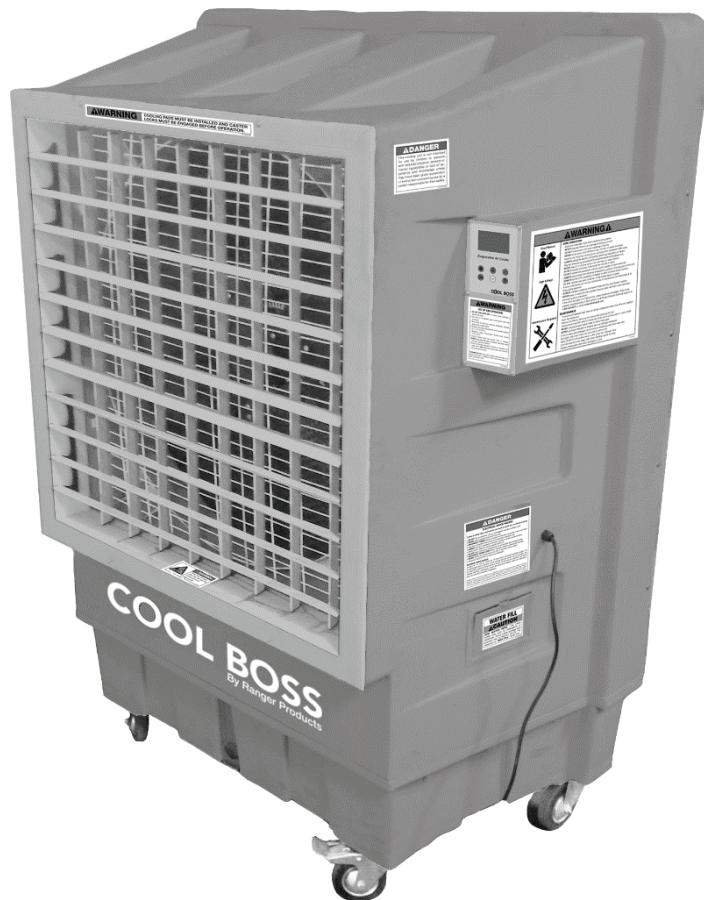


Cool Boss™ Portable Evaporative Air Cooler Installation and Operation Manual

Revision B — March 2017 — P/N 5900140

Models:

- CB-30L
- CB-30H



DANGER

Always operate this equipment as directed; failure to do so may cause injury or death. Read the entire contents of this manual prior to installation or operation. Make sure all other operators also read this manual. By proceeding with setup and operation, you agree that you fully understand the contents of this manual.

Manual. Cool Boss Portable Evaporative Air Cooler, *Installation and Operation Manual*, P/N 5900140, Rev. B, March 2017. Designed and engineered by BendPak Inc. in the USA. Made in China.

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Limitations. Every effort has been made to ensure complete and accurate instructions are included in this manual. However, product updates, revisions, and/or changes may have occurred since this manual was published. BendPak reserves the right to change any information in this manual without incurring any obligation for equipment previously or subsequently sold. BendPak is not responsible for typographical errors in this manual.

Warranty. The BendPak warranty is more than a commitment to you: it is also a commitment to the value of your new product. For full warranty details and to register your new BendPak product, contact your nearest BendPak dealer or visit www.thecoolboss.com/warranty.

Safety. Your new product was designed and manufactured with safety in mind. Your safety also depends on proper training and thoughtful operation. Do not set up, operate, maintain, or repair the unit without reading and understanding this manual and the labels on the unit.

Owner Responsibility. In order to maintain your product properly and to ensure operator safety, it is the responsibility of the product owner to read and follow these instructions:

- Follow all setup, operation, and maintenance instructions.
- Make sure product setup conforms to all applicable local, state, and federal codes, rules, and regulations, such as state and federal OSHA regulations and electrical codes.
- Read and follow all safety instructions. Keep them readily available for operators.
- Make sure all operators are properly trained, know how to safely operate the unit, and are properly supervised.
- Do not operate the product until you are certain that all parts are in place and operating correctly.
- Carefully inspect the product on a regular basis and perform all maintenance as required.
- Service and maintain the unit only with approved replacement parts.
- Keep all instructions permanently with the product and make sure all labels are clean and visible.

