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# TEMPERATURE CONTROLLED ENCLOSURES

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## **BW-124-8-ACHT**

24"W x 24"H x 8"D with an  
800 BTU AC unit and 150W Heater

## **BW-124-8-ACHTW**

(PICTURED)

Same as above with window in door



## **BW-124-8-ACHTW**

(PICTURED)

24"W x 24"H x 12"D with a  
2000 BTU AC unit and 500W Heater

## **BW-124-8-ACHTW**

Same as above with window in door



## **BW-136-8-ACHT**

(PICTURED)

24"W x 36"H x 12"D with a  
2000 BTU AC unit and 500W Heater

## **BW-136-8-ACHTW**

Same as above with window in door

*These models are also available as NEMA 3R enclosures with fans instead of AC/Heater units, or as NEMA 4 enclosures only (no AC, heater or fan), or with a 400 watt heater blower for applications needing heat but no AC or air flow.*

**LISTINGS: ENCLOSURE:** NEMA Type 4 standards 250-1997 (1000V max.) **AC/HEATER:** UL/CUL-SA6453, NEMA 4  
**PAINT:** UL1332, NEMA 4 **GASKET:** UL50, UL844, NEMA 4, FMVSS302 **TAMPER SWITCH:** UL Pending

**STANDARD FEATURES ON ALL MIER PRODUCTS' TEMPERATURE CONTROLLED MODELS:** Outdoor NEMA Type 4 \* UL listed AC/Heater/Thermostat \* Air Filter \* Removable Door with Tubular Lock and Two 1/4-Turn Latches \* Removable Back Panel \* Outdoor Gray Paint \* Interior Water Channel and Gasket \* Exterior Mounting Brackets \* Literature Tray with Key Tabs \* Tamper Switch \* Ground Stud

**NOTE:** To keep UL Listings and NEMA 4 Rating, installers must strictly follow OEM installation instructions and use water-tight fittings on all openings.



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Wireless Vehicle Detection | Driveway Alarms | Drive-Up Window Detection | Buried Sensor Systems | Instrument Boxes  
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# Temperature Controlled and NEMA 4 Enclosures

## Part Numbers and Descriptions

### BW-124ACHT



*Shown with AC/Heater unit, tamper switch, literature tray with key tags, 1/4-turn latches, and tubular lock*

#### **BW-124ACHT (temperature controlled enclosure)**

- ◆ Outdoor NEMA Type 4 Enclosure
- ◆ **24"W x 24"H x 12"D** with a removable 22"W x 22"H back panel
- ◆ UL listed, NEMA Type 4 - **2000 BTU AC Unit with 500 Watt Heater**
- ◆ Made of durable 16 gauge steel
- ◆ Includes air-filter and thermostat with variable control
- ◆ Holes, mounts, and gaskets pre-cut for mounting the AC/Heater unit
- ◆ Tamper Switch with NC and NO contacts and mounting studs
- ◆ Outdoor gray paint
- ◆ Interior water channel with a UL listed gasket for added protection
- ◆ Exterior mounting brackets with holes on top and on bottom
- ◆ Removable door with a tubular lock and two 1/4-turn latches
- ◆ Interior literature tray and key tabs
- ◆ Grounding stud

**BW-124ACHTW** is the same as the BW-124ACHT but with a window in the door

**BW-124BP** is the NEMA 4 enclosure only (no AC/Heater unit included)

**BW-124BPW** is the BW-124BP with a window in the door

### BW-136ACHT



*Shown with AC/Heater unit, and door removed*

#### **BW-136ACHT (temperature controlled enclosure)**

- ◆ Same features as the BW-124ACHT (listed above), but **taller**
- ◆ **24"W x 36"H x 12"D** with a removable 22"W x 34"H back panel
- ◆ UL listed, NEMA Type 4 - **2000 BTU AC Unit with 500 Watt Heater**

**BW-136ACHTW** is the same as the BW-136ACHT but with a window in the door

**BW-136BP** is the NEMA 4 enclosure only (no AC/Heater unit included)

**BW-136BPW** is the BW-136BP with a window in the door

### BW-124-8-ACHTW



*Shown with AC/Heater unit, and door with window*

#### **BW-124-8-ACHT (temperature controlled enclosure)**

- ◆ Same the BW-124ACHT (listed above), but **thinner and with a smaller AC unit and heater**

- ◆ **24"W x 24"H x 8"D** with a removable 22"W x 22"H back panel
- ◆ UL listed, NEMA Type 4 - **800 BTU AC Unit with 150 Watt Heater**

