

**DrainVAC**  
drainvac.com



# OWNER'S MANUAL

## AUTOMATIK SERIES



For an online version of this manual  
(readable with a smart phone)



Avertissements/Warning/Avviso/Alerta/Warning

Ne jamais utiliser cet appareil pour aspirer des matières inflammables, toxiques ou dangereuses lorsque l'unité est connectée à l'égout sanitaire.

Never use the vacuum flammable and hazardous materials when this unit is connected to the sanitary sewer.

Nunca use esta unidad para aspirar materiales inflamables, tóxicos o peligrosos cuando la unidad se conecta al alcantarillado sanitario.

**INTRODUCTION**

We wish to thank you for your trust and congratulate you for having chosen a Drainvac product. It is a sound investment that will satisfy your vacuuming needs for years to come. The concept of Drainvac’s Automatik central vacuum cleaners is unique and patented. They are manufactured and checked at our plant by our qualified staff who have been specifically trained to this end. A number of installation and operating methods must be followed to ensure your system’s maximum performance and to avoid unnecessary service calls. Please read this manual carefully.

**REGISTRATION**

To fill in the Drainvac product registration form, go to [www.drainvac.com/enregistrement](http://www.drainvac.com/enregistrement)

**WARNING**

Never vacuum liquid or gaseous flammable materials with your system.  
Never vacuum ashes with your system.  
*Drainvac International 2006 Inc.* disclaims any responsibility should you infringe upon these guidelines.



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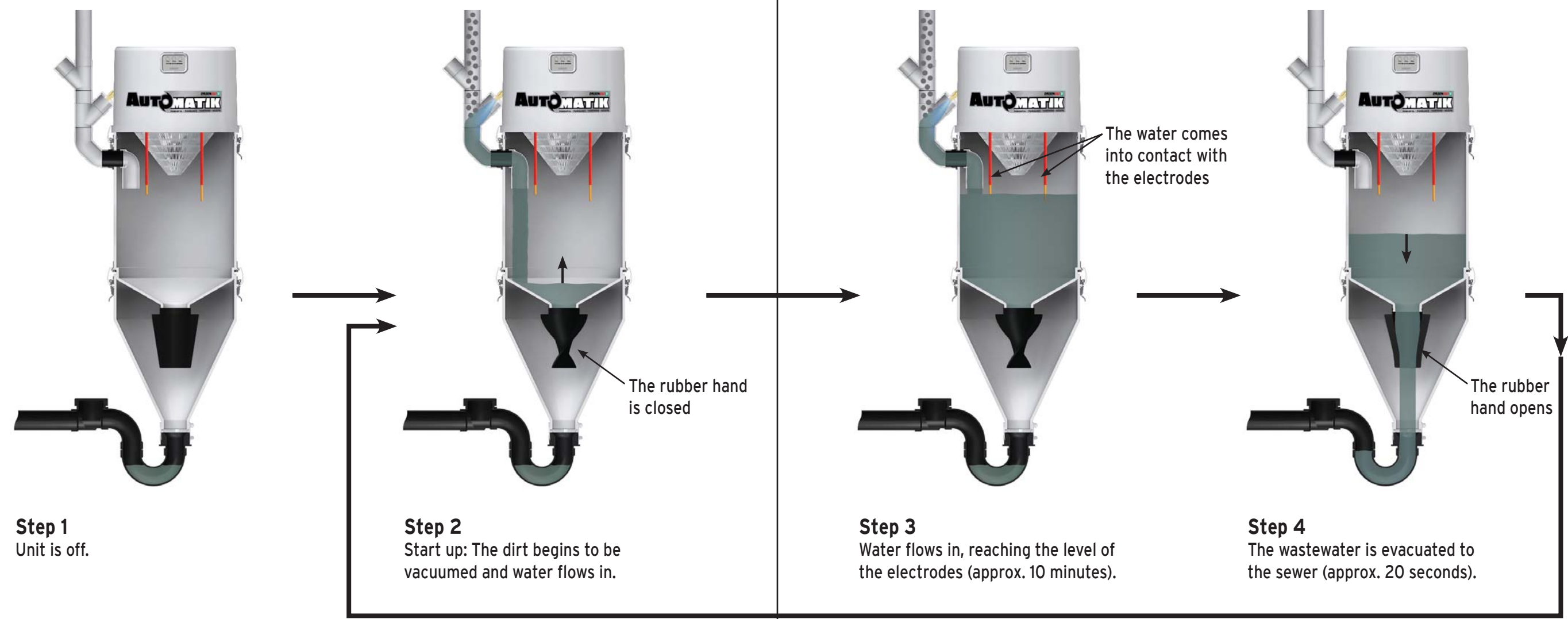
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# HOW THE SYSTEM WORKS

Drainvac central vacuum cleaners are designed to vacuum both **solids and liquids**. The tank never has to be emptied manually since the systems are directly connected to the building's drainpipe through which the wastewater is automatically evacuated.

## OPERATION SEQUENCE



To see a video of the sequence, go to <http://youtu.be/KdPL3ysamgY>

# HOW THE SYSTEM WORKS

TYPE OF UNITS

You have purchased one of the following models. Identify which one to read the information related to it. The model number appears on the technical label on the left side of your unit.



TECHNICAL SPECIFICATIONS

NORTH AMERICA (120V)

MODELS	AIRWATTS	H <sub>2</sub> O	CFM	DECIBELS	MOTOR	AMPS	CAPACITY (gal./l)	DIMENSIONS (in/cm)
DV1A150	700	130	150	66	1	14	4 gal / 18 L	12"dia. x 37" / 30 cm dia. x 93cm
DV2A310	2 x 355	160	106	68	2	18	6 gal / 29 L	15"dia. x 49" / 38cm dia. x 122.5cm
DV2A31	2 x 355	160	106	68	2	18	6 gal / 29 L	15"dia. x 49" / 38cm dia. x 122.5cm
DV2A32	4 x 355	160	200	78	4	2 x 18	6 gal / 29 L	15"dia. x 49" / 38cm dia. x 122.5cm
DVDC40	2 x 395	180	115	72	2	2 x 13	6 gal / 29 L	15"dia. x 49" / 38cm dia. x 122.5cm

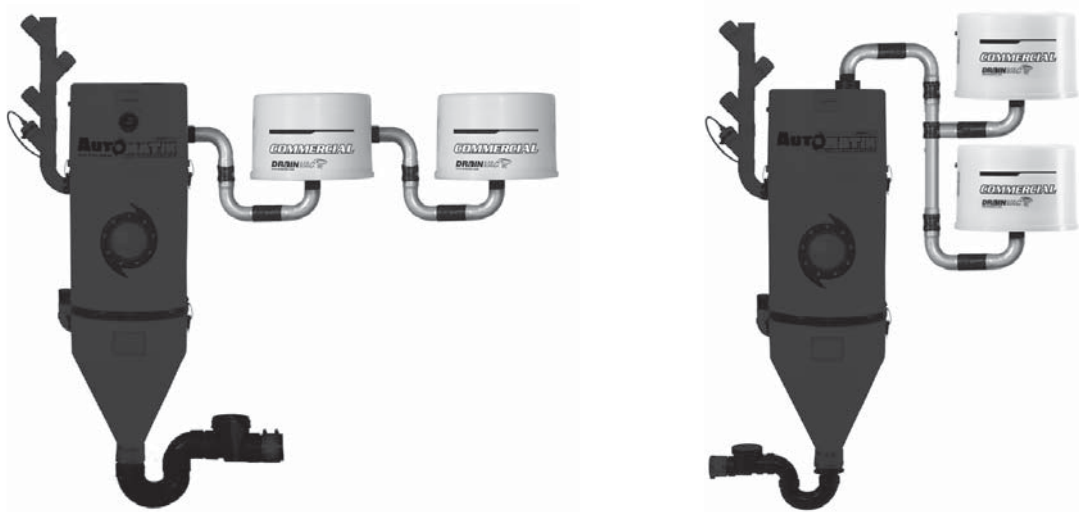
INTERNATIONAL (240V)

MODELS	AIRWATTS	mmH <sub>2</sub> O	m <sup>3</sup> /h	DECIBELS	MOTOR	AMPS	CAPACITY (gal./l)	DIMENSIONS (in/cm)
DF1A150	700	3300	290	66	1	8	4 gal / 18 L	12"dia. x 37" / 30 cm dia. x 93cm
DF2A310	2 x 355	4064	195	68	2	10,8	6 gal / 29 L	15"dia. x 49" / 38cm dia. x 122.5cm
DF2A31	2 x 355	4064	195	68	2	10,8	6 gal / 29 L	15"dia. x 49" / 38cm dia. x 122.5cm
DF2A32	4 x 355	4064	340	78	4	2 x 10,8	6 gal / 29 L	15"dia. x 49" / 38cm dia. x 122.5cm
DFDC40	2 x 395	4609	194	72	2	2 x 7,5	6 gal / 29 L	15"dia. x 49" / 38cm dia. x 122.5cm

Refer to pages 9 to 14 for a detailed illustration of your model.

