

PORTABLE ELECTRIC HEATER

**BK1™-DI**



BY MOSEBACH MANUFACTURING



Model	kW	V (AC)	Phase	Amps	BtuH	Weight	CFM	dBA
BK1™-DI @ 120V	9.4	120 (6)	1	79	32,085	92 lbs.	900	65
BK1™-DI @ 240V	10.6	240	1	37.5*	36,068	92 lbs.	900	65

\* 240V operation requires master plug with 1 set of resistors to be plugged in (37.5A 240V side + 14A 120V).

Compare!	kW / BtuH @ 120V	kW / BtuH @ 240V	kW / BtuH @120V and 240V	Operating Temperature	Dimensions	Weight
BK1™-DI	9.4 / 32,085	10.6 / 36,068	18.4 / 62,805	0-150°F	25" x 14" x 28"	92 lbs.
Competitor #1	7 / 25,590	0 / 0	0 / 0	0-135°F	29" x 28" x 48"	225 lbs.
Competitor #2	0 / 0	9 / 30,720	0 / 0	N/A	20" x 21" x 40"	90 lbs.

Temperature (°F)	Time, in minutes, required for 100% mortality of:					
	Bed Bug (Eggs)	Bed Bugs (Adult)	German Cockroach (Male Adult)	Flour Beetle (Adult)	Drywood Termite (Nymphs)	Argentine Ant (Adults)
115	480	90	58	123	265	8
120	90	2	27	16	30	4
125	<1	<1	16	9	10	2.5
130	<1	<1	7	4	6	1

Bacteria and mold mortality chart in minutes.

Contaminate	Mortality Temperature	Time in Minutes
Bacillus Anthracis (Anthrax)	129	30



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## The Smallest, Lightest, and most Affordable Portable Electric Heaters on the Market!

**Mosebach** has designed the **BK1™-DI** to eliminate insect infestation through the use of heat, rather than chemicals and toxins, in much smaller and lighter enclosures than any of our competitors. Each unit is supplying dry, clean, breathable heat into the sealed room to be treated. Once the room reaches the thermal kill zone temperature for insects (120°F - 150°F), all stages of insect life will be killed within one hour of heat soak.

Temperatures are maintained through the use of a provided programmable thermostat and two sensors, placed in opposite ends of the room, controlling the output of the heater. The use of heat eliminates down time compared to the use of chemicals, which takes time to dissipate. Our solution is better for the environment and in most cases only requires one treatment, compared to multiple doses from pesticides.

### ADVANTAGES OVER THE COMPETITION:

- Unique design: three heaters in one – at 120V, 240V, or at both!
- Variety of options: as fan only, as 10.6kW at 240V, as 9.4kW at 120V, or as 18.4kW by using both the 240V and 120V connections
- Ease of use, size, portability, weight and dimensions
- Heavy-duty, Mosebach's own **Stainless Steel** heating elements with **2-year** warranty

**Applications:** **BK1™-DI** is ideal for pest control in hotels, hospitals, apartments, dorm rooms, military barracks, nursing homes, cruise ships or anywhere else you need to eliminate pests quickly, safely and quietly. Since our heaters are electrically powered, they are extremely quiet, there are NO risks of pesticides and deadly carbon monoxide, unpleasant fumes and odors, fire, explosion and water vapor that cause mold that are associated with gas, kerosene and propane heaters, making this solution the ideal choice for residential and commercial applications.

**Heating Elements:** Our SlimLine™ technology utilizes a continuous **Stainless Steel** ribbon to eliminate all welds. By

eliminating welds, hot spots are eliminated. To reduce the operating temperature, no thru bolts are used, and a parallel element system reduces the watt density. Finally our resistors are designed to withstand vibration, and breakable parts, like ceramic insulators are not used. All this will result in maximum operating life of our resistors. Every SlimLine™ is fully supported by solid, non-conductive mica panels on the top and bottom to eliminate caving and resistors breaking. In addition, every resistor assembly is fully supported by the resistor assembly underneath it.

**Cooling:** Mosebach's own SlimLine™ **Stainless Steel** heating elements are cooled by one integrally mounted and powered, single inlet, low noise, 65dBA, 10", 120V, 1 Phase, 60Hz axial fan with thermally-protected PCS motor. Blower voltage will be taken from the 120V Master connection. The 10" axial fan is extremely quiet and will provide a low noise working environment.

**Controls:** Controls are recessed to prevent accidental damages. Each **BK1™-DI** is controlled by a combination of:

- One OFF/ON, two position 22mm switch
- One digital remote thermostat with 2 sensors & 50' cables, selectable up to 150°F

**Power Connection:** Each unit comes with one 240V receptacle and six 120V receptacles, and is rated for 120V/240V, 1 phase, 60Hz. Current consumption on the 120V will be 14A for the Master Plug connection and 13A for all other 120V connections. Six 15A separate circuits are required for 120V operation (for maximum BtuH output). Current consumption for the 240V connection will be

37.5A. Both the 120V inputs and the 240V input may be used simultaneously. 220V or 208V, 1 phase may also be applied in place of the 240V.

**Construction and Maneuverability:** L = 25"; W=14" (W = 18" with wheels); H = 28". The **BK1™-DI** is made of heavy-duty, electro-statically powder coated, Mosebach blue, scratch resistant, rugged sheet metal with expanded metal inlet and exhaust screens. The top panel is easily removable for gaining access to all components for easy maintenance. Three lifting handles and four large, 10" rubber tires are provided for easy lifting and maneuvering.

**Safety:** Fuses on the control side, over temperature switch set at 210°F (automatic reset) and inductive sensor to monitor the airflow. NOTE: Power source shall be fuse protected and grounded.

**Options Available for Purchase:** Mosebach Manufacturing offers 120V and 240V power cords, air movers, generators, and additional temperature monitoring for use with the **BK1™**, **BK1™-DI** and **BK3™** heaters.

**Warranty:** The **BK1™** has a standard 1-year warranty on workmanship and materials, and an unmatched 2-year warranty on the resistor elements.

We also have a **BK1™** (9.4kW/9kW at 120V/240V single phase) and the **BK3™** (30kW, 480V/240V/208V, 3 phase) and a line of smaller heaters available – the 60kW and 150kW **HotBox Extreme™**, (480V or 600V, 3 phase).

Connection	Voltage	Amperage	BtuH	Running Total
High Voltage Input	240	37.5	30,720	30,720
1 - Master Plug**	120	14	5,347.5	36,067.5
2 - Additional Input	120	13	5,347.5	41,415
3 - Additional Input	120	13	5,347.5	46,762.5
4 - Additional Input	120	13	5,347.5	52,110
5 - Additional Input	120	13	5,347.5	57,457.5
6 - Additional Input	120	13	5,347.5	62,805
Total			62,805	

\*\* Master Plug Connection (120V, 14A) is required for operation.



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