



## User Manual

Central Vacuum System



**Models Covered in  
This Manual:**

AS600TF-22

AS650TF-22

AS600TF-32

AS700TF-32

AS650BP-32

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# 1. IMPORTANT INSTRUCTIONS RELATED TO SAFETY

## **CAREFULLY READ ALL OF THESE INSTRUCTIONS PRIOR TO USE OF THIS CENTRAL VACUUM SYSTEM**

When using an electrical appliance, it is necessary to obey certain basic precautions

### **WARNING - TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR INJURY:**

- Unplug the power cord from electrical outlet before performing any power unit maintenance.
- Do not install outdoors, protect against weathering and do not use on wet surfaces.
- This appliance must not be used as if it is a toy. It is therefore necessary to be very prudent when the system is used by children or when in use in the proximity of a child or infant.
- This system must be used in conformity with the instruction provided in this manual. Only use the accessories recommended by the manufacturer.
- Do not use the system if the power cord or electrical outlet is damaged
- If the power unit was left outdoors, dropped, or immersed in liquid, bring it to an authorized service centre prior to use.
- Do not use the power cord to pull or lift the power unit, nor use it like a handle. Be careful not to pinch it in a door, do not let it hang on a sharp corner or edge.
- Examine the valves for foreign objects which may have remained in the pipe. If any, remove the obstructing objects to ensure maximum airflow.
- Keep the power cord away from any warm objects or surfaces.
- Do not unplug the power cord by pulling it by the cord, always remove directly at the electrical outlet.
- Do not use the system or its accessories with wet hands.
- Keep hair, clothing, fingers, any other body parts or other objects out of or away from any openings or moving parts of the system.
- All functions of the system must be deactivated prior to removing the power cord from the electrical socket.
- Take the necessary precautions when using the system on stairs.
- Do not use the system to pick up flammable liquids or fuels (i.e. gasoline), nor use the system in areas where such liquids may be present.
- Only plug in the power cord into a properly grounded electrical socket. For more information on this subject, please see "Grounding specifications" in section 2.
- The exhaust of the power unit must not be right against a wall, ceiling or inside a closed space. It is recommended that the exhaust be vented outdoors.
- Do not pick up hot or flammable objects such as ash or matches.
- Do not store objects near or on the power unit to avoid overheating of the power unit.
- Do not use the power unit if the pipe network is clogged, this will cause the unit to overheat.

**KEEP THESE INSTRUCTIONS IN A SAFE PLACE  
THIS POWER UNIT IS FOR DOMESTIC USE ONLY  
ALL WARRANTIES ARE VOID IF USED COMMERCIALY**

## 2. GENERAL GUIDELINES AND REFERENCES

### ELECTRICAL GROUNDING SPECIFICATIONS

The system's power unit must absolutely be grounded. In the event of a malfunction or a power unit failure, the grounding provides the path of least resistance to any electrical current, minimizing the risk of electrical shock. The power unit's power cord has a length of 65" (1.65m) and is fitted with a grounding wire and grounding pin. The power unit's power cord must always be directly plugged into a suitable electrical outlet which is itself properly installed and properly grounded, in conformity with the current local electrical standards.

#### WARNING

Improper connection of the power unit grounding wire can result in the risk of electrical shock. If you are in doubt of a proper grounding, contact a professional electrician. Do not modify the power cord supplied with this power unit. If this power cord connector does not fit your electrical outlet, have the proper electrical outlet installed by a professional electrician.

This power unit is designed to be used on a nominal electrical circuit of 15 A. 110-120 VAC in 60 Hz. The power cord is fitted with a grounding pin. Make certain that the power cord is plugged into an electrical outlet having the same specifications. This appliance should be used without an adaptor. This power unit should be installed on its own independent circuit and breaker.

#### IMPORTANT

The manufacturer shall not be held responsible for damages caused by the inappropriate use of this system. The warranty does not cover the damages caused by an inappropriate use of this system nor the problems resulting from an installation which does not meet the specifications, nor any structural or functional alterations made to the power unit. An inappropriate, not-recommended installation of the system or the power unit made without respecting the directives of this document will equally be considered as misuse. All conditions and restrictions are set forth in the limited warranty and in the user manual. To optimize the performances and the life of your Airstream power unit, it is important to do regular maintenance according to the guidelines listed in this user manual.