BOOSTER HEAD OPTION

Booster heads are also available on certain models to add extra power to your unit.



TECHNICAL SPECIFICATIONS

NORTH AMERICA (120V)

MODELS	AIRWATTS	H <sub>2</sub> O	CFM	DECIBELS	MOTOR	AMPS	DIMENSIONS (in/cm)	FOR MODELS...
TETE01	395	110	110	75	1	13	15"dia. x 12" / 38cm dia. x 30cm	DVDC40
TETE06	2 x 355	160	106	78	2 (in series)	18	15"dia. x 12" / 38cm dia. x 30cm	DV2A31

INTERNATIONAL (240V)

MODELS	AIRWATTS	mmH <sub>2</sub> O	m <sup>3</sup> /h	DECIBELS	MOTOR	AMPS	DIMENSIONS (in/cm)	FOR MODELS...
TETE02	395	2921	194	75	1	7,5	15"dia. x 12" / 38cm dia. x 30cm	DFDC40
TETE05	2 x 355	4064	195	78	2 (in series)	11	15"dia. x 12" / 38cm dia. x 30cm	DF2A31

If your Automatik system is equipped with an auxiliary 24V outlet, you can add one or several additional booster heads at any time.

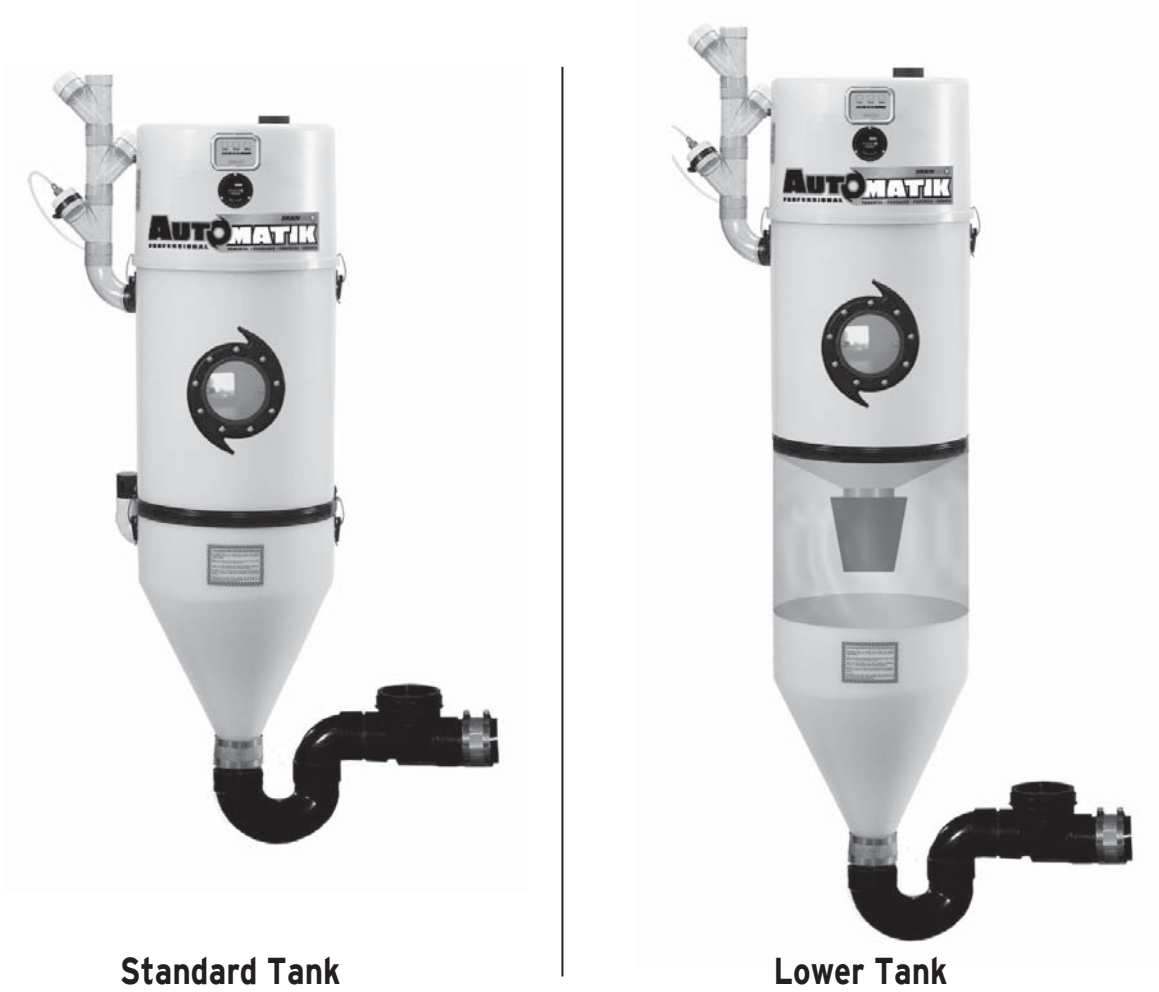
Contact your retailer or distributor for more information.



ADVANTAGES OF A LOWER TANK

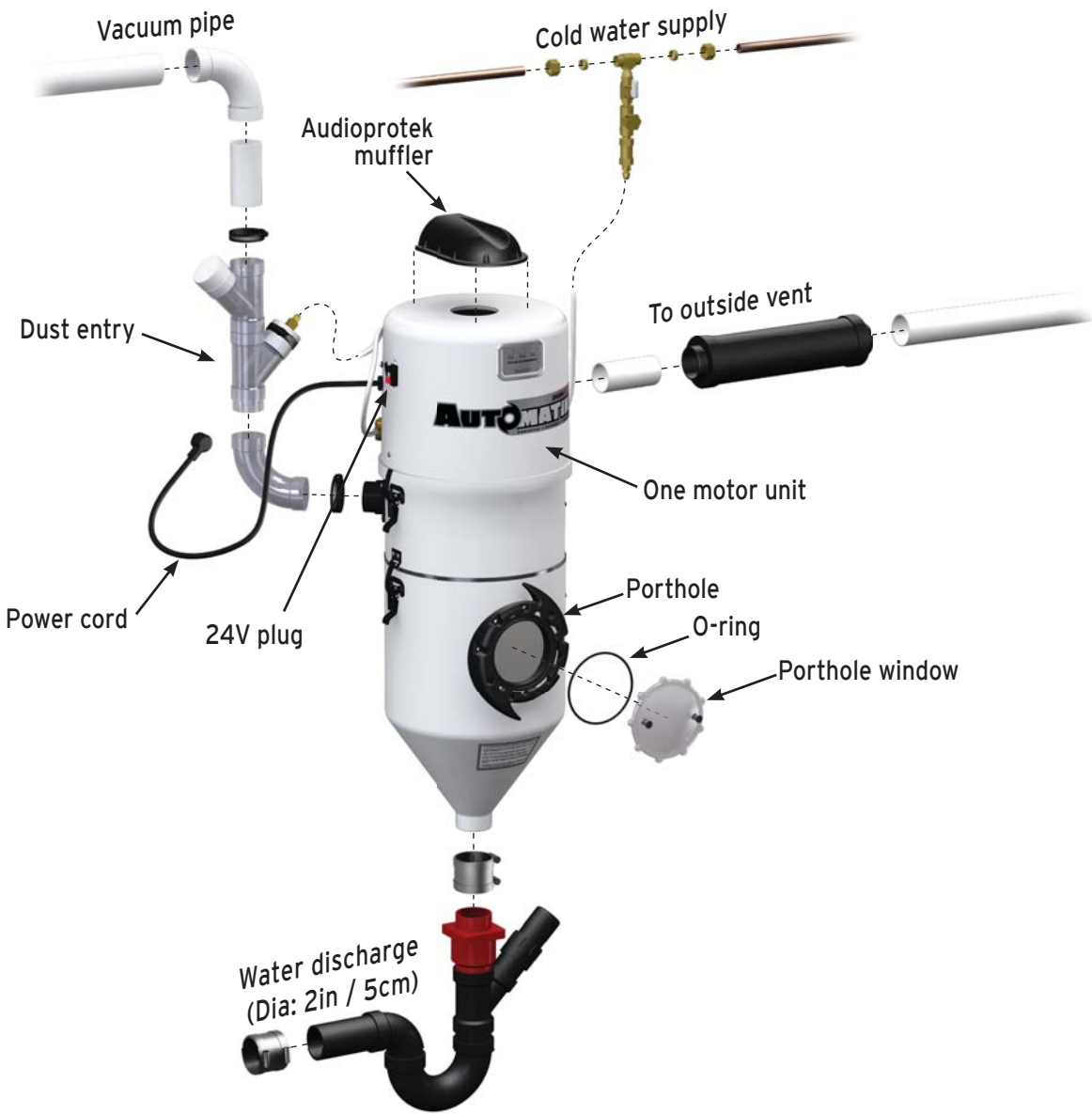
- Facilitates maintenance.
- To remove oversized materials or an accumulation of hair, paper, etc.
- Strongly suggested when the unit is used by many people (commercial applications).