Unit Information. Enter the Model Number, Serial Number, and the Manufactured on date from the label on your unit. This information is required for part or warranty issues.

Model: _____

Serial: _____

Manufactured on: _____

 Santa Paula, CA USA www.thecoolboss.com	
MODEL NUMBER	
DESCRIPTION	
VOLTAGE	
DATE OF MFG.	SERIAL NUMBER
	
UPC	
	
WARRANTY VOID IF DATA PLATE IS REMOVED	

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Introduction


This manual describes the CB-30 Cool Boss Portable Evaporative Air Cooler, which keeps your shop or workplace cool and comfortable on even the hottest summer days.

The CB-30 comes in two models:

- **CB-30L:** 115 VAC power supply
- **CB-30H:** 208–240 VAC power supply

Otherwise, the two models are the same. Both will be referred to simply as the CB-30. If there is a difference based on the selected power supply, the difference will be specifically mentioned in text.

This manual is mandatory reading for all users of the CB-30, including anyone who sets it up, operates it, maintains it, or repairs it.

 **DANGER** Be very careful when setting up, operating, maintaining, or repairing this equipment; failure to do so could result in property damage, product damage, injury, or (in very rare cases) death. Make sure only authorized personnel operate this equipment. All repairs must be performed by an authorized technician. Do not make modifications to the unit; this voids the warranty and increases the chances of injury or property damage. Make sure to read and follow the instructions on the labels on the unit.

Keep this manual on or near the equipment so that anyone who uses or services it can read it.

Technical support and service for your CB-30 is available directly from your distributor or by calling the **BendPak Technical Support Hotline at 1 (805) 933-9970**. You may also contact the Hotline for parts replacement (please have the serial number and model number of your unit available).

Shipping Information

Your equipment was carefully checked before shipping. Nevertheless, you should thoroughly inspect the shipment **before** you sign to acknowledge that you received it.

When you sign the bill of lading, it tells the carrier that the items on the invoice were received in good condition. **To protect yourself, do not sign the bill of lading until after you have inspected the shipment.** If any of the items listed on the bill of lading are missing or are damaged, do not accept the shipment until the carrier makes a notation on the bill of lading that lists the missing and/or damaged goods.

If you discover missing or damaged goods **after** you receive the shipment and have signed the bill of lading, notify the carrier at once and request the carrier to make an inspection. If the carrier will not make an inspection, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.

It is difficult to collect for loss or damage after you have given the carrier a signed bill of lading. If this happens to you, file a claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping you process your claim does not make us responsible for collection of claims or replacement of lost or damaged materials.

Safety Considerations

Read this manual carefully before using your new product. Do not set up or operate the product until you are familiar with all operating instructions and warnings. Do not allow anyone else to operate the product until they are also familiar with all operating instructions and warnings.

General Safety Information

Please note the following:

- The product is an air-cooling device. Use it only for its intended purpose.
- The product should only be operated by authorized personnel.
- When the product is in use, keep all body parts away from it.
- Only use the product indoors in a well-ventilated area.
- Do not make any modifications to the product.
- Make sure all operators read and understand the *Installation and Operation Manual*. Keep the manual near the device at all times.
- Avoid using an extension cord; they can overheat. If you must use an extension cord, make sure it is No. 14 AWG minimum.
- Make a visual inspection of the product before using it. Check for cracked welds, leaks, and damaged or missing parts. Do not use the product if you find any of these issues. Instead, contact an authorized repair facility, your distributor, or the BendPak Technical Support Hotline at 1 (805) 933-9970.
- BendPak recommends making a thorough inspection of the product at least once a year. Replace any damaged or severely worn parts, decals, or warning labels.
- The safe operating temperature range for this product is 64°F to 113°F (18°C to 45°C).

