

NFC DC Series A/C Enclosures

Altelix DC Powered Air-Conditioned Enclosures - Fiberglass FRP
Weatherproof NEMA 4X Rated, 12VDC, 24VDC, 48VDC



Features

- Provide equipment cooling while maintaining NEMA 4X /IP66 protection
- 360 BTU air conditioning system with programmable digital temperature controller
- Externally mounted A/C unit to maximize interior space
- Maintenance free A/C with no moving components, no compressor, refrigerant or filters
- Reliable solid state construction with long life span
- Digital controller features programmable Under/Over temperature alarms
- Available for **12VDC, 24VDC** or **48VDC** applications
- Heavy duty fiberglass reinforced polyester (FRP) construction
- Meets NEMA 1, 2, 4, 4X, 12, 13, and IP65, IP66
- Includes equipment mounting plate
- Enclosure features 1/2" thick interior insulation to help maintain internal temperatures
- Dual quarter-turn door latches with removable keys
- (4) mounting feet included
- Optional wall and pole mounts available

Description

The **Altelix NFC Series DC Powered Heated and Air Conditioned Weatherproof NEMA 4X Enclosures** are ideal for protecting sensitive equipment from harsh environments and tampering. The digitally controlled air conditioning system helps maintain optimal internal temperatures so internally mounted equipment can operate at peak performance. This enclosure is designed for both indoor and outdoor applications. Available in **12VDC, 24VDC** or **48VDC** models, this enclosure can be powered from DC solar and battery power sources.

Maintenance Free Air Conditioning System - The NFC DC Series features a digitally controlled air conditioning system. Mounted externally on the enclosure to maximize interior space, this system provides 360 BTU of cooling. Operation of this system is done via a programmable digital temperature controller. Air conditioning Turn-On/Turn-Off temperatures can be programmed within a set range temperature set by the user. The entire system is housed in a rugged powder coated steel housing and is mounted to the side of the enclosure. An external drain on the A/C unit is provided to direct any condensation to outside the enclosure.

Designed to be maintenance free, this air-conditioning system features no moving components (except for fan), no compressor, refrigerant or filters to be changed. Reliable solid-state construction ensures a long operational life span.

Thermal Insulation - To help maintain internal temperatures, this enclosure features 0.50 inch (12.7mm) thick insulation attached to the interior of the enclosure.

Enclosure Construction and Features - This rugged 4X IP66 rated enclosure is molded from durable and UV resistant fiberglass reinforced polyester (FRP). The lockable gasketed door features reinforced hinges and dual quarter-turn latches to secure the enclosure and is locked and unlocked using the included removable keys. A drip rail over the door provides additional protection against water dripping into the cabinet while the enclosure is wet.

Aluminum Equipment Mounting Plate - A 0.10 inch (2.2 mm) thick aluminum plate is provided for mounting and securing equipment.

Mounting - Four mounting feet are included so that the enclosure can be securely mounted to a wall or other structure. For pole mounting Altelix has optional pole mount kits available.

Cable Glands - The enclosure features our unique PG-16 cable glands with a closed inner seal. They are installed in the open ports to maintain the NEMA rating of the enclosure when not in use. When required for use, simply punch a hole through the inner membrane, run your cables and tighten for a water-tight seal.

