



Technical Data

# SURFACE-MOUNTED AUTOMATIC HAND DRYER

# B-705

## Model B-705 115-Volt Cub™ Dryer

115V AC, 13 Amp, 1500 Watts, 50/60 Hz, Single Phase, UL and c-UL Listed

**Designer's Note:** Model B-705 Cub™ Dryer is not designed for vandal-prone installations. For vandal-prone installations, use Bobrick Eclipse Dryer with vitreous enamel steel cover or Bobrick AirCraft® Dryers with cast-iron, vitreous enamel finished covers.



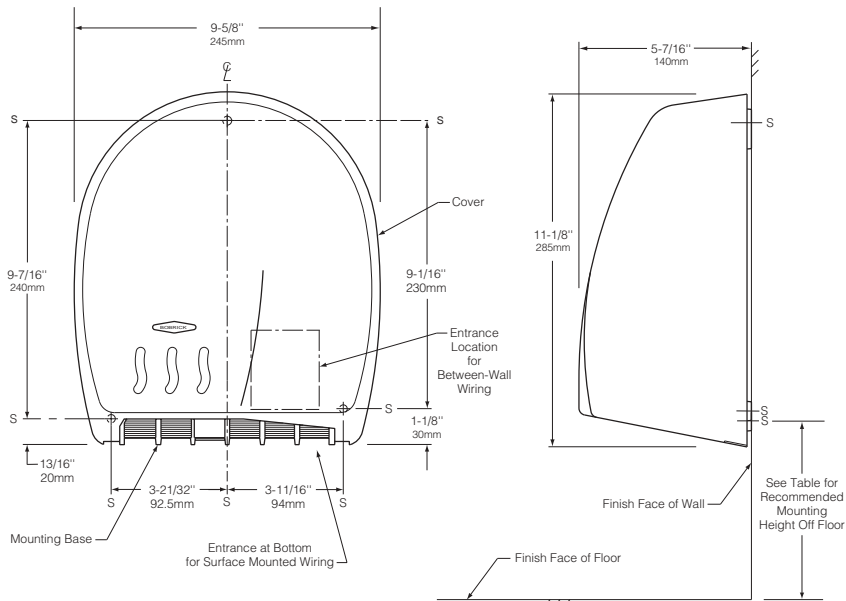
Patent Pending

### \*RECOMMENDED MOUNTING HEIGHTS

Men's Washrooms	46-1/2" (1185mm)
Women's Washrooms	44-1/2" (1135mm)
Children's Washrooms, ages 3-9	32-1/2" (830mm)
Children's Washrooms, ages 9-12	36-1/2" (930mm)
Children's Washrooms, ages 12-15	40-1/2" (1030mm)
Children's Washrooms, ages 15-18	44-1/2" (1135mm)
For Barrier-Free Design	38-1/2" (980mm)



\*Bottom screw hole of mounting base to finish face of floor



### MATERIALS:

**Cover** — One-piece, 3/32" (3mm) thick, fire-retardant, molded, high-quality, high-impact, white plastic, 5-V rated. UL and c-UL listed. Cover is secured to the mounting base by two stainless steel screws.

**Air Inlet/Outlet Grille** — Black, injection molding, incorporating the infrared sensor. Latched into the mounting base and held in position by the cover.

**Mounting Base** — Black, injection molded ABS with three mounting holes and cable entry. Incorporates the fan housing.

**Fan** — Dynamically balanced 4-3/4" (120mm) diameter centrifugal impeller with multiple metallic vanes. Directs air flow across heating element at 80cfm, mixes air to provide uniform temperature.

**Motor** — 115V AC, 50/60 Hz, 2600rpm. Capacitor run, external rotor motor with sealed ball bearings at both ends of drive shaft. Equipped with an automatic thermal-overload switch.

