com)



### Certified by Quiet Mark

The Noise Abatement Society tested and approved the decibel levels and sound quality of the Dyson Airblade V hand dryer – awarding it the Quiet Mark. The Quiet Mark has been developed in response to public health concerns over the psycho-physiological effects of excessive or invasive sound produced by appliances.

<sup>5</sup>Loudness reduction compared to the original Dyson Airblade V hand dryer.

### 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 original Dyson Airblade V hand dryer.

# dyson airblade dB

Fast, hygienic hand dryer.

### Fast drying

The original Dyson Airblade dB hand dryer produces sheets of air travelling at up to 420 mph (675 km/h). They scrape water from the front and back of hands simultaneously, drying hands in just 12 seconds.<sup>2</sup>

### Safe for the food sector

The Dyson Airblade dB hand dryer has been approved for use in food preparation environments by HACCP International.

For full product details visit [www.dyson.com](http://www.dyson.com)



### Gloucester Services

"Although we had a wide range of hand dryers to choose from, our sister station has had its Dyson Airblade™ hand dryers for over 5 years and they still only have positive things to say."

**Joshua Jackson,**  
Facilities Manager.



<sup>2</sup>Dry time determined using Dyson test method 769 based on NSF P335 to a measurement of 0.1g residual moisture.

# dyson airblade wash+dry

Airblade™ hand drying technology in a tap.

Wash and dry hands at the sink.  
No waste water on the floor.  
With Airblade™ technology in a tap, hands can be dried at the sink in just 14 seconds.<sup>2</sup> There's no need for users to move to a separate drying area, so less water is dripped on the floor.

Free up your washroom.  
Other hand drying methods take up valuable wall and floor space. With the Dyson Airblade Wash+Dry hand dryer, there's room for extra toilet cubicles and other facilities.

For full product details visit [www.dyson.com](http://www.dyson.com)



**Certified by Quiet Mark**  
The Noise Abatement Society approved the decibel levels and sound quality of the Dyson Airblade Wash+Dry hand dryer – awarding it the Quiet Mark. The Quiet Mark has been developed in response to public health concerns over the psycho-physiological effects of excessive or invasive sound produced by appliances.

<sup>2</sup>Dry time determined using Dyson test method 769 based on NSF P335 to a measurement of 0.1g residual moisture.

Coca-Cola London Eye  
"As an iconic global landmark, The London Eye needs to meet high expectations of quality – and that extends to our washrooms. Installing the Dyson Airblade Tap hand dryer has allowed us to achieve this."

Davey Barrett,  
Show Services Manager.



## The range

AB  
14



Grey

White

### Fast, hygienic hand dryer.

12 second dry time.<sup>2</sup>

HEPA filter captures 99.97% of particles the size of bacteria as small as 0.3 microns from the washroom air.

Tested and certified by NSF International.

Certified for use in food environments by HACCP International.

Costs just \$40 to run per year.<sup>3</sup>

Small carbon footprint.<sup>4</sup>

Tough and durable.

Touch-free operation.

Contains antibacterial additive.



The Carbon label is a trademark of the Carbon Trust. HACCP International non-food certification mark is the registered trademark of HACCP International. HACCP International have certified Dyson products based on their recommended installation and operating conditions. Quiet Mark is a registered trademark of the Noise Abatement Society.

HU  
02



Sprayed nickel

White

### The hygienic hand dryer is 30% quieter.<sup>4</sup>

Certified by Quiet Mark.

HEPA filters capture 99.97% of particles the size of bacteria as small as 0.3 microns from the washroom air.

Tested and certified by NSF International.

12 second dry time.<sup>2</sup>

Costs just \$31 to run per year.<sup>3</sup>

Small carbon footprint.<sup>4</sup>

Slim profile – just 4 inches (10 cm) deep, no recessing required.

Touch-free operation.

Easy to service. Safe electrical disconnect.

Contains antibacterial additive.

WD  
04



Short

WD  
05



Tall

WD  
06



Wall

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

Wash and dry hands at the sink.

No waste water dripped on the floor.

Certified by Quiet Mark.

Saves space.

Saves water.<sup>6</sup>

Costs as low as \$34 to run per year.<sup>3</sup>

HEPA filter captures 99.97% of particles the size of bacteria as small as 0.3 microns from the washroom air.

Certified for use in food environments by HACCP International.

Automatic water flush, activates after 24 hours – helps reduce water stagnation.

Small carbon footprint.<sup>4</sup>

14 second dry time.<sup>2</sup>

<sup>2</sup>Dry time determined using Dyson test method 769 based on NSF P335 to a measurement of 0.1g residual moisture.  
<sup>3</sup>Electricity prices as of April 2017. For calculations visit [www.dyson.com/calcs](http://www.dyson.com/calcs)  
<sup>4</sup>The environmental impact of electrical appliances and paper towels was measured by Carbon Trust. The calculations were produced using the software Footprint Expert Pro, based on product use over 5 years and using weighted averages of individual countries of use. Dry times for product were evaluated using DTM 769.  
<sup>5</sup>Loudness reduction compared to the original Dyson Airblade V hand dryer.  
<sup>6</sup>Reduction in water compares 1 gal/min aerator fitted as standard to the Dyson Airblade Tap hand dryer to 0.5 gal/min aerator fitted to the Dyson Airblade Wash+Dry hand dryer.

# dyson airblade

Lighting



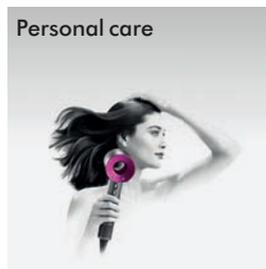
Hand dryers



Air quality



Personal care



See what Dyson technology can do for your business.

[www.dyson.com](http://www.dyson.com)

1-888-DYSON-AB