

BEAM

USER MANUAL

Alliance Central Vacuum System



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Congratulations! You are now the proud owner of a BEAM Central Vacuum System: the ultimate in cleaning equipment.

Say “goodbye” to old-fashioned sweepers. You’ll never have to lug a heavy, awkward vacuum again. Your BEAM Central Vacuum System will change your cleaning routine. From its ease of use and versatility, to its quiet and dust-free operation, your BEAM will help eliminate the drudgery of vacuuming and give you a cleaner, healthier indoor environment. Before using your BEAM Central Vacuum System, read this manual to learn the proper way to use this cleaning system. It will help give you years of trouble-free cleaning performance.

IMPORTANT SAFEGUARDS

When using an electronic appliance, basic safety precautions should always be followed, including those listed below.

READ ALL INSTRUCTIONS BEFORE USING THIS VACUUM SYSTEM.

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:

- This vacuum cleaner is intended for dry pick up only. Do not use on wet surfaces or pick up any liquids, hot debris or any flammable items that would cause harm to the vacuum cleaner.
- Keep cord away from heated surfaces.
- Do not allow the vacuum to be used as a toy. Close supervision is necessary when this vacuum is used by or near children.
- Use this vacuum only for its intended use as described in this manual. (Use of attachments not recommended by the manufacturer may cause fire, electric shock, injury or damage to system components.)
- Connect to a properly grounded (earthed) outlet only. See grounding (earthing) instructions.
- Mount unit at least 30 cm (12 inches) from the floor, ceiling and corner sidewall to ensure adequate ventilation for the motor.
- Never operate this vacuum if it has a damaged cord or plug, if it is not working properly, or if it has been dropped or damaged. Return to authorized dealer/distributor for repairs.
- Never disconnect plug by pulling the cord. To disconnect from outlets, grasp the plug, not the cord.
- Do not put any object into openings. Do not use with any opening blocked. Keep free of dust, lint, hair and anything that may reduce airflow/suction. Lack of airflow will cause the motor to overheat.
- This vacuum cleaner creates suction. Keep hair, face, fingers, all body parts and loose clothing away from any openings.
- Never operate without dust bag and/or filter in place.
- Turn off all controls before unplugging.
- Never handle the plug, the cord or the power unit with wet hands.
- Use extra care when cleaning on stairs.
- Do not locate the power unit in a high temperature area or where it is inaccessible, for example, an attic or crawl space.
- Do not use extension cords or outlets with inadequate current carry capacity.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches or hot ashes.
- Do not use on wet surfaces.
- Do not vacuum drywall dust or baking flour as it may cause damage to your vacuum.
- This appliance is not intended for use by persons (including children), with reduced physical, sensory, or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- If the power cord is damaged, it must be replaced by a special cord available from the authorized local dealer/distributor.
- Keep your work area well lighted.
- Unplug electrical appliances before vacuuming them.
- Do not pick up flammable or combustible liquids such as gasoline, or use in areas where they may be present.

SAVE THESE INSTRUCTIONS

GENERAL INFORMATION

The central vacuum system is designed for dry pick up of household dirt and dust and is not intended to pick up liquids. Avoid picking up hard or sharp objects with the system to prevent hose and plastic pipe damage or clogs. This central vacuum system is intended for household use only.

Service Information

The instructions in this booklet serve as a guide to routine maintenance. For additional information, contact your local authorized dealer/distributor.

Rating Plate

The style, model and serial numbers are indicated on the rating plate located on back left side of the power unit. For prompt and complete service information, always refer to these numbers when inquiring about service.

