PERSONAL HOSE

RETRACTABLE HOSE SYSTEM

INSTALLATION MANUAL

USER MANUAL

MANUFACTURED BY GV INDUSTRIES

TABLE OF CONTENTS

WARNING

This manual assumes that the installer has working knowledge and experience in the installation of traditional central vacuum systems.

It is of the utmost importance that only parts designed for the retractable hose system is used in the installation. These parts include hoses, washers, seals, screws, sweep 90's, 40's, etc. Non compliance with this procedure will result in the voiding any warranties offered by the manufacturer.

Installers are responsible for compliance to all local building codes and regulations.

PLAN THE INSTALLATION

Good planning is the key to a successful installation of a central vacuum system.
Choosing the best location for the inlet valves and the practicality of installing in these locations is a very important step towards a balanced objective. Most locations can be attained with little persistence.

Hose Lengths

Customers should be informed that you will custom hose sizes to fit each floor. Hose kits come in 9,1 m (30'), 12,2 m (40') or 15,2 m (50') lengths.

Power Unit selection

It is important to note that suction power is reduced with longer hoses.
In order to compensate for this loss of suction power a larger power unit may be required.

Valve locations

A 15,2 m (50') hose will normally cover between 167 to 213 m2 (1800 to 2300 sq ft).
The location of the inlets should preferably be placed in a hallway or other areas without high visibility.

Plan Pipe Runs

The section in this guide on "Pipe Runs" should be carefully read.
A diagram is also provided on four typical pipe runs.

ROUGH IN

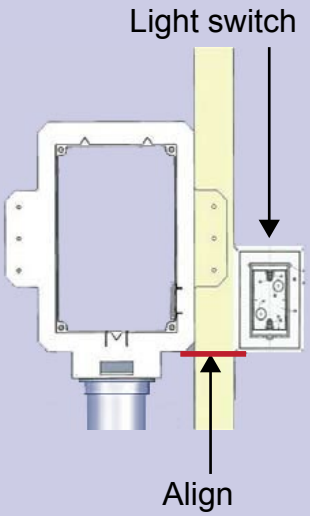
Rough In Kit

Valve Assembly

Door

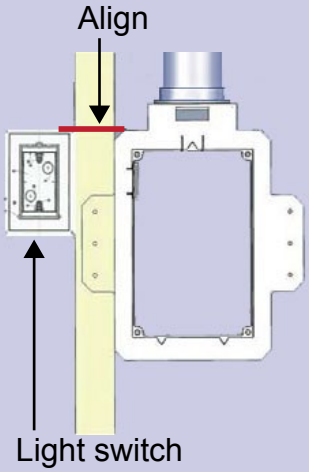
Determine Valve Height
In a down orientation

(tubing is being run in the crawl space), align the bottom of the valve with the height of the electrical plug outlets (about 27,9 cm (11")).
Mounting the valve higher in a down orientation creates a more difficult angle for hose retraction.



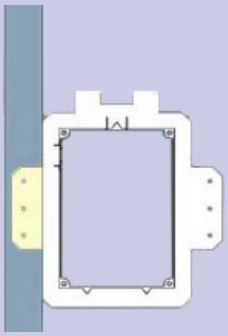
Determine Valve Height
In an up orientation

(the hose exits the valve towards the ceiling), it is more convenient for most people that the valve mounted is at the height of the light switch outlets.

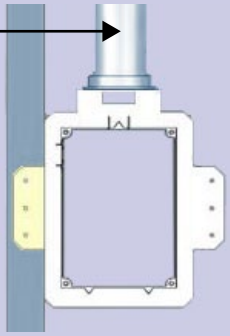


NEW CONSTRUCTION

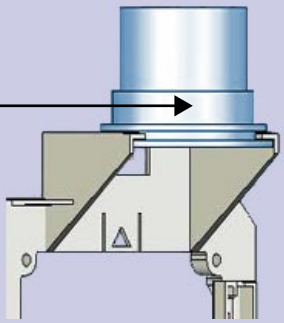
Attach the frame to the stud (2x4). Ensure that the frame is levelled.



