

## NHIC-6LMRAT

6" IC Air-Tight LED Dedicated New Construction Housing  
(Compatible with Cobalt / Marquise / Onyx / PRISM)

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

- IC Air-Tight energy saving by reducing the flow of air through the ceiling
- Rated for direct contact with insulation
- cULus listed for damp location and through branch circuit wiring

### CONSTRUCTION

**Plaster Frame:** High quality 0.04" steel die cut one piece frame.

**Housing:** 0.040 aluminum housing with riveted cap adjusts to a maximum ceiling thickness of 1-3/4". Spring brackets accept torsion wing trim springs; slots on socket plate surface accept standard coil springs.

**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. 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 allow for easy installation in a suspended ceiling.

**Junction Box:** Prewired 25 cubic inch 0.064" thick galvanized steel, with seven 1/2" trade size knockouts and 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

**Socket:** Quick connect for LED luminaires

**Operating Temperature:** 122°F (50°C) max.

**Dimming:** Specified by luminaire

### COMPATIBILITY

[NRM-61](#) - 6" Marquise I Reflector

[NRM-62](#) - 6" Marquise I Baffle

[NRM-61](#) - 6" Marquise II Reflector

[NRM-62](#) - 6" Marquise II Baffle

[NLC-6](#) / [NLC-6](#) - 6" Cobalt Series

[NOX-56](#) / [NOX-56](#) / [NOX-56](#) - 5"6" Onyx Series

[NOX-636](#) - 6" Onyx Square Reflector

[NLPR-5641](#) - 5"6" PRISM Reflector

[NLPR-5642](#) - 5"6" PRISM Baffle

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

Optional 50W step down transformer installed (NHIC-6LMRAT/277). Maximum of 6 no. 12 AWG through branch circuit conductors in junction box.

**Emergency:** Housing can be specified with an emergency battery installed on frame (Cobalt only). Requires top access.

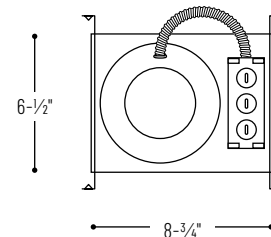
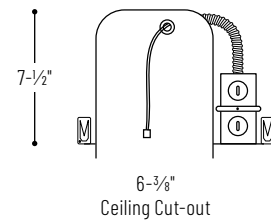
- Up to 7.5W emergency illumination with LEDs
- Illumination Time: 90min
- Voltage: 120/277 VAC, 60Hz
- Output Voltage: 15.0-50.0 VDC
- Remote test switch included

### LABELS AND LISTINGS

- cULus Listed for Damp Location (wet location when used with compatible reflectors)
- Meets or exceeds ASTM-283 Air-Tight requirements
- Certified to the high efficacy requirements of California Title 24 JA8-2019
- RoHS compliant



### PRODUCT IMAGES & DIMENSIONS



## 6" IC Air-Tight LED Dedicated New Construction Housing

Catalog No.

**NHIC-6LMRAT** = 6" IC Air-Tight Housing, 120/277V input (120V Triac/ELV dimming)

**NHIC-6LMRAT/277** = 6" IC Air-Tight Housing, 277V input with 50W Step Down Transformer

**NHIC-6LMRAT/EM** = 6" IC Air-Tight Housing with Emergency Battery and Remote Test Switch, 120/277V input (Cobalt only - EM required)

**NHIC-6LMRAT/277EM** = 6" IC Air-Tight Housing with Emergency Battery and Remote Test Switch, 277V input with 50W Step Down Transformer (Cobalt only - EM required)

**NHIC-6LMRAT/4W** = 6" IC Air-Tight Housing, 120/277V input (120V Triac/ELV/0-10V & 277V 0-10V dimming, Cobalt only - LE4 required)

**NHIC-6LMRAT/6WEM** = 6" IC Air-Tight Housing with Emergency Battery and Remote Test Switch, 120/277V input (120V Triac/ELV/0-10V & 277V 0-10V dimming, Cobalt only - LE4EM required)

Example: **NHIC-6LMRAT** = 6" IC Air-Tight LED Dedicated New Construction Housing, 120/277V input