The lower tank option is always recommended when enough space is available.



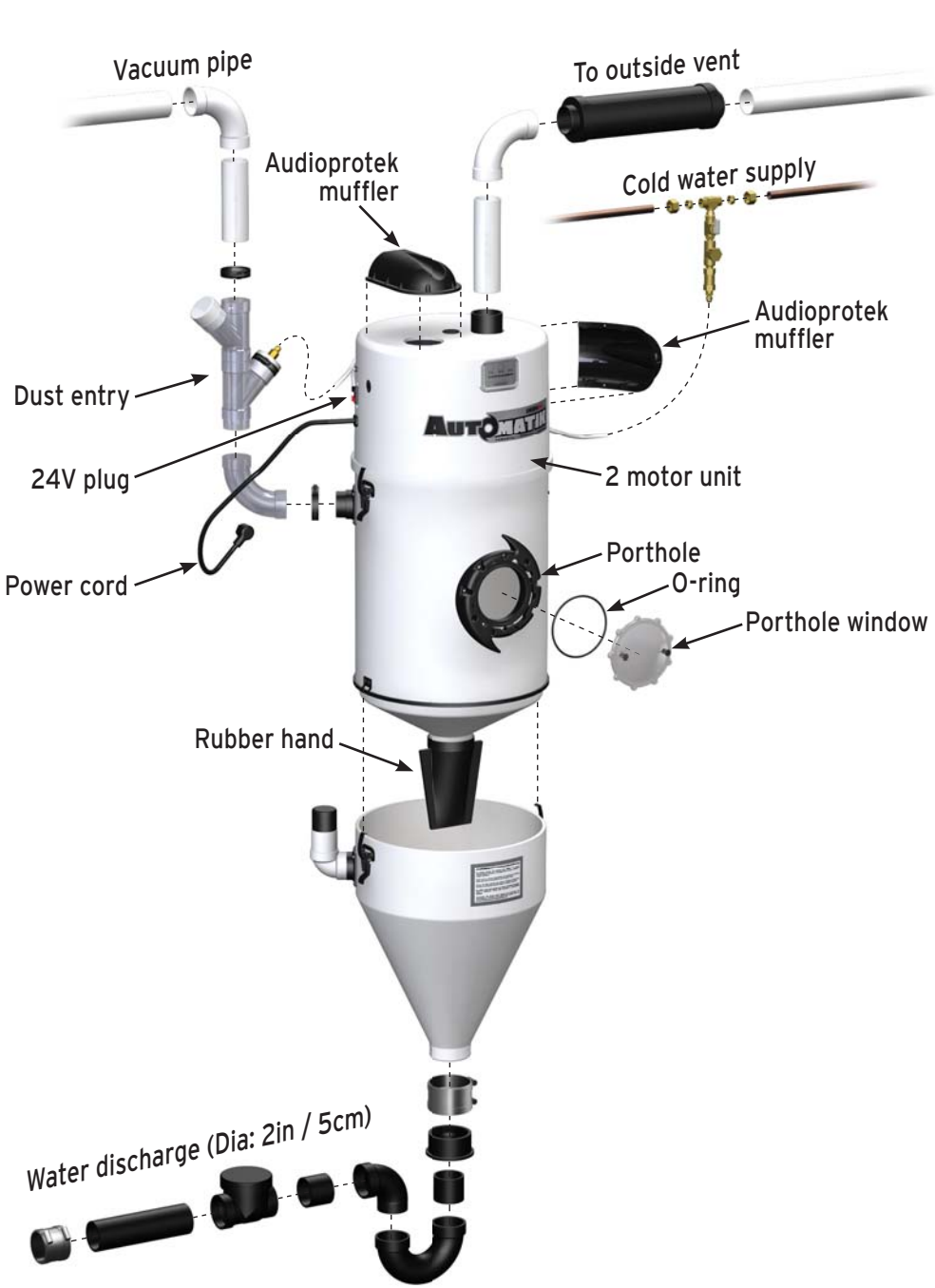
Please note that a standard tank system can be replaced by a lower tank system at any time and on all models. Contact your retailer or your distributor for more information.

Please note that the default models illustrated in this manual will be the standard tank model to simplify the illustrations.