Product Photos



16x16x8
24VDC Powered Model Shown

Product Photos



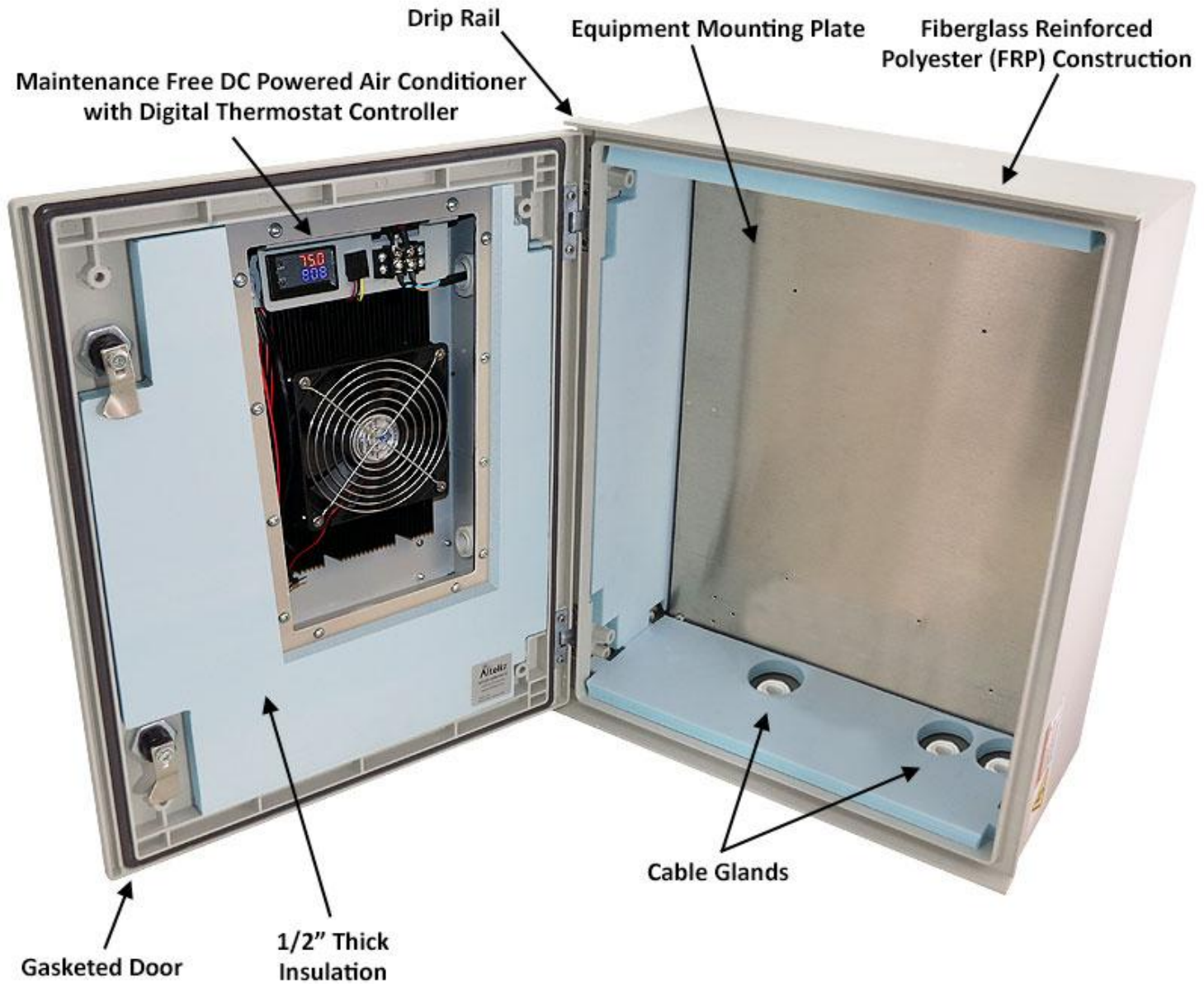
20x16x8
12VDC Powered Model Shown

Product Photos



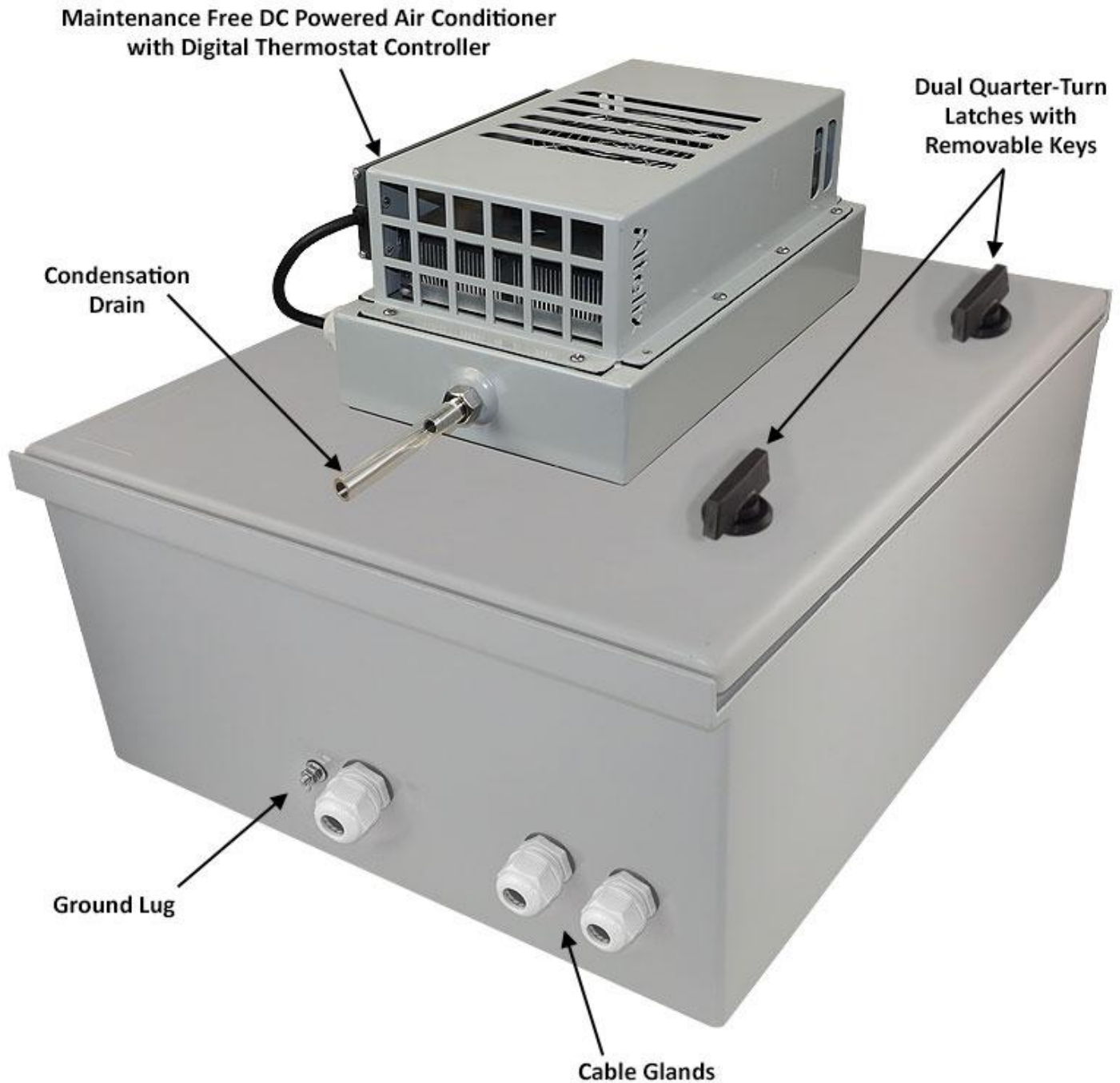
24x16x9
48VDC Powered Model Shown

Product Photos



NFC201608D1-AZ (12VDC) Shown

Product Photos



Product Photos



Specifications – NFC161608Dx-AZ / 16x16x8

Enclosure Specifications – NFC161608Dx-AZ

Material	Fiberglass Reinforced Polyester
Color	Light Gray
Environmental Ratings	NEMA 4, 4X / IP66
Insulation Factor	R-2
Equipment Plate Material	0.10 in (2.5 mm) Aluminum
Equipment Plate Dimensions	13.7 x 13.6 in. (348 x 345 mm)
Exterior Dimensions - Including A/C (Height x Width x Depth)	15.7 x 15.8 x 13.6 Inches (398 x 402 x 346.7 mm)
Interior Dimensions* (Height x Width x Depth)	10.6 x 14.3 x 6.1 Inches (270 x 364 x 156 mm)
Total Weight	27.5 lbs. (12.4 kg)

A/C Unit Specifications

A/C Cooling Capacity	360 BTU/h
Available A/C Unit Input Voltages & Current Draw at Rated Voltage (max.)	12VDC / 16A (Model NFC161608D1-AZ) 24VDC / 8A (Model NFC161608D2-AZ) 48VDC / 4A (Model NFC161608D4-AZ)
Digital Controller Temperature Set Range	14F° (-10C°) to 120F° (60C°)
Sound Level	44dB(A)

Specifications – NFC201608Dx-AZ / 20x16x8

Enclosure Specifications – NFC201608Dx-AZ

Material	Fiberglass Reinforced Polyester
Color	Light Gray
Environmental Ratings	NEMA 4, 4X / IP66
Insulation Factor	R-2
Equipment Plate Material	0.10 in (2.5 mm) Aluminum