GROUNDING INSTRUCTIONS

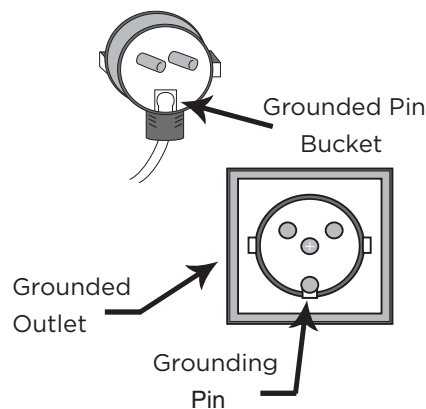
This vacuum must be grounded (earthed). If it should malfunction or breakdown, grounding (earthing) provides a path of least resistance for the electric current to reduce the risk of electric shock. This vacuum is equipped with a cord having an equipment-grounding conductor and grounding (earthing) plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded (earthed) in accordance with all local codes and ordinances.



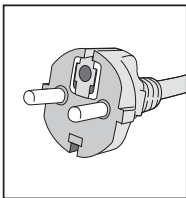
WARNING

Improper connection of the equipment grounding (earthing) conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded (earthed). Do not modify the plug provided with the appliance – if the plug will not fit the electrical outlet, have a proper outlet installed by a qualified electrician. 220/230/240V Models

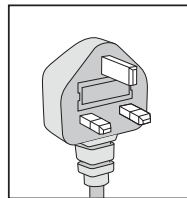
This vacuum is for use on a circuit having a nominal rating at 220/230/240 volts and is provided with a specific cord and plug to permit connection to a proper electrical circuit. Make sure the vacuum is connected to an outlet having the same configuration as the plug. No adaptor should be used with this vacuum. If the plug will not fit the electrical outlet, have a proper outlet installed by a qualified electrician.



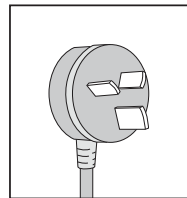
Plug Types



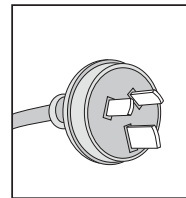
Type E



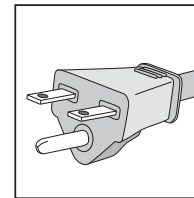
Type G



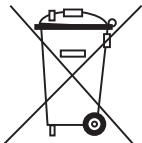
Type H



Type I



Nema 6-15 R



Waste of Electrical and Electrical Equipment (WEEE). The symbol on the product or on its packaging indicates that this product may not be treated as household waste. Instead it should be handed over to applicable collection point for the recycling of electrical and electrical equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about this product, please contact your local waste disposal service or the local authorized dealer/distributor where you purchased the product.

INSTALLATION

Planning

If your home already has a system of plastic pipes and inlet valves, you are ready to install the power unit. If not, you can contract a professional to have the central vacuum system installed. Contact your local authorized dealer/distributor if you have any questions.

Central Vacuum Location

The central vacuum should be located away from the general living area, yet accessible so you can remove the dirt bucket and inspect the vacuum. A typical location would be in a garage or utility area where emptying the dirt bucket would be more convenient. Other suitable locations are in the basement, laundry room or a ventilated storage room.

Central Vacuum Installation

The vacuum hangs on the mounting bracket which is screwed to the wall. The center of the mounting bracket should be about 122 cm (48 inches) from the floor to allow convenient removal of the dirt bucket. Mount unit at least 30 cm (12 inches)

from the floor, ceiling and corner sidewall to ensure adequate ventilation for the motor. If mounting on plaster or panel walls, ensure screws enter studs. If mounting on a concrete wall, drill the wall with a masonry bit and insert the appropriate wall anchors (refer to Figure 2).



WARNING

Do not block the exhaust pipe. Lack of ventilation will cause the motor to overheat. Do not locate the power unit in a high temperature area where it is inaccessible for example, an attic or crawl space.

Before hanging the power unit on the wall ensure that the intake flange on the power unit is positioned in the correct direction; the muffler is installed correctly, the optional HEPA filter is installed correctly and the optional bag adaptor is installed correctly.

Strip the low-voltage wires that were installed with the main trunk line. Connect the wires to the spring-loaded connectors on the back of the power unit (refer to Figure 3).