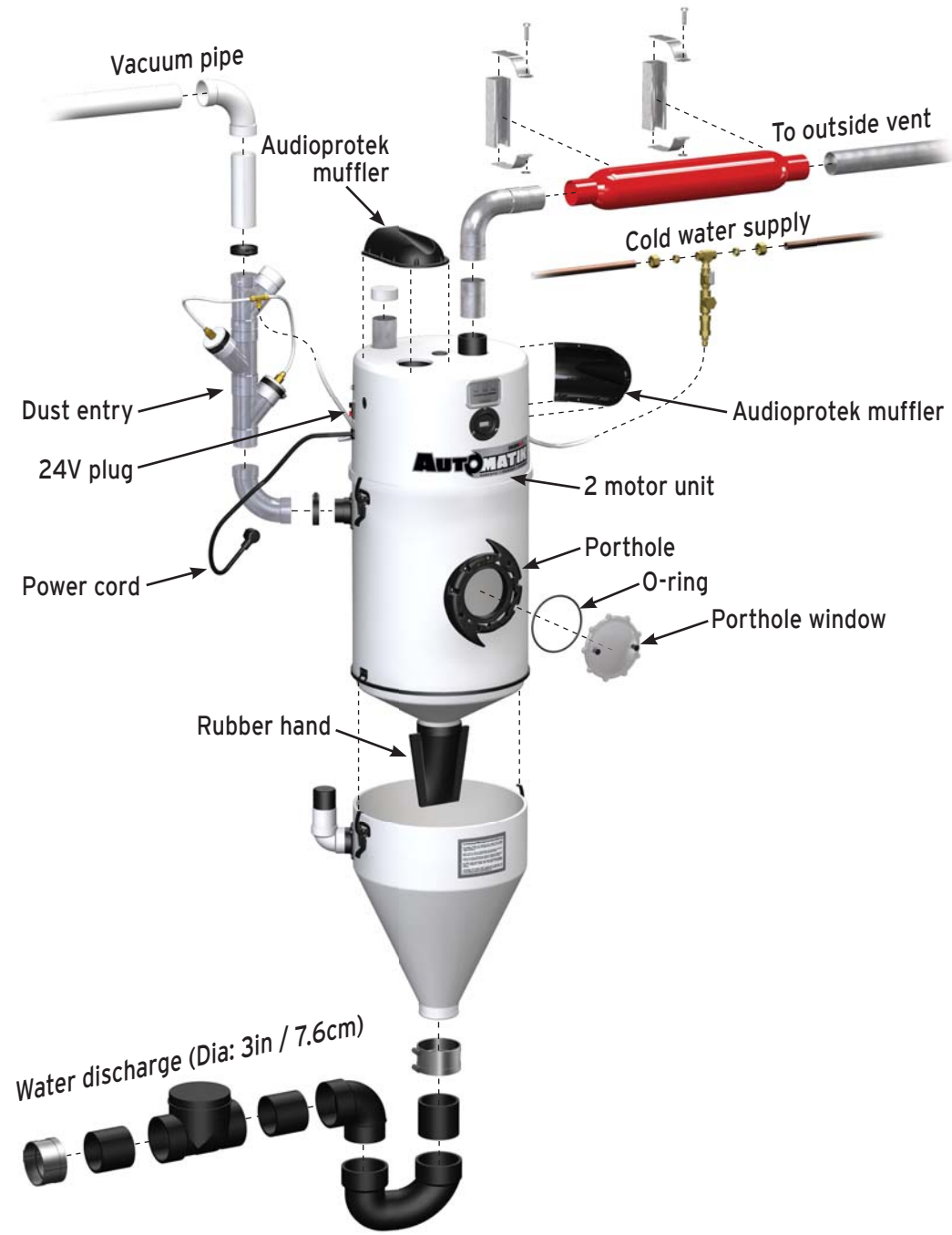


UNIT DESCRIPTION



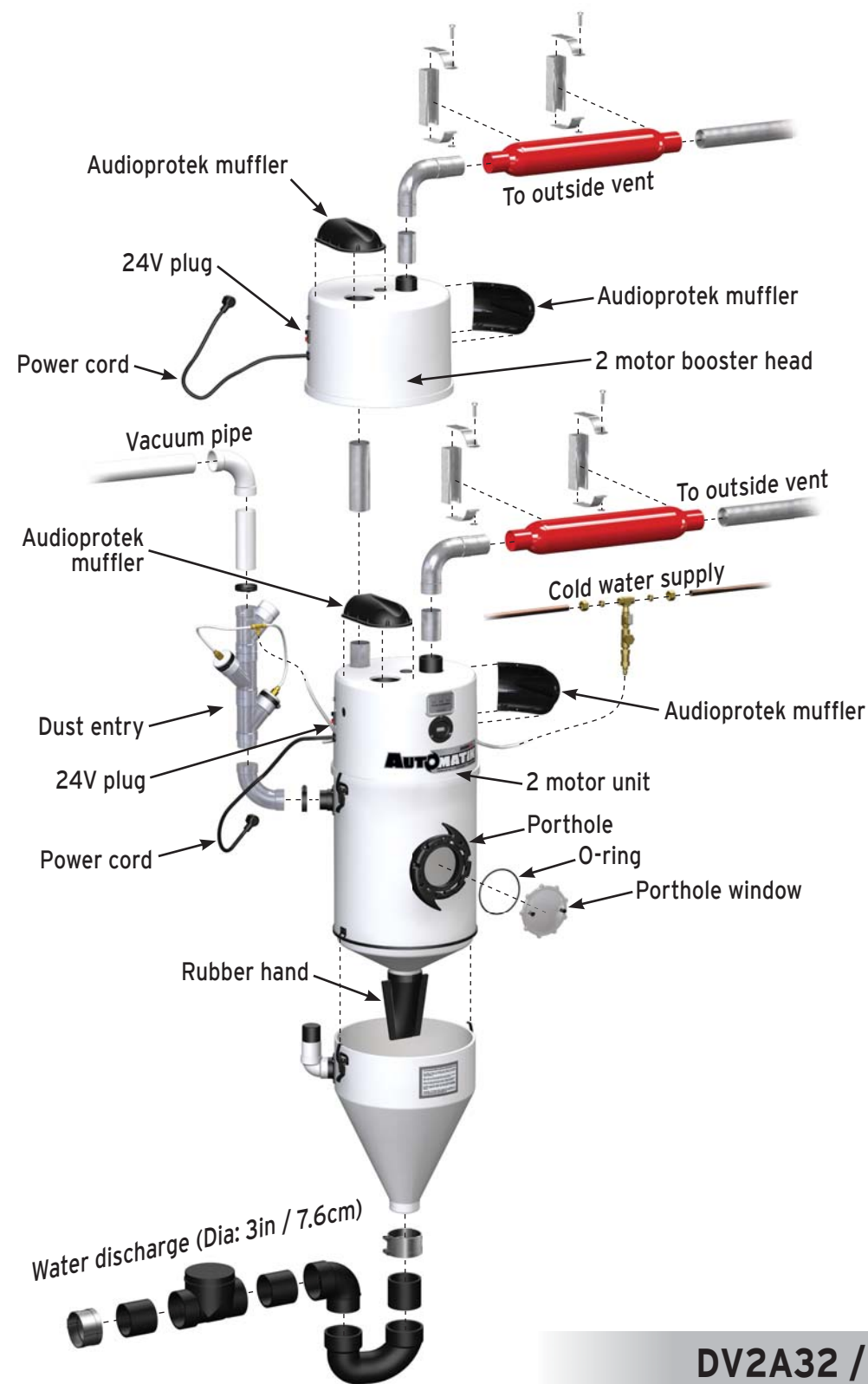
DV2A310 / DF2A310

UNIT DESCRIPTION



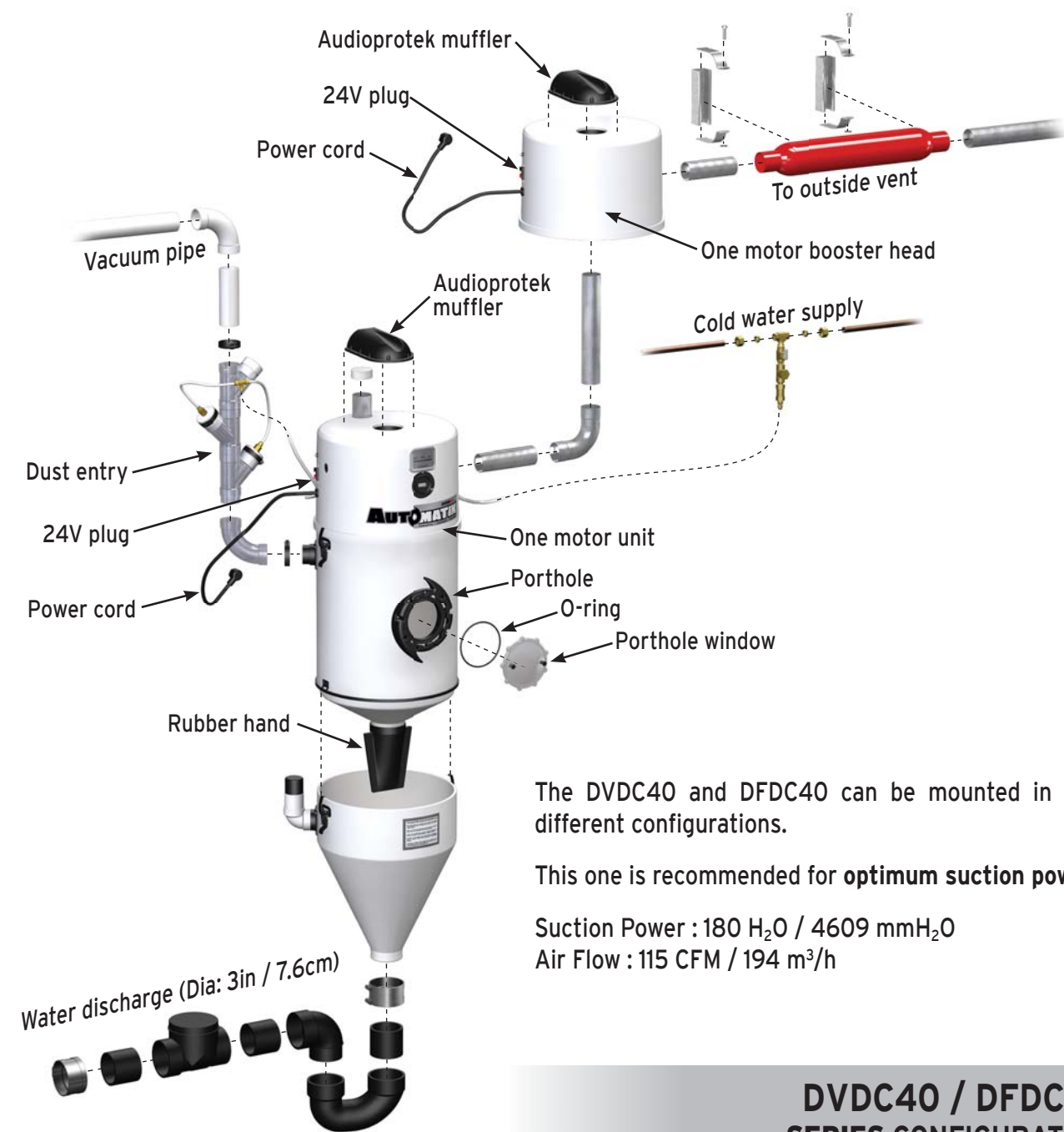
DV2A31 / DF2A31

UNIT DESCRIPTION



DV2A32 / DF2A32

UNIT DESCRIPTION



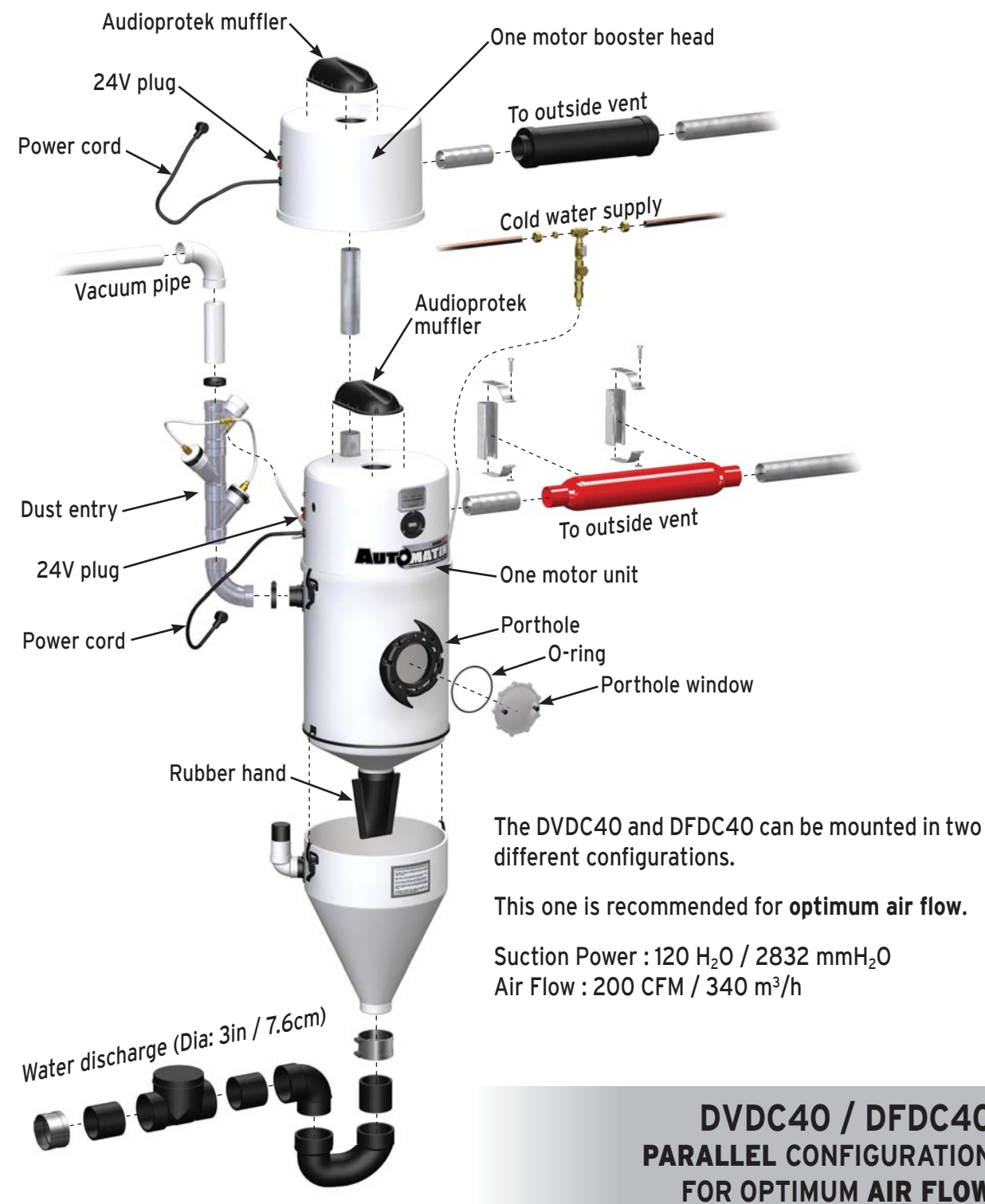
The DVDC40 and DFDC40 can be mounted in two different configurations.

This one is recommended for optimum suction power.

Suction Power : 180 H<sub>2</sub>O / 4609 mmH<sub>2</sub>O  
Air Flow : 115 CFM / 194 m<sup>3</sup>/h

DVDC40 / DFDC40  
SERIES CONFIGURATION  
FOR OPTIMUM SUCTION POWER

UNIT DESCRIPTION

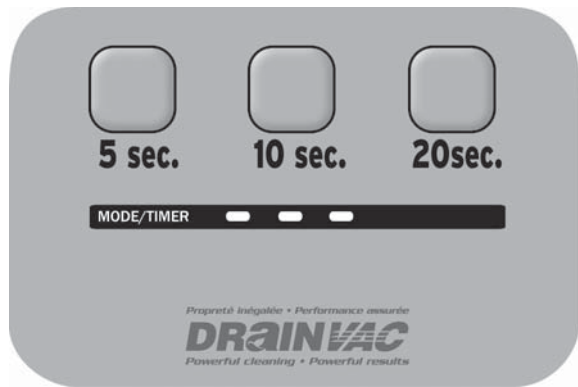


HOW THE MEMBRANE WORKS

As illustrated on pages 4 and 5 of this manual, the Automatik system evacuates its wastewater automatically after approximately 10 minutes. The membrane allows you to adjust the time lapse during which the unit will deactivate before restarting its cycle; **the default time lapse is 20 seconds**.

WHY CHANGE THIS PARAMETER?

- With a lower tank model, the unit can reactivate as soon as there is no wastewater left to flow through the rubber hand (in other words when all the wastewater is in the lower tank).
- If the unit's drain is located very close to the pipe leading to the sewer and that there is less restriction to the amount of wastewater that can be evacuated, the evacuation time could only take 15 seconds.
