

## The Washroom Solution



**Avante®** Basins in Corian®

**dyson** airblade tap



# 1

## The Washroom Solution

- 06 Background
- 08 CDUK and Dyson

# 2

## Avante® Basins in Corian®

- 14 Design
- 20 Technology
- 22 Benefits

# 3

## Dyson Airblade Tap hand dryer

- 26 How it Works
- 28 Technology
- 32 Benefits

# 4

## Dyson Airblade Tap hand dryer: Accreditation

- 44 Carbon Trust
- 45 HACCP International
- 46 NSF

# 5

## The Washroom Solution: Case Studies

- 50 TaiKoo Hui
- 52 The Shard

# 6

## Avante® Basins in Corian®: Technical Overview

- 56 Technical Details

# 7

## Dyson Airblade Tap hand dryer: Technical Overview

- 76 AB09 Short
- 77 AB10 Long
- 78 AB11 Wall

# The Washroom Solution

1

## The Washroom Solution

### Background

---

### CDUK and Dyson

---

## **Avante® Basins in Corian® and Dyson Airblade Tap hand dryer, working perfectly together**

“Our mission is simple. We solve the problems others seem to ignore” James Dyson.

Whilst Dyson were solving the problems associated with washrooms, Avante® Basins in Corian® were solving another; how to contain the power and technology that Dyson were creating in the most beautiful way possible.

The result is a range of products that are designed to work hand-in-hand, technically and aesthetically. This is ‘The Washroom Solution’.





## Two innovative companies, one common goal

Occasionally, the collaboration of two iconic brands creates a solution which is greater than the sum of the parts; they are simply meant to be together. Such is the case with the products brought to market by CDUK and Dyson.

As the UK distributor of Corian® since 1979, CDUK has the expertise and product knowledge that match the innovation and style of Dyson. Whilst this collaboration started out of necessity, it has strengthened through the pursuit of a common goal. Avante® Basins in Corian® have been designed to work perfectly with the Dyson Airblade Tap hand dryer and together produce an exciting washroom solution.





Avante® Basins in Corian®

2

Avante® Basins in Corian®

Design

---

Technology

---

Benefits

---

## **There is an Avante® Basin in Corian® for every washroom**

The long-forgotten area of the washroom has now taken important steps forward aesthetically, functionally and environmentally; however, one solution doesn't necessarily work for every situation. Therefore, a specific range of Avante® Basins has been designed to meet each and every washroom demand.

### **Top Mount Basins**

Page 16

### **Undermount Basins**

Page 17

### **Wash Troughs**

Page 18

### **Healthcare Basins**

Page 19



## Top Mount Basins

Belfast



Cardiff



Edinburgh



Swansea



All technical information for Avante® Basins in Corian® can be found from pages 57–73

## Undermount Basins

Bristol



Durham



Exeter



Warwick



Windsor



York



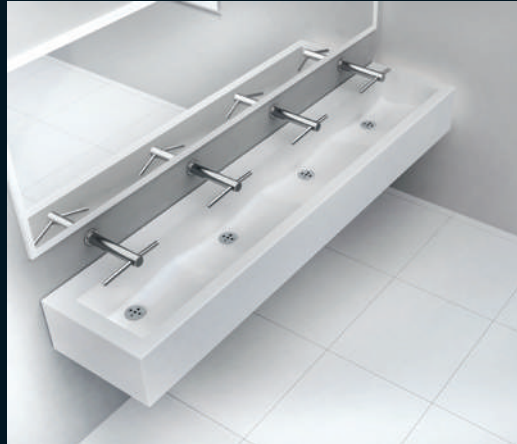
All technical information for Avante® Basins in Corian® can be found from pages 57–73

## Wash Troughs

Cambridge



London



Oxford



## Healthcare Basins

Healthcare 331



Healthcare 332



Healthcare 333



Healthcare 334



All technical information for Avante® Basins in Corian® can be found from pages 57–73

## State-of-the-art: a very accurate description

Avante® Basins are crafted from Corian® which is made by DuPont™. It's a clever, unique blend of natural materials, pigments and acrylic resin. Each basin is fabricated from solid Corian® sheets and due to the nature of the material, these basins can be seamlessly integrated into Corian® washroom surfaces, creating perfect facilities that are strong, beautiful and hygienic.





## Avante® Basins in Corian® are designed to work perfectly with the Dyson Airblade Tap hand dryer

This innovative combination stops splashes and drips, it's also energy efficient, safer, more durable, beautifully designed, fully accredited, guaranteed, cost-effective and has a lower effect on the environment than most taps and hand dryers.

### Safe

Washing and drying hands at the basin means that there is no need to walk to a hand dryer, therefore, there are no potentially dangerous drips on the floor.

### Sustainable

No need for paper towels and 74% less CO<sub>2</sub> than some hand dryers whilst still delivering an impressive 12 second drying time.\*

### Hygienic

Sensor-operated taps give a touch-free operation, combined with a HEPA filter, seamless basin integration and non-porous surfaces all of which means less bacteria build-up.

### Cost-Effective

Energy-efficient and low-maintenance, this combination can be one of the most powerful sales-tools, helping designers sell their ideas.

### Crafted

From heavy wear and tear areas to award-winning interior design, this combination is an incredible addition to any washroom.

### Guaranteed

Dyson Airblade™ hand dryers offer a 5 year guarantee, and Avante® Basins in Corian® give you ultimate peace of mind with a 10 year manufacturer's guarantee.



\* In collaboration with Carbon Trust, Dyson has produced a method to measure the environmental impact of electrical appliances and paper towels. The carbon calculations were produced using GaBi software provided by PE International, based on product use over 5 years and using the US as a representative country of use. Dry times for products were evaluated using DTM 769.

Dyson Airblade Tap hand dryer

3

Dyson Airblade Tap hand dryer

How it Works

---

Technology

---

Benefits

---

## **This solution is so advanced, it is simplicity itself**

With Airblade™ technology in a tap, hands are dried at the basin in 12 seconds. There's no need to move to a separate drying area.

Both water and air are sensor operated, so there are no taps to turn or buttons to touch. Intelligent infrared sensors emit light to pinpoint hand positions. Computer circuitry coordinates the information and initiates the appropriate response of water or air without long delays.

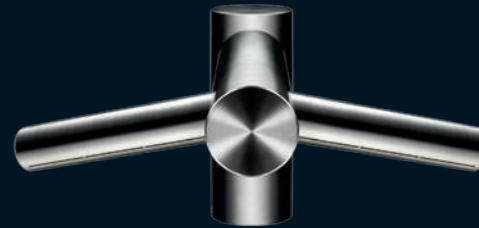
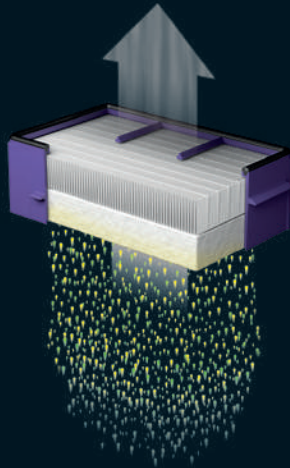
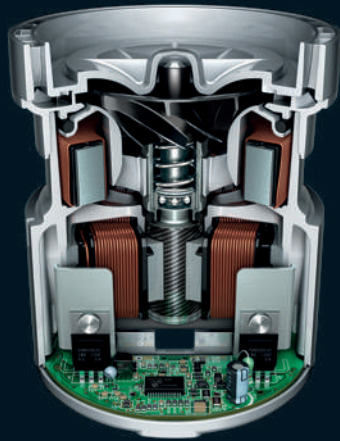


**Dyson digital motor V4**

**+ HEPA filter**

**+ Airblade™ technology**

**= The fastest  
over basin  
hand dryer**



#### **Dyson digital motor V4**

Conventional motors are bulky, slow and can be inefficient. They also rely on carbon brushes, which wear out over time. The Dyson digital motor V4 is different. It's one of the world's smallest fully integrated 1600W motors 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 and diarrhoea. The Dyson Airblade™ hand dryers have HEPA filters installed as standard, which capture 99.9% of bacteria and viruses in 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 35 litres of air through a HEPA filter, and forces it through apertures just 0.8 mm wide. The result — 430 mph sheets of filtered air that scrape water from hands, drying them quickly and hygienically.

**No other hand  
dryer has this  
technology**

## Airblade™ technology works differently

The Dyson Airblade Tap hand dryer is powered by the Dyson digital motor V4 — one of the world's smallest, fully-integrated 1600W motors. Its small size and power density are what have made Dyson's latest hand dryer technology possible.

## Inside The Dyson Airblade Tap hand dryer

### **Airblade™ technology**

Air travelling at 430 mph exits laser-cut apertures measuring just 0.8 mm in width.

### **Laser welding**

Fully-automated robotic precision cutting and welding allows high quality stainless steel tubes to be used in construction.

