Mobility access within washroom facilities

Because the Dyson Airblade Wash+Dry hand dryer is installed as a sensor operated dual use sink and hand drying unit within the restroom, it must maintain all lavatory sink knee and toe clearance requirements. The unit must be located on an accessible route and may not protrude into any required accessible clear area of other items, such as a door swing, required toilet clear area, urinal or fixed waste receptacle. The unit must be mounted within the reach range and space requirements. An accessible restroom is comprised of an accessible entrance, accessible turning space, and at least one type of accessible dispenser and fixture of each type. The Airblade WD04 Short Wash+Dry hand dryer would be considered a lavatory sink mounted unit, which should meet those requirements.

Clear floor ground space:

Often accessibility code concepts are concerned with people in a seated position who use wheelchairs, which naturally limits the height and depth of their reach range. Because of the design of the Airblade Wash+Dry hand dryer, the front approach is the only way the unit can be properly used, therefore the side approach standards should not apply. A clear area in front of the unit should be a minimum of 30” wide by 48” of length. This area can overlap a circulation path but should not overlap other required accessible areas, for example, a lavatory sink in restrooms with access to more than one user at one time. Single use restrooms can overlap accessible areas due to the fact that they are used by only one person at a time.

WD04 Short Wash+Dry unit:

WD04 Short Wash+Dry unit operable area would be approximately 37” above the finished floor, which would be considered to be within the proper accessible usability range. Like the Airblade V unit, with the understanding that hand drying occurs approximately 2 inches below the air edge blower, so the 37” usable range would be compliant. The current Dyson Technical Specification recommends 4 inches from the floor for air intake, which would put the motor bucket within the non-compliant range. It is recommended to maintain the 9” toe clearance for all installations. The power cord should be kept out of the toe clearance area.

## TECHNICAL SPECIFICATION

### Electrical

<table>
<thead>
<tr>
<th>Specification</th>
<th>Low Voltage</th>
<th>High Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>100–120V</td>
<td>200–240V</td>
</tr>
<tr>
<td>Frequency</td>
<td>100–115V at 50/60Hz, &gt;115–120V at 60Hz, 200–240V at 50/60Hz</td>
<td></td>
</tr>
<tr>
<td>Motor specification</td>
<td>1000W, digital V4 brushless motor</td>
<td></td>
</tr>
<tr>
<td>Motor speed</td>
<td>81,000rpm</td>
<td></td>
</tr>
<tr>
<td>Amp</td>
<td>Dedicated hand dryer circuit required. Reference NEC/local electrical code for loading. 9.09A at 110V; 4.54A at 220V</td>
<td></td>
</tr>
</tbody>
</table>

### 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

- Sealed HEPA filter (glass fiber and fleece prelayer)
- Captures 99.97% of particles as small as 0.3 microns

### Operation

- Touch-free infra-red activation
- Hand dry time measurement: 14 seconds*
- Sound power level: Low voltage = 80dB(A) for WD04-06, High voltage = 80dB(A) for WD06, 81dB(A) for WD04-05
- Sound pressure level @ 2m: 66dB(A)*
- Operation lock-out period: 30 seconds
- Airspeed at apertures: Low voltage = 331mph (533km/h), High voltage = 341mph (549km/h)
- Maximum altitude: 11,482 feet / 3,500 meters
- Operation airflow: Up to 5.5 gallons/sec (21 liters/sec)
- Operating temperature range: 32°–104°F / 0°–40°C

### Water operation

- Water flow rate: 0.5 gallons/min (1.9 liters/min) low flow fitted aerator, 1.0 gallons/min (3.8 liters/min) with aerator supplied with product, 0.35 gallons/min multi spray laminar aerator available as a service part
- Water pressure control: Thermostatic mixer recommended (not supplied)
- Tap power supply: Mains supply
- Equipped with automatic flush – every 24 hours for 60 seconds, after last use.

### Sink specification

The Dyson Airblade Wash+Dry hand dryer is compatible with most sink types. Ensure plugs are not installed in the sinks and avoid inserts with embedded plugs (e.g. ones that swivel or elevate). If you would like assistance choosing a compatible sink or soap dispenser, email design@dyson.com or call 888-397-6622.

Using a specially designed test method, Dyson engineers evaluated the user experience of a wide range of sink types when used with the Dyson Airblade Wash+Dry hand dryer. For further details on our recommended sinks, please see the pre-installation guide on our website: dyson.com/docs

We recommend avoiding sinks with the following geometric characteristics:
- Flat bases immediately surrounding the drain hole, nominally within a 2 ½” (60mm) radius.
- Sloping back and front wall transitions in relation to the base of the sink.