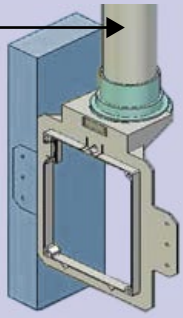
Insert the pipe fitting.



The pipe fitting is designed to slide in the frame to adjust for any variations in the thickness of the wall board. The maximum wall thickness that the valve can adjust to is 1,9 cm (3/4").

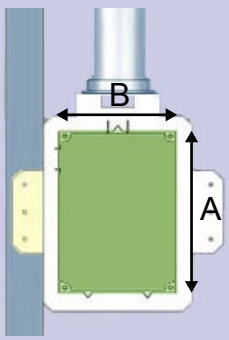


Install the pipe into the fitting. Glue the pipe into the fitting, ensuring that it seats all the way to the ridge of the pipe fitting.



Install the temporary cover.

A=17,3 cm (6,8")
B=11,8 cm (4,6")



Pipe Runs

Refer to the diagrams on the next pages.

Do not join Pipe Run until you have enough pipe length to hold the hose. As an example, if you are using a 12,2 m (40') hose, you must install at least 13,4 m (44') of pipe before connecting to another pipe run.
In order to ensure enough pipe to store the hose, the pipe runs will sometimes need to begin running away from the power unit, then proceed to make a loop and head back to the power unit.

Any burr or excess glue glob can damage and snag the hose sock while moving through the tubing. To prevent this from happening always ensure that only the pipe is glued and not the fittings.
Please ensure that all burrs are removed from the pipe end that were cut. Inspect the pipe carefully in order to make sure that the inside is smooth, and is also round and free of any damages.

Only fittings designed for retractable hose systems can be used in the sections of pipe that store the hoses **(figure 1)**. A 22.5° followed by a 90° is often needed to get around an obstacle **(figure 2)**. Try to space out 90's as much as possible. The more 90's used the more force is required to pull the hose out of the valve. Whenever possible try not to use more than 4 90's for each valve. Try not to use back to back 90's **(figure 3)**.

It is also important to ensure that when planning the installation, the hose is stored on one level **(figure 4)**. Avoid storing the hose on two different levels **(figure 5)**.

fig.1

fig.2

fig.3

fig.4

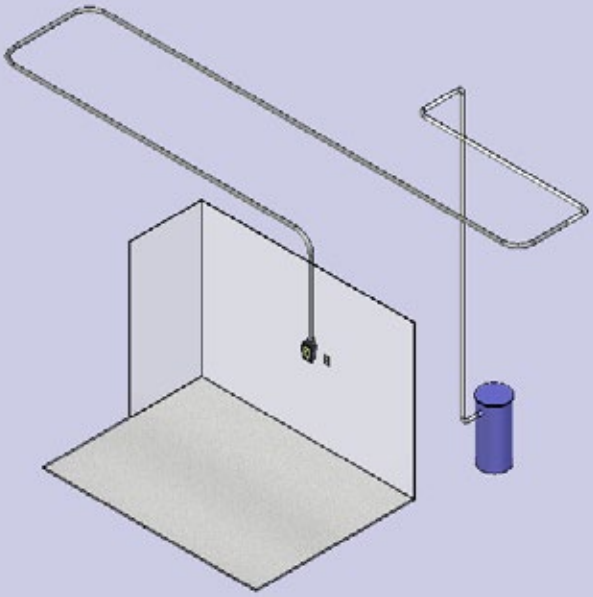
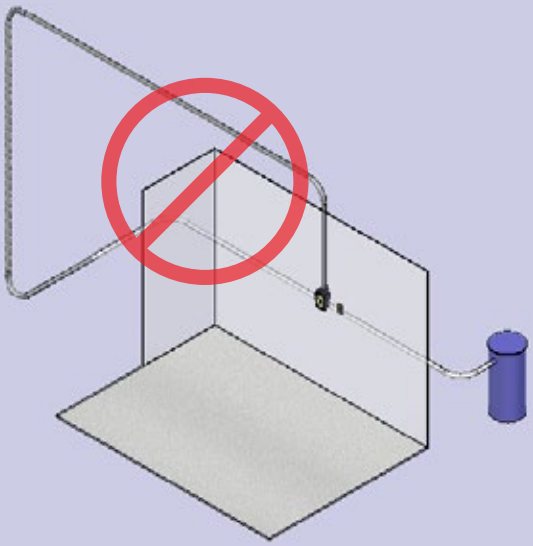


fig.5



NEW CONSTRUCTION (CONT.)

