

NHIC-427LMRAT

4" Shallow IC Air-Tight LED Dedicated New Construction Housing
(Compatible with Onyx and Pearl)

Type

Project

Catalog No.

Notes

PRODUCT DESCRIPTION

Dedicated new construction housing for use in insulated ceilings can be in direct contact with insulation. Air-tight construction provides energy savings by reducing the flow of air through the ceiling. The housing is dedicated and labeled for use with LED retrofit luminaires.

FEATURES

- Shallow IC rated housing for direct contact with insulation
- Quick connect provided for electrical connection to the LED downlight
- IC Air-Tight energy saving by reducing the flow of air through the ceiling
- cULus listed for damp location and through branch circuit wiring

CONSTRUCTION

Housing: 0.040 steel housing with riveted cap adjusts for ceiling thicknesses from $\frac{5}{8}$ " to 1" depth.

Air Flow Restriction: Housing has factory installed gaskets to restrict airflow from room into ceiling plenum to <2CFM (cubic feet per minute) in accordance with ASTM-283 Air-Tight requirements.

Clearance: "IC" Insulated ceiling housings are direct contact rated. **Not to be used in direct contact with spray foam insulation.**

Bar Hangers: Two 13- $\frac{3}{4}$ " to 24- $\frac{1}{2}$ " adjustable bar hangers with captive nails are included on frame. Hanger bars have T-Bar slot and alignment feet. Bar hangers are parallel to junction box, but can be repositioned 90° perpendicular to junction box if desired. "L" Shaped bar hanger foot to align to bottom of construction joist. A T-Bar notch allows easy installation in a suspended ceiling.

Junction Box: Prewired 25 cubic inch 0.064" thick galvanized steel with three $\frac{1}{2}$ " trade size knockouts, one $\frac{3}{8}$ " trade size knockout, one $\frac{3}{4}$ " trade size knockout, four Romex® pryouts and snap on covers. All leads are #18AWG wire, the ground wire is connected to the bottom, and quick connectors are supplied on all leads. Maximum of 8 no. 12 AWG through branch circuit conductors suitable for at least 90°C permitted in junction box.

ELECTRICAL

Input Voltage: 120/277V or 277V (must specify)

Socket: Quick connect for LED downlights

Operating Temperature: 77°F (25°C) max.

Dimming: Specified by downlight

Step Down Transformer (converts 277V input to 120V)

Optional 50W step down transformer installed (NHIC-427LMRAT/277). Through branch wiring is limited to 3-in and 3-out.

COMPATIBLE DOWNLIGHTS

[NOX-431](#) = Onyx Round Reflector (Wet Listed)

[NOX-432](#) = Onyx Round Baffle (Wet Listed)

[NOXAC-431](#) = AC Onyx Round Reflector (Wet Listed)

[NOXAC-432](#) = AC Onyx Round Baffle (Wet Listed)

[NOXAC-436](#) = AC Onyx Square Reflector (Wet Listed)

[NOXTW-431](#) = Onyx TW Round Reflector (Wet Listed)

[NOXTW-432](#) = Onyx TW Round Baffle (Wet Listed)

[NPR-4RC](#) = Pearl Round Adjustable Cone

[NPR-4RG](#) = Pearl Round Adjustable Gimbal

[NPR-4SC](#) = Pearl Square Adjustable Cone

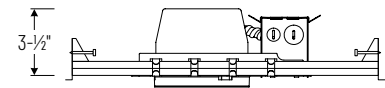
[NPR-4SG](#) = Pearl Square Adjustable Gimbal

LABELS AND LISTINGS

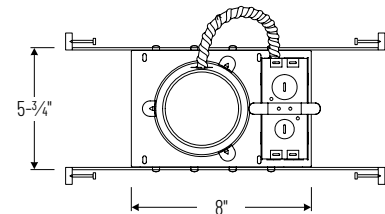
- cULus Listed for damp location & feed through (Wet Location when used with compatible downlights)
- ENERGY STAR certified
- Meets or exceeds ASTM-283 Air-Tight requirements
- Certified to the high efficacy requirements of California Title 24 JA8-2022 (when used with compatible downlights)
- RoHS compliant



PRODUCT IMAGES & DIMENSIONS



4- $\frac{3}{8}$ "
Ceiling Cut-out



4" Shallow IC Air-Tight LED Dedicated New Construction Housing

Housing Type

NHIC-427LMRAT = 4" Shallow IC Air-Tight Housing, 120/277V input (120V Triac/ELV dimming)

NHIC-427LMRAT/277 = 4" Shallow IC Air-Tight Housing, 277V input with step down transformer

Example: **NHIC-427LMRAT** = 4" Shallow IC Air-Tight LED Dedicated New Construction Housing, 120V input