

## SmartSense™ Recessed Ceiling Exhaust Fans

**MODELS: QT100LH  
QT100LM  
QT100LHM**

### DESCRIPTION

- Fan/Light automatically activated by humidity/ motion. User adjustable shutoff delay time.
- For bathrooms up to 95 sq. ft. Other rooms up to 125 sq. ft.
- White polymeric grille held firmly in place with torsion springs.
- Centrifugal blower wheel is balanced for smooth, quiet operation.
- Built-in non-metallic damper quietly helps prevent backdraft
- Motor is cushioned with vibration isolators.
- Prewired outlet box is built into housing; features a plug-in receptacle.
- Choice of two (2) knockouts for wiring entrance.
- Adjustable hanger brackets for mounting between ceiling joists 16" O.C.
- Ducts horizontally with 4" duct.
- Convenient 7W night light.
- Refer to NuTone's catalog for a complete line of accessories to effectively adapt these fans to your construction requirements.
- Type IC for use with thermal insulation.

### DESIGN FEATURES

#### Automatic Activation

- QT100LH:** Fan automatically activates when humidity levels exceed limits.
- QT100LM:** Light automatically activates when motion is detected.
- QT100LHM:** Fan and light are activated by humidity and motion.  
**Delay time is user adjustable for all models.**

**HVI Air Delivery:** 100 CFM@.1 w.g.

**HVI Sound Level:** 3.5 sones

**Dimensions:** **Housing:** 11¼" x 9 ⅜" x 7 ⅞"  
**Grille:** 13 ¼" x 13 ¼"

**Material and Finish:** **Housing:** Cold rolled steel, baked enamel finish.  
**Grille:** White Polymeric.

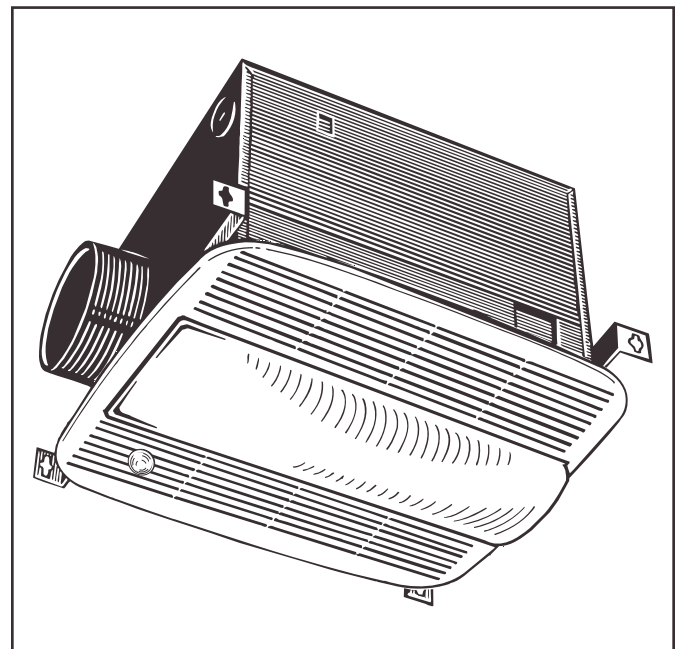
**Motor:** Plug-in, Thermally protected, Sleeve bearings.

**Electrical rating:** 20 volts, 1.5 amps

**Impeller:** One centrifugal type. 5¾" dia x 2" wide.

**Damper:** Polypropylene.

**Lamp:** 100 Watt A19 max. C7 Night Light.



### INSTALLATION

- Not for use in kitchens.
- U L listed for shower/tub enclosure when used with GFI branch circuit wiring.
- Housing installs in ceiling to 16" on center joists with adjustable brackets. In existing construction, the unit requires a 9½" x 11½" cutout.
- Motor/blower wheel assembly and grille are installed when finished ceiling is in place.
- Grille snaps into place and is held securely with torsion springs.
- Suitable for use with NuTone VS-95 switch. Switches sold separately.
- Complete installation instructions included with each unit.

### ARCHITECT'S SPECIFICATIONS

Exhaust fan with light shall be NuTone Model QT100LH, QT100LHM, or QT100LM as manufactured by NuTone according to listed specifications.