Hang the power unit on the bracket. Connect the main tube line to the intake flange of the vacuum with the connector and clamp provided.

DO NOT glue the main tube line to the power unit so that the power unit may be removed for future maintenance or service.

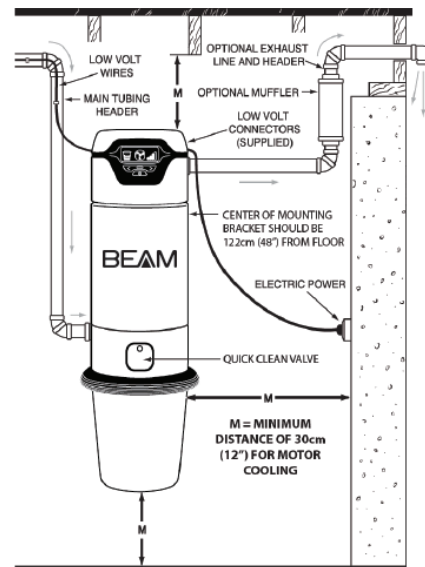


Figure 2



Figure 3

INSTALLATION

Intake Flange

Your power unit has been designed for either a left or right pipe intake. If the pipe from your house is located on the right side of the power unit, you will need to change the direction of the intake flange. To do this, remove the two Torx 20 screws located on the intake flange and turn the intake flange 180°. Secure the intake flange with the same two Torx 20 screws previously removed (refer to Figure 4).

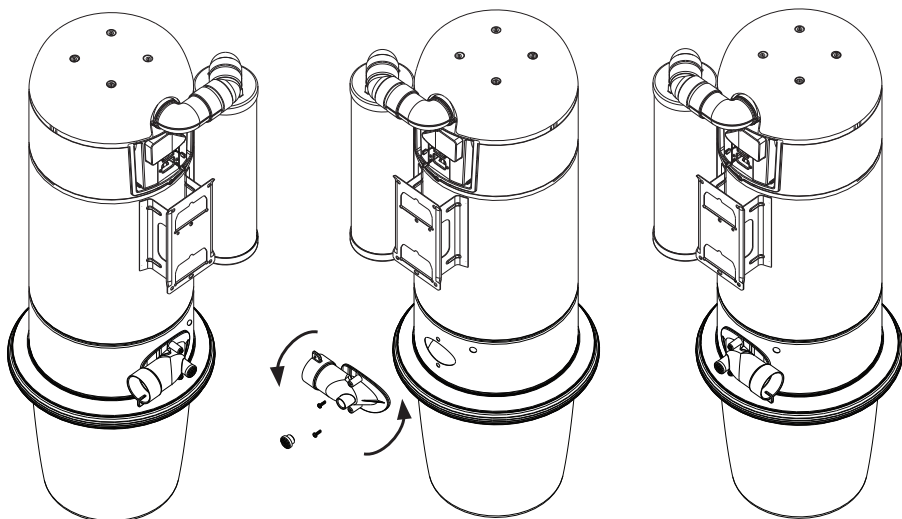


Figure 4

1.5 Muffler Installation

1. To install the muffler on the power unit, connect one end of the short 90° elbow to the muffler as indicated in Figure 5.
2. Glue the opposite end of the short 90° elbow to the WIDE open end of the long pipe adaptor. Before connecting the short 90° elbows and long pipe adaptor, confirm the direction of the intake flange located on the bottom, back of the power unit. Ensure the muffler is located on the opposite, OPEN end, of the intake flange as illustrated in Figure 5. Otherwise, the muffler will interfere with the pipe intake.
3. Connect both the long pipe adaptor and muffler assembly to the back of the power unit, securing the muffler with the Torx 20 screws provided.

NOTE: DO NOT glue the muffler pipe adaptor to the central vacuum unit.

