

Low-Voltage Enclosure

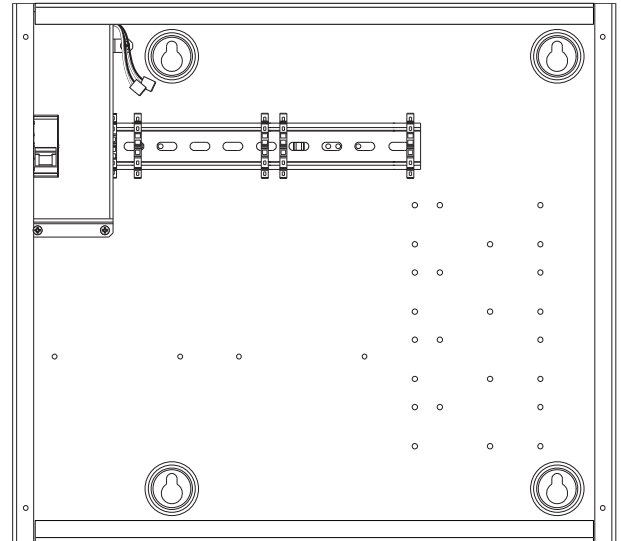
Low-voltage enclosures are surface-mounted in an electrical closet or equipment space. The number of enclosures and the types of components within them are customized to fit the size, lighting plan, and design of a space. Low-voltage enclosures can be distributed throughout a space near the rooms they are controlling, to provide maximum flexibility during installation of the low-voltage wiring.

The LV16 low-voltage enclosure provides a compact housing for mounting a maximum of two Guestroom Control Units or system interfaces in any combination. In addition, it can house up to four wire landing boards and two power supplies.

The enclosure accepts one 120 V~ (LV16-120) or one 220-240 V~ (LV16-230) feed to power the panel, which is contained in an enclosed area, allowing access to only the low-voltage connections when the enclosure cover is removed.

Models Available

- LV16-120 120 V~ Low-Voltage Enclosure
- LV16-230 220-240 V~ Low-Voltage Enclosure



LV16 Low-Voltage Enclosure

Job Name:	Model Numbers:
Job Number:	

Specifications

Regulatory Approvals

LV16-120 model only

- Complies with UL® 508
- Complies with CSA C22.2, #14
- Complies with NOM 003
- RoHS Compliant

LV16-230 model only

- Complies with IEC/EN 50178
- RoHS Compliant

Power

- 120 V~ 50/60 Hz 2 A (LV16-120)
- 220–240 V~ 50/60 Hz 2 A (LV16-230)

Environment

- Ambient temperature: 0 °C to 40 °C (32 °F to 104 °F).
- Relative humidity: 0%– 90%, non-condensing.
- Indoor use only.
- Passive cooling.
- IP20 Construction.

Mounting

- Surface-mount only.
- Enclosure fully populated with components generates heat, maximum 110 BTUs/hr.
- Meets NEC® requirements for installation in “other space used for environmental air”.

Construction

- 1.5 mm (16-gauge) powder coated sheet metal enclosure.
- 1.5 mm (16-gauge) powder-coated metal cover with ventilation holes. Cover is attached using four Phillips-head screws.

Line Voltage Connections

- Use copper wire only.
- Supply conductors rated at 75 °C (167 °F) or higher.
- Use supplied wire harnesses to connect to corresponding Lutron® power supply harness.

Capacity

- Enclosure can accommodate two Guestroom Control Units (GCU-HOSP) or system interface devices (QSE-IO, QSE-CI-DMX, or QSE-CI-NWK-E), four wire landing boards (QS-WLB), and 2 power supplies (QSPS-DH-1-75-H).

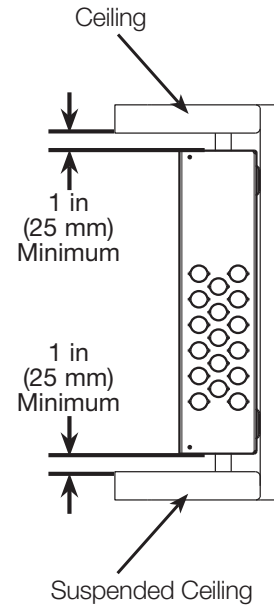
<p>Job Name:</p> <p>Job Number:</p>	<p>Model Numbers:</p>
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Panel Mounting