See our pre-installation guide for further details: dyson.com/docs

### Standard warranty

5 year parts, 5 year limited labor

### Product range

<table>
<thead>
<tr>
<th>Model</th>
<th>Part number/SKU</th>
<th>Voltage</th>
<th>Part number/SKU</th>
<th>Voltage</th>
<th>Part number/SKU</th>
<th>Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td>WD04 Short</td>
<td>247659-01</td>
<td>Low</td>
<td>247708-01</td>
<td>High</td>
<td>247915-01</td>
<td>High</td>
</tr>
<tr>
<td>WD05 Tall</td>
<td>247663-01</td>
<td>Low</td>
<td>247710-01</td>
<td>High</td>
<td>247910-01</td>
<td>High</td>
</tr>
<tr>
<td>WD06 Wall</td>
<td>247669-01</td>
<td>Low</td>
<td>247715-01</td>
<td>High</td>
<td>247911-01</td>
<td>High</td>
</tr>
</tbody>
</table>

### Accreditations

Carbon Trust, HACCP International

WD04 Short and WD06 Wall are ADA compliant

Contributes to LEED certification

Contributes towards satisfying Feature W08 under the WELL Building Standard™

### Logistico

- Unit barcode: Low voltage: WD04: 885609014104, WD05: 885609014111, WD06: 885609014128; High voltage: WD04: 885609014074, WD05: 885609014081, WD06: 885609014098
- Packaging dimensions: WD04 = H 11 ½’’ (303mm) x W 11 ½’’ (284mm) x D 11 ½’’ (291mm); WD05 = H 11 ½’’ (344mm) x W 10 ⅜’’ (275mm) x D 11 ½’’ (288mm); WD06 = H 24’’ (610mm) x W 14 ⅜’’ (375mm) x D 11 ½’’ (302mm)
- Pallet quantity: 36 x WD04, 24 x WD05, 15 x WD06

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

†Sound pressure measured at 6.56 feet (2 meters) distance, in a semi-anechoic chamber.

For more information, please contact Dyson:
1-888-397-6622 | design@dyson.com | www.dyson.com
TECHNICAL SPECIFICATION

Front Elevation

- Fixing locations (4)
- Water entry point

Side Elevation

- Fixing locations (4)
- Rear cable entry point

Tap dimensions

WD04: Height 6 1/2" (159mm), Width 11 15/16" (303mm), Depth 11 1/4" (286mm)

Motor bucket dimensions

WD04: Height 10 7/16" (266mm), Width 5 9/16" (142mm), Depth 7 7/16" (189mm)

Minimum clearance

Z: 4" (100mm) clearance from floor. ADA requires 9" (228mm) toe clearance.

All dimensions shown in inches (+/- 3/16") and in millimeters (+/- 5mm)
**TECHNICAL SPECIFICATION**

**Tap dimensions**

WD05: Height 12 3/8” (309mm), Width 11 15/16” (303mm), Depth 11 1/4” (286mm)

**Motor bucket dimensions**

WD05: Height 10 7/16” (266mm), Width 5 9/16” (142mm), Depth 7 7/16” (189mm)

**Minimum clearance**

Z. 4” (100mm) clearance from floor. ADA requires 9” (228mm) toe clearance.
**Technical Specification**

**Front Elevation**

**Side Elevation**

**Fixing locations (4)**

- Diameter hole: 3/16" (5mm)
- Water entry point
- Cable entry point

**Distance from the aerator to the end of the tap**

**Tap dimensions**

**WD06:** Length 12 1/4" (312mm), Width 11 15/16" (303mm)

**Motor bucket dimensions**

**WD06:** Height 10 1/4" (260mm), Width 5 9/16" (142mm), Depth 7 7/16" (189mm)

**Minimum clearance**

Suggested installation height 37 3/4" (955mm) from finished floor to center of tap, depending on height of sink. Check installation guide for further details.
WD06 Wall installation

The Dyson Airblade Wash+Dry hand dryer is designed so that the motor unit is located behind the stud wall within a metal enclosure which is supplied with the Dyson Airblade Wash+Dry hand dryer (Fig.1). The vertical wall studs must be constructed so as to allow the metal enclosure to be fitted between them (Fig.2). 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 complete instructions, please refer to the printed installation guide supplied with the machine. It’s also available online at: www.dyson.com/docs

Fig.1

Install plasterboard.

Fig.3

Install Dyson Airblade Wash+Dry hand dryer.

Fig.4
Further documents are available to download online at dyson.com/docs:

- Pre-installation guide
- Installation guide
- Dyson Airblade Wash+Dry hand dryer brochure
- Cleaning guide
- CAD drawings