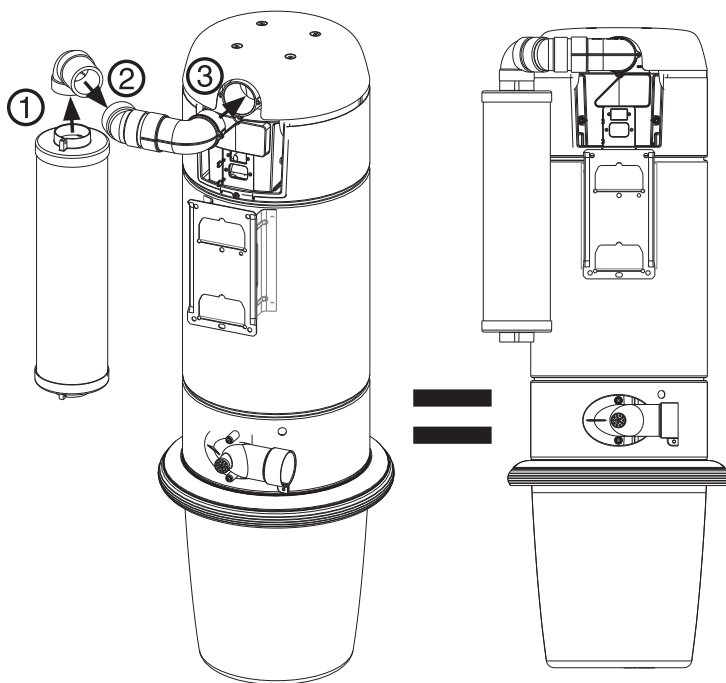


Figure 5

INSTALLATION

Optional HEPA Filter Installation

1. To properly install the optional HEPA filter, secure the 90° elbow to the body of the HEPA filter with the Torx 20 screw provided.
2. Secure both the 90° elbow and HEPA filter to the back of the power unit using the second Torx 20 screw provided.
3. Insert the HEPA filter with its two plastic tabs on the bottom of the filter cartridge into the cavity of the HEPA filter and snap into place. Close the HEPA door gently. If the door does not close easily, remove and reinsert the filter.

The HEPA filter can only be installed on the right side of the power unit and will not interfere with the intake pipe on either side of the unit (refer to Figure 6a).

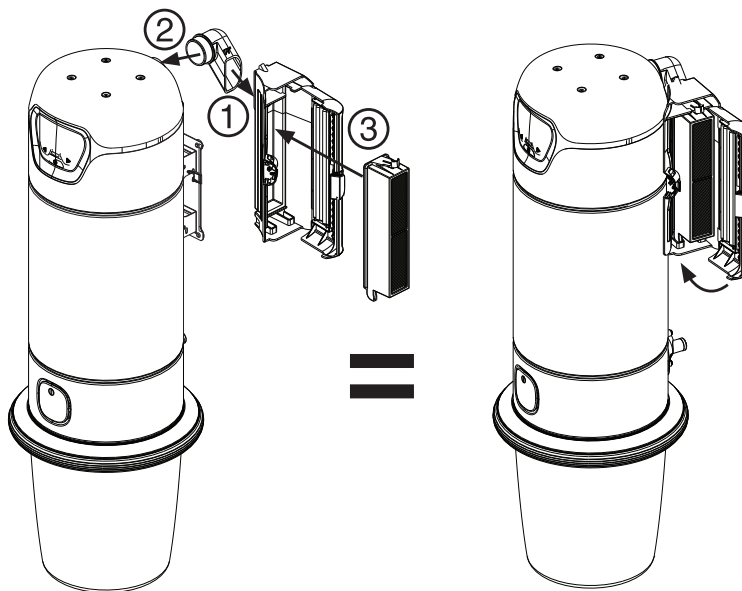


Figure 6a

Exhaust

If the optional muffler or the HEPA filter is not utilized and the power unit is exhausted to the outside, the long muffler pipe adaptor must be installed directly to the exhaust pipe away from the wall. Do not operate the vacuum vented directly into the wall as it could cause damage to the wall and/or vacuum. See Section 1.5 for adaptor instructions.