**BW-124-8-ACHTW** is the same as the BW-124-8-ACHT with a window in the door

**BW-124-8-BP** is the NEMA 4 enclosure only (no AC/Heater unit included)

**BW-124-8-BPW** is the BW-124-8-BP with a window in the door

#### **Accessories:**

**BW-ACH800** - 800 BTU AC with 150W Heater & thermostat  
(Standard on BW-124-8-ACHT)

**BW-ACH2000** - 2000 BTU AC with 500W Heater & thermostat  
(Standard on BW-124ACHT and BW-136ACHT)

**BW-TSW** - Plunger Tamper Switch with NC and NO contacts  
(Standard on all ACHT units)

**BW-124PO** - 22" W x 22"H back panel  
(Standard on BW-124 ACHT, BW-124BP, BW-124-8ACHT, BW-124-8BP)

**BW-136PO** - 22"W x 34"H back panel  
(Standard on BW-136ACHT & BW-136BP units)



**Installation Instructions and Warranty & Return Information  
for Mier Products' Temperature Controlled Enclosures  
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**URGENT!**  
The AC UNIT which accompanies this enclosure **MUST BE KEPT IN THE UPRIGHT POSITION AT ALL TIMES,** and handled with the utmost care during shipping, storage, and installation. The AC UNIT must be mounted to the enclosure using the pre-cut holes and supplied gaskets. The AC UNIT must be installed in the upright position, and following OEM instructions in order to maintain NEMA rating.

**ATTENTION:  
WATERTIGHT FITTINGS  
MUST BE USED**  
on all openings. When installed properly per OEM's specs:  
\* Enclosure meets **NEMA 4** Standards 250-1997 (1000 volts maximum)  
\* Paint meets **NEMA 4, UL-1332**  
\* Gasket meets **NEMA 4, UL-50, UL-844, & FMVSS302 - Flammability & Code Compliance**  
\* Tamper Switch is **UL Pending**

**With an internal heat load of 200 watts:**

- \* When Mier's recommended 2000BTU AC Unit with internal 500W Heater is installed and functioning properly, the **BW-124ACHT** is capable of maintaining an 80° F internal temperature (+/- 3° F) up to an outside temperature of 135° F, and maintain a preset temperature (+/- 3° F) up to a maximum of 60° F internal temp down to an outside temp of -40°F.
- \* When Mier's recommended 2000BTU AC Unit with internal 500W Heater is installed and functioning properly, the **BW-136ACHT** is capable of maintaining an 80° F internal temperature (+/- 3° F) up to an outside temperature of 125° F, and maintain a preset temperature (+/- 3° F) up to a maximum of 60° F internal temp down to an outside temp of -20°F.

**With an internal heat load of 100 watts:**

- \* When Mier's recommended 800BTU AC Unit with internal 150W Heater is installed and functioning properly, the **BW-124-8-ACHT** is capable of maintaining an 80° F internal temperature (+/- 3° F) up to an outside temperature of 125° F, and maintain a preset temperature (+/- 3° F) up to a maximum of 40° F internal temp down to an outside temp of -20°F.
- \* **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 special order units.**
- \* **Mier recommends only installing units with window in shaded areas; as interior temps of these units reach 20° higher in direct sunlight than units without windows.**

**When NEMA Type 4 Enclosures are installed correctly** they may be used either indoors or outdoors, they provide a degree of protection to personnel against incidental contact with the enclosed equipment, and they provide a degree of protection for the equipment within from windblown dust, splashing water, hose-directed water, rain, sleet, snow, ice, & dirt.

- 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 provided around the opening of the enclosure must remain in place and never be removed.
- The AC/Heater unit must be mounted with the provided gaskets installed between the AC/Heater unit and the enclosure, using the appropriate pre-cut holes on the enclosure, and strictly following the AC unit's OEM installation guidelines. Once attached, these AC/Heater gaskets must also remain in place and never be removed
- The tamper switch should be mounted on the studs at the top of the enclosure
- **If you have ANY questions regarding the installation of these products, call Mier Products at 1-800-473-0213**

**Power:**

Mier's Temperature Controlled Enclosures are completely sealed with no knockouts or holes in the enclosure, with the exception of the holes pre-punched for mounting the AC/Heater unit. Once installed correctly, the power cords for the AC unit and the heater are within the enclosure. Thus, the installer/electrician is responsible for getting power inside the enclosure. It is up to the installer to cut, and properly install with water-tight fittings, any holes needed to run power within or run cables out of these enclosures.

Both the AC unit and the heater get their power from **AC 115V, 60hz**. Mier recommends the installer/electrician run power into the box via flexible or rigid conduit to outlet boxes mounted within the enclosure. Usual wiring is #12 AWG standard house wiring to a quad outlet box.