Hazard Symbols

Following are the hazard symbols used in this manual:

⚠ DANGER Calls attention to an immediate hazard that **will** result in death or severe injury.

⚠ WARNING Calls attention to a hazard or unsafe practice that **could** result in death or severe personal injury.

⚠ CAUTION Calls attention to a hazard or unsafe practice that could result in minor personal injury, product, or property damage.

Liability Information

BendPak assumes **no** liability for damages resulting from:

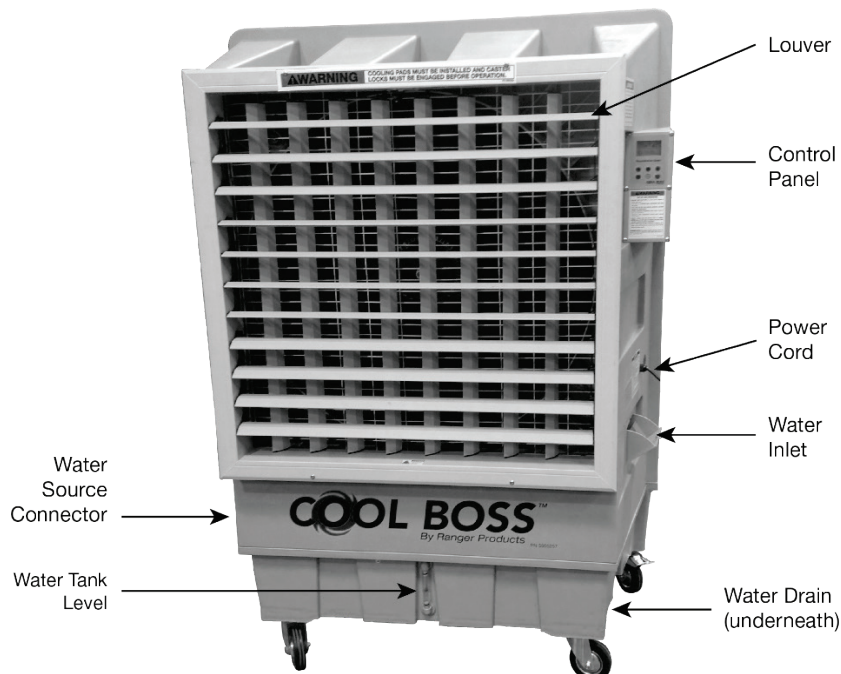
- Use of the equipment for purposes other than those described in this manual.
- Modifications to the equipment without prior, written permission from BendPak.
- Damage to the equipment from external influences.
- Incorrect operation of the equipment.

