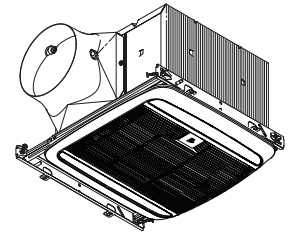# BROAN®

MODEL ZB110HL1
VENTILATION FAN WITH LIGHT

FEATURES

ULTRASMART™ DC Motor and Control Technology
- DC motor for efficiency well beyond ENERGY STAR® requirements.
- Multi-speed capability ideal for meeting ASHRAE 62.2, LEED and ENERGY STAR® for Homes requirements. Can be used to comply with CA Title 24, as well as local/spot ventilation needs.
- Powerful operation maintained over a wide range of real-world installations (CFM ratings maintained through at least 0.25" static pressure).
- Infinitely adjustable low cfm setting allows precise adjustment to prevent over-ventilating and maximize efficiency.
- Adjustable time delay sets how long fan will run on high speed before returning to a continuous lower speed.
- Rated for Continuous Operation.

ULTRASILENT™ Sound Technology
- HVI certified, best-achievable <0.3 Sone level provides nearly silent operation for a relaxing environment.
- State-of-the-art blower and duct outlet design smooths airflow.
- High tech DC motor designed for nearly silent operation.

ULTRALUCENT™ Lighting Technology
LIGHTING / GRILLE:
- Highly efficient, 18 Watt, integrated LED, dimmable
- LED lasts up to 25,000 hours
- Unique, low profile design for wide light pattern
- Even lens diffusion eliminates hotspots
TO OPERATE FAN AND LIGHT:
- Use only an ON/OFF or timer switch to operate the fan.
- Use only an ON/OFF switch, timer switch or relay-switch to operate the LED light.
- The LED light can be used with some dimmable switches (see below).
- Both the fan and LED light can be put on one switch.
DIMMING CONTROLS :
- May not be compatible with all dimmer controls
- Each application is unique and various factors such as load, common neutrals or other electrical products on the circuit can, in certain instances, cause variance in system performance.
- Dimmer model numbers vary slightly depending on color, packaging type, etc. such that variations of Model numbers may be suitable. Consult dimming system manufacturer for additional support in operation
- * For a list of compatible controls, see broan.com.

ULTRAQUICK™ Installation Technology
- Unique telescoping mounting frame fits through retrofit drywall opening to allow easy installation from the room side. No attic access needed!
- Captive screws allow for easy new construction installation.
- Mounting frame positioning tabs provide easy vertical positioning for new construction.
- Easy to insert and remove snap-in housing. No screws required!

- Easy to insert and remove snap-in blower.
- Inside or outside duct connector and knockout plate mounting provides flexibility for new construction or retrofit.

ULTRASENSE™ Humidity Sensing Technology
- Detects humidity at the ceiling where it is greatest, which minimizes reaction time.
- Automatically switches fan to maximum airflow (CFM) when either of these conditions is detected:
  - Rapid to moderate humidity increase;
  - Humidity above set point (50%-80% RH).
- Humidity level is set with easily accessible user adjustment.
- Can be used to comply with CALGreen standards.
- Two wire manual operation for odor control - Boosts fan to maximum airflow (CFM) when power line through wall switch is cycled ON, OFF and back ON.
- After humidity has stabilized and is below set point or after boosted through power line cycling, fan operates at maximum airflow (CFM) until UltraSmart™ user adjustable time delay set point is reached, then fan reduces to continuous airflow (CFM) level.

U.L. Listed for use over bathtubs and showers when connected to a GFCI protected branch circuit (ceiling mount only).
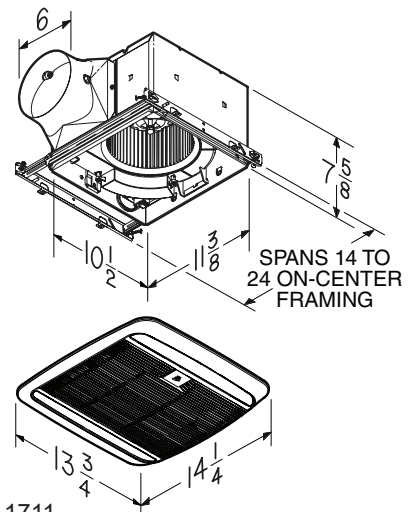
U.L. Listed for use in insulated ceilings (Type IC).

Use only ON/OFF switch, mechanical timer or relay-switched control.

3-year warranty.

DIMENSIONS (Inches)

JA8-2019

6

7 5/8

10 1/2   11 3/8   SPANS 14 TO 24 ON-CENTER FRAMING

13 3/4   14 1/4

Broan   Hartford, Wisconsin   www.broan.com   800-558-1711

REFERENCE	QTY.	REMARKS	Project
			Project
			Location
			Architect
			Engineer
			Contractor
			Submitted by **Date**

BROAN®

PERFORMANCE SPECIFICATIONS
MODEL ZB110HL1 VENTILATION FAN WITH LIGHT

HVI PERFORMANCE

Airflow Rate Setting (CFM)	6" Duct				0.25 Ps
	0.1 Ps - Static Pressure (inH2O)				
	Airflow (CFM)	Sound (Sones)	Power (Watts)	Efficacy (CFM/ Watt)	Airflow (CFM)
110	110	< 0.3	9.3	11.8	110
100	100	< 0.3	7.9	12.7	100
90	90	< 0.3	7.1	12.7	90
80	80	< 0.3	6.6	12.1	80
70	70	< 0.3	5.8	12.1	70
60	60	< 0.3	5.2	11.5	60
50	50	< 0.3	4.7	10.6	50
40	40	< 0.3	4.2	9.5	40
30	30	< 0.3	3.9	7.7	30

® 2100 HVI CERTIFIED

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 a state-of-the-art test laboratory. Sones are a measure of humanly-perceived loudness, based on laboratory measurements.

ELECTRICAL & WEIGHT

Volts	Hz	Amps*	Shipping Weight (lbs.)
120	60	0.5	13.8

* Total connected load

UL   energy ENERGY STAR

FAN CAPABILITY

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ZB110HL1 - 6" Duct

Precise airflow rate adjustability allows fan to produce any CFM shown within this shaded area.

Static Pressure (inH2O - Inches of Water Gauge)

Airflow (CFM - Cubic Feet per Minute)