ADA Guidelines

Mobility access within washroom facilities
Because the Airblade 9kJ hand dryer is primarily installed in a restroom setting, it must comply with at least two primary accessibility requirements. The first is that the unit be placed on an accessible route but not protrude into any required accessible clear area of other items, such as a door, sink, water closet, urinal or fixed waste receptacle. The second is the mounting height relating to reach range and space requirements to use the unit itself. State or local codes may require more stringent accessibility standards when facilities are newly constructed or altered. An accessible toilet room is comprised of an accessible entrance, accessible turning space, and at least one type of accessible dispenser and fixture of each type. The Airblade 9kJ hand dryer would be considered a wall mounted unit similar to a towel dispenser.

Clearance for wall-mounted protruding objects:
Airblade 9kJ is less than 4 inches protruding from the wall. Traditional hand dryers that protrude beyond the 4” are allowed to be of an unlimited distance by ADAAG as long as they are mounted at 27” above finished floor (AFF) or lower so that they overlap the cane detection range. Objects mounted with their leading edges at or below 27” (685 mm) AFF may protrude any amount; however, protruding objects should not reduce the clear width of an accessible route or maneuvering space. Any retrofit installation must comply with the newest and most stringent code standards.

Forward reach:
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 9kJ hand dryer, it is assumed that a front approach is the only way the unit can be properly used, therefore the side approach standards should not apply.

Forward reach over an obstruction:
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.

Dyson Airblade 9kJ accessible installation matrix:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Yes/No</th>
<th>Compliant</th>
</tr>
</thead>
<tbody>
<tr>
<td>Does the unit have the required front approach 30” x 48” clear floor clearance?</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Does the reach range exceed 40” maximum height above the finished floor surface?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Is the hand dryer mounted at a height where it is considered a protruding object?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Does the front edge project more than 4” into the path of travel when properly mounted?</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>Does the unit provide the proper 9” toe clearance?</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Conclusion
Based on our review of data provided by Dyson for the Airblade 9kJ hand dryer it appears that if properly installed per manufacturer’s recommendations for height, and the design professional allows the proper front approach clear area with no conflicting overlapping accessible areas, then the unit should comply with accessible requirements.

## Electrical

- **Input voltage**: Low voltage = 100–120 V, High voltage = 200–240 V
- **Frequency**: 100–115 V at 50/60 Hz, > 115–120 V at 60 Hz; 200–240 V at 50/60 Hz
- **Standby power consumption**: Less than 0.5 W
- **Motor specification**: 900 W (Max) / 650 W (Eco), digital V4 brushless motor
- **Motor switching rate**: 5,000 per second (Max mode) / 4,533 per second (Eco mode)
- **Amp**: Dedicated 20A circuit suitable for up to two (2) machines. 8.18 A (Max)/5.91 A (Eco) at 110 V; 4.09 A (Max)/2.95 A (Eco) at 220 V
- **Heater type**: None

## Construction

- **Fascia**: Stainless steel – Brushed (304L)
- **Backplate mounting bracket**: Stainless steel
- **Exterior screw type**: Anti-tamper 1 3/4 in Pin-Hex
- **Water ingress protection rating**: IP24
- **Net weight**: 9.99 lb / 4.53 kg

## Filter

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

## Operation

- **Touch free ‘time of flight’ sensor activation**
- **Hand dry time measurement**: 10 seconds (Max mode) / 12 seconds (Eco mode) (measurement based on NSF P335 to a measurement of 0.1g residual moisture)
- **Sound power level**: 79 dB(A) (Max mode) / 77 dB(A) (Eco mode)
- **Sounds pressure level**: @ 2m: 64 dB(A)* Max mode / 62 dB(A)* Eco mode
- **Operation lock-out period**: 30 seconds
- **Airspeed at aperture**: 624 km/h or 388 mph (High voltage Max mode); 569 km/h or 354 mph (High voltage Eco mode); 624 km/h or 388 mph (Low voltage Max mode); 543 km/h or 337 mph (Low voltage Eco mode)
- **Maximum altitude**: 9,842 feet / 3,000 meters
- **Operating temperature range**: 32°–104°F / 0°–40°C

## Logistics

- **Unit barcode**: Low voltage: 885609017693, High voltage: 885609017686
- **Packaged weight**: 16.84 lb / 7.64 kg
- **Packaged dimensions**: H 5.1” (129 mm) X W 20.5” (520 mm) X D 24.3” (616 mm)
- **Pallet quantity**: 34

## Standard warranty

- **5 year parts (self-service)**

## Dyson backplate

Where only unsupported plasterboard is available for installation, a Dyson backplate must be used. The Dyson backplate helps protect the wall from water damage and can be used to cover holes/marks left from previously installed products – including the Dyson Airblade dB hand dryer. Contact the Dyson Helpline or www.dyson.com for further information.

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

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**Note:**

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**For more information, please contact Dyson:**

1-888-397-6622 | design@dyson.com | www.dyson.com
Machine dimensions
Height 19 ⅛" (500mm) × Width 17 ⅝" (450mm) × Depth 4" (100mm)

Minimum clearance
8 ⅛" (210mm) above machine.

Recommended installation heights from floor

<table>
<thead>
<tr>
<th></th>
<th>Adult</th>
<th>Wheelchair/child</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>56&quot;</td>
<td>53 ⅜&quot;</td>
</tr>
<tr>
<td>Y</td>
<td>54 ½&quot;</td>
<td>52 ⅛&quot;</td>
</tr>
<tr>
<td>Z</td>
<td>36 ½&quot;</td>
<td>34&quot;</td>
</tr>
</tbody>
</table>

Rear cable entry point from floor

<table>
<thead>
<tr>
<th></th>
<th>Adult</th>
<th>Wheelchair/child</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>48 ½&quot;</td>
<td>46&quot;</td>
</tr>
</tbody>
</table>