- On the other hand, if the diameter of the pipe leading to the sewer is smaller and restrains the amount of water that can be evacuated, increasing the evacuation time to over 20 seconds could be necessary.

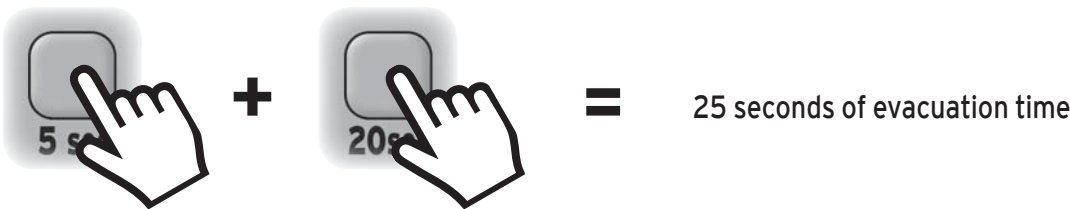


**Evacuation Time**  
Minimum : 5 seconds  
Maximum : 35 seconds

SETTING THE EVACUATION TIMEFRAME

Press on one button only to set the time to 5, 10 or 20 seconds. Or consecutively press on two or three buttons to set the respective timing.

Example :



Setting the timing can only be done when the unit is in use (not while it is evacuating the wastewater).



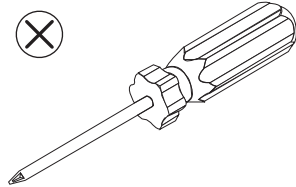
# INSTALLING THE UNIT

## - FIRST THINGS FIRST -

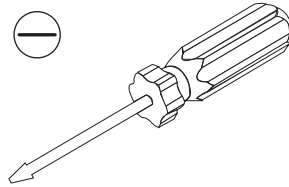
### THE TOOLS YOU WILL NEED



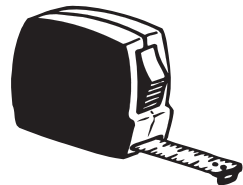
Cutting Pliers



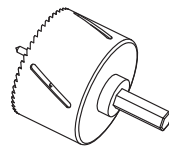
Phillips Screwdriver



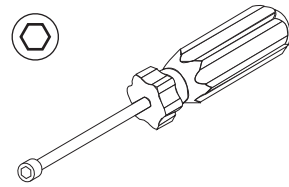
Regular Screwdriver



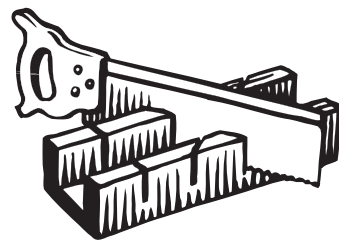
Measuring Tape



Hole Saw  
2.25" (57 mm)



Socket Head Screwdriver  
(for the clamps)  
(supplied with the unit)

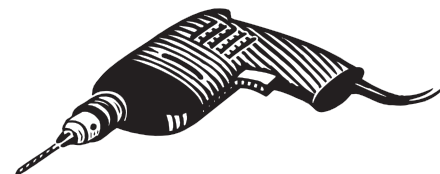


Mitre-Box and Saw

or



PVC Pipe Cutter  
2" (50 mm)