NOTE: One elbow must be installed if the muffler or the HEPA filter is not used (refer to Figure 6b).

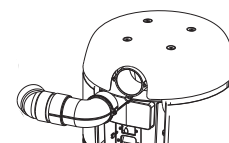


Figure 6b

Optional Bag Adaptor

The optional bag adaptor is easy to install prior to placing the central vacuum unit on the wall with the dirt bucket removed. The bag adaptor has three unique ends, each connecting to a specific component.

1. Using the two Torx 20 screws, secure end “A” to the intake flange on the back inside the body of the central vacuum unit (refer to Figure 7A).
2. Secure end “B” to the Quick Clean Valve from the inside of the central vacuum unit by aligning and locking the tabs into place (refer to Figure 7B).
3. Push the cardboard collar from the filter bag on to the open hanging end “C” of the bag adaptor (refer to Figure 7C).
4. Reconnect the dirt bucket to the central vacuum unit and ensure the filter bag is completely sealed in both the central vacuum unit and dirt bucket.

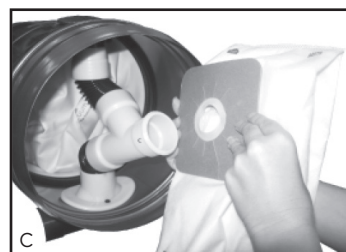


Figure 7

INSTALLATION

System Test / Operation

Be certain to comply with local electrical codes and regulations. Plug the unit into an electrical outlet. You are now ready to check the vacuum installation:

- Be sure the dirt bucket is properly secured to the vacuum.
- Plug the hose into each inlet valve and turn on the central vacuum system with the power button on the handle ensuring the electrical contacts operate properly.
- The central vacuum system can also be turned on/tested by pressing the power button on the power unit.
- Check each inlet valve for air leaks.
- Check each pipe connection for air leaks.

WARNING: Do not use extension cords or outlets with inadequate current carrying capacity. Connect the power cord to a dedicated branch circuit. Before hanging the power unit on the wall, install either the muffler or the HEPA filter supplied with the unit.

CARE AND MAINTENANCE

Instructions in this book serve as a guide to routine maintenance. Proper airflow and suction are maintained by keeping the dirt bucket and filter clean, plastic tubing and hose free from clogs.

Motor

The BEAM Alliance central vacuum system is equipped with a flow-thru motor and will never need lubrication. Should you experience any motor problems, please contact your local authorized dealer/distributor.

Dirt Bucket and Bag Adaptor

Reduced airflow or suction indicates the central vacuum system is not operating at maximum efficiency. If the dirt bucket is full and the filter is clogged, air cannot pass through the unit limiting performance.

To remove the Press & Release Bucket, clasp opposing positions on the bucket ring, press with thumbs and pull down to remove bucket and empty contents. (refer to Figure 8).

To reinstall the dirt bucket, lift the bucket back into place until you hear a “click”. The central vacuum system will not operate properly if the dirt bucket is not installed correctly.



Figure 8

CARE AND MAINTENANCE

Optional Disposable Bag

Your vacuum may be equipped with a disposable filter bag, which can be discarded when full.

A full filter bag will reduce the vacuum and minimize performance.

Empty the filter bag 2-3 times a year depending, on how much dirt is collected. Replacement filter bags may be purchased from a local authorized dealer/distributor.

How to change the Filter Bag:

1. Remove the dirt bucket.
2. Remove the filter bag from the bag adaptor.
3. Put new filter bag in place.
4. Turn the filter bag's opening to secure filter bag.
5. Re-install the dirt bucket. Figure 8.



Figure 9

HEPA Filter Maintenance

We recommend changing the HEPA filter after the dirt bucket has been emptied three times, or after being used for one year, whichever comes first. To replace your HEPA filter:

1. Open the HEPA filter door with the button located on the side, center of the door.
2. Press down on tab at the top of the filter and discard the entire filter.
3. Insert the HEPA filter by inserting the two plastic tabs at bottom of the filter cartridge into the cavity of the HEPA filter. Snap into place (refer to Figure 9).
4. Close HEPA door gently, without force. If the door does not close easily, reinsert filters.

