

NHIC-427LMRAT

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

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|-------------|
| 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 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 13-3/4" to 24-1/2" 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 box with three 1/2" trade size knockouts, one 3/8" trade size knockout, one 3/4" trade size knockout 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.

Romex Strain Relief: Junction box includes two Romex tabs with two slots at each tab for NM-cables of 12/2 to 14/2. The strain relief allows for easy installation and less materials.

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

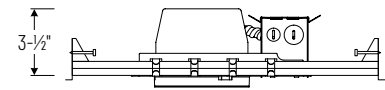
- [NOX-431](#) = Onyx Round Reflector (Wet Listed)
- [NOX-432](#) = Onyx Round Baffle (Wet Listed)
- [NOXAC-431](#) = AC Onyx Round Reflector (Wet Listed)
- [NOXAC-432](#) = AC Onyx Round Baffle (Wet Listed)
- [NOXAC-436](#) = AC Onyx Square Reflector (Wet Listed)
- [NOXTW-431](#) = Onyx TW Round Reflector (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

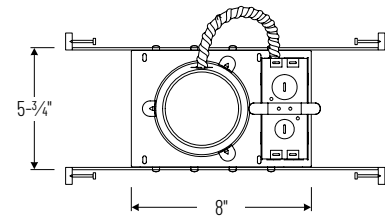
- cULus Listed for damp location & feed through (Wet Location when used with compatible downlights)
- ENERGY STAR certified
- Meets or exceeds ASTM-283 Air-Tight requirements
- Certified to the high efficacy requirements of California Title 24 JA8-2022 (when used with compatible downlights)
- RoHS compliant



PRODUCT IMAGES & DIMENSIONS



4-3/8"
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