Low voltage wire

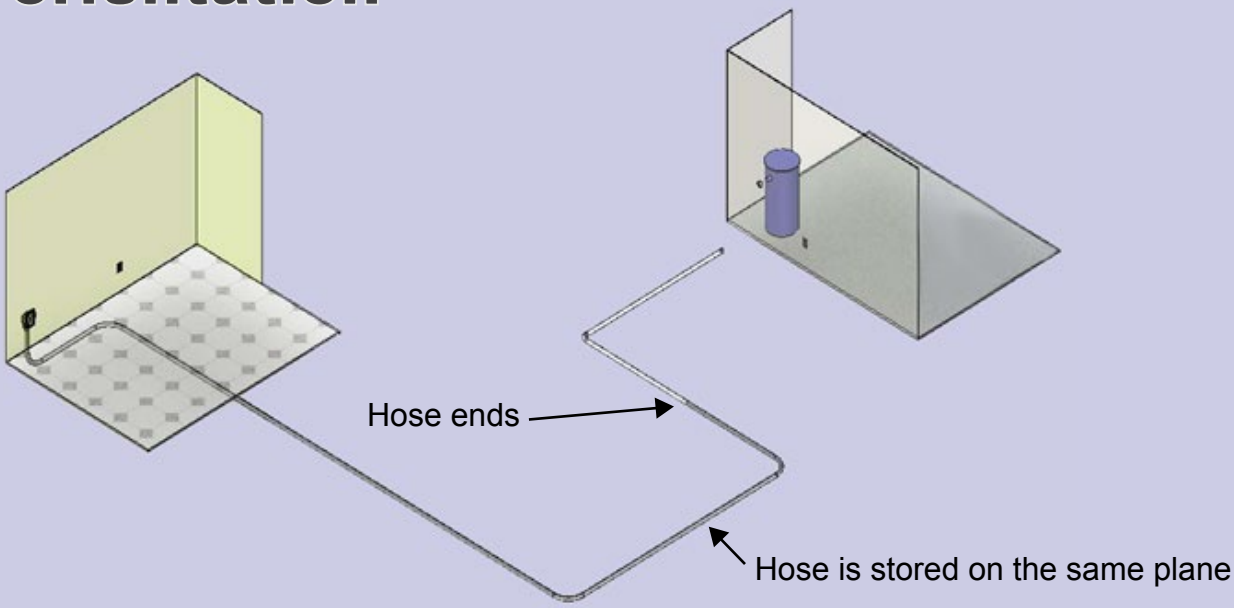
Run low voltage wire to each inlet just as you would in a central vacuum installation.