System Components

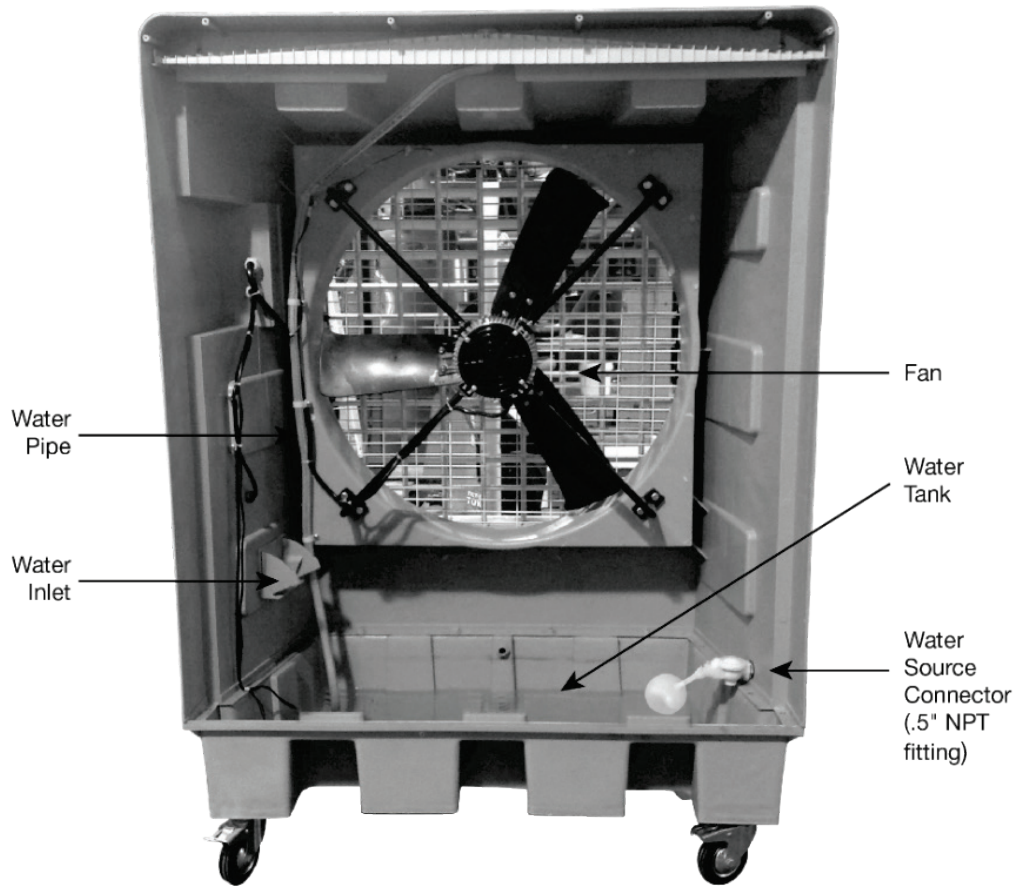
System components include the main unit, the control panel, and the remote control.

The Main Unit

The following figure shows the front of the unit.

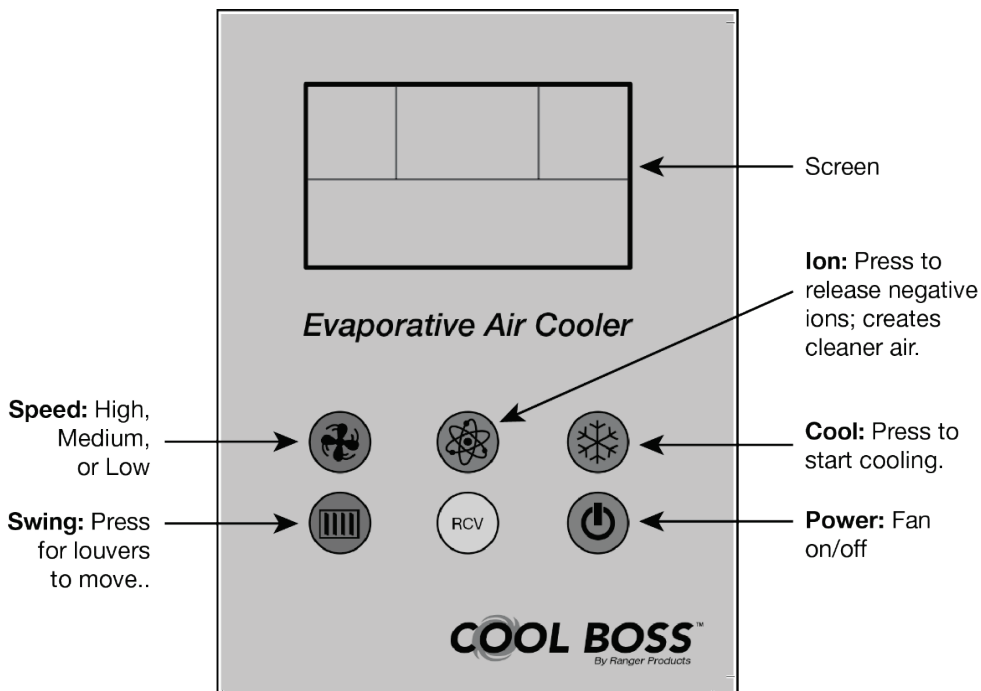


The following figure shows the inside of the unit, from the back.



