ADA guidelines

Mobility access within washroom facilities
Because the Dyson Airblade Tap 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 AB09 Short Tap 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 Tap 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.

AB09 Short Tap unit:
AB09 Short Tap 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.

**Conclusion**

Based on the review of the three Airblade Tap sink integral faucet-hand dryers, it is concluded that in a standard restroom lavatory installation the Airblade AB09 Short Tap and AB11 Wall Tap mounted at the correct height would be compliant. As always, if a front approach clear area with no conflicting overlapping accessible areas exists, then the unit should comply with accessible requirements.

Note: Diagrams not to scale.*
### Electrical
- **Input voltage:** Low Voltage = 110-127 V, High Voltage = 208 V
- **Frequency:** Low Voltage = 50 or 60 Hz, subject to voltage (85-115 V at 50 Hz; 85-130 V at 60 Hz); High Voltage = 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
- **Amp:** Recommended dedicated 15 amp circuit, Low voltage = 11.7 amps at 120V, High voltage = 7.3 amps
- **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
- **Double-life 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*
- **Operation lock-out period:** 30 seconds
- **Airspeed at apertures:** 420 mph
- **Maximum Altitude:** 2,000m/6,561 ft.
- **Operating airflow:** Up to 7.92 gal/sec and 63.5 CFM
- **Rated operating noise power:** 85 db(A)

### Water operation
- **Water flow rate:** 1.06 gal/min
- **Tap Aerator:** 0.5 gal/min aerator outlet (Note: Optional .35 gal/min multi spray laminar aerator available as a service part)
- **Tap power supply:** Mains supply
- **Water temperature control:** Thermostatic mixer recommended (not supplied)
- **Water pressure required:** 14.5-116 psi

### Sink specifications
- The Dyson Airblade™ Tap is compatible with most sink types. Ensure plugs are not installed in the sinks. See the Tap Pre-Installation Guide for more details.
- **Sink dimensions:**
  - Min. sink depth – AB10 only: 7 7⁄8" (External measurement of vessel sink).
- **Sink materials:** Sinks with highly polished surfaces should be avoided e.g. shiny chrome. Porcelain or brushed metal are ideal.

### Accreditations
- **Carbon Trust**
- **HACCP International**
- **NSF International**
- **AB09 Short and AB11 Wall are ADA compliant**
- **Contributes to LEED certification**

### Logistics
- **Serial number prefix:** AB09 AN5; AB10 AN6; AB11 AN7
- **Net weight:** AB09 9.5 lbs.; AB10 10.1 lbs.; AB11 19.7 lbs.
- **Packaged weight:** AB09 13.4 lbs.; AB10 14.3 lbs.; AB11 25.9 lbs.
- **Packaged dimensions:** AB09 (H) 11⅞ x (W) 11⅛ x (D) 11⅛; AB10 (H) 10⅜ x (W) 17¾ x (D) 11; AB11 (H) 11⅛ x (W) 24 x (D) 14⅛
- **UPC barcodes:** Low Voltage – AB09: 885609001500, AB10: 885609001494, AB11: 885609001487; High Voltage – AB09: 885609004402, AB10: 885609004419, AB11: 885609004426

### Standard guarantee
- 5 year parts and 5 year limited labor warranty

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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 more information, please contact Dyson: 1-888-397-6622, www.dysonairblade.com, airbladeinfo@dyson.com
**TECHNICAL SPECIFICATION**

**FLOOR**

**Tap dimensions**
AB09 Height 6 ¼" Width 11 ⅞" Depth 11 ⅛"

**Motor bucket dimensions**
AB09 Height 10 ⅜" Width 5 ⅝" Depth 7 ⅜"

**Minimum clearance**
Z 4" clearance from floor. (ADA requires 9" toe clearance)

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FRONT ELEVATION

SIDE ELEVATION

Fixing locations (4)

Water entry point

Fixing locations (4)

Rear electrical entry point

All dimensions shown in inches (+/- 1/16 inches)

Tap dimensions

AB10 Height 12 1/8" Width 11 5/8" Depth 11 1/8"

Motor bucket dimensions

AB10 Height 10 5/16" Width 5 9/16" Depth 7 7/16"

Minimum clearance

Z 4" clearance from floor. (ADA requires 9" toe clearance)

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TECHNICAL SPECIFICATION

FRONT ELEVATION

Tap dimensions
AB11 Length 12 3/16" 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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