### GENERAL GUIDELINES TO BE RESPECTED AT ALL TIMES:

1. The power unit must be installed in a well ventilated area, protected from weathering and away from all sources of heat.
2. This central vacuum system is design for dry surfaces only and must not be used on wet surfaces nor be used in any circumstances to pick up liquids or to clean wet carpets or any wet ground.
3. The filter plate must be covered at all times by the permanent filter during operation of the system.
4. The motor housing must never be obstructed in anyway to prevent damage or overheating.
5. Do not use this system to pick up liquids, mud or combustible materials. After vacuuming baking flour, talcum powder, cement or gypsum dust, clean the filter with a soft brush to avoid obstructions and clogs. Otherwise the power unit performances will be affected, the motor will overheat and may be damaged. **DO NOT REMOVE THE FILTER FROM THE POWER UNIT.**
6. Do not attempt to shorten or modify the power cord in any way.
7. As a safety measure, unplug the power cord prior to proceeding with maintenance or servicing.
8. In order for the warranty to remain valid; any repairs or servicing on the power unit must only be performed by an authorized service center.
9. The position of the power unit must be so, that the power cord and electrical outlet are always easily accessible.
10. Pertaining to the use of an electrified valve (110 VAC) (intended for the connection of a current carrying hose and electrically motorized brush):
  - Only connect a current carrying hose to this wall valve
  - Do not install a current carrying valve outdoors
  - Do not use a damaged hose, bring in the hose for repair at an authorized service center.

## 3. MODELS



### NOTE (Bypass Unit Only)

Do not block the air intake holes on the rear of the bypass power unit. Failure to do so can damage the motor.

An optional muffler can be installed to soften the sound. See **Important section 4, number 7** for more information

### NOTE

Select the intake that best suits your installation and block the unused intake with the supplied cap pictured below. DO NOT GLUE.



## 4. INSTALLATION



### NOTE

APPLICABLE TO ALL POWER UNITS:

In order to avoid overheating, we recommend that 12" (30cm) of clearance be kept all around the power unit.

The power unit must be installed in a well ventilated area, away from weathering, it must be easily accessible and away from any heat source. The power unit must be installed near an adequate electrical outlet.

## 5. LOW VOLTAGE SYSTEM INSTALLATION

Prior to connecting the low voltage wires, make certain that the power cord is unplugged from the electrical outlet.



1. First, strip the conductors of the low voltage wire for about 3/8" (10mm).



2. Insert the conductors of the low voltage wire in the terminals (live in the black terminal and neutral in the red terminal) while simultaneously pushing on their respective button. Give a light pull to the wire to make certain that it is well secured in the terminal.



3. To remove the conductors out of the terminals, lightly push the buttons as you simultaneously pull the wires out.

1. Determine the power unit location on the wall; we recommend that the power unit be hung at approximately 60" (1.5m) off the ground so that the debris container is easily accessible. Allow at least 12" (30cm) of clearance all around the power unit. If at all possible, you may mount the unit directly onto a concrete wall as to minimize the transmission of vibrations into the building.
  2. Installation on a gypsum wall (Gyprock):
    - Prepare the wall by installing a plywood mounting board (not provided) of 16" (40cm) high and 3/4" (2cm) thick wide enough to be screwed to at least 2 studs.
    - Drill three (3), 3/8" (10mm) holes with a wood drill bit Insert the supplied rubber inserts. Fasten the steel mounting bracket with the supplied screws.
  3. Installation on a concrete wall:
    - Drill three (3), 3/8" (10mm) holes with a concrete drill bit.
    - Insert the supplied rubber inserts.
    - Fasten the steel mounting bracket with the supplied screws.
- NOTE: You may also elect to install a plywood mounting board on the concrete wall.

### IMPORTANT

1. Always use the supplied screws and rubber inserts or the appropriate ones for the material you are working with (Wood, Steel, Brick etc.).
2. Mount the power unit onto the installed wall mounting bracket.
3. Connect the air and debris intake pipe to the PVC pipe network (DO NOT GLUE!)
4. Connect the low voltage wire to the terminals on the side of the power unit (as shown in section 5).
5. Verify that the permanent filter and the optional disposable bag are in place and that the debris canister is properly installed with the latches secured.
6. Plug in the unit's power cord into the electrical outlet.
7. Install the muffler (optional) to the exhaust pipe (DO NOT GLUE!). You may elect to vent to the outside with the help of a vent cap (optional).

## 6. SYSTEM OPERATING INSTRUCTIONS

Your new system is now ready to be used. Here are a few simple guidelines to follow when you are using your Airstream Central Vacuum System: Insert the wall end of the hose into one of the vacuum valves installed throughout your home, and you are ready to start.