Test the system

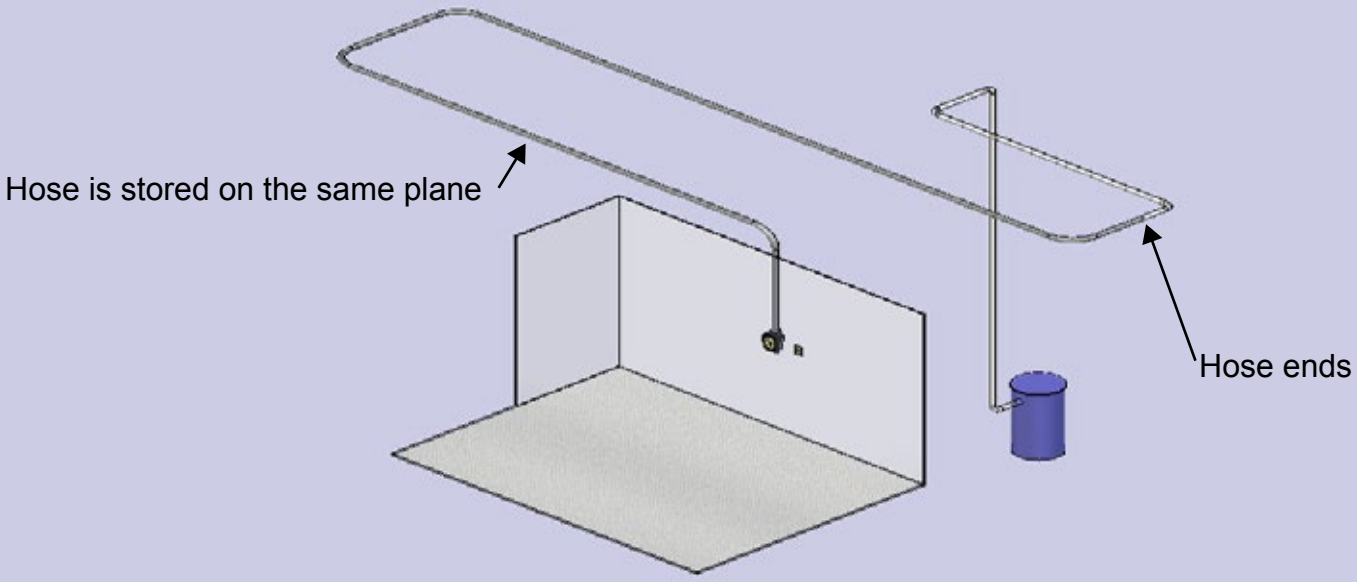
It is recommended that the system is tested by retracting the hose before sheet rocking the walls. Because the doors are needed to seal the system, a handball can be placed on each valve opening that is not being tested to seal the system.
In an up orientation the handball will need to be taped in place.

Using a portable vacuum source check that the system is properly sealed. By using a suction gauge, ensure that the loss of suction (water lift) between the sealed valve and the power unit is not more than 12,7 cm (5”).