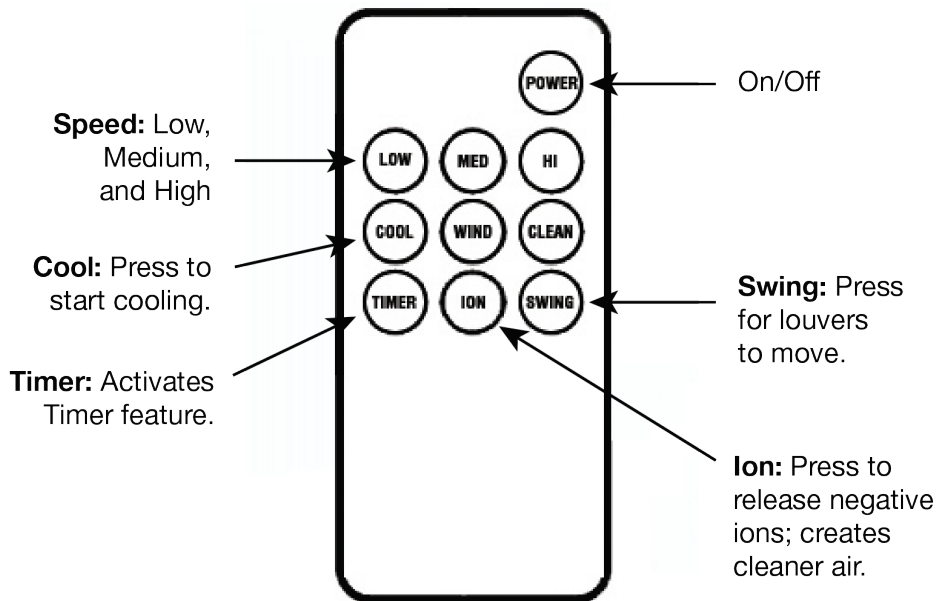
The Control Panel

The following figure shows the Control Panel.



The Remote

The following figure shows the remote that comes with the unit (in the box with the casters).



Setup

To set up the CB-30:

1. **Put on the casters.** The casters come in a box with the remote. Two casters have brake locks.
2. **Find a location.** Find a suitable location for the unit. It should be inside, near an appropriate power source, and in a low-traffic and well-ventilated area. **Never roll anything heavy over the power cord.** Try to find a location where people will not be constantly walking over the power cord, as this is a tripping hazard; **do not run the power cord under a rug or other flammable material.**
3. **Lock two casters.** Once you have settled on a location, press down the locking mechanisms on the two casters that have them; using your foot is a good way to do this. To move the unit later, flip up the locking mechanisms on the locked casters.
4. **Connect to power.** Plug the power cord into a grounded, GFCI-protected power source.
5. **Fill the water tank.** Find the Water Inlet on the right side of the unit (looking at it from the front). Add clean water. Do not overfill. Water temperature must be less than 113°F (45°C). You can also connect the Water Source Connector on the left side of the unit to a water source using the .5 inch NPT fitting.
6. **Make a visual inspection.** Before use, check for problems with the unit. **Do not use the unit if you find a problem with it.** If you find a problem, refer to the Maintenance and Troubleshooting sections for more information. If you cannot resolve the issue, contact your distributor or BendPak Technical Support at 1 (800) 253-2363, x196.

Operation

To operate the CB-30:

- **Press Power.** You can press the power indicator on the Control Panel or the Power button on the remote; either way starts the fan. Check the Control Panel to see current settings.
- **Press Cool.** Starts the cooling function; the pump begins circulating water. *Make sure there is water in the water tank before pressing Cool; if not, the water pump motor could burn out.*
- **Press Speed.** Select between High, Medium, and Low fan speeds. On the Control Panel, press the Speed button to switch between fan speeds. On the remote, press the button for the fan speed you want. **Keep hands and fingers away from the fan when it is running.**
- **Press Ion.** The built-in ionizer starts releasing negative ions, resulting in cleaner air.
- **Press Swing.** The louvers on the front of the unit begin moving, which helps to circulate the cool air more efficiently.
- **Refill the water tank.** When it gets low, refill the water tank. It holds approximately 17 gallons.