- Install in accordance with all local and national electrical codes.
- Indoor use only.
- Consult dimensions page for panel size, conduit knockouts, and mounting hole locations.
- Panels weigh up to 14 kg (30 lb) with all components installed. Reinforce wall structure for weight and local codes.
- Mount panel where audible noise is acceptable (power supply hums slightly).
- This equipment is passively air-cooled. Mount in a location where the vented cover will not be blocked. 305 mm (12 in) of clearance in front of the vents is required. A reduced clearance of 46 mm (1.8 in) in front of the cover can be achieved. See **Wall Cavity Mounting** section for more details.
- Mount panel so line voltage wiring is at least 1.8 m (6 ft) from sound or electronic equipment and wiring.
- Surface-mount only.
- Use keyholes with bolts sufficient for 14 kg (30 lb) load, M6 (1/4 in) bolts recommended.
- Mount within 7° of true vertical.

Suspended Ceiling Installation

- Panel(s) can be a minimum of 1 in (25 mm) from the top of the suspended ceiling and ceiling.
- Panels cannot be vertically stacked when installed above a suspended ceiling.
- Maintain 12 in (304 mm) of clearance in front of panel when mounting in a suspended ceiling.



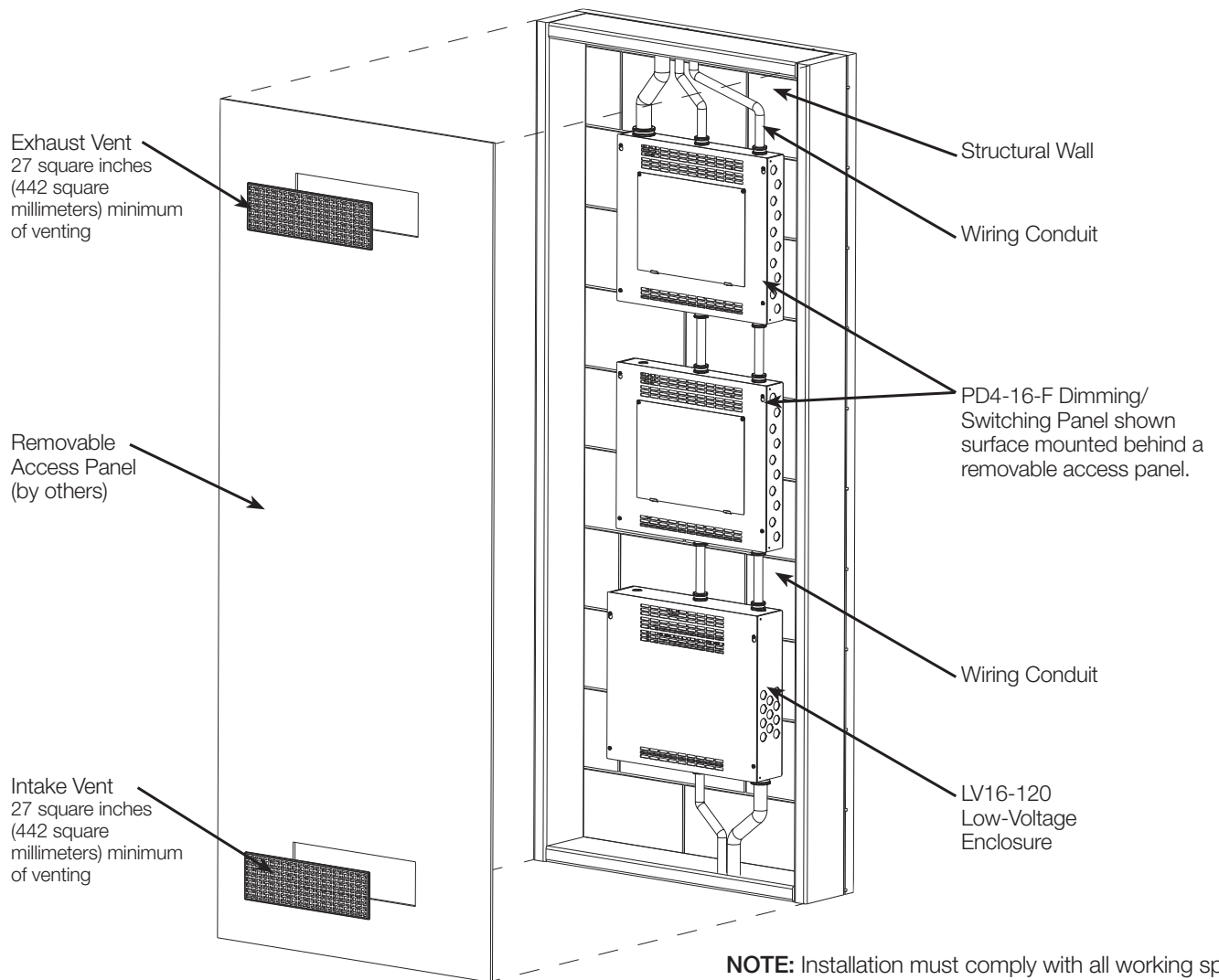
NOTE: Installation must comply with all working space requirements. Consult with your jurisdiction for local requirements.