### **Intelligent water and air infrared sensors**

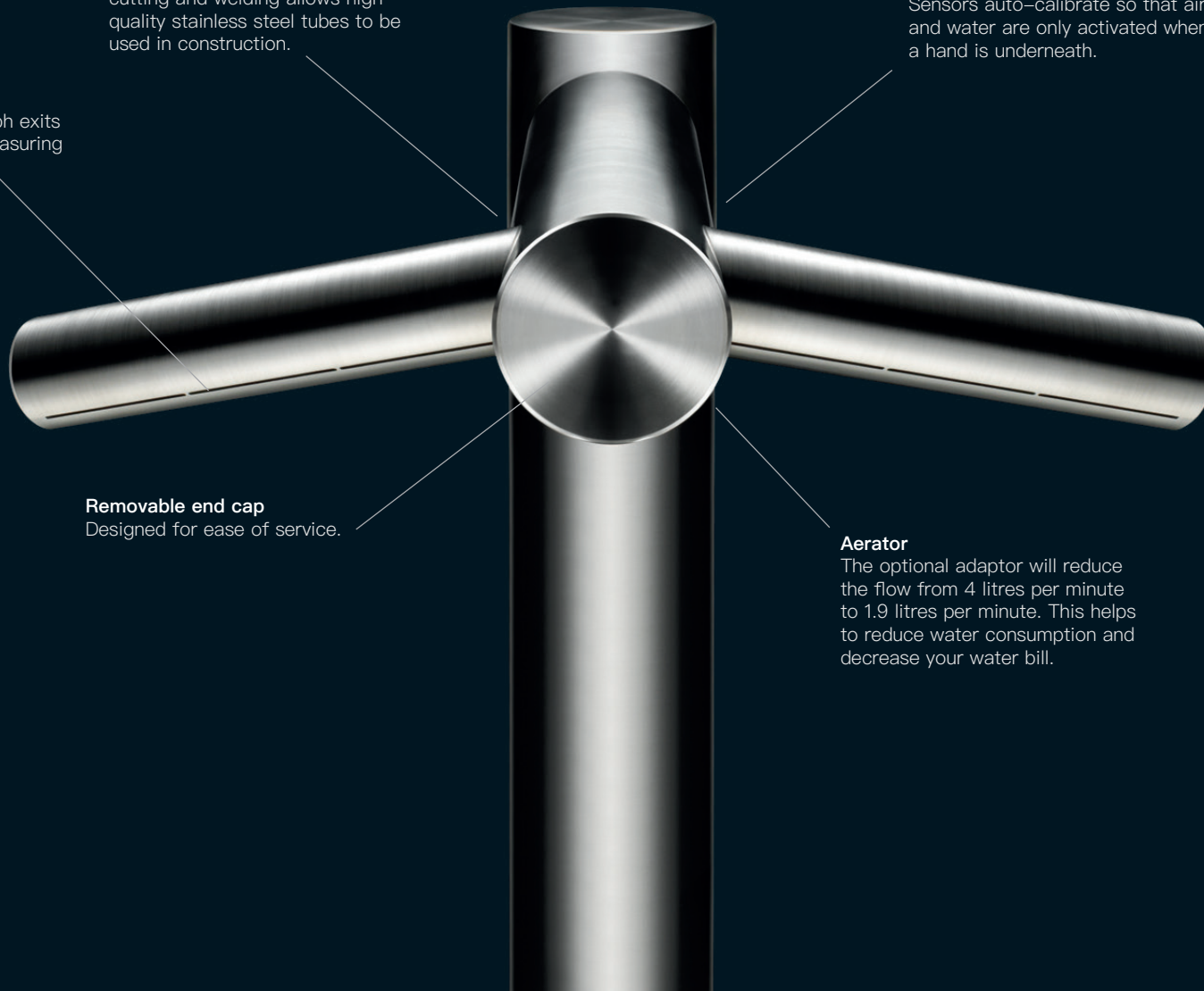
Sensors auto-calibrate so that air and water are only activated when a hand is underneath.

### **Removable end cap**

Designed for ease of service.

### **Aerator**

The optional adaptor will reduce the flow from 4 litres per minute to 1.9 litres per minute. This helps to reduce water consumption and decrease your water bill.



**Dyson digital motor V4**

Spins at 90,000 rpm, generating enough power to draw up to 35 litres of air per second through a HEPA filter.

**Easy to service motor unit**

Designed for safe and quick replacement without the need for an electrician.

**Mains water inlet**

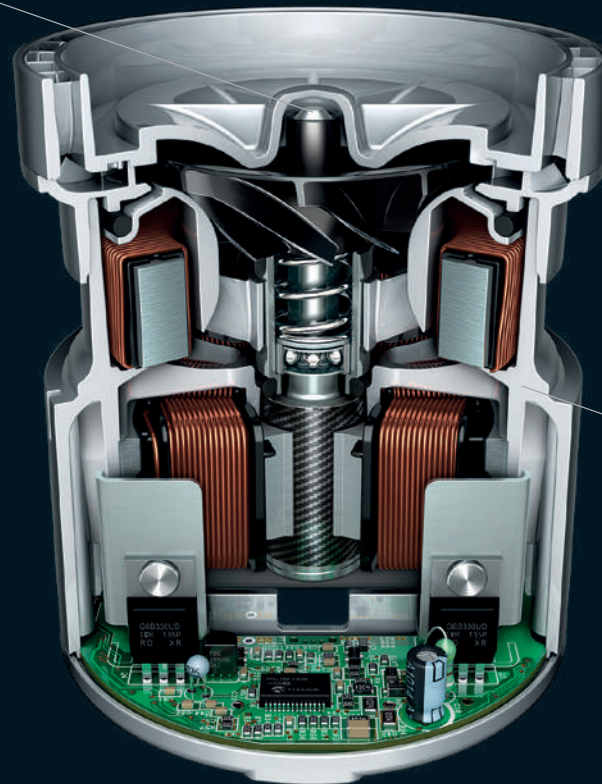
Electronic, sensor-controlled water valve activates when a hand is detected. This starts the water flow.

**Spring-mounted motor**

Motor is mounted using springs to reduce sound and vibration.

**HEPA filter**

HEPA filter captures 99.9% of bacteria and viruses from the washroom air.



## Only the Dyson Airblade Tap hand dryer has all of these benefits

No water on the floor.

Most hygienic.

Better for the environment.

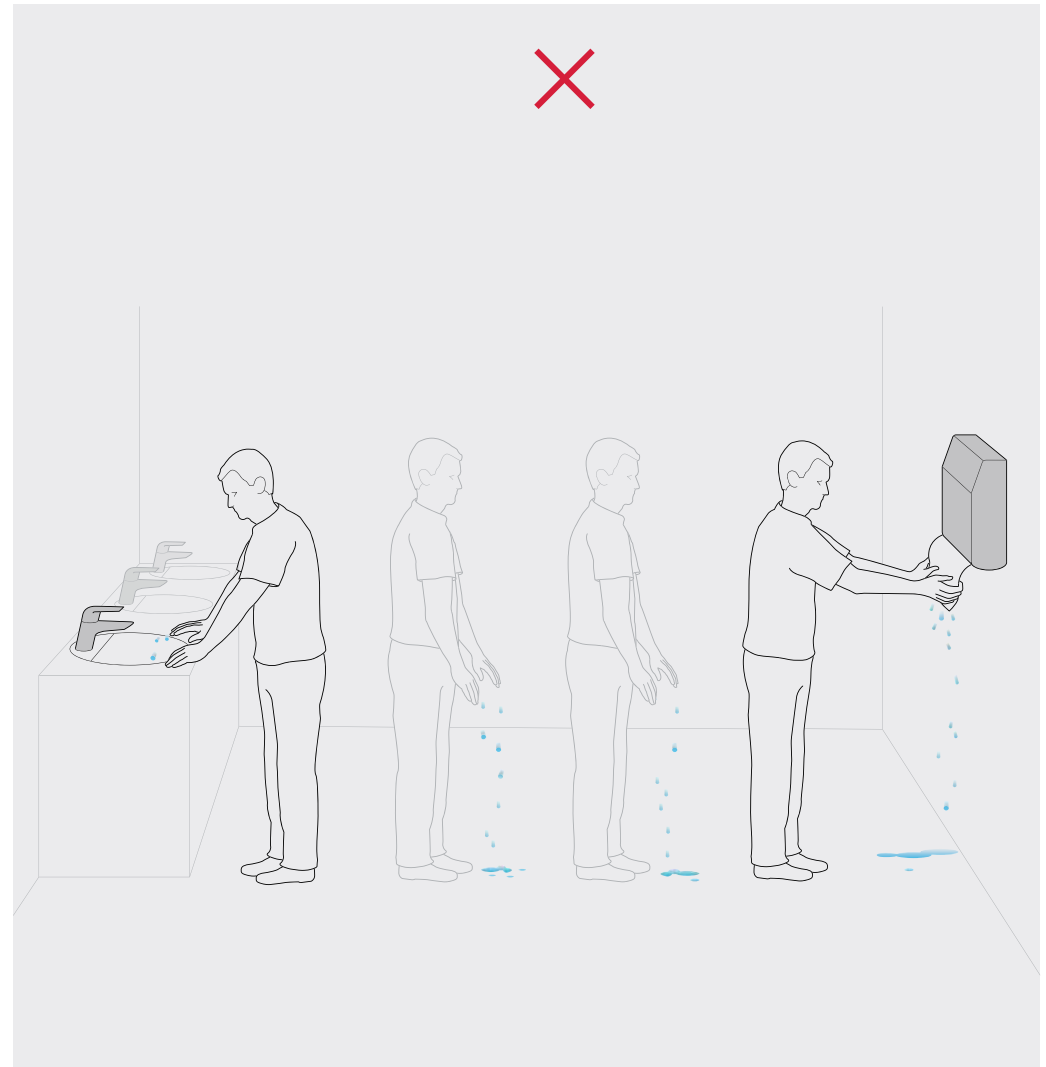
5 year guarantee.