Maintenance

 **WARNING:** Unplug the unit before performing any maintenance!

To maintain the CB-30:

- **Change the water when it gets dirty.** Dirt and other pollutants from the environment will get into water. The cleaner the water you use, the fresher and cleaner the air you get. BendPak recommends changing the water at least once a month.
- **Clean the cooling pad on a regular basis.** Dirt and other pollutants from the environment get caught in the cooling pad. Clean it regularly to keep the air fresh and clean.

 **CAUTION:** BendPak recommends wearing gloves when handling the cooling pad.

To clean the cooling pad:

1. Remove the plastic crosspiece at the top of the back of the unit by removing the four screws.
2. Unfasten the grill by removing the eight screws holding it in place; four on each side.
3. Pull the grill and then the cooling pad out of the unit. You may need to carefully apply some pressure to get the grill and cooling pad out.
4. Rinse the cooling pad under running water to clean it. Do not use highly pressurized water.
5. Take off the drainage valve on the bottom of the unit to drain any remaining water, then clean the water tank with a soft cloth. Use the same cloth to clean the water sensor, water pump, and drainage valve. Put the drainage valve back on.
6. Clean the outside of the unit with mild soap and a soft cloth. Do not use strong chemicals; they could damage the unit.
7. Put the cooling pad and grill back into place; you may need to apply pressure to get them into position. Fasten the grill into place by screwing in its eight screws, then screw the plastic crosspiece back into place.

Note: The bottom corners of the cooling pad are notched so that they can fit snugly in place. Make sure the notches are at the bottom when you put the cooling pad back into place.

Troubleshooting

This section describes how to troubleshoot your product.

Issue	Probable Cause	Action to Take
Control Panel off.	<ul style="list-style-type: none"> • No power. • Fuse not working. • Panel is not working 	<ul style="list-style-type: none"> – Check the power supply. – Change fuse (250 V, 15 Amps). – Change the panel.
Unit not working.	<ul style="list-style-type: none"> • No power. • Environmental issue. 	<ul style="list-style-type: none"> – Power cycle the unit. – Move the unit.
Fan not working or moving slowly	<ul style="list-style-type: none"> • Fan is stuck. • Fan is broken. 	<ul style="list-style-type: none"> – Check for blockage. – Repair fan.
Motor not working	<ul style="list-style-type: none"> • Master control not working. • Panel is not working. 	<ul style="list-style-type: none"> – Fix/change master control. – Fix/change panel.
Drain valve leaks	<ul style="list-style-type: none"> • Drain valve is loose. 	<ul style="list-style-type: none"> – Tighten drain valve.
Fan dripping water	<ul style="list-style-type: none"> • Water pipe is disconnected. 	<ul style="list-style-type: none"> – Check water pipe connection.
Remote not working	<ul style="list-style-type: none"> • Battery is dead. • Something blocking the receiver. 	<ul style="list-style-type: none"> – Replace the battery (CR2025/3V). – Clear the blockage.

Specifications

Dimensions (W by H by D)	44" by 60" by 27", 1118 mm by 1524 mm by 686 mm
Weight	115 pounds, 52 kg
Fan diameter	30", 762 mm
Maximum airflow	10,595 CFM, 18,000 CMH
Water consumption	2.64 to 3.96 gallons per hour, 10 to 15 liters per hour
Water capacity	17 gallons
Effective cooling area	2,500 to 2,800 square feet
Power cord length	10 feet, 3,048 mm
Sound level	< 65 db
Operating temperature range	64°F to 113°F, 18°C to 45°C
Power supply	CB-30L: 115 VAC, 50/60 Hz, single phase CB-30H: 208 to 230 VAC, single phase

