

BX-902B Enclosure

Weatherproof Mini Shelters for BAM-1020



Met One Instruments, Inc.

Improved shelter performance at an economical price.

The model BX-902B enclosure is a weatherproof outdoor shelter which provides a clean, dry location for the BAM-1020 particulate monitor when a walk-in lab shelter is not practical. The BX-902B series has been updated and redesigned in 2010 to better suit the needs of the current BAM-1020 configurations.

The BX-902B is manufactured by Shelter One, Inc. exactly to Met One Instruments specifications for thermal control, venting, and ruggedness:

- Dual front/rear doors allow easy access.
- Separate, vented pump compartment keeps pump heat out of the main instrument area.
- Full-height rack rails improve mounting rigidity and allow dataloggers or telemetry gear to be easily installed under the BAM-1020.
- Fully welded and preinstalled stand for rapid deployment and maximum strength.
- Thermostat controlled fan aspiration system vents the BAM compartment in warm weather.
- Thermostat controlled heater system warms the BAM compartment in cold weather.
- Optional air conditioned version is available for very hot environments.



Specifications

BX-902B Weatherproof Enclosure

Ambient Temperature Range:	-30 to +40 degrees C. Air conditioner option required above 40C.
BAM Compartment Temperature:	0 to +50 degrees C required for proper BAM-1020 operation.
Installed PM₁₀ Inlet Height:	2.0 meters minimum. Higher with PM _{2.5} cyclone.
Inlet Tube:	2.25' tube included. Custom length tubes up to 4' available.
Enclosure Size (with stand):	26" (66 cm) Wide. 28.5" (72 cm) Deep. 57" (145 cm) High (plus inlet).
Enclosure Weight (empty):	90 lbs (41kg).
Thermostat Range:	10 to 32 degrees C. Aspiration vent fan ON whenever heater is OFF.
Heater:	500 Watt resistive radiator.
Optional Air Conditioner:	1500 BTU. Adds 50 lbs, 12" width. Heater and aspiration fan deleted.
Electrical:	7.5 amps worst case with inlet heater, pump, and shelter heater on.

Other Shelter Models and Options

BX-903 / BX-904 Heavy Duty Temperature Controlled Enclosures

The model BX-903 and BX-904 shelters are heavy-duty air conditioned enclosures manufactured by Ekto Inc. Recommended for very harsh environments, they are larger, heavier, and more expensive than the standard model BX-902B enclosures. These enclosures include reinforced corners, hold-open doors, and heavy duty hardware. Model BX-903 includes a 2000 BTU a/c and model BX-904 includes a 4000 BTU a/c. The internal temperature is regulated to 25 degrees C. These enclosures are usually drop-shipped from the manufacturer, so the 8112-2.25 short inlet tube and 8119 roof seal must be acquired separately from Met One.

BX-906 Dual-Unit Temperature Controlled Enclosures

The model BX-906 enclosure is a dual-unit shelter which accommodates two complete BAM-1020 systems with one meter inlet spacing. BX-906 is used for simultaneous PM₁₀ and PM_{2.5} monitoring or for PM-coarse systems. Includes a 4000 BTU air conditioner and a 25C temperature regulation point. Model BX-906 is more economical than using two single-unit shelters, and provides consistency between the two instruments.

BX-592-1 Room Temperature Sensor

The model BX-592-1 is a room temperature sensor option used to log the inside shelter temperature to ensure that the BAM-1020 is within it's recommended operating conditions. Recommended for all mini weatherproof enclosures. Directly compatible with the BAM-1020 met sensor inputs.



BX-592-1 Room Temp Sensor



BX-903 Heavy Duty Shelter



BX-906 Dual-Unit Shelter

Ordering Information

- **BX-902B** Basic Shelter One enclosure with heater and vent fan. Suitable for most applications.
- **BX-902B-AC** Basic Shelter One enclosure with optional 1500 BTU air conditioner.
- **BX-903** Heavy duty Ekto enclosure with 2000 BTU air conditioner.
- **BX-904** Heavy duty Ekto enclosure with 4000 BTU air conditioner.
- **BX-906** Dual-unit enclosure with 4000 BTU air conditioner.

All enclosures are wired for 115 volts AC to USA electrical conventions, unless otherwise requested. Wiring for European and other 220/230V conventions is available, but must be custom quoted.

Shipping to overseas locations (including Alaska and Hawaii) requires additional crating charges.



Met One Instruments, Inc.

1600 NW Washington Blvd • Grants Pass, Oregon 97526 • (541) 471-7111 • www.metone.com • e-mail: sales@metone.com

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