**Heating Element** — Mica formers with stitched nickel-chrome strip wire protected by a thermal fuse.

**Electronic Control** — Infrared sensor automatically turns dryer on when hands are held under air-outlet opening and across path of sensor. Remove hands from path of sensor and dryer stops. Electronic sensor has automatic shutoff approximately 1-1/2 minutes after dryer turns on if an inanimate object, such as tape or chewing gum, is placed across sensor lens. After inanimate object is removed, electronic sensor automatically resets itself and dryer operates normally.

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## OPERATION:

No-touch operation. Electronic sensor automatically turns dryer on when hands are held under air-outlet opening and across path of sensor. Remove hands from path of sensor and dryer stops. Dryer will not stop by itself before user is satisfied hands are dry. Dryer operates only when actually drying hands which saves energy and operating costs. Electronic sensor will automatically shut dryer off 1-1/2 minutes after dryer turns on if an inanimate object is placed across sensor. After inanimate object is removed, electronic sensor automatically resets itself and dryer operates normally.

**1-Year Limited Warranty** — This warranty is limited to the repair or exchange of defective parts at the option of Bobrick. See Installation Instruction Sheet, Form 705-69, for full details.

**Note:** Model B-705 Cub Dryer is not designed for vandal-prone installations. For vandal-prone installations, use Bobrick AirCraft B-700, B-750 and B-708 AirGuard dryers with cast-iron vitreous enamel finished covers, or B-740 Eclipse dryer with drawn steel, vitreous enamel finished cover.

## INSTALLATION:

**Wall Preparation:** Secure mounting base on wall. For masonry walls, provide three #10 expansion shields or anchors and secure with #10 (M4.8) sheet-metal screws (not furnished). For plaster or dry wall construction, provide concealed backing to comply with local building codes and secure unit with #10 x 1-1/4" (M4.8 x 35mm) or longer, round-head sheet-metal screws or 3/16" (5mm) toggle bolts (not furnished). Provide electrical service from nearest distribution panel to dryer mounting base in conformance with local electrical codes.

**Wiring Instructions:** Connect ground wire to ground terminal marked  $\frac{1}{\text{—}}$ . The black or hot wire should be connected to the terminal marked L, and neutral or white wire to the terminal marked N. **A DEDICATED LINE IS REQUIRED FOR EACH 115-VOLT INSTALLATION.**

**Notes:** Electronic sensor in the Cub Dryer will pick up movement within 6" (150mm) of the air-outlet opening. Use caution when choosing location for Cub Dryers in confined areas. Consider proximity to doorways and other traffic areas.

For installation instructions that include step-by-step installation procedures and details of electrical service connections, see Form No. 705-69, which is packed with each shipment. This form is also available in advance upon request.

## SPECIFICATION:

Surface-mounted hand dryer shall have a one-piece, plastic cover. Motor shall be capacitor-run, external rotor-type with sealed ball bearings, fitted with an automatic thermal-overload switch. Heating element shall be located on outlet side of fan, shall heat air without hot spots, be inaccessible to vandals, and protected by a thermal fuse. Electronic sensor shall automatically turn dryer on when hands are held under air-outlet opening and across path of sensor. Dryer shall turn off automatically when hands are removed. Sensor shall automatically shut dryer off approximately 1-1/2 minutes after dryer turns on if an inanimate object is placed across air-outlet opening. After inanimate object is removed, electronic sensor shall automatically reset itself and dryer shall operate normally. Unit shall be UL and c-UL listed. Unit shall be protected by a limited 1-year warranty. Manufacturer's service and parts manual shall be provided to the building owner/manager upon completion of project.

**Surface-Mounted Automatic Hand Dryer shall be Model B-705 of Bobrick Washroom Equipment, Inc., Clifton Park, New York; Jackson, Tennessee; Los Angeles, California; and Bobrick Washroom Equipment Company, Scarborough, Ontario; Bobrick Washroom Equipment Pty. Ltd., Australia; and Bobrick Washroom Equipment Limited, United Kingdom.**