Job Name:	Model Numbers:
Job Number:	

Wall Cavity Mounting

In addition to the Panel Mounting requirements found in this document, the following is required when mounting panels into a wall cavity.

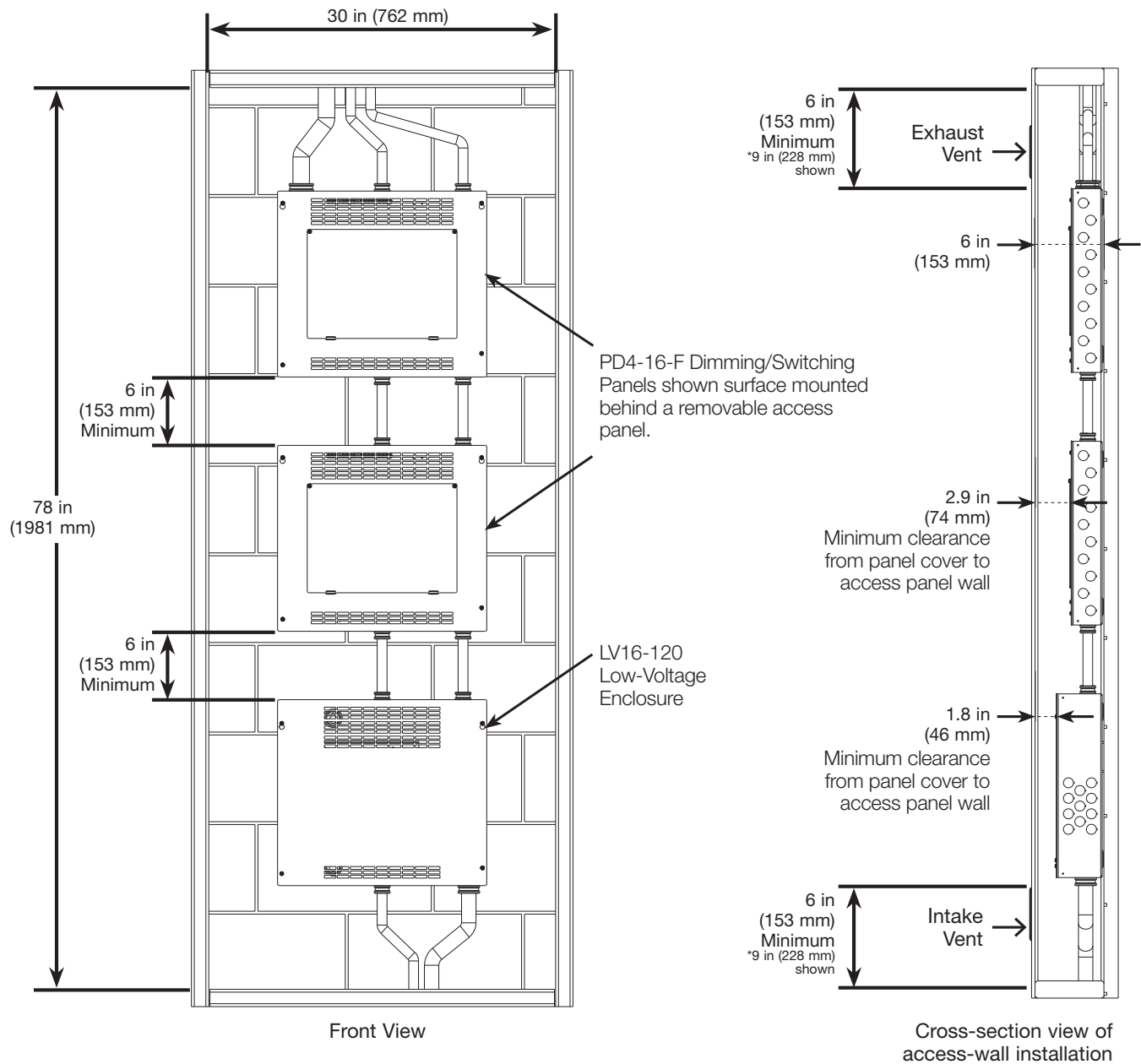
- Wall Cavity Mounting requires a minimum of 8.125 cubic feet (0.23 cubic meter) of confined space.
- This confined space requires a minimum of 27 square inches (442 square millimeters) of venting (area of vent openings/aperture) for each of the intake and exhaust vents.
- Intake vent must be located below the bottom panel while the exhaust vent must be located above the top panel.
- The confined space must have a Removable Access Panel large enough to service the equipment.
- Panels should only be surface-mounted.
- Panels should be mounted a minimum of 6 in (153 mm) from the floor and 6 in (153 mm) from the ceiling to ensure proper ventilation.
- Do not stack multiple LV16 panels if mounting in a wall cavity.