### NOTE

In regards to the low voltage system: All vacuum inlet valves are fitted with two (2) spring loaded metal pins (see inside the valve opening). When the two (2) metal parts of the hose wall end are in contact with the two (2) pins inside the valve, the system is energized. You may now turn it on or off from the hose handle switch (if this option was selected).

The low voltage cable is connected in parallel from every valve, it runs all along the pipe network and brings the power to the remote switch so to remotely start or stop the power unit in all safety. A standard flexible hose, not fitted with an interrupter, will start the power unit as soon as it is inserted in the valve opening.

## 7. SYSTEM MAINTENANCE

### SELF CLEANING FILTER

In order to maintain optimal air quality in your home, the power unit comes supplied with a high efficiency HYBRID filtering system. A permanent self cleaning filter together with an optional disposable bag.

After vacuuming baking flour, talcum powder, cement or gypsum dust, clean the filter with a soft brush to avoid obstructions and clogs. Otherwise the power unit performances will be affected, the motor will overheat and may be damaged. **DO NOT REMOVE THE FILTER FROM THE POWER UNIT.**



### IMPORTANT

This Airstream hybrid power unit may be used with or without a disposable bag.

The disposable bag installs as shown here:

1. Remove the debris canister.
2. Remove the dirt filled bag.
3. Install the new bag by twisting it.
4. Verify and clean (if necessary) the permanent filter.
5. Replace the debris canister and secure the latches.



### NOTE

When replacing the disposable bag, make sure that the rubber diaphragm is correctly installed onto the intake PVC pipe. Make sure that the bag is not cut or damaged. Make sure that the canister is secured in place prior to restarting the power unit. It is recommended to replace the disposable bag or to empty the debris canister as well as to clean the permanent filter 3 or 4 times per year. If the system is used more frequently than normal, repeat the above procedure more often.

### IMPORTANT

NEVER USE this system to pick up liquids, mud or combustible materials. After vacuuming baking flour, talcum powder, cement or gypsum dust, clean the filter with a soft brush to avoid obstructions and clogs. Otherwise the power unit performances will be affected, the motor will overheat and may be damaged. **DO NOT REMOVE THE FILTER FROM THE POWER UNIT.**

### MOTOR

This Airstream power unit is equipped with a soft-start controller and a delayed stop. A warning is automatically programmed after 500 hours of usage. The inspection and the maintenance of this appliance must be done in an authorized service center. A Mini-breaker shall cut-off power to protect the motor in the event of a power surge which may cause the motor to overheat. The low voltage technology system communicates the power unit status through a multicolour LED on the side of the unit. Please consult the interpretation chart in section 9.



## 8. TROUBLESHOOTING

### GENERAL

The following may cause failure of the power unit:

- Inadequate electrical power (Voltage or Amperage), verify that the electrical power supplied complies with the power unit's requirement. or;
- Abnormal performances of the electronic control module or the motor

Before calling a service technician, in case of a malfunction, please review the following situations by running the following simple diagnostics:

SITUATION	VERIFICATION
<b>THE POWER UNIT DOES NOT OPERATE</b>	Verify that there is power to the electrical outlet.
	Verify the breaker or the fuse in the electrical panel.
	Verify that the power cord is adequately plugged into the electrical outlet.
	Verify that the mini-breaker button on the side of the unit is pushed-in.
	Short-circuit the low voltage connections on the side of the power unit. If the power unit starts, the problem is somewhere else in the valve network wiring or on the current carrying hose.
	Verify that all low voltage connections are adequate at every valve location. Open every valve, one at a time, and make contact between the two (2) small pins with a metal object. If all the valves work properly, take a look at the low voltage circuit or switch on the hose.
	If the power unit still does not work after the above diagnostic, bring the unit to the nearest authorized service center.

SITUATION	VERIFICATION
<b>LOW OR NO SUCTION OR AIR FLOW AT ALL</b>	Make sure you have blocked the second air intake with the supplied cap. See section 3 for more information.
	Verify the cleaning tool or the hose for possible obstruction. If the hose is obstructed, try to "massage" the clog out. Try to "reverse" the hose by inserting the cleaning end of the hose in the wall valve and making contact with the two (2) small metal contact pins, hold your hand around the opening for air tightness.
	Verify if the disposable bag is full, if so replace disposable bag and/or that the filter may be clogged, if so clean the permanent filter with a soft brush. DO NOT REMOVE THE FILTER FROM THE POWER UNIT.
	Verify if the debris canister is adequately placed on the unit with no air leaks.
	Verify that all other valves are shut and that there is no air leaks.
	If one of the vacuum valves has noticeably less power than the others, it is sign of a clog at this particular valve. Write a different number on a few paper tissues and pick one up in every valve in the home; see in the debris canister which one is missing so to find which valve is obstructed.
	If none of the valves function properly and that the power unit is running; unhook the pipe on the side of the power unit debris intake line If you have plenty of power there, it is a sign that the clog is between the last valve and the power unit.
	If the power unit still does not work after the above diagnostic, bring the unit to the nearest authorized service center.