TROUBLESHOOTING

Automatic Shut-Off

If the central vacuum power unit is unintentionally left ON for a prolonged period, the operating system has an automatic 30 minute shutoff timer. The shutoff timer will automatically reset when the system is turned on by the hose or power unit.

To protect the power unit from overheating, the operating system has a thermal protection shutoff and will automatically turn OFF the vacuum. In the event an automatic shutoff occurs, a motor fault icon will appear on the power unit screen and a red fan blade will flash on the hose handle. Please allow the unit to cool for approximately 5 minutes so it can reset itself. After 5-minutes, turn the power unit on. If the power unit does not turn ON, let the unit cool down for an additional 5 minutes. If the power unit still does not operate, please contact your authorized dealer/distributor.

Partial Loss of Suction

1. Empty dirt bucket. Inspect filter.
2. Turn ON vacuum and check the suction at each inlet. If suction is not the same at each inlet, the line is partially clogged. To locate the clog, start with the inlet closest to the vacuum and check the suction. Continue checking each successive inlet until you locate the inlet where a suction loss is occurring. The clog will be between that inlet and the previous one checked. To remove the clog, call your local authorized dealer/distributor.


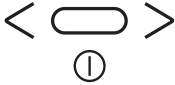













Total Loss of Suction (with motor running)

1. Check for power light on the screen.
2. If you have a good suction at the unit, but no suction in the hose then there is a clog in the pipes or hose. To remove the clog, call your local authorized dealer/distributor.

Motor Refuses to Start

1. Ensure central vacuum is plugged into an electrical outlet.
2. Check for power.
3. If the problem persists, call your authorized local dealer/distributor.

BEAM ALLIANCE LED/LCD ICON CHART

SYMBOL	DESCRIPTION	AVAILABILITY	MEANING	ACTION REQUIRED
	ON/OFF Button	Standard	Turns power unit on or off.	None
	Navigation Buttons	On select models	These buttons are located below the display screen. Use to modify time or reset empty bucket indicator.	Scroll through using Left (<) or Right (>) buttons to appropriate icon. When the appropriate selection is highlighted, hold the Enter () button down for 5 seconds.
	Clock	On select models	A digital clock is located on the top left corner of the display screen of the power unit.	You can choose from either a 12 or 24-hour clock. To set time, use the (<) and (>) buttons to arrive at the correct time. Press Enter () when your selections are complete.
	Communication Link	On select models	The communication link icon appears at the top of the power when the hose connection into the inlet valve is complete and the hose handle is communicating with the power unit.	None
	Screen Saver	On select models	When the power unit wakes from sleep mode, the screen saver icon will appear for 2-3 seconds before disappearing and other icons will appear.	None
	Variable Speed Indicator	On select models	When the power unit is on, the fan blades on the screen will spin relative to the speed/suction indicated on the hose handle.	None
	Empty Bucket Indicator	On select models	The empty bucket indicator is timed to remind you to empty your dirt bucket. The power unit will communicate with the hose handle signalling fan blades to flash red.	Empty dirt bucket and reset the system by pushing one of the two reset buttons and holding for 5 seconds  OR 
	Performance Bars	On select models	3 - 4 bars indicate the system is performing at the optimum level. Performance levels will change depending on the variable speed settings and during the use of specialty attachments.	Check for blockage if performance bars fluctuate under normal vacuuming conditions.
	Flashing Performance Bars Alert	On select models	When 2 bars or less are illuminated, the airflow of your power unit is exceptionally restricted. The power unit will communicate to the hose handle and flashing red fan blades will display.	Check to ensure the dirt bucket is not overloaded. Check for blockages in the system. Check for motor wear (contact an authorized service technician)
	Motor Fault Indicators	Standard	Indicates a system fault or malfunction. This symbol may occur due to one of the following: 1) The maximum system run time exceeded; 2) Electronics problems; 3) Power surges; 4) Motor failure; 5) Mechanical failure.	Turn on and off the power unit. This may reset the system. If this fails, unplug the power unit and call an authorized technician.
	Error Codes	On select models	Error codes defined: ER 1: Under current ER 2: Over current short ER 3: 30-minute time-out ER 4: Over current long ER 5: Line error or off current	Turn off and unplug the power unit and call an authorized technician. For further detail on error codes, contact your authorized service dealer.