Drill  
0.5" (12.5 mm) bit

# INSTALLING THE UNIT

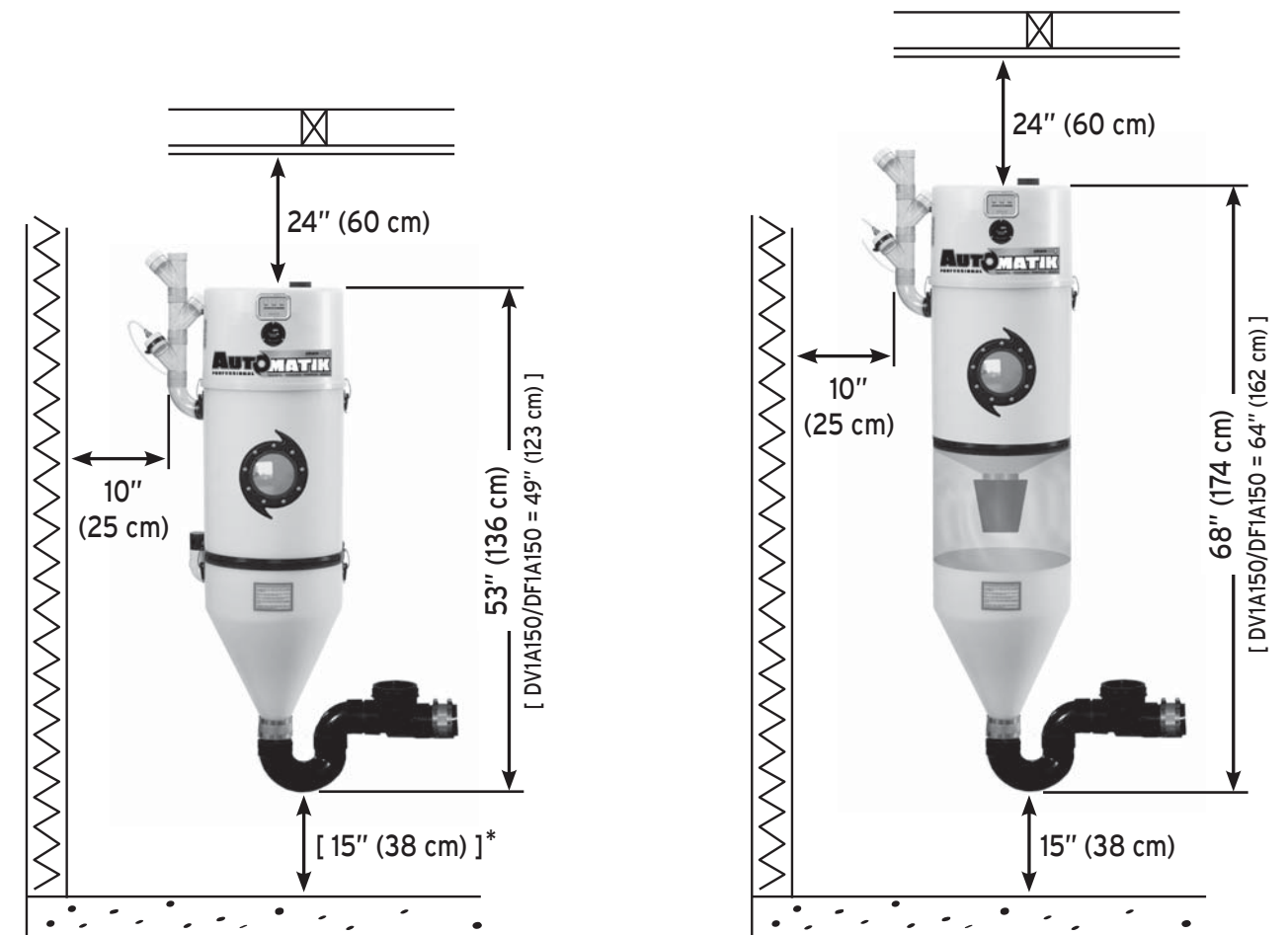
## - FIRST THINGS FIRST -

### WHERE WILL YOU INSTALL THE UNIT?

We recommend installing the system on the **lowest level of the building** to avoid having to work against gravity. The basement is generally the most ideal location, **near the building's main drainpipe**. A cold water pipe must also be available and connected to the unit. If there is no basement, the garage or a storage room will do.

### MINIMUM DIMENSIONS AND SPACING

It is important to install the unit in a location where it will be easily accessible for maintenance and to effectively evacuate the waste. The following is the **minimum spacing** required:



\* For models with a **standard tank**, the bottom of the P-Trap can be installed at 15" (38cm) from the floor. However, we **recommend 26" (66 cm)**, if possible, so that a pail can be placed under the unit, if need be, when removing the P-Trap.

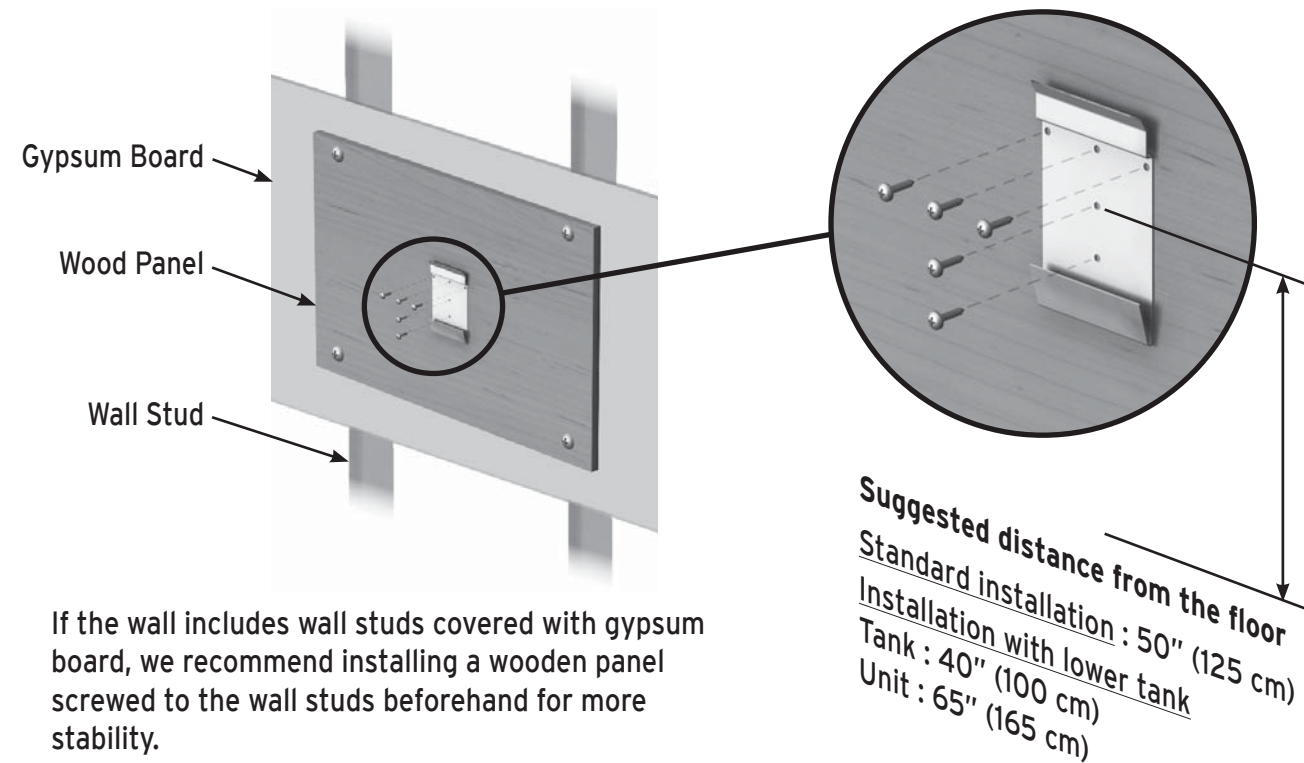
# INSTALLING THE UNIT - STEP SEQUENCE -

## 1) MOUNTING THE UNIT ON THE WALL

- Undo the fastener securing the wall bracket and base at the back of the unit with cutting pliers.



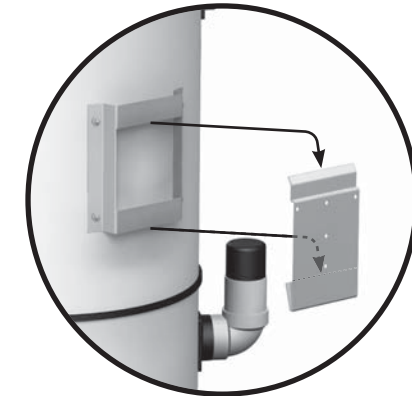
- Attach the bracket to the wall with the five screws supplied with the unit.



If the wall includes wall studs covered with gypsum board, we recommend installing a wooden panel screwed to the wall studs beforehand for more stability.

# INSTALLING THE UNIT - STEP SEQUENCE -

- Lift the unit and slide its support onto the wall bracket.