## Water on the floor

When using conventional drying methods, you move to a separate area to dry hands. Water is often dripped on the floor, which can create problems in the washroom. Floor tiles can become slippery, and washroom floors need cleaning more regularly.



## Water in the basin

With the Dyson Airblade Tap hand dryer, water isn't dripped on the floor because you don't need to leave the basin with wet hands.



## The reasons why Airblade™ technology is fast and the most hygienic

Dyson digital motor V4.

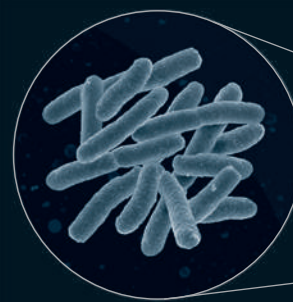
HEPA filter.

12 second dry time.

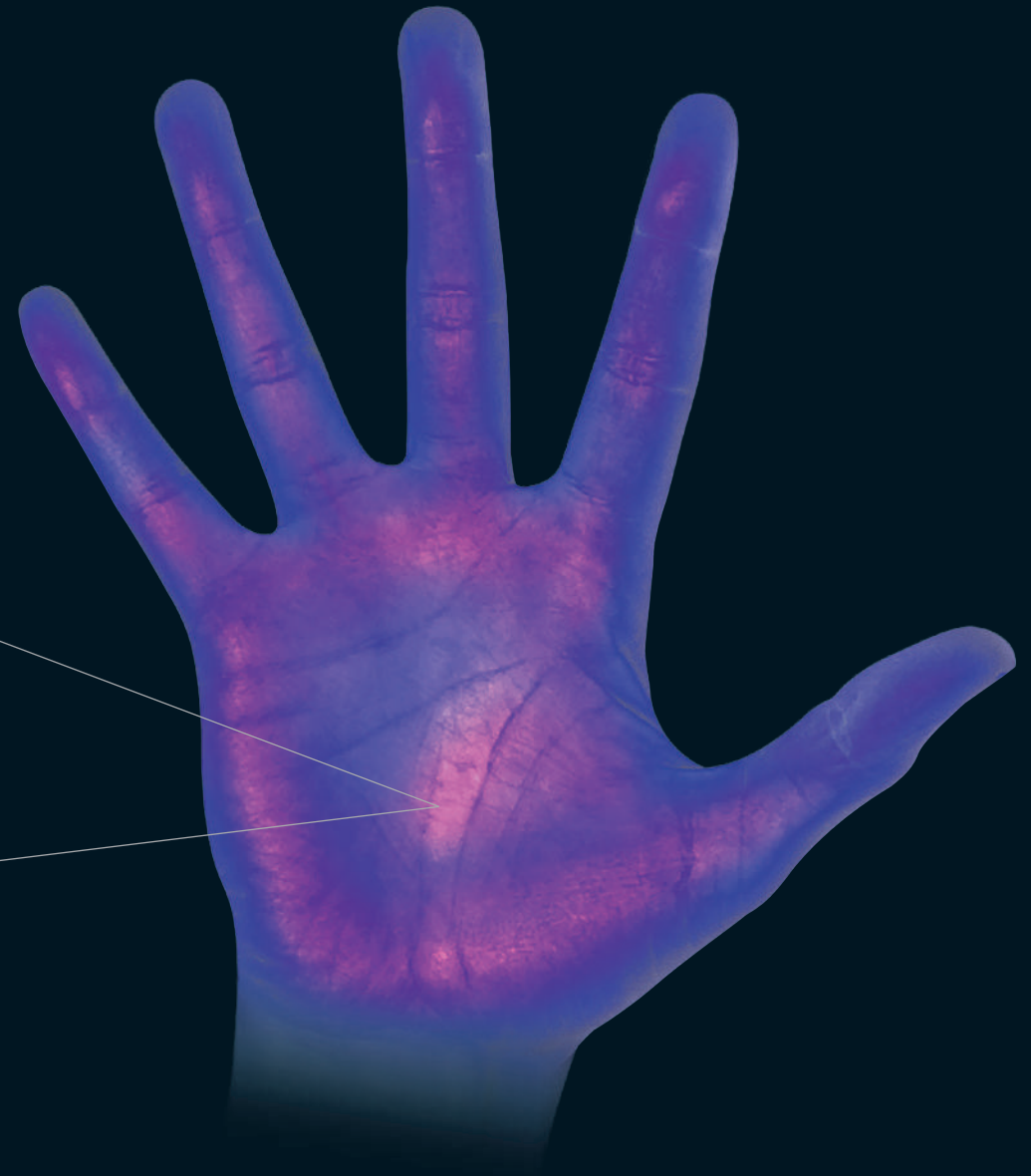
No drain tank.

No heating element.

Touch-free operation.



Damp hands can spread up to 1,000 times more bacteria than dry hands.



## 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. It's why it's important that hands are dried properly.

## The most hygienic hand dryer

The Dyson Airblade Tap hand dryer uses a HEPA filter. 99.9% of bacteria and viruses in the washroom are captured. So hands are dried in 12 seconds using cleaner air, not dirty air.



## The environmental impact of paper towels

From cutting down trees, through chemical processes to disposal — using paper towels has a significant impact on the environment.

### Felling trees

Trees are a major source of pulp for virgin paper towel production.

### Transportation

Once trees are felled they need to be transported from the forest to the mill.

### Mix with water

Lots of water and energy are needed to make paper.

### Pulping and bleaching

Chemicals are also used in the bleaching process.

### Maintenance

Paper towel dispensers need constant restocking.

### Disposal

Most used paper towels cannot be recycled. Used paper towels, packaging and bin liners end up in landfill or an incinerator.



## High impact on the environment

The Dyson Airblade Tap hand dryer produces 74% less CO<sub>2</sub> than some other hand dryers and 71% less than paper towels.\*



**13.9g**  
CO<sub>2</sub> per day\*



**15.6g**  
CO<sub>2</sub> per day\*



**8.0g**  
CO<sub>2</sub> per day\*



**4.0g**  
CO<sub>2</sub> per day\*



## Low impact on the environment

The Dyson Airblade Tap hand dryer has a lower environmental impact across measures including carbon emissions and energy consumption.\*

\*In collaboration with Carbon Trust, Dyson has produced a method to measure the environmental impact of electrical appliances and paper towels. The carbon calculations were produced using GaBi software provided by PE International, based on product use over 5 years and using the US as a representative country of use. Dry times for products were evaluated using DTM 769.

## **5 year guarantee**

### **Unrivalled service**

The 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.

#### **Guarantee**

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

#### **Aftersales support**

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 Tap hand dryer**  
**5 year parts and labour**



## Dyson Airblade Tap hand dryer: Accreditation

4

Dyson Airblade Tap hand dryer: Accreditation

Carbon Trust

---

HACCP International

---

NSF

---

## The only hand dryer certified by the Carbon Trust

Everything we make or use has a carbon footprint. It represents the total amount of carbon dioxide and other greenhouse gases generated during its life. Working with the Carbon Trust, Dyson has measured the carbon footprint of the Dyson Airblade™ hand dryer range.

### Every single component

All components inside the Dyson Airblade™ hand dryer were assessed. Materials and manufacture contribute 8% of total emissions.

### Waterways vs. highways

Constant paper towel restocking relies on road transport. The Dyson Airblade™ hand dryers use energy-efficient ships — representing less than 1% of total emissions.

### Less energy = less carbon

Airblade™ technology has fast dry times and no energy-hungry heating elements. So it uses up to 80% less energy than warm air dryers.

### End of life

With a 5 year guarantee, the Dyson Airblade™ hand dryer is built to last. Even so, many components are designed to be recyclable with negligible environmental impact.



## **Certified by HACCP international & safe for the food sector**

The Dyson Airblade Tap hand dryer has been certified for use in food preparation environments by HACCP International. The Dyson Airblade Tap hand dryer and the Dyson Airblade dB hand dryer are the only hand dryers globally certified for use in the food and beverage industry.