INSTRUCTIONS FOR BEAM ALLIANCE HOSE HANDLE

NOTE: The BEAM Alliance hose and hose handle will only function with a BEAM Alliance central vacuum system. If you received an Alliance hose and do not have a BEAM Alliance power unit, please contact your local authorized BEAM dealer/distributor to obtain the proper hose for your central vacuum system.

Power Button

The Power button on the top of Alliance hose handle will turn the unit ON/OFF when the hose is plugged into an inlet valve inside the home or Quick Clean Valve located on the front of the power unit. The unit can be activated by the Power button on the power unit screen.

Variable Speed Control

To decrease the suction, press the (-) button. To increase suction press the (+) button.

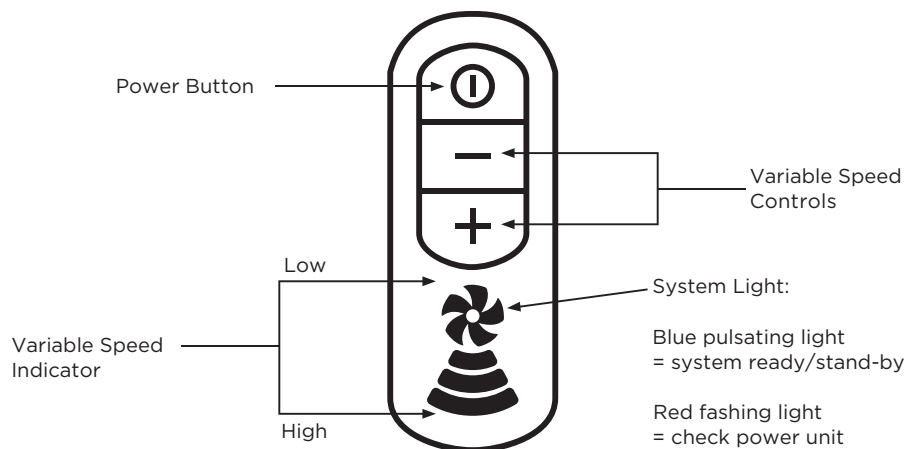
System Indicator

When the Alliance hose is connected to an inlet valve in your home or Quick Clean Valve on the front of the power unit, the hose handle fan blade icon pulsates with a BLUE glowing light that indicates communication between the hose handle and power unit. When the unit is turned ON from the hose handle, the fan blade icon turns to a solid BLUE colour.

When it is time to empty the bucket, or the system indicates a performance problem, the fan blade will turn RED. If you see a RED flashing fan blades, turn the system OFF immediately. Check the power unit to identify the cause. To learn more about what can cause the hose handle fan blades to flash RED, please read page 12

Variable Speed Indicator

The Alliance hose handle will indicate system performance and strength of suction with the Variable Speed Indicator. When the system turns ON, all four lights of the Variable Speed Indicator will light, indicating high speed/suction. The lowest speed/suction is indicated with a single lighted fan blade. To adjust the speed/suction, press either the (-) or (+) buttons.



SERVICE INFORMATION

The instructions in this booklet serve as a guide for routine operation and maintenance. For more information, contact your local authorized dealer/distributor.

Service Warranty

Warranty service is managed by your local authorized dealer/distributor.

**For additional product information
visit beamvac.com**

Sold and serviced by:



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