## POSITIONING THE LOWER TANK

- If your unit is equipped with a lower tank, repeat the same steps to attach it to the wall.

## POSITIONING A BOOSTER HEAD

- If your unit is equipped with one or several booster heads, repeat the same steps to attach it, or them, to the wall.



**Optimum efficiency**



**Not recommended**

Each booster head can be installed according to the available space without compromising the height of the head in relation to the unit.

However, we recommend that you **keep the number of joints (elbows) to a minimum** to optimize air circulation and performance.

## INSTALLING THE UNIT - STEP SEQUENCE -

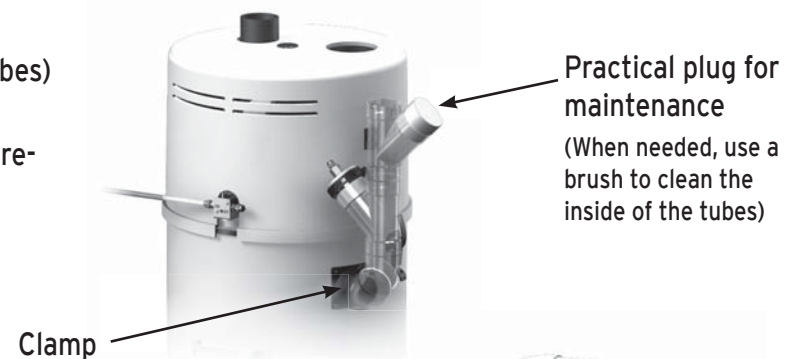
### 2) CONNECT THE DUST AND WATER INLETS

- Connect the building's cold water supply to the unit's water inlet.

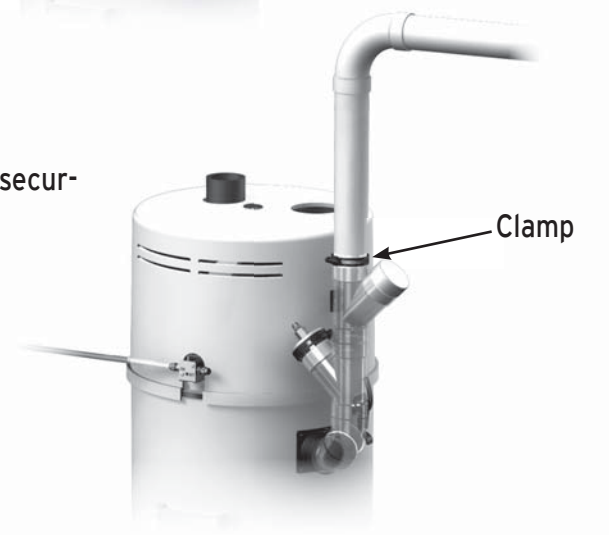


- Connect the dust inlet (transparent tubes) to the unit securing it with a clamp.

\* N.B. The tubes have been pressure pre-assembled. **Do not use glue.**



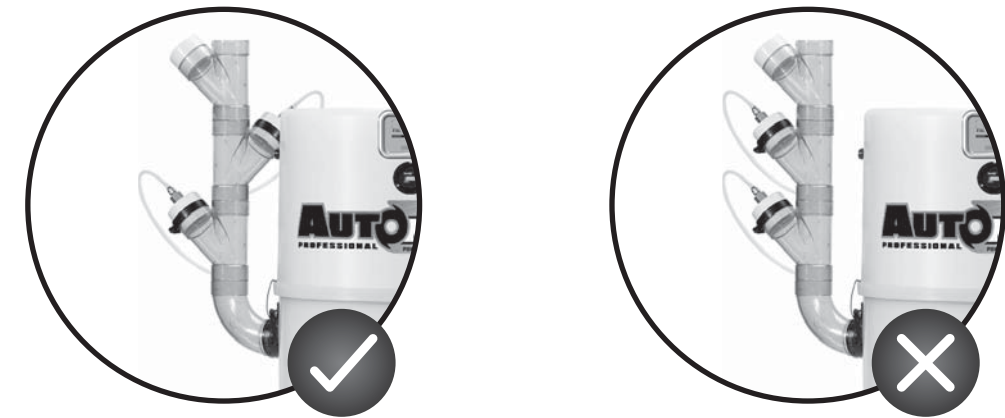
- Connect the suction hose to the unit's dust inlet, securing it with a clamp.



## INSTALLING THE UNIT - STEP SEQUENCE -

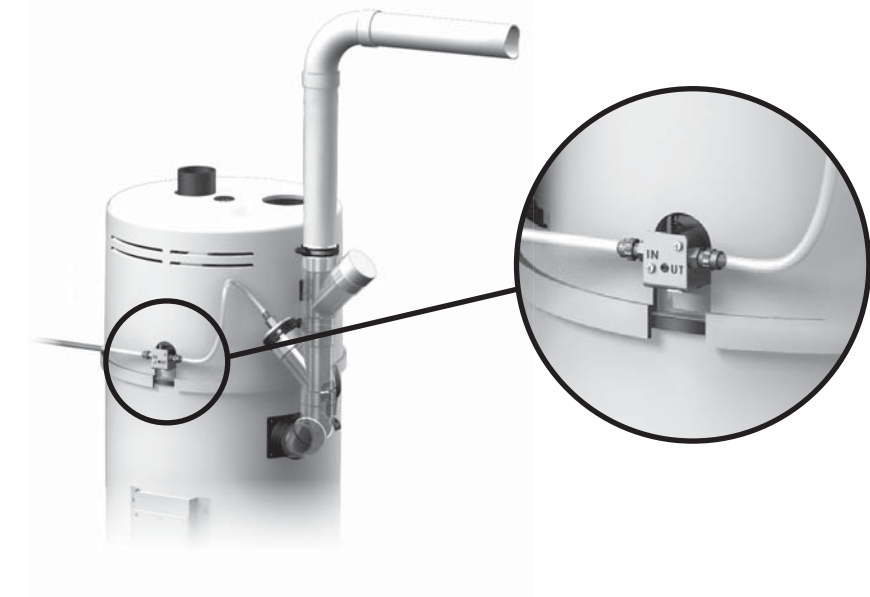
### POSITIONING THE WATER INJECTORS ON THE DUST INLET

Some units are equipped with two water injectors. In this case, it is important that they be positioned facing each other so that the water covers a greater surface.



### 3) CONNECT THE WATER OUTLET

- Connect the unit's water outlet to the water hoses linked to the water injectors.



# INSTALLING THE UNIT - STEP SEQUENCE -

## 4) CONNECT THE AIR OUTLET

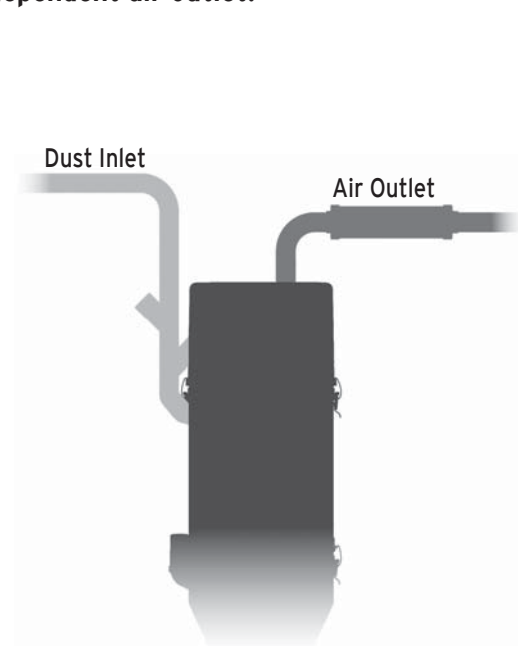
- Connect the air outlet to the unit, securing it with a clamp (do not glue). **An air outlet leading outside the building is mandatory for all Automatik systems.**

If your model includes 2 motors, the air outlet is on top of the unit. If it only includes 1 motor, the air outlet is on the side of the unit.

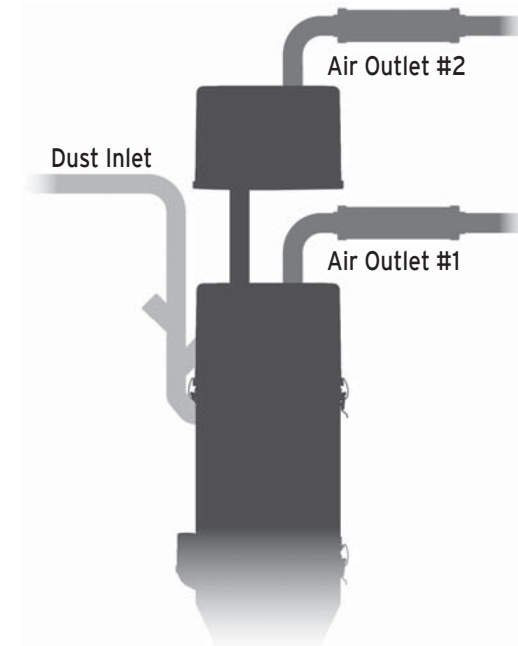


## AIR OUTLET WITH A BOOSTER HEAD

**Important:** If your unit includes one or several booster heads, each one must be equipped with an independent air outlet.