Equipment Plate Dimensions	13.7 x 17.9 in. (348 x 455 mm)
Exterior Dimensions - Including A/C (Height x Width x Depth)	19.7 x 15.8 x 13.6 Inches (500 x 402 x 346.7 mm)
Interior Dimensions* (Height x Width x Depth)	14.2 x 14.2 x 6.1 Inches (362 x 362 x 156 mm)
Total Weight	29.2 lbs. (13.2 kg)

A/C Unit Specifications

A/C Cooling Capacity	360 BTU/h
Available A/C Unit Input Voltages & Current Draw at Rated Voltage (max.)	12VDC / 16A (Model NFC201608D1-AZ) 24VDC / 8A (Model NFC201608D2-AZ) 48VDC / 4A (Model NFC201608D4-AZ)
Digital Controller Temperature Set Range	14F° (-10C°) to 120F° (60C°)
Sound Level	44dB(A)

Specifications – NFC241609Dx-AZ / 24x16x9

Enclosure Specifications – NFC241608Dx-AZ

Material	Fiberglass Reinforced Polyester
Color	Light Gray
Environmental Ratings	NEMA 4, 4X / IP66
Insulation Factor	R-2
Equipment Plate Material	0.10 in (2.5 mm) Aluminum
Equipment Plate Dimensions	13.6 x 21.8 in. (345 x 554 mm)
Exterior Dimensions - Including A/C (Height x Width x Depth)	23.7 x 15.8 x 14.7 Inches (602 x 401 x 374.6 mm)
Interior Dimensions* (Height x Width x Depth)	18.5 x 14.2 x 7.2 Inches (470 x 362 x 184 mm)
Total Weight	34.7 lbs. (15.7 kg)

A/C Unit Specifications

A/C Cooling Capacity	360 BTU/h
Available A/C Unit Input Voltages & Current Draw at Rated Voltage (max.)	12VDC / 16A (Model NFC241609D1-AZ) 24VDC / 8A (Model NFC241609D2-AZ) 48VDC / 4A (Model NFC241609D4-AZ)
Digital Controller Temperature Set Range	14F° (-10C°) to 120F° (60C°)
Sound Level	44dB(A)