

**FC Series - NEMA 3R
outdoor enclosures with
UL Listed fans, filters, and
thermostats**

BW-124-8-FC

24"W x 24"H x 8"D with a
115V, 131 cubic-foot/min.
fan and thermostat

BW-124FC

24"W x 24"H x 12"D with a
115V, 300 cubic-foot/min. fan
and thermostat

BW-136FC

24"W x 36"H x 12"D with a
115V, 300 cubic-foot/min. fan
and thermostat

BW-RACKFC

22"W x 12RU H x 24"D with a
120V, 300 cubic-foot/min. fan,
thermostat, and an internal 19"
rack

BW-FC16147

16"W x 14"H x 7"D
non-metallic, with a 115V, 81 cubic-
foot/min. fan and thermostat

BW-FC181610

18"W x 16"H x 10"D
non-metallic, with a 115V, 81 cubic-
foot/min. fan and thermostat

NEW BW-FC20168

20"W x 16"H x 8"D
non-metallic, with two 115V, 81
cubic-foot/min. fans and thermostat

BW-FC242410

24"W x 24"H x 10"D
non-metallic, with two 115V, 81
cubic-foot/min. fans and thermostat

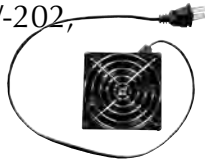



**"FC" Series
include fans**



Add a "W" at the end of
these part numbers for
an optional window in
the door.

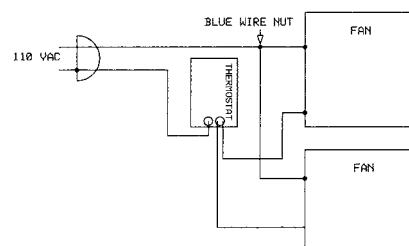
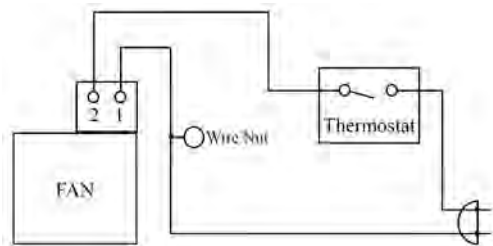


Accessory Fans for Enclosures

- * **BW-120V FAN** - 80mm, 115-Volt AC, 3.25 x 3.25 x 1.5, 50/60HZ, 9 Watt, continuous-duty fan used on Mier's NEMA 1 INDOOR NVR/DVR Lockboxes such as the BW-200, BW-201, BW-202, BW-224, BW-225, BW-230, BW-235, BW-240, BW-244, etc. 
- * **BW-12V FAN** - 80mm, 12-Volt DC, 3.25 x 3.25 x 1.0, 0.3 Amp, continuous-duty fan. These can be interchanged with any of the models using the BW-120VFAN above for applications needing 12V DC operation.
- * **BW-F81 FAN** (formerly the BW-F41)- 120mm, 115-Volt AC, 4.75 x 4.75 x 1.0, 50/60HZ, .15 Amp, 14-Watt, 81 cubic-foot-per-minute continuous-duty fan used on Mier's NEMA 3R outdoor NON-METALLIC enclosure line with models including the BW-FC16147, BW-FC181610, BW-FC20168, BW-FC242410, etc. These models also come with a thermostat for the fan (see wiring diagram below) 
- * **BW-F131 FAN** - 120mm, 115-Volt AC, 4.75 x 4.75 x 1.5, 50/60HZ, .18 Amp, 22-Watt, 110 cubic-foot-per-minute continuous-duty fan used on Mier's NEMA 3R outdoor BW-1248FC. This model also comes with a thermostat for the fan (see wiring diagram below) 
- * **BW-F300 FAN** - 172mm, 115-Volt AC, 6.75 x 6.00 x 2.0, 50/60HZ, .40 Amp, 50-Watt, 300 cubic-foot-per-minute continuous-duty fan used on Mier's NEMA 3R Large Outdoor Metal enclosure line with models including the BW-124FC, BW-136FC, and BW-RACKFC. These models also come with a thermostat for the fan (see wiring diagram below). These are also used on Mier's indoor NEMA 1 Rack Enclosures such as the BW-RACKBOX and BW-RACKCART. 

NOTE: Mier also offers 12V, 24V, 48V, and 230V DC versions of the fans above.