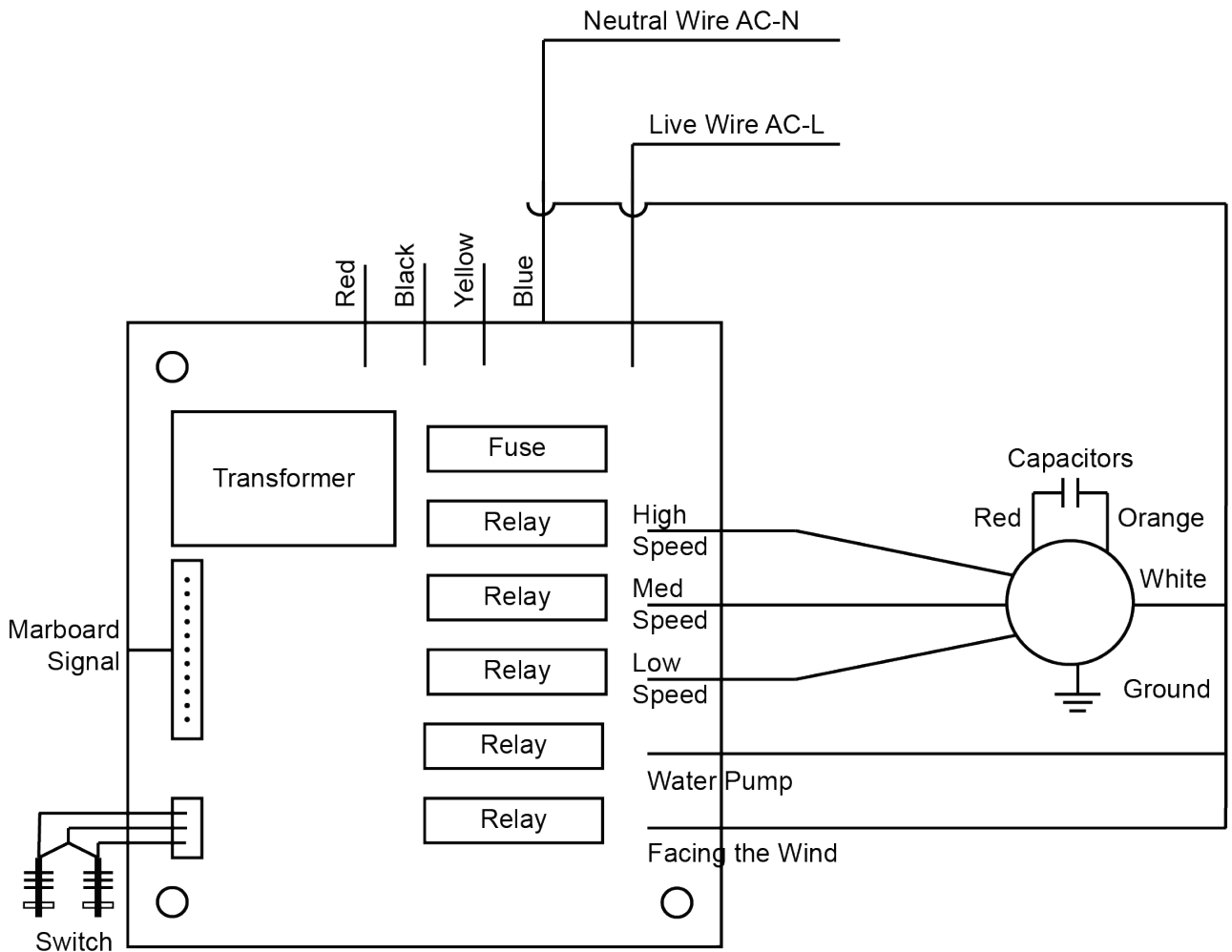
Power consumption	550 Watts
Cooling pad size (width by height by depth)	43.5" by 46" by 4" 1104 mm by 1168 mm by 101.6 mm

Warranty

The BendPak Cool Boss warranty is more than a commitment to you; it is also a commitment to the value of your new product.

For full warranty details and to register your new product, contact your nearest BendPak dealer or visit www.thecoolboss.com/warranty.

Wiring Diagram





1645 Lemonwood Drive
Santa Paula, CA 93060 USA