## **NSF Certified**

### **The only hand dryer certified hygienic**

Dyson asked independent public health specialists NSF to define the criteria for a hygienic hand dryer. The result is NSF Protocol P335 — and Dyson Airblade™ hand dryers are the only hand dryers that meet every part of it.

#### **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 residual 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



## The Washroom Solution: Case Studies

5

## The Washroom Solution: Case Studies

TaiKoo Hui Washroom

---

The Shard

---

## The heart of one of the most incredible washrooms created

This washroom is expressed as a bright grotto, a contemporary abstraction of nature. The commercial building surrounding this area receives thousands of visitors each day, which meant that dealing with high traffic had to be a priority, without compromising the design aesthetic. Dyson Airblade Tap hand dryers were met with sweeping curved sheets of seamless Corian®. The unique curves of the design result in a solution that is both beautiful and hygienic.

Location: Guangzhou, China

Architect / Designer: Ida & Billy Architects Ltd.

Client: TaiKoo Hui properties



## Cutting-edge design with advanced technology solutions

For this iconic landmark building in Central London, it was essential for the washrooms to reflect the innovative nature of The Shard, whilst leaving a lasting impression on the visitors. This was achieved with The Washroom Solution; Corian® basins provide the highly durable sleek style that works impeccably with the impressive Dyson Airblade Tap hand dryers.

Location: The Shard, London

Architects: Pringle, Richards Sharratt

Corian® Fabricator: Washroom Washroom Ltd.



# Avante® Basins in Corian®: Technical Overview

6

## Avante® Basins in Corian®: Technical Overview

### Technical Details

---

## Create an incredible washroom solution for your next project

Avante® Basins in Corian® and Dyson Airblade Tap hand dryers are the solution whatever the washroom; from high-footfall washrooms to high impact designs, from hygienic healthcare solutions to safe public washrooms and from reduced-space washrooms to cavernous underground grottos. Whatever the washroom, there is now a washroom solution available.

## Belfast

(CAVTM-BELFAST-GW)

Top Mount Basin

### External dimensions

600 x 445mm

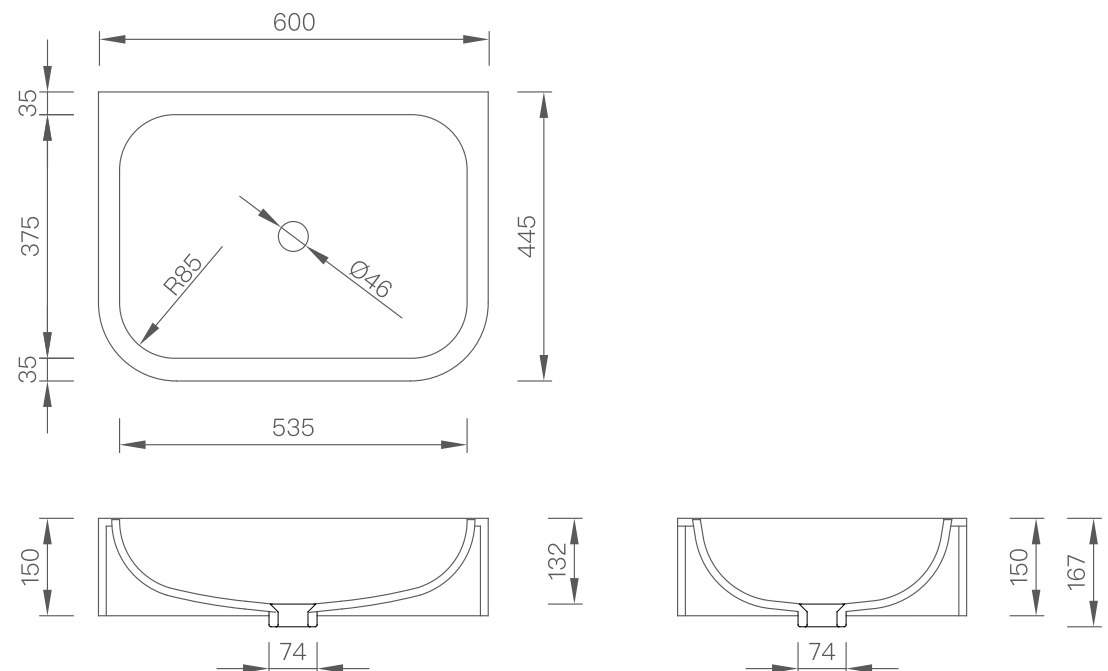
### Internal size

535 x 375 x 132mm

### Dyson Airblade Tap hand dryer compatibility

AB10 AB11

No overflow



## Cardiff

(CAVTM-CARDIFF-GW)

### External dimensions

600 x 445mm

### Internal size

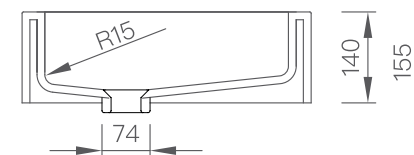
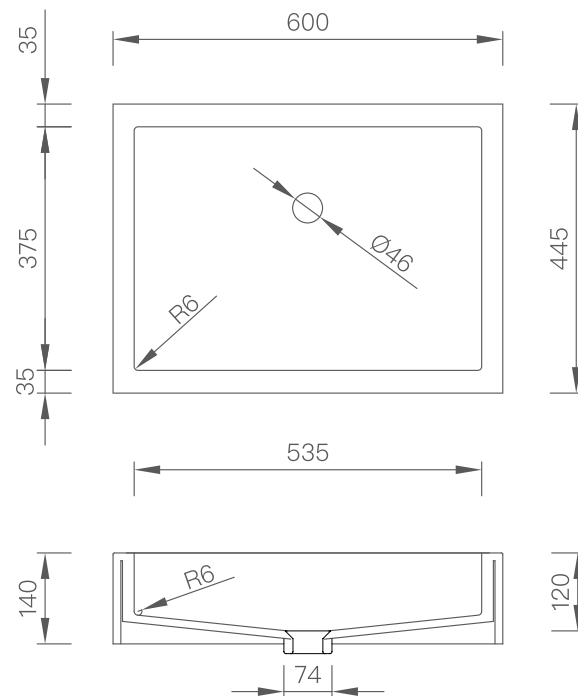
535 x 375 x 120mm

### Dyson Airblade Tap hand dryer compatibility

AB10 AB11

No overflow

Top Mount Basin



## Edinburgh

(CAVTM-EDINBURGH-GW)

Top Mount Basin

### External dimensions

448 x 448mm

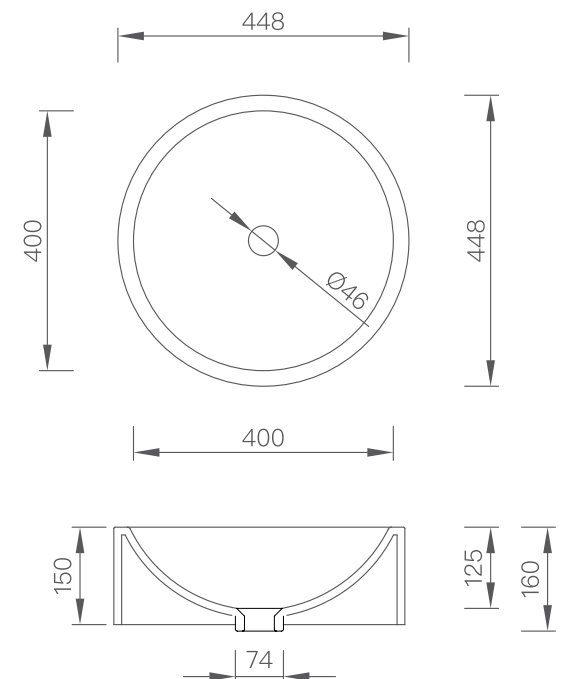
### Internal size

400 x 400 x 125mm

### Dyson Airblade Tap hand dryer compatibility

AB10 AB11

No overflow



## Swansea

(CAVTM-SWANSEA-GW)

