![L-com an INFINITe brand logo]

# 18"x16"x8" 120 VAC Industrial Enclosure with User Adjustable Cooling Fan & Heater
## Model: NB181608-1HFA2

### Applications

- Remote Wireless LAN WiFi equipment installations
- Indoor and outdoor installations
- Rapid Deployment installations
- Corrosive environments
- Security and surveillance equipment installations

### Features

- Molded fiberglass reinforced polyester (FRP) enclosure with integral mounting flanges
- Fully gasketed lid with stainless steel quick release latches with padlock hasps
- NEMA Type 3R, 3RX / IP24 rated
- Features aluminum mounting plate with surge protected duplex 120 VAC outlets
- Heating and cooling system with user adjustable thermostat



### Description

The NB181608-1HFA2 is a rugged weatherproof enclosure that is ideal for both indoor and outdoor applications. Constructed from molded halogen free self extinguishing fiberglass reinforced polyester (FRP), it is well suited for high temperature or corrosive environments. The integral mounting flange allows it to be wall mounted as well as on a flat surface without the need for extra mounting hardware. The fully gasketed lid features a stainless steel continuous hinge and stainless steel quick release latches with padlock hasps.

The light grey color of the NB181608-1HFA2 is cleaner, cooler and aesthetically pleasing. Users can enjoy the physical benefits of better heat reflection and better UV resistance due to the lighter color. The contoured body provides an attractive and contemporary appearance. Due to the large size of this enclosure, it can accommodate dual sets of most access points.

**120 VAC Mounting Plate with Lightning Protection**

The aluminum mounting plate features standard surge protected duplex 120 VAC outlets and a terminal block for easy hook up to the externally provided line power. In addition, the unit can accept up to two optional bulkhead-mount N-Type lightning protectors to protect the coaxial cable runs.

### Hot and Cold Environments

To help ensure trouble-free operation of electronic equipment, proper operating temperatures inside an enclosure needs to be maintained. With the built-in Heater and Cooling system, internal temperatures can be better maintained. This model is ideal in Hot and Cold environments.
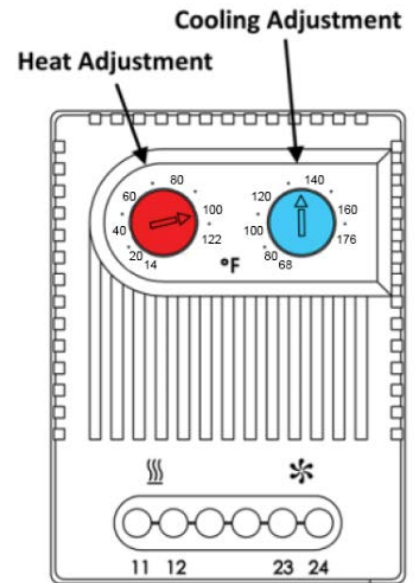
The NB181608-1HFA2 includes two thermostat-controlled 200W (400W total) heaters. The heaters do not require the use of any of the AC outlets, leaving them all available for your equipment. No extra room for the heaters is required since they are mounted underneath the mounting plate.

For cooling, the two thermostat-controlled 12W (24W total) high airflow, low noise fans allows air to be pushed or pulled through the enclosure. Filters for both ports are easily removable for cleaning and replacement. Like the heaters, the cooling fans do not require the use of any of the AC outlets, leaving them all available for your equipment.

### User Adjustable Thermostat

The 1HFA2 series features an adjustable thermostat that incorporates two separate thermostats, allowing the independent control of heating and cooling. The thermostat provides a temperature range of +14°F to +122°F for the heating and +68°F to +176°F for the cooling systems.

The heat thermostat features a Normally Closed (NC) circuit. When the temperature rises to the temperature set on the heat adjustment dial the circuit opens which turns off the heaters. When the temperature falls below the temperature set on the heat adjustment dial the circuit closes which turns on the heaters.

The cooling thermostat features a Normally Open (NO) circuit. When the temperature rises to the temperature set on the cooling adjustment dial the circuit closes which turns on the cooling fans. When the temperature falls below the temperature set on the cooling adjustment dial the circuit opens which turns off the cooling fans.

| HEATER SETTING RANGE | | COOLING FAN SETTING RANGE | |
|---|---|---|---|
| NC – OPEN ON RISE | +14°F TO +122°F | NO – CLOSE ON RISE | +68°F TO +176°F |
| Switching Difference: 12°F ±7°F tolerance | | | |

<<<<<<   **Warning**   >>>>>>
**Recommended Temperature Setting for the Heater Portion of the thermostat should only be between 14⁰ to 40⁰F**
**Recommended Temperature Setting for the Fan Portion of the thermostat should only be between 80⁰ to 120⁰F**
**Setting the Heater setting too high and the Fan setting too low can result in a conflict between the two halves wherein the unit might try to continue to heat while simultaneously trying to cool it.**

## Optional Pole Mounting Kits

Available on the L-com web site, these optional kits allows the enclosure to be mounted on poles ranging from 1.2 to 11 inches in diameter.

### Specifications

| | |
|---|---|
| **Enclosure Material** | Halogen free, self-extinguishing fiberglass reinforced polyester (FRP) |
| **Enclosure Color** | Light Grey (RAL7035) |
| **Voltage** | 120 VAC |
| **Fan Power** | 12 Watt (24 Watt total) |
| **Heater Power** | 200 Watt (400 Watt total) |
| **Weight** | 21.8 lbs. (9.9 kg) |
| **Mounting Plate Material** | .10″ (2.5mm) Thick Anodized Aluminum |
| **Mounting Plate Dimensions** | 16.8 x 14.8 in. (426 x 375 mm) |
| **Outside Dimensions (max)** | 19.5 x 17.5 x 10.0 in. (495 x 444 x 254 mm) |
| **Inside Dimensions** | 17.7 x 15.7 x 8.5 in.  (449 x 399 x 216 mm) |
| **Flame Rating** | UL 94-5V |
| **RoHS Compliant** | Yes |
| **Cable Feed** | 1/2″ Cable Conduit Connector |
| **Ratings** | NEMA 3R, 3RX / IP24 |