## 9. LOW VOLTAGE SYSTEM TECHNOLOGY

### LED status interpretation guide

This Airstream Central Vacuum Power Unit is provided with an LED status indicator to keep you informed on the different states and functions during its operation. Reading the following table will allow you to identify the status of your appliance by the different behaviors of the LED.

Status	Colour	Legend
○	<b>OFF</b>	The power cord is unplugged. No power.
⦿	<b>GREEN</b>	The unit has just been plugged in or power restored. The LED will flash rapidly for a few seconds and become solid again ●.
●	<b>GREEN</b>	The power unit is operational.
⦿	<b>GREEN</b>	Stop the power unit, replace the bag and clean the permanent filter if required (after 15 hours of usage), reboot the unit by pressing the small button for 5 seconds. The LED will return to ●.
⦿	<b>RED</b>	The 500 hours motor inspection is now required, otherwise the motor may get damaged.
⦿	<b>RED</b>	Stop the power unit and have service done on the unit immediately at an authorized service centre.
Slow Blinking LED ⦿ Fast Blinking LED ⦿ Solid LED ●		

## 10. SAFETY NOTES

### PRECAUTIONS:

- Make certain that the work area is safe and clear prior to installing your new Airstream Central Vacuum Power Unit.
- Wear the necessary safety clothing & equipment prior to start i.e.: goggles, gloves etc.

### YOU WILL NEED THE FOLLOWING TOOLS:

- **Hammer**
- **Phillips head screwdriver**
- **Measuring tape**
- **Level**
- **Power Drill; with wood or concrete bit, 3/8" (10mm)**
- **Pliers**
- **Wire strippers**



# Limited Warranty- Central Vacuums

## General Policy

Airstream Central Vacuum Systems and Accessories are manufactured with the highest quality components and workmanship.

This warranty is limited to the original owner, non-transferable for a normal household application. Specifically excluded from this warranty are failures and/or defects caused by accident, misuse, neglect and abuse, including tampering use on a frequency or voltage other than marked on the product unit. As well, any use of the unit and/or accessories on wet surfaces will void any applicable warranties. All warranty claims remain at the sole discretion of Airstream Central Vacuum.

The following are the warranty policies:

## Power Units, Motors & Electronics:

Airstream Electric warrants all central vacuum power unit bodies, motors and electronic components to free from original defects in design, materials and workmanship as outlined in **figure 1.0**, from date of delivery to the original Purchaser. During this period should the product appear to be defective, Airstream may, at its choosing decide to repair or replace the said defective product. All installation/removal labor costs, transport costs to and from the Purchaser, will be the responsibility of the Purchaser.

The Purchaser will be required to supply a copy of the original purchase receipt. No returns to Airstream will be accepted without a return authorization from an Airstream representative. (customer service department)

## Accessories:

Accessories, including power nozzles, hoses and tools are all warranted for a period of two (2) years from date of delivery to the original Purchaser. The warranty does not cover the turbines, lamps, belts, carbon brushes and roller bearings from any power nozzles. During this period should the product appear to be defective, Airstream may, at its choosing decide to repair or replace the said defective product. All installation/removal labor costs, transport costs to and from the Purchaser, will be the responsibility of the Purchaser.

The Purchaser will be required to supply a copy of the original purchase receipt. No returns to Airstream will be accepted without a return authorization from an Airstream representative. (customer service department) ·

For all questions or claims, please contact our customer service department at [customerservice@airstreamvacuums.com](mailto:customerservice@airstreamvacuums.com)

Warranty Periods by Model:					
AS600ST-18	AS600TF-22	AS650TF-22	AS600TF-32	AS650BP-32	AS700TF-32
5 Year Parts	7 Year Parts	7 Year Parts	10 Year Parts	10 Year Parts	10 Year Parts
3 Year Labour	5 Years Labour				

Figure 1.0



For future references, take note of the following information:

Serial number: \_\_\_\_\_

Date of purchase: \_\_\_\_\_

Purchased at: \_\_\_\_\_

Please keep a copy of your invoice together with this manual

For replacement filters and bags, contact your local dealer  
or visit [www.airstreamvacuums.com](http://www.airstreamvacuums.com)