Top Mount Basin

### External dimensions

600 x 350mm

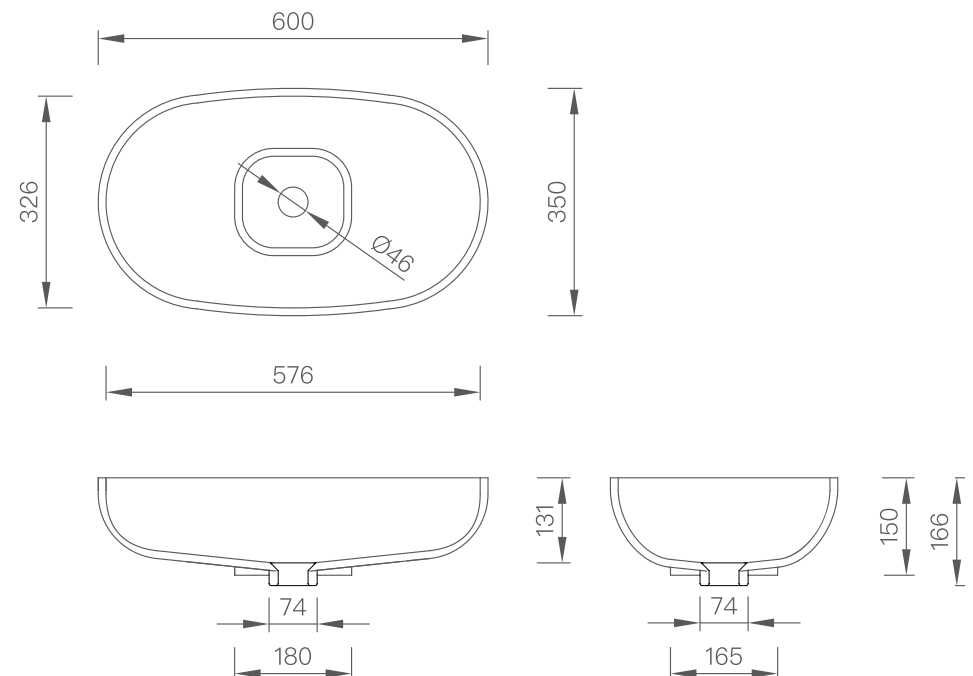
### Internal size

576 x 326 x 131mm

### Dyson Airblade Tap hand dryer compatibility

AB10 AB11

No overflow



## Bristol

(CAVUM-BRISTOL-GW)

### External dimensions

559 x 399mm

### Internal size

535 x 375 x 130mm

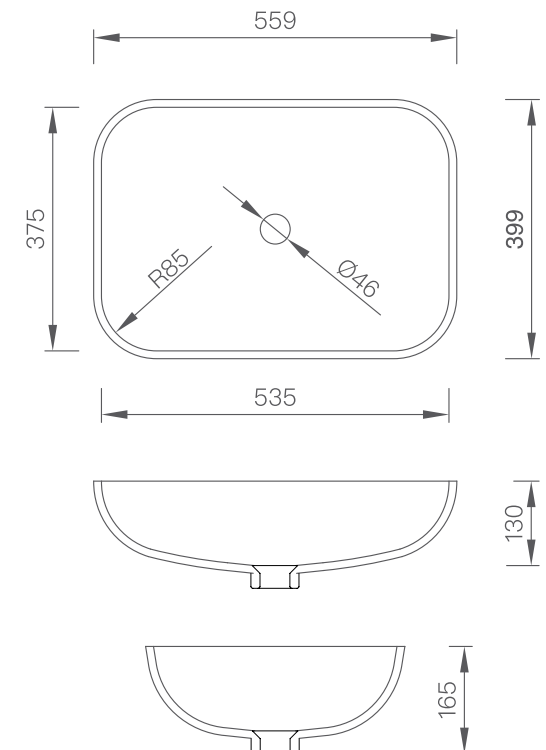
### Dyson Airblade Tap hand dryer compatibility

AB09 AB11

No overflow



## Undermount Basin



## Durham

(CAVUM-DURHAM-GW)

### External dimensions

399 x 399mm

### Internal size

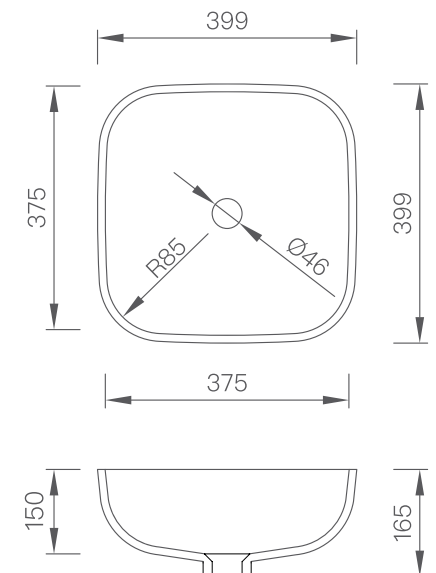
375 x 375 x 150mm

### Dyson Airblade Tap hand dryer compatibility

AB09 AB11

No overflow

Undermount Basin



## Exeter (CAVUM-EXETER-GW)

Undermount Basin

### External dimensions

600 x 350mm

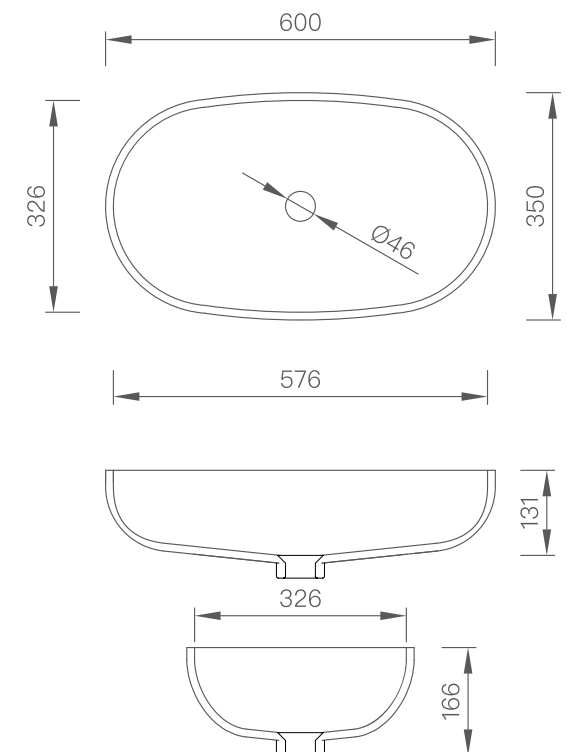
### Internal size

576 x 326 x 131mm

### Dyson Airblade Tap hand dryer compatibility

AB09 AB11

No overflow



## Warwick

(CAVUM-WARWICK-GW)

### External dimensions

659 x 399mm

### Internal size

635 x 375 x 130mm

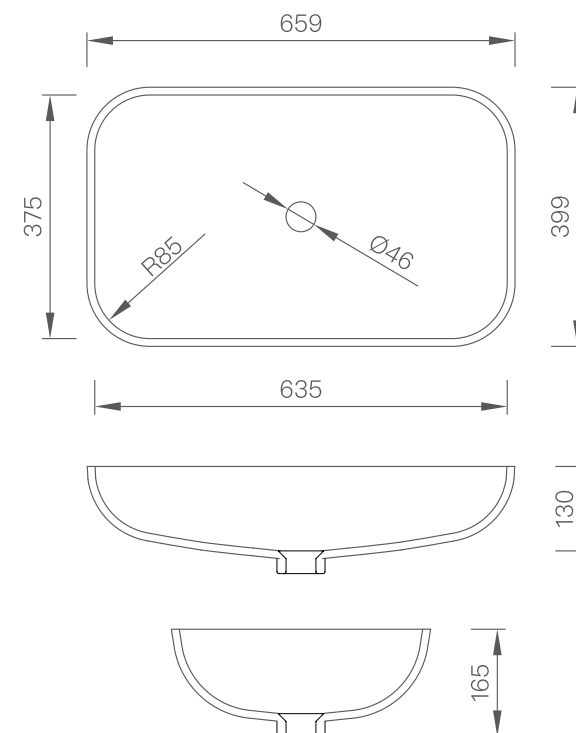
### Dyson Airblade Tap hand dryer compatibility

AB09 AB11

No overflow



## Undermount Basin



## Windsor

(CAVUM-WINDSOR-GW)