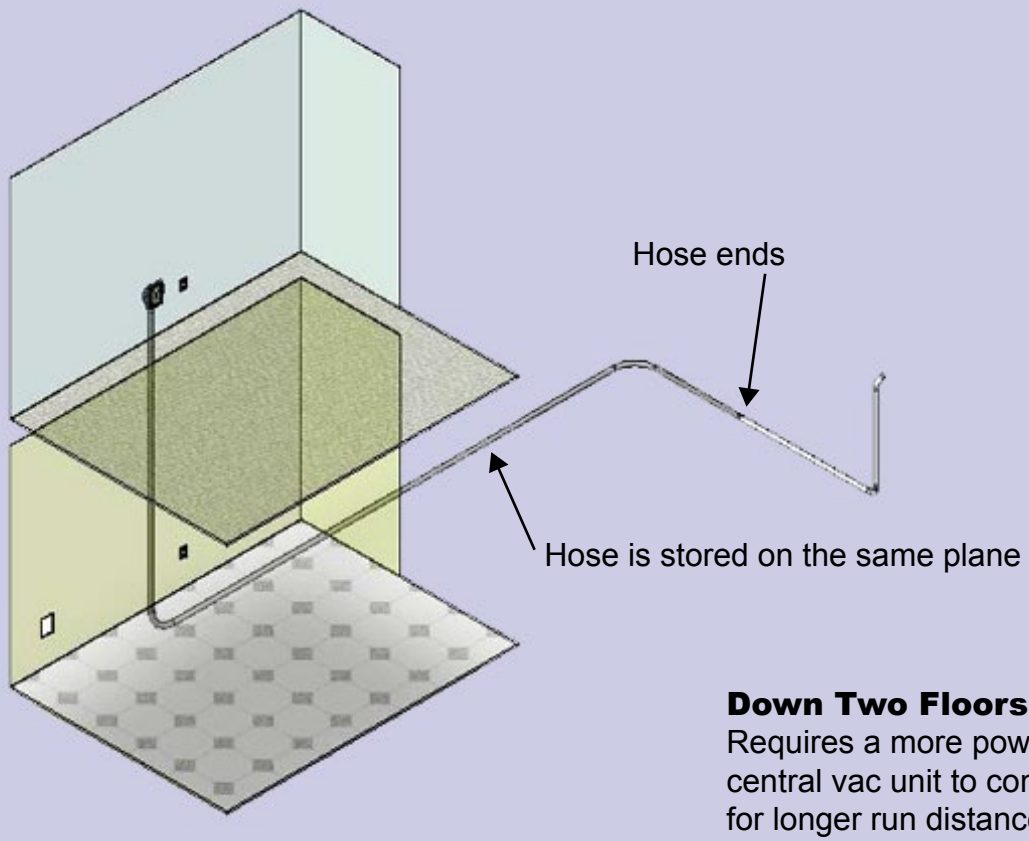
down orientation



up orientation

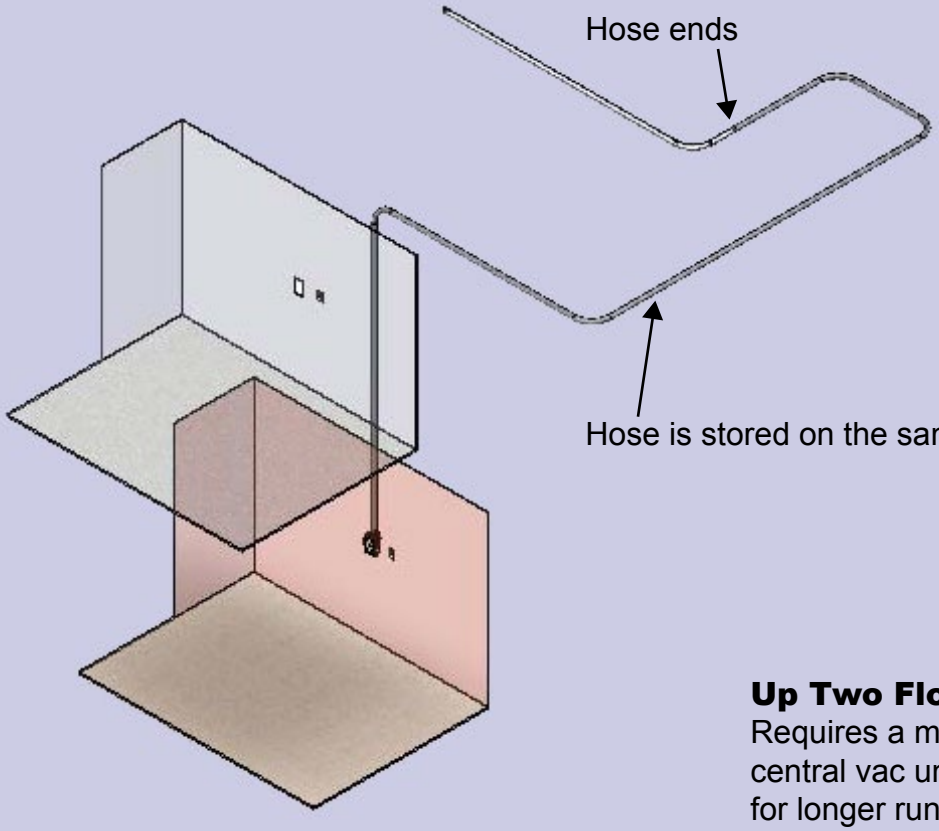


down two floors



Down Two Floors
Requires a more powerful central vac unit to compensate for longer run distances.

up two floors



Up Two Floors
Requires a more powerful central vac unit to compensate for longer run distances.

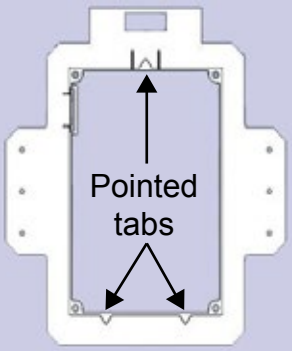
TRIM KIT

Trim Kit

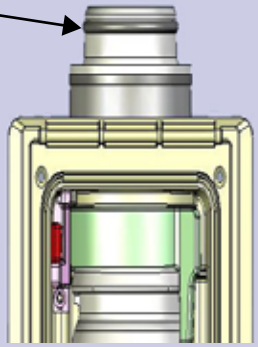
Valve Assembly

Door

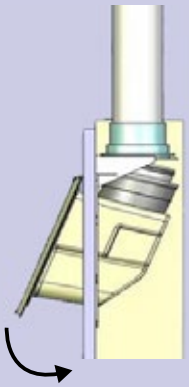
The pointed tabs are used to secure the frame to the sheet rock while you install the valve.
In new constructions, it is likely that these tabs were cut off by the sheet rock installers.
You may consider to push small finish nails horizontally into the sheet rock through the holes in the side of the frame.