Wiring Diagrams for hooking one or two fans up to a Mier BW-THERMFC thermostat for fans



Installation Instructions

Mier Products' Non-Metallic, Fan-Ventilated, NEMA 3R, Enclosures



NOTE: These "FC" fan-cooled units simply exchange internal air for the external air. Therefore, **Fan-Cooled models are not recommended for high-temperature or low temperature environments.** Because these units pull external air into the enclosure through a filtering system, they do not meet the NEMA 4 standards of Mier's air-conditioned and heated models (ACE or ACHT). However, they are designed to NEMA 3R specifications. Therefore, **Fan-Cooled models are not recommended for applications where internal components need to be protected from wash down conditions. When using these models you must keep the filters clean and must not block the fan, air intake, or air-flow with items mounted inside the enclosure.** If your installation is in warmer or cooler exterior or interior temperatures than these, if your internal heat load is greater, or if you are installing in a coastal or highly corrosive area call Mier Products for advice on our other models. **Mier recommends only installing units with clear doors in shaded areas;** as interior temperatures of these units reach 20° higher than units without windows or clear doors.

See the Warranty & Return Policy shipped with this enclosure. Warranty protection and information for each component such as fans, filters, and thermostats are provided by their respective OEMs.

- This enclosure is properly installed when the top & bottom mounting ears are flush against the wall and held securely with appropriate bolts, and the hinges face to the left side after the enclosure has been mounted on the wall
- Watertight fittings must be used on all openings.
- The door-gasket around the opening of the enclosure must remain in place and never be removed or altered.
- The fans and shrouds must be mounted using the appropriate pre-cut holes on the enclosure, and strictly following OEM installation guidelines.
- **If you have ANY questions regarding the installation of these products, call Mier Products at 1-800-473-0213**

Your Fans have been placed in a carton and stored inside the enclosure for shipment to protect them. Please CAREFULLY remove them along with the Shrouds, Filters and Hardware and place them aside for installation. Please read the other side of this page for installation instructions. If you have any questions please call Mier Products at 1-800-473-0213 between 8am and 5pm EST.



1-800-473-0213 | www.mierproducts.com



Wireless Vehicle Detection | Driveway Alarms | Drive-Up Window Detection | Buried Sensor Systems | Instrument Boxes | DVR/CPU Lockboxes
NEMA Enclosures | Outdoor Enclosures | Temperature Controlled Enclosures | UL/NEMA Non-Metal Enclosures | Rack Enclosures, Shelves,
and Drawers | Siren/Speaker Cabinets | Bell Boxes | Structured-Wiring Flush-Mount Cabinets | Power Supply Boxes | Battery Cabinets
Transformer Covers | Custom Fabrication, Powder Coat, and Screening

Mounting Examples for Mier Products'

TEMPERATURE CONTROLLED ENCLOSURES



Mounted inside the gate-house at a gated community



Wall-mount



Using metal tubing or angle-iron and a concrete slab



Using metal tubing and angle-iron



Along a gate using metal tubing to run wiring from one enclosure to another



Rack Enclosure mounted on a wall



Installer made mounting surface



Pole-Mount Kits available for our enclosures to be mounted on 4" to 14" poles. Call us and specify the enclosure you want to use, and the pole size, for help choosing the correct pole-mount kit.

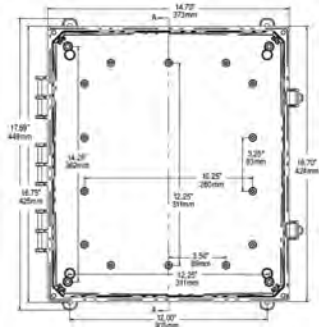


NOTE: Do Not Mount On Apartment/Condo/Office Walls

Home and office AC units are mounted a few feet away from a home or on the roof of an office building in order to avoid vibration noise from becoming a nuisance to those who live/work within. For that same reason, Mier recommends installers mount our temperature-controlled enclosures on concrete slabs with angle-iron or poles as pictured, or on walls that are not common to living or office space.

Our engineers recommend the following options around **RGS fittings** in holes installers might cut into the enclosures, in order to keep NEMA ratings:

- If not using conduit or flex-cable, and running your cords directly into the enclosure, we recommend drilling your holes in the bottom of the enclosure and using a Heyco fitting appropriate for your specific cord size, and able to fit in our 3/16" enclosure wall thickness. These fittings can be found at: http://www.heyco.com/Liquid_Tight_Cordgrips/index.cfm
- If you are using conduit or flex-cable, we recommend drilling your holes in the bottom of the enclosure and using an appropriate fitting such as:
 - SealCon DS21AA-BK = 3/4" Liquid-Tight Conduit Fitting with DOUBLE Lock - <http://www.sealconusa.com/conduit/product/double-seal.html>
 - SealCon ST21NA-BK = 3/4" Liquid-Tight Conduit Fitting with SINGLE Lock - <http://www.sealconusa.com/conduit/product/condsttwist-npt.html>
 - McMaster Carr 7119K13 = 3/4" Liquid-Tight Conduit Fitting/Heavy-Duty - <http://www.mcmaster.com/#7119k13/=vg864m>



Back of BW-SL16147
and BW-FC16147 with
mounting brackets
attached.