Model with no Booster Head



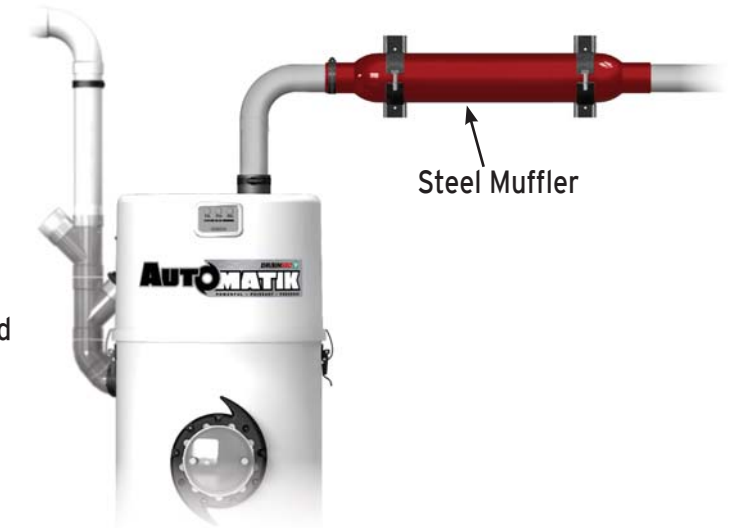
Model with a Booster Head

# INSTALLING THE UNIT - STEP SEQUENCE -

## STEEL MUFFLER

- Some units are equipped with a (red) steel muffler to absorb the noise produced by more powerful systems.

Contrary to plastic mufflers, this steel muffler must be installed on the wall. Installation instructions are provided with the leaflet provided with the muffler.



## 5) CONNECT THE WASTEWATER PIPE

### MODELS DV1A150 AND DF1A150

- Connect the components of the wastewater piping system as illustrated, securing the system with the clamps supplied with your unit.



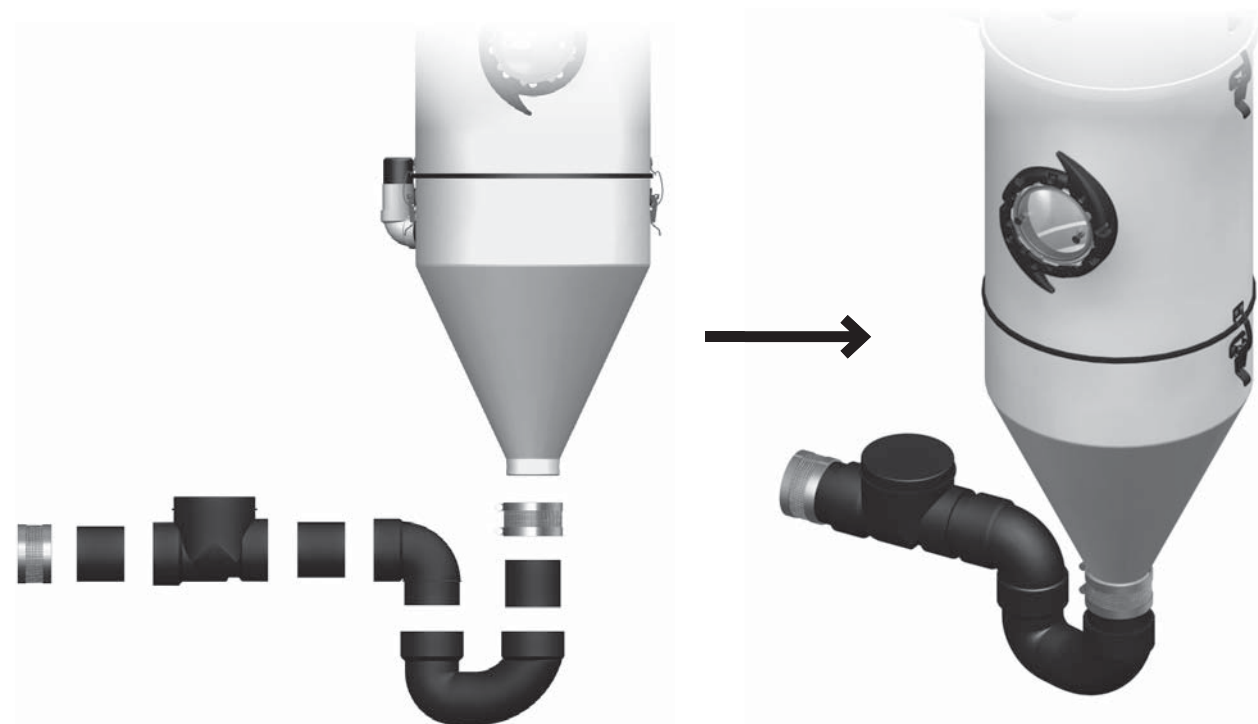


# INSTALLING THE UNIT

## - STEP SEQUENCE -

### ALL MODELS (OTHER THAN DV1A150 AND DF1A150)

- Connect the components of the wastewater piping system as illustrated, securing the system with the clamps supplied with your unit.



### 6) ADD THE AUDIOPROTEK MUFFLERS

- Instructions on how to assemble the Audioprotek mufflers are included in a leaflet inside the packaging.

\* N.B. All models equipped with only one motor include only one muffler centered on the top of the unit.



Back View of the Unit  
(Model DV2A310)

# INSTALLING THE PIPING SYSTEM

The following pages illustrate piping diagrams, typical installations and the parts that we recommend for the optimum performance of your central vacuum system.

## GENERAL INFORMATION

- An air outlet leading to outside must always be installed on your unit. Make sure that the evacuated air does not lead under a carport.
- If your unit includes two motors, it is important to use metal piping and couplings for the air outlet.
- To determine where to locate the wall inlets, use the length of the vacuum hose as a basis, measuring the furthest point from the wall where the wall inlets are to be installed. Do the same for all the wall inlets until all areas of the house or building can be reached with the vacuum hose, by moving it from one wall inlet to another; **don't forget to install one in the garage or outside to vacuum your car.**
- If your walls are made of gypsum board, **never install a wall inlet in the center of the wall.** Drill the holes for the wall inlets close to a wall stud or a door frame.
- Any screw length can be used if you install the piping as illustrated in **Figure A**.
- If you install the piping as illustrated in **Figure B**, make sure to position the small screw in the right place to avoid that a longer screw goes through the piping.
- Always use a short elbow when connecting the wall inlets (**Figures A and B**) to prevent long objects (for example, a pencil) that may have been vacuumed by mistake from blocking the piping further on.

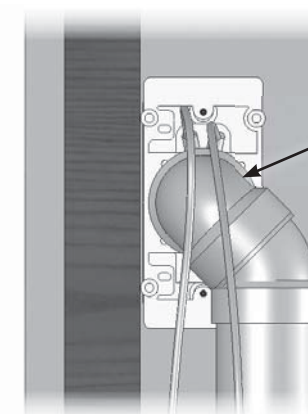


Figure A

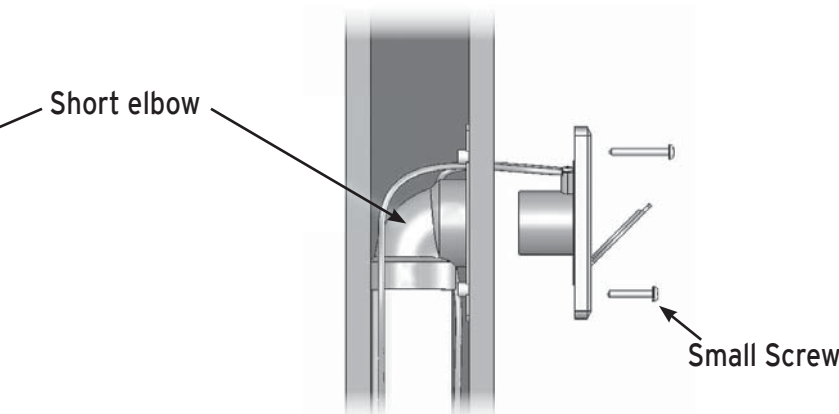