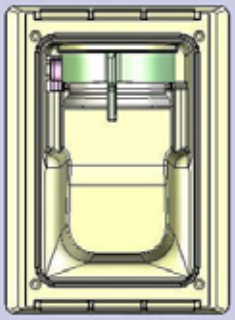
Apply a lubricant to the o-ring.



Using wire nuts, connect the two leads from the switch (on the outside of the valve) to the low voltage wire.
Insert the valve assembly into the rough in frame.



Align the four holes in the valve assembly with the holes in the frame.
Secure with the four screws provided with the trim kit.



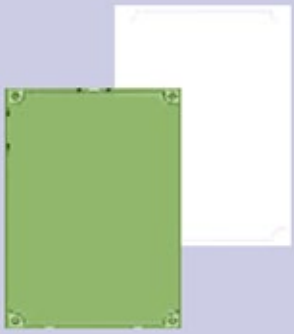
Install the door by lining up the door and valve hinge while pressing it gently into place.

width = 10 cm (3,9")
height = 15 cm (5,9")
thickness = 0,8 cm (0,3")

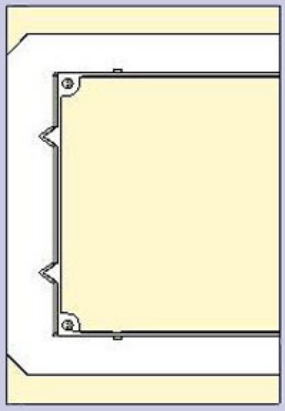
TRIM KIT (CONT.)

Retrofit an existing home

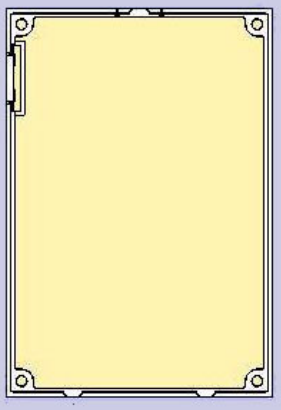
Use the temporary cover as a template to cut the hole.



Insert the rough in frame vertically, then turn it back upright behind the wall.
Depending on how close you are to a stud (2x4), you may be required to cut off one or both of the mounting tabs.



Push the two bottom pointed tabs into the sheet rock. The top pointed tab can be bent down as you pull the top of the frame into the hole.
The tabs will help hold the frame in place while you install the valve.
You may need to push a couple of small finish nails horizontally into the holes located on the side of the frame.



Follow the same instructions for installing the pipe runs and trim.

IMPORTANT SAFETY INSTRUCTIONS

Read all instructions before using your Built-in Vacuum Cleaning System.
WARNING – To reduce risk of fire, electrical shock or injury.

- Disconnect power units electrical plug before servicing.
- Do not use outdoors or on wet surfaces.
- Do not allow it to be used as a toy. Close attention is necessary if used by or near children.
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- Do not handle hose, outlets, or unit with wet hands.
- Keep hair, loose clothing, fingers, and all parts of the body away from openings and moving parts.
- Do not pick up anything that is burning or smoking such as cigarettes, matches, or hot ashes.
- Do not use without dust bag and / or filters in place, if required by power unit.
- Observe extra care when cleaning on stairs.
- Do not use to pick up flammable or combustible liquids such as gasoline, or use in areas where they may be present.
- Do not store flammable or combustible products within 1 meter of the unit.

SAVE THESE INSTRUCTIONS!