Undermount Basin

### External dimensions

571 x 399mm

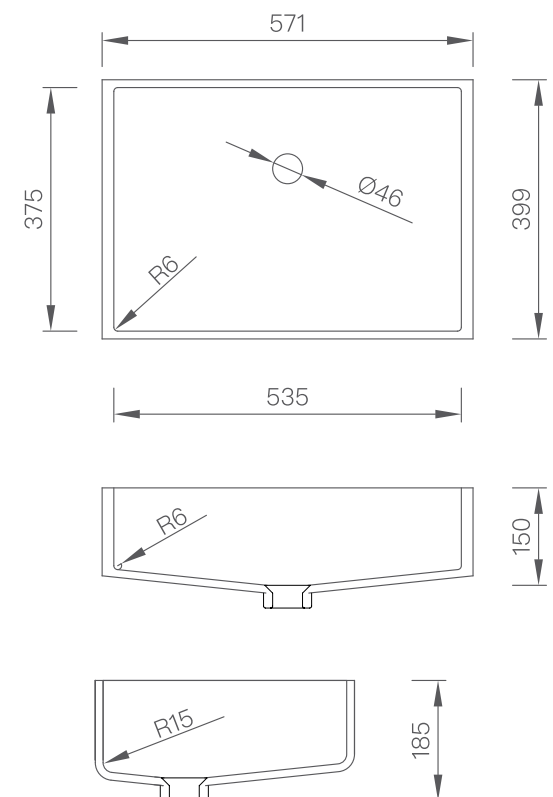
### Internal size

535 x 375 x 150mm

### Dyson Airblade Tap hand dryer compatibility

AB09 AB11

No overflow



## York (CAVUM-YORK-GW)

### External dimensions

671 x 399mm

### Internal size

635 x 375 x 150mm

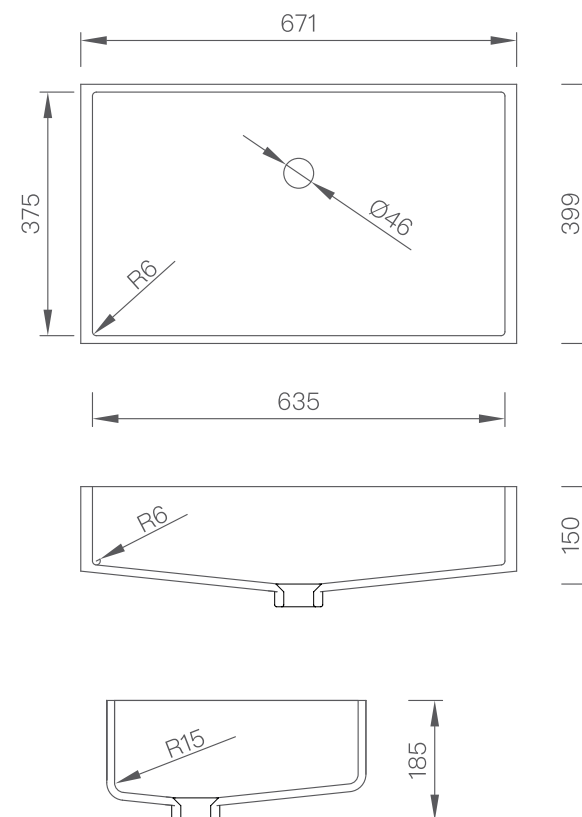
### Dyson Airblade Tap hand dryer compatibility

AB09 AB11

No overflow



## Undermount Basin



## Cambridge

Wash Trough

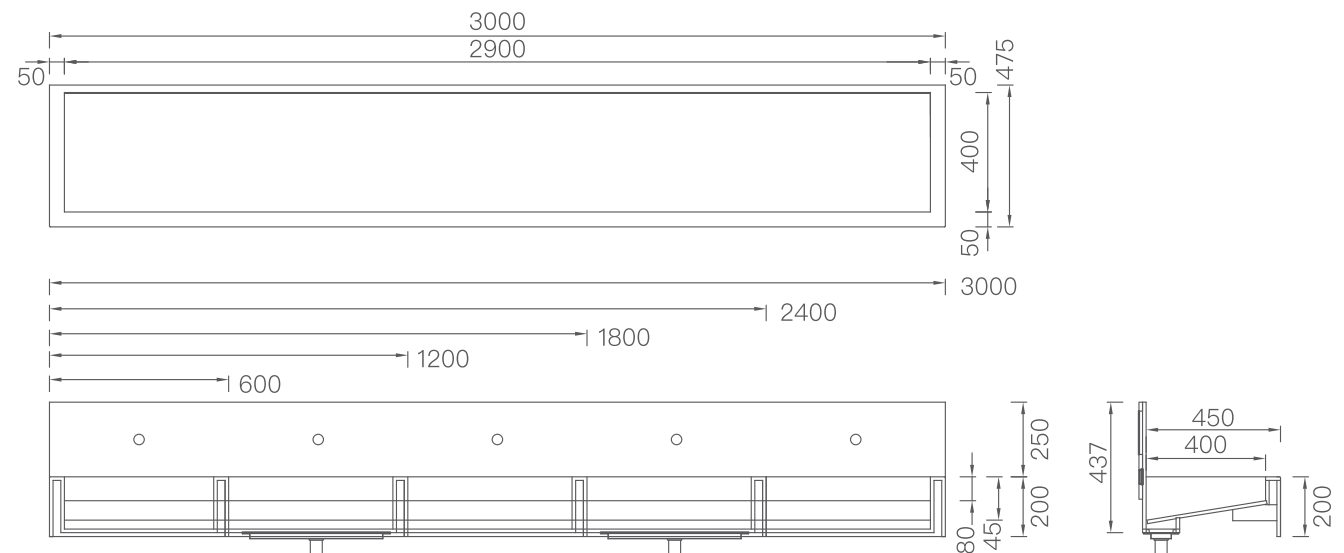
### External dimensions

1 – person	(CAWST-CMG-GW-1)	600 x 475mm	(39kg)
2 – person	(CAWST-CMG-GW-2)	1200 x 475mm	(60kg)
3 – person	(CAWST-CMG-GW-3)	1800 x 475mm	(82kg)
4 – person	(CAWST-CMG-GW-4)	2400 x 475mm	(103kg)
5 – person	(CAWST-CMG-GW-5)	3000 x 475mm	(125kg)

Brackets and fittings for wall-hung installation all included

### Dyson Airblade Tap hand dryer compatibility

AB11



## London

## Wash Trough

### External dimensions

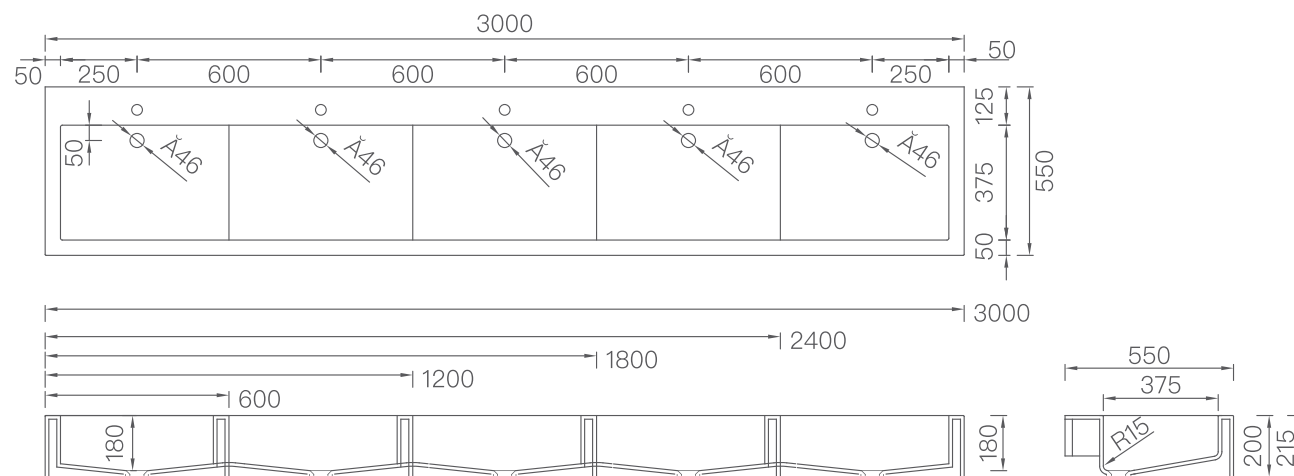
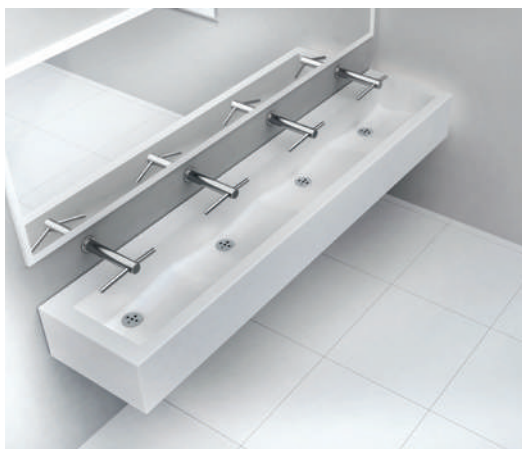
1 – person	(CAVWST-LDN-GW-1)	600 x 550mm	(31kg)
2 – person	(CAVWST-LDN-GW-2)	1200 x 550mm	(47kg)
3 – person	(CAVWST-LDN-GW-3)	1800 x 550mm	(63kg)
4 – person	(CAVWST-LDN-GW-4)	2400 x 550mm	(79kg)
5 – person	(CAVWST-LDN-GW-5)	3000 x 550mm	(94kg)

Wastes, brackets and fittings for wall-hung installation all included

### Dyson Airblade Tap hand dryer compatibility

AB09 – Tap hole to be drilled by installer on site  
according to the installation guidelines