NOTE: Installation must comply with all working space requirements. Consult with your jurisdiction for local requirements.

Job Name:	Model Numbers:
Job Number:	

Wall Cavity Mounting (continued)



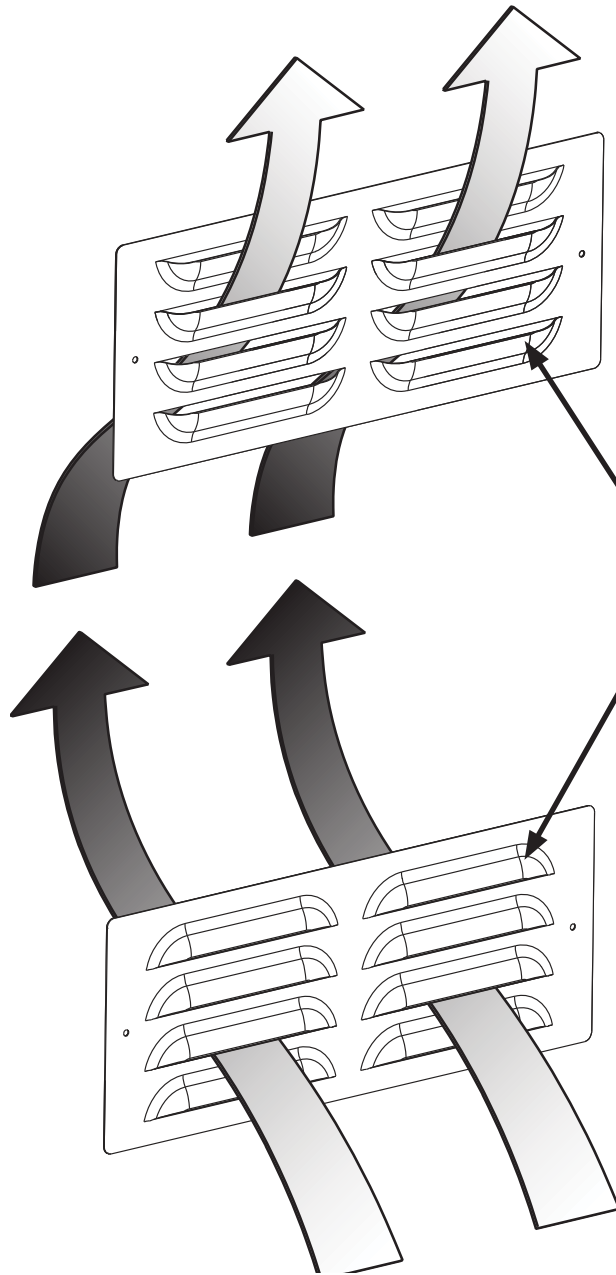
NOTE: Installation must comply with all working space requirements. Consult with your jurisdiction for local requirements.

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Job Name:	Model Numbers:
Job Number:	

Wall Cavity Mounting (continued)

Vent orientation: Proper venting is required to cool equipment correctly when installed behind a removable access panel. If louvered vents are used, they must be installed as shown below to allow required air flow and cooling. A minimum of 27 square inches (442 square millimeters) of venting (area of vent openings/aperture) required for **each** of the intake and exhaust vents.