TO OPERATE

1

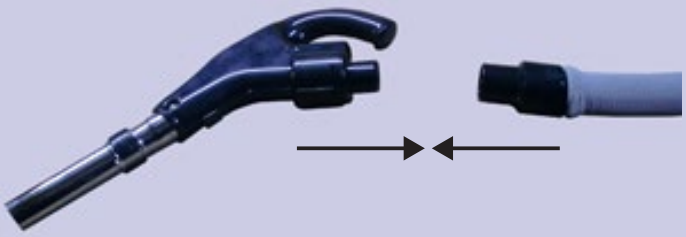
Open the door and pull out amount of hose required.
(Note: When you get to the end of the hose it will stop. A strong tug at the end will pull the hose out of the inlet.)

2

Place the locking mechanism into the "locked" position
(Note: The locking mechanism prevents the hose from retracting while operating.)

3

Connect the handle to the hose through the connector.



4

Pull out the red switch in the inlet valve to turn the system ON.

5 Attach the appropriate cleaning accessory and begin vacuum.

TO RETRACT THE HOSE

1

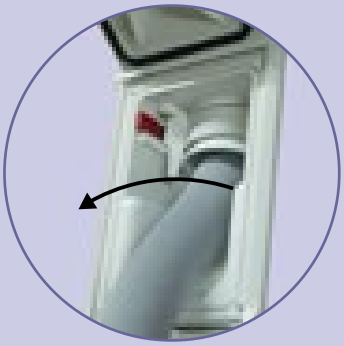
With the power unit still ON bring hose back near to inlet valve.

2

Leave power unit running and disconnect the handle.

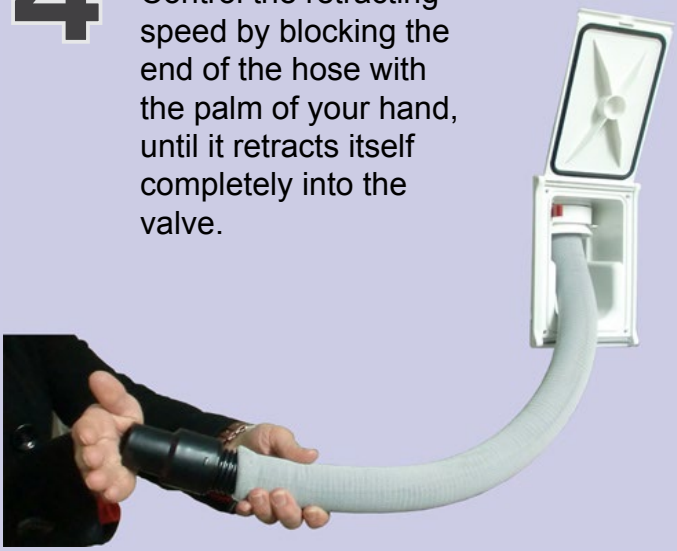
3

Move locking mechanism to the unlocked position.



4

Control the retracting speed by blocking the end of the hose with the palm of your hand, until it retracts itself completely into the valve.

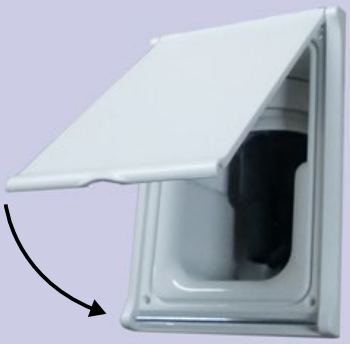


5

Turn the unit OFF after the hose retracts completely into the valve.

6

Close the door.



TROUBLESHOOTING

HOSE HAS DIFFICULTY RETRACTING

Because the hose stretches and retracts when pulled, over time the hose sock can move towards the end of the hose.

This results in the hose sock bunching up at the end of the hose and become too tight, making it difficult to travel through the turns in the pipe.

Starting at the handle end of the hose work the extra hose material back towards the front end of the hose. To test if the hose sock tension is correct hold the hose about 90 cm from the end and it should be able to bend.

Sometimes the inside of the pipe can become rough or pitted causing friction and slowing down the movement.

Use a silicone lubricant spray on at the end of the hose (the one entering the inlet), retracting repeatedly.

If you still have problems call your authorized Personal Hose Dealer or Agent.

VACUUM POWER UNIT WILL NOT TURN ON

Check main home breaker panel to establish that Power Unit breaker is ON.

Check PU Reset button.

Check the PU plug with another appliance to ensure it is working properly.

Check that PU is plugged IN.