AB11



## Oxford

Wash Trough

### External dimensions

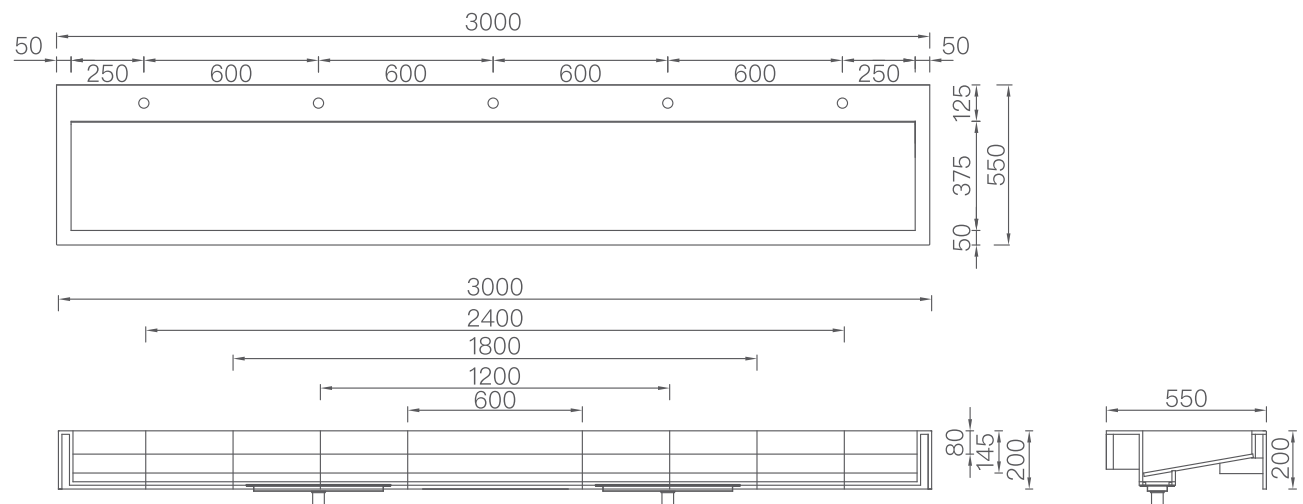
1 – person	(CAVWST-OXF-GW-1)	600 x 550mm	(34kg)
2 – person	(CAVWST-OXF-GW-2)	1200 x 550mm	(53kg)
3 – person	(CAVWST-OXF-GW-3)	1800 x 550mm	(72kg)
4 – person	(CAVWST-OXF-GW-4)	2400 x 550mm	(91kg)
5 – person	(CAVWST-OXF-GW-5)	3000 x 550mm	(110kg)

Brackets and fittings for wall-hung installation all included

### Dyson Airblade Tap hand dryer compatibility

AB09 – Tap hole to be drilled by installer on site  
according to the installation guidelines

AB11



## Healthcare 331 (CAVHC-331-GW)

### External dimensions

500 x 425mm

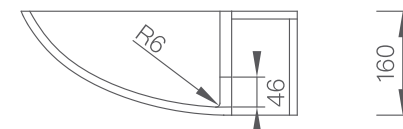
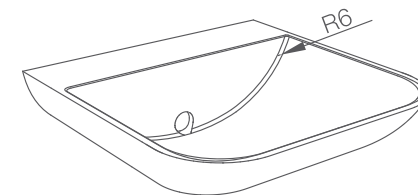
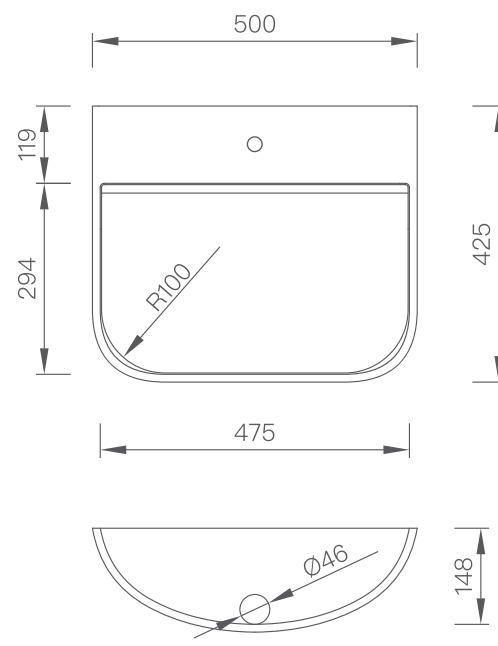
### Internal size

475 x 294 x 148mm

### Dyson Airblade Tap hand dryer compatibility

AB09

Healthcare Basin



## Healthcare 332 (CAVHC-332-GW)

### External dimensions

500 x 400mm

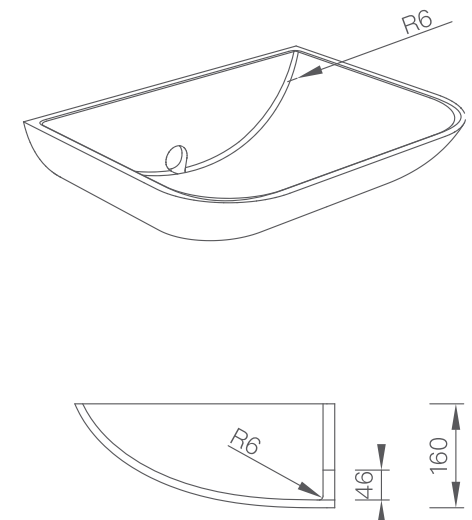
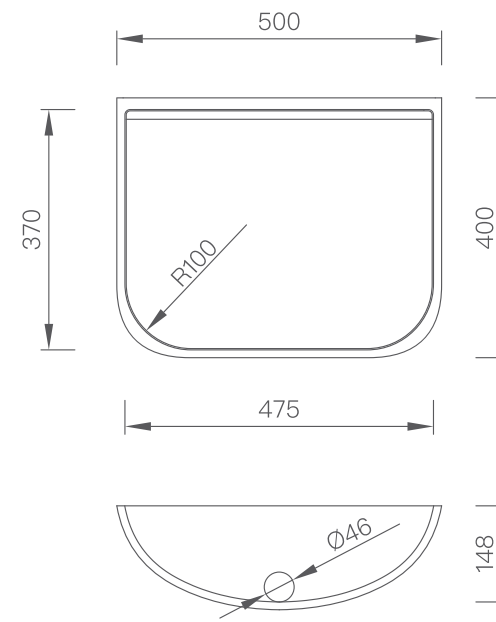
### Internal size

475 x 370 x 148mm

### Dyson Airblade Tap hand dryer compatibility

AB11

Fittings for wall-hung installation included



Healthcare Basin

## Healthcare 333 (CAVHC-333-GW)

### External dimensions

600 x 480mm

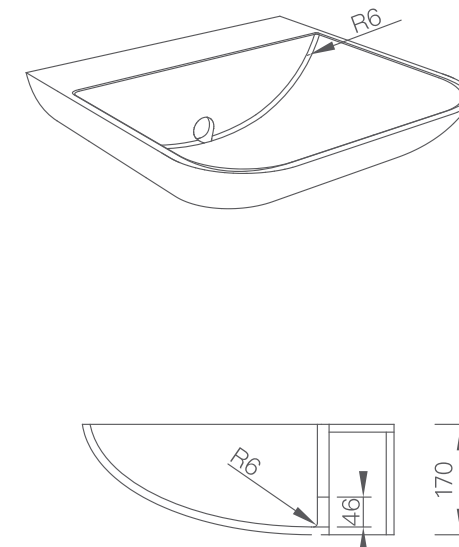
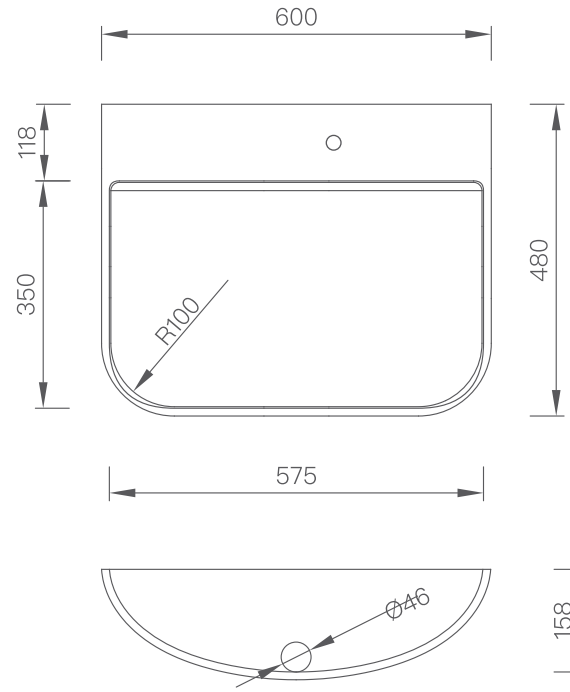
### Internal size