- Louvered upper (exhaust) vent must be installed as shown with vent openings **facing upwards**.

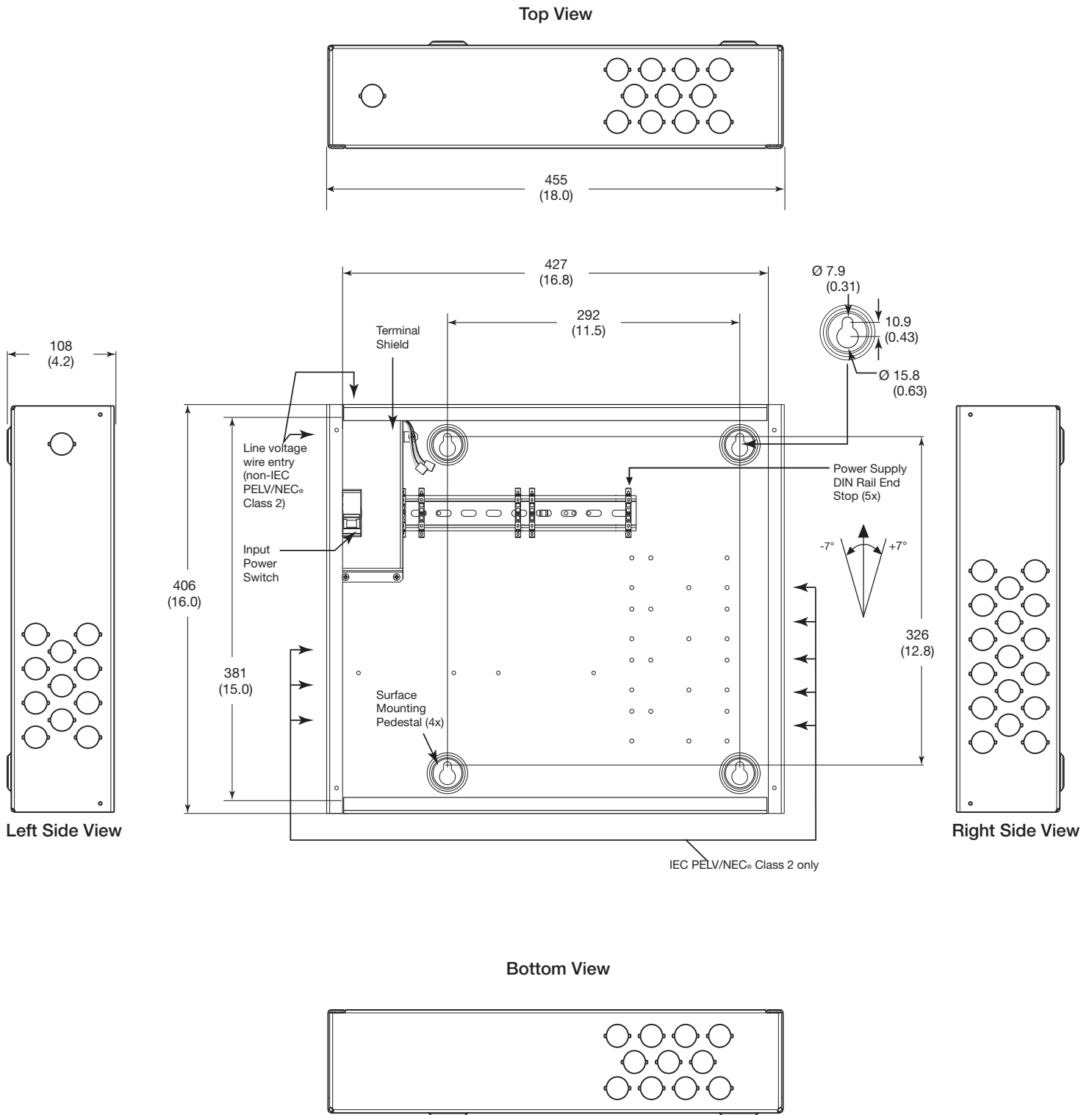
Note the direction of louvered vent openings.

- Louvered lower (intake) vent must be installed as shown with vent openings **facing downwards**.