**Connection Type:**

The AC/Heater unit has a standard 3-prong NEMA 5-15P plug  
The tamper switch connects to the standard low-voltage alarm circuit



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# Installation Instructions and Warranty & Return Information for Mier Products' Temperature Controlled Enclosures

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**\*\*\*\*\* AC/Heater Units Must be kept upright at all times or damage to cooling system will result \*\*\*\*\***

**2000BTU & 800BTU AC Units** with compressor coil heater and thermostats with variable controls for both cooling or heating

- \* Power: 115V, 60hz
- \* Amp Draw: 2000 BTU draws 7 amps with initial start-up spike of 17.5 amps.  
800 BTU draws 3.8 amps with initial start-up spike of 8.5 amps.
- \* Dimensions: 2000 BTU unit is 10"W x 20"H x 10"D ---- Weight: 63 lbs  
800 BTU unit is 7.5"W x 15.75"H x 7.25"D ---- Weight: 27 lbs
- \* Mounts: Slips into pre-punched holes on enclosure (Note: install gasket first)
- \* Min/Max Temp: -40/131 degrees F (-40/55 degrees C)
- \* Maintenance: Clean the air filter every six months.

### **500 Watt & 150 Watt Heaters**

- \* Power: 115V, 60hz
  - \* Amp Draw: 500 watt heater draws 4.5 amps  
150 watt heater draws 1.5 amps
- Tamper Switch -** Plunger style includes both NC and NO contacts



*Mier's outdoor enclosures are designed to provide a degree of protection against rain, sleet, snow, ice, dirt, and dust.*

### **Warranty Information for enclosures:**

Mier Products, Inc.'s Limited Warranty Program, for Standard Line or Custom Metal Enclosures and Parts, protects the original owner for 30 days from the date of purchase against defects in original parts or workmanship. Mier Products, Inc. agrees to repair or replace parts (Mier's option) that are deemed defective by our Quality Control Team, without charge for parts or labor, if the defective unit is returned prepaid to Mier Products, Inc., Kokomo, IN, 46901, within the 30-day period.

As metal enclosures/parts are not products containing complicated technology or electronics, close inspection at the time of receipt by the customer will quickly determine product quality. Thus, Mier Products, Inc. recommends inspection of enclosures/parts immediately upon receipt and contacting Mier Products, Inc. if quality issues arise.

Mier Products, Inc. does not assume responsibility for claims or damages caused by improper installation or use of these products, accessories, and/or products connected to or stored within them. Mier Products, Inc. does not assume responsibility for damages to these products or their accessories due to shipping damage or damage occurring while in a customer's warehouse and/or possession. These products and any accessories (including but not limited to air conditioning units, heaters, fans, filters, locks, latches, tamper switches, removable panels) must be shipped, handled, stored, and installed with strict adherence to OEM installation instructions.

This warranty constitutes the entire warranty with respect to Mier's Metal Enclosures and Metal Fabricated Parts and IS IN LIEU OF ALL OTHERS, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND IN NO EVENT IS MIER PRODUCTS, INC., OR IT'S OEM PARTNERS, RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER.

Any warranty OR sales questions should be directed to Mier Products at 800-473-0213, or via e-mail to [info@mierproducts.com](mailto:info@mierproducts.com)

### **Warranty Information for Air Conditioner, Heaters, Filters, Fans, or any other OEM Partner Accessories:**

Mier Products, Inc. works closely with reputable OEM Partners to offer accessories for our lines of enclosures and Drive-Alert Vehicle Detection Systems. Those accessories are warranted and supported by their OEM. As an example: Mier Products exclusively uses McLean Thermal air-conditioning units for our Temperature Controlled Enclosures. While the enclosure portion of these units is warranted by Mier Products, Inc., as written above under Metal Enclosures and Metal Fabricated Parts, the AC/Heater unit would be warranted and supported by McLean Thermal.

**An example of McLean Thermal's warranty is attached on the next page and is for example only and the customer must refer to warranties from McLean Thermal and our other OEM partners for the most current and thorough information.**

### **Return Information:**

**Mier Products must be contacted to receive an RMA# PRIOR TO PARTS BEING RETURNED. To receive an RMA#, returnee must provide Mier with the original PO# and date, the part number(s), quantity, and reason for return.**

**Mier Products will accept returns, without penalty, for the following reasons:**

- \* Defects in parts or workmanship due to a manufacturing error of Mier Products (excludes shipping damage and any damages caused by the customer) covered in the limited warranty program listed above. The validity of such defects will be determined by Mier Products once the item has been returned and evaluated by our quality control staff. Such returns will be repaired or replaced, Mier's choice, as quickly as possible.
- **In the case of Temperature Controlled Enclosures, units needing repair are repaired onsite and should not be removed.** In the rare case these units would be returned, the returnee must follow the strict packaging guidelines. **The enclosures and AC Units must be shipped on their own skid, and within the original packaging. REMEMBER: The AC Unit must be kept upright at all times.**

**All other returns, including returns of non-defective parts, will be subject to a minimum 20% re-stocking fee.** This includes all over-stock returns or returns beyond 30 days. Mier Products does not accept "offsetting purchase orders" for return/replacement items. These returned items will be charged the 20% re-stocking fee, and the PO will be processed separately from the returned items. Returns must be shipped at the returnee's expense, in original packaging, and using the same shipping and packaging methods used by Mier Products.