575 x 350 x 158mm

### Dyson Airblade Tap hand dryer compatibility

AB09

Healthcare Basin



## Healthcare 334 (CAVHC-334-GW)

Healthcare Basin

### External dimensions

600 x 480mm

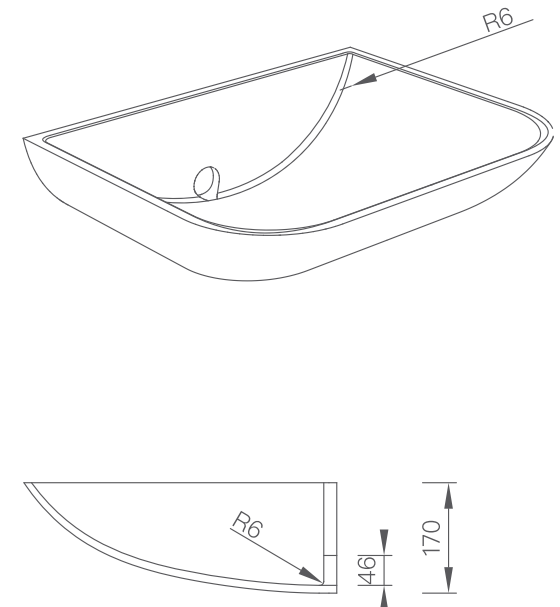
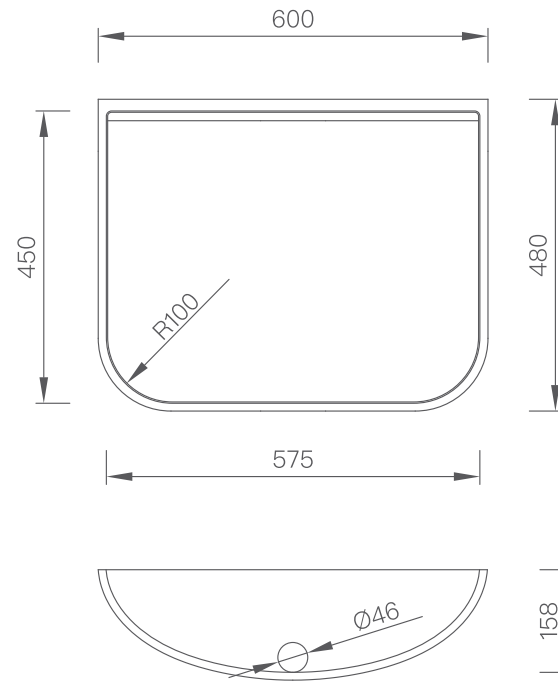
### Internal size

575 x 450 x 158mm

### Dyson Airblade Tap hand dryer compatibility

AB11

Fittings for wall-hung installation included



# Dyson Airblade Tap hand dryer: Technical Overview

7

## Dyson Airblade Tap hand dryer: Technical Overview

AB09 Short

---

AB10 Long

---

AB11 Wall

---

## AB09 Short

**AB**  
**09** Short

### Tap dimensions

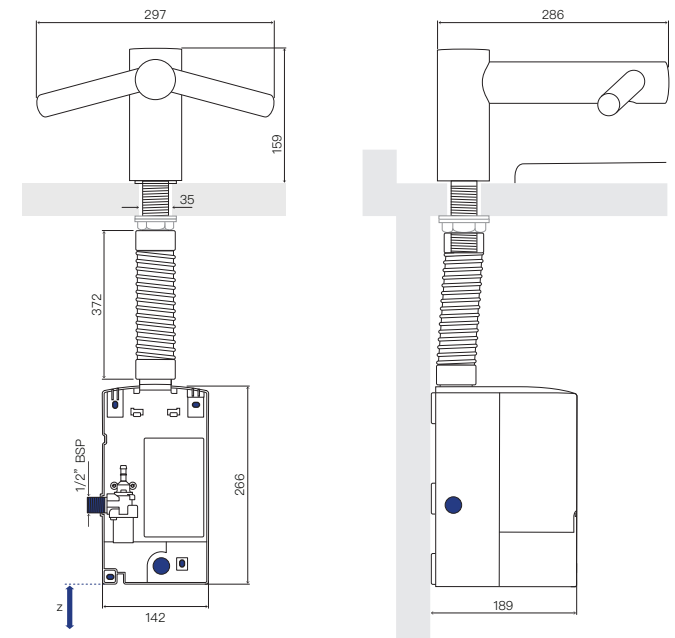
Height 159 mm Width 297 mm  
Depth 286 mm

### Motor bucket dimensions

Height 266 mm Width 142 mm  
Depth 189 mm

### Minimum clearance

Z 100 mm clearance from floor



## AB10 Long



### Tap dimensions

Height 309 mm Width 297 mm  
Depth 286 mm

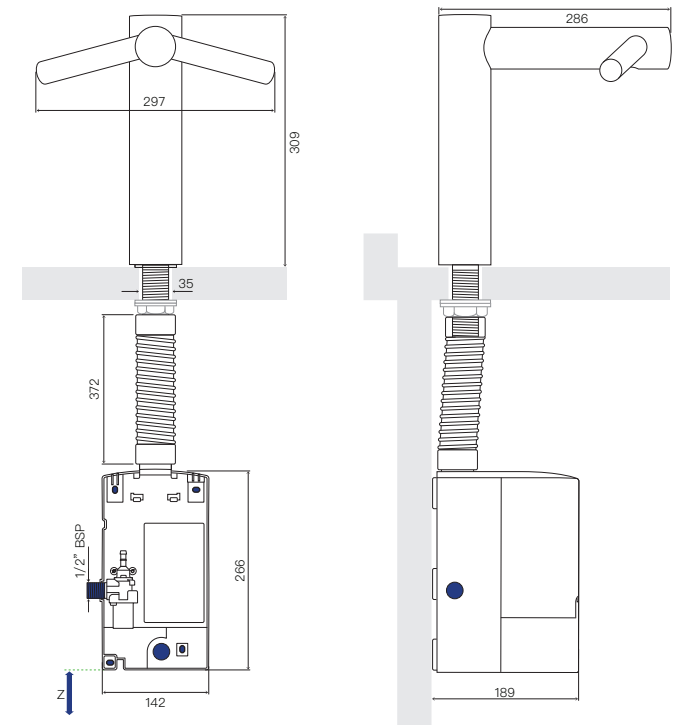
### Motor bucket dimensions

Height 266 mm Width 142 mm  
Depth 189 mm

### Minimum clearance

Z 100 mm clearance from floor

Motor bucket must be installed  
below the basin, upright or on its side.



## AB11 Wall



### Tap dimensions

Length 312 mm Width 297 mm

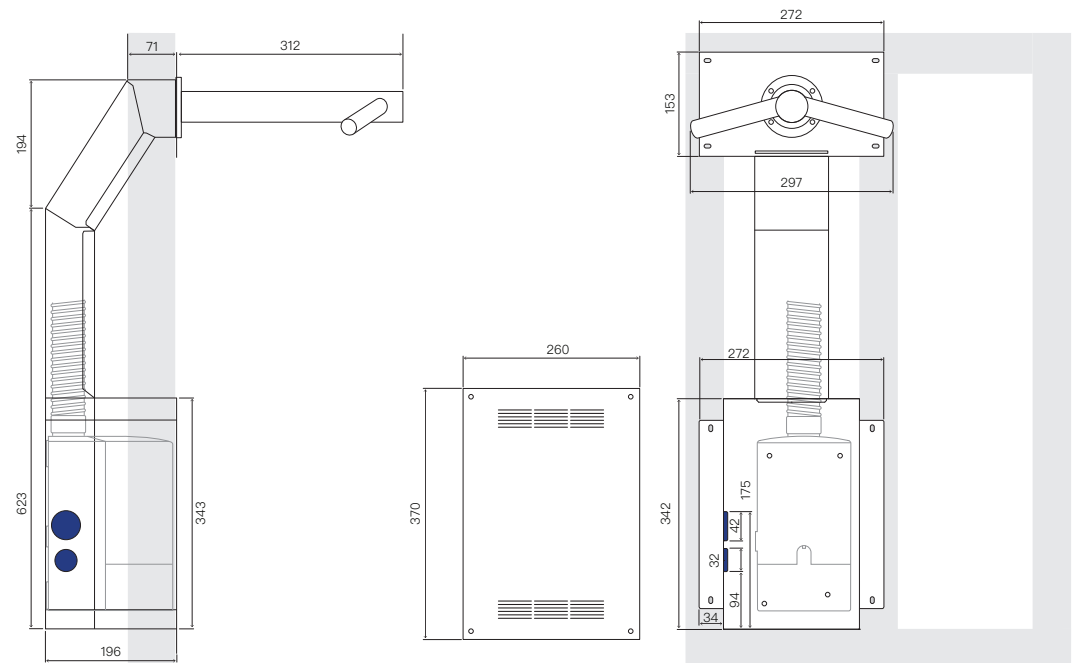
### Motor bucket dimensions

Height 266 mm Width 142 mm  
Depth 189 mm

### Minimum clearance

100 mm clearance from floor

The AB11 Wall Tap is designed so the motor unit is located behind the stud wall. It is supplied with a metal enclosure which needs to be assembled into the stud work behind the wall.





**thewashroomsolution.com**

**Avante®** Basins in Corian®

**dyson** airblade tap

Avante® Basins in Corian® and Dyson Airblade Tap hand dryers are distributed by CDUK

CD (UK) Ltd, Wakefield House, Thistle Way, Gildersome Spur, Leeds, LS27 7JZ

www.cdukLtd.co.uk +44 (0)113 201 2240 info@cdukLtd.co.uk Registered in England No. 2905619