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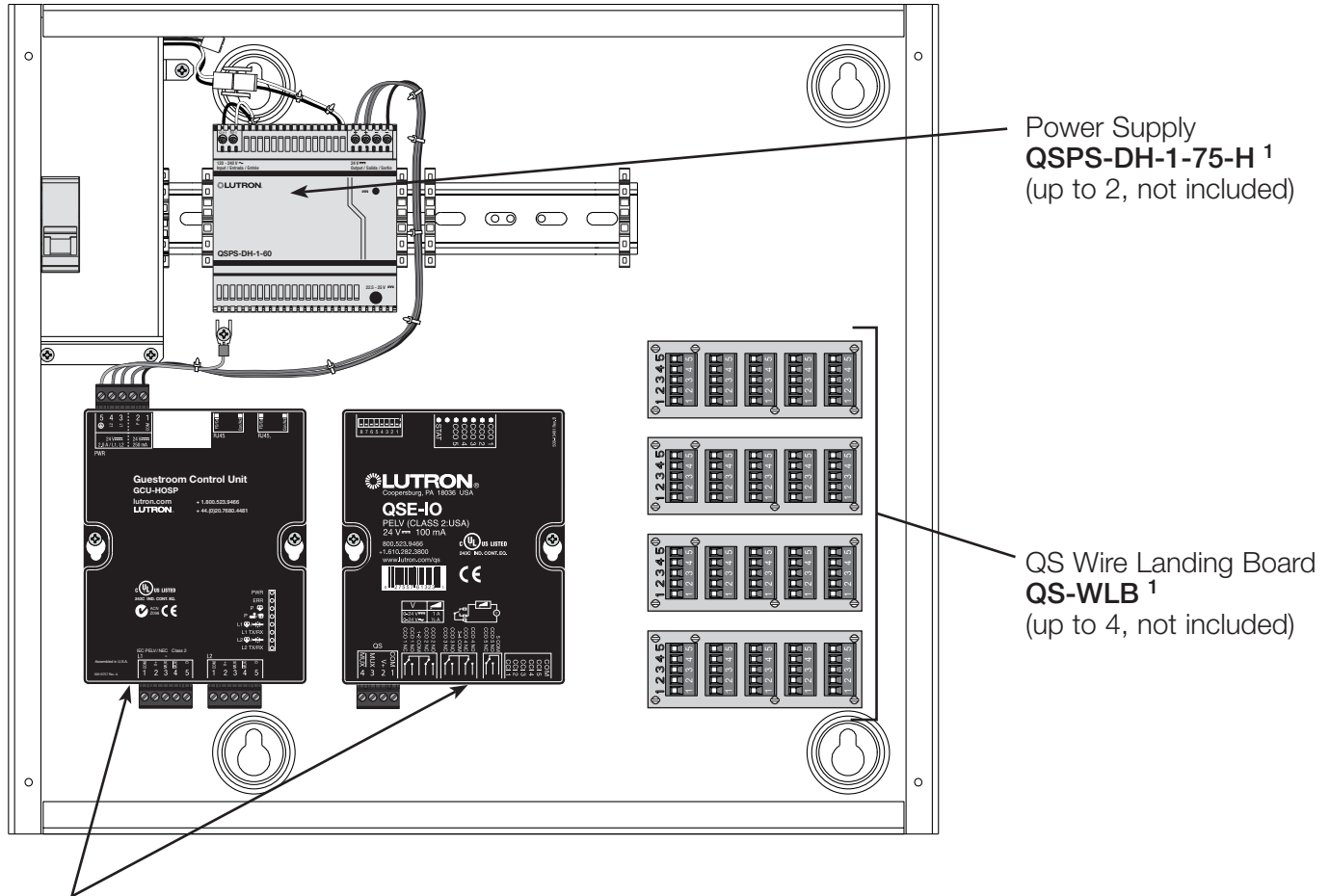
Mounting Dimensions

All dimensions shown as: mm (in)



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Typical Configuration Example



Power Supply
QSPS-DH-1-75-H¹
 (up to 2, not included)

QS Wire Landing Board
QS-WLB¹
 (up to 4, not included)

Guestroom Control Unit
GCU-HOSP^{1,2}
 OR
 System Interfaces^{1,2}

¹ All components sold separately.
² Maximum of 2 Control Units/Interfaces allowed per enclosure.

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Job Number:	