Returns must be free of damage. Mier Products will inspect make the final determination on the condition of the returned item. Any items which appear to be damaged by the customer, or during shipping, will become the customer's responsibility

## Air Conditioner, Heat Exchanger, and Filter Warranty

Mier Products exclusively uses McLean Thermal (Mier's business partner for the heating and cooling systems used in Mier's Temperature Controlled Enclosures) air-conditioners and heating units. The following warranty information was taken from McLean Thermal's warranty policy (10-1008-196 rev 5) for your information. All AC and Heater units come with a McLean Thermal instruction manual with warranty information included. That information, shipped with each McLean Thermal unit, supercedes what is written here:

### **McLEAN THERMAL WARRANTY**

Please note: Warranty effective at time of shipment.

McLean Thermal warrants that all material and workmanship are free of defects in quality which impair the usefulness of the air conditioner or heat exchanger for a period of five (5) years for non-operating parts, except for the filter; and for one (1) year for everything else when installed and operated under the following conditions:

- A. Maximum voltage variation no greater than plus or minus 10% of nameplate nominal rating.
- B. Maximum frequency variation no greater than plus or minus 3 Hz. of nameplate nominal rating.
- C. Must not exceed minimum and maximum stated temperatures on the nameplate.
- D. Not to exceed (BTU/Hr.) rating, including any heat sink, as indicated on the nameplate.
- E. The unit must not be restarted for a period of one (1) minute after intentional or accidental shut-off.  
(This does not apply to heat exchanger or filter fan.)

McLean Thermal warrants that all material and workmanship are free of defects in quality which impair the usefulness of the filter fan package and all custom air conditioners and heat exchangers for a period of one (1) year, except for the filter, when installed and operated under conditions A, B, C and D listed above.

Not covered in this warranty is damage to the air conditioner or heat exchanger due to the introduction of other than the nameplate-designated refrigerant. Operation of any McLean Thermal product that has not been designed with proper protective coatings and/or options and is in an abnormal or corrosive environment voids the warranty. Prolonged operation with dirty filters also voids the warranty.

Should any part prove defective within the above warranty period, the customer may choose to return the defective product that is under warranty to McLean Thermal for repair at no charge or the customer has the option to repair the defective products at his own expense and McLean Thermal will supply repair parts at no charge providing the defective part is returned and found to have failed under warranty. Parts supplied as warranty replacement parts will assume the balance of the warranty on the part returned for warranty consideration.

Please be advised: According to the Federal Register, no person maintaining, servicing, repairing, or disposing of appliances may knowingly vent or otherwise release into the environment any class I or class II substance used as refrigerant.

McLean Thermal assumes no liability beyond the repair or replacement of its own product. Customer modification of any McLean Thermal product voids the warranty.

The purchaser assumes the responsibility of grounding the unit and installing it in accordance with local electrical and safety codes, as well as the National Electric Code (NEC) and OSHA.

This express warranty constitutes the entire warranty with respect to the PRODUCT and IS IN LIEU OF ALL OTHERS, EXPRESSED OR IMPLIED, INCLUDING ANY WARRANTY OR MERCHANTABILITY AND WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND IN NO EVENT IS MCLEAN THERMAL RESPONSIBLE FOR ANY CONSEQUENTIAL DAMAGES OF ANY NATURE WHATSOEVER.

### **HOLD HARMLESS**

In consideration of purchase of equipment from McLean Thermal by a customer, McLean Thermal agrees to indemnify and hold harmless such customer and users with a defense, as to any claim, demand, statutory court cost, fees for attorney's services provided for below, and/or judgement, for actual or alleged patent infringement in any country, arising out of the use, sale or advertisement of any equipment manufactured or sold by McLean Thermal to McLean Thermal's own specifications, provided that the customer or user shall promptly notify McLean Thermal in writing of any such claim or demand, provided further that McLean Thermal shall have the right and option to undertake and control the entire defense of such claim, or demand instituted against the customer or user, but limited to the products made or sold by McLean Thermal, through counsel selected by McLean Thermal, and to settle and pay any claim award arising out of such claim or demand, and provided further that the customer or user will produce such information and assistance as McLean Thermal may request subject to reimbursement by McLean Thermal for any out-of-pocket expense incurred in providing such requested assistance. Liability of McLean Thermal for any infringement or claim thereof shall be limited to the above undertaking.