## CERTIFIED TEST DATA

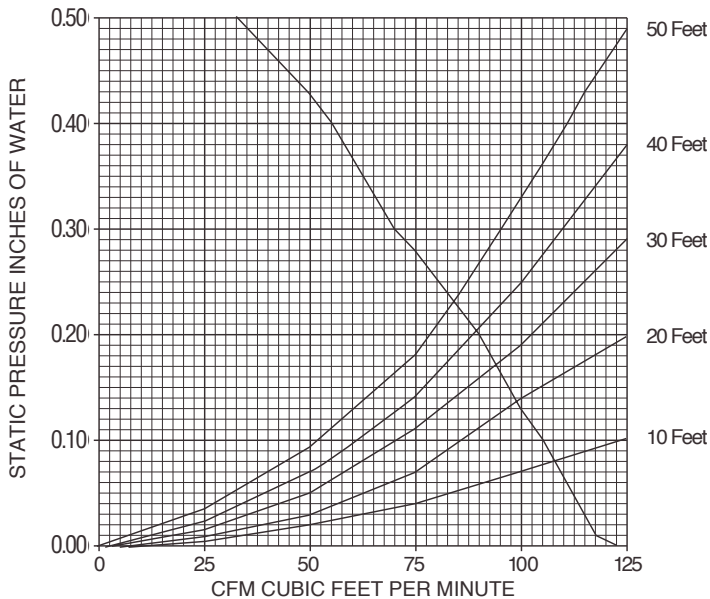
HVI-2100 CERTIFIED RATINGS comply with new testing technologies and procedures prescribed by the Home Ventilating Institute, for off-the-shelf products, as they are available to consumers. Product performance is rated at 0.1 in. static pressure, based on tests conducted in AMCA's state-of-the-art test laboratory. Sones are a measure of humanly-perceived loudness, based on laboratory measurements.



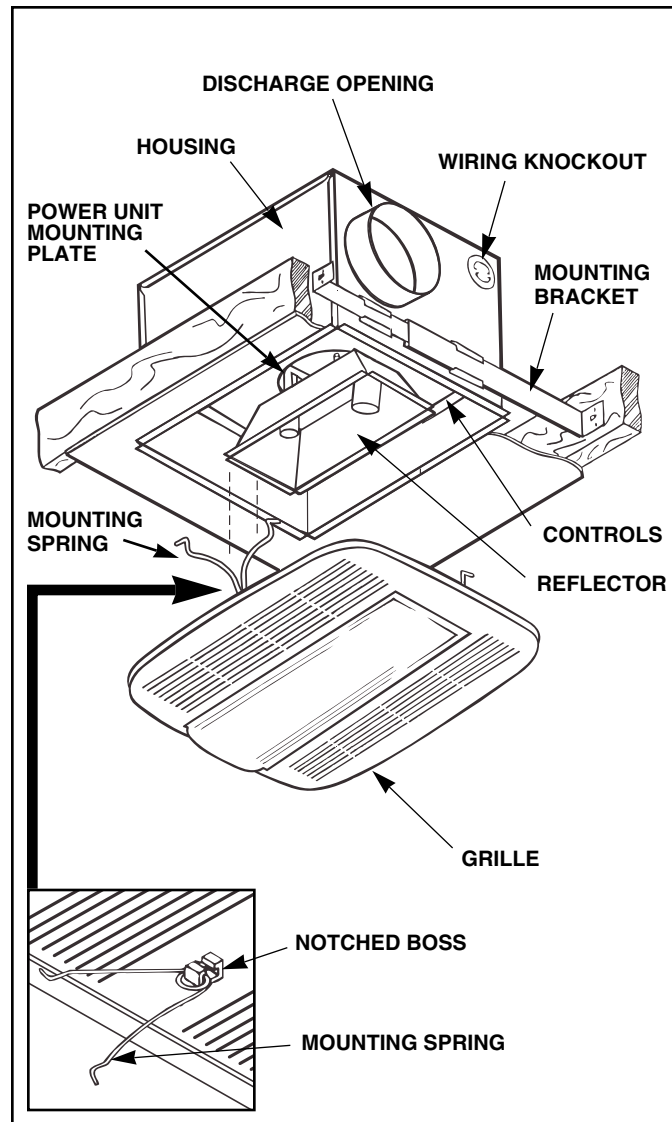
### The air delivery of a ventilating system may be determined by:

1. Determine the equivalent duct length for each 90 degree elbow by adding one foot of duct length for each inch of duct diameter, i.e., a 4 inch diameter duct elbow equals 4 feet equivalent duct length and an 8 inch diameter duct elbow equals 8 feet equivalent duct length.
2. Add the total straight length of duct and the equivalent length for each elbow to obtain the total equivalent duct length.
3. Locate the intersection of the fan performance curve and the total equivalent duct length curves and draw a vertical line down to the CFM scale and read the system air performance.

**QT100LH, QT100LHM, QT100LM  
AIR PERFORMANCE CURVE  
(4 In. Duct to 10 Foot Lengths)**



STATIC PRESSURE INCHES OF WATER	0.05	0.1	0.15	0.2	0.25	0.3	0.35	0.4
CFM	110	105	99	91	82	72	63	60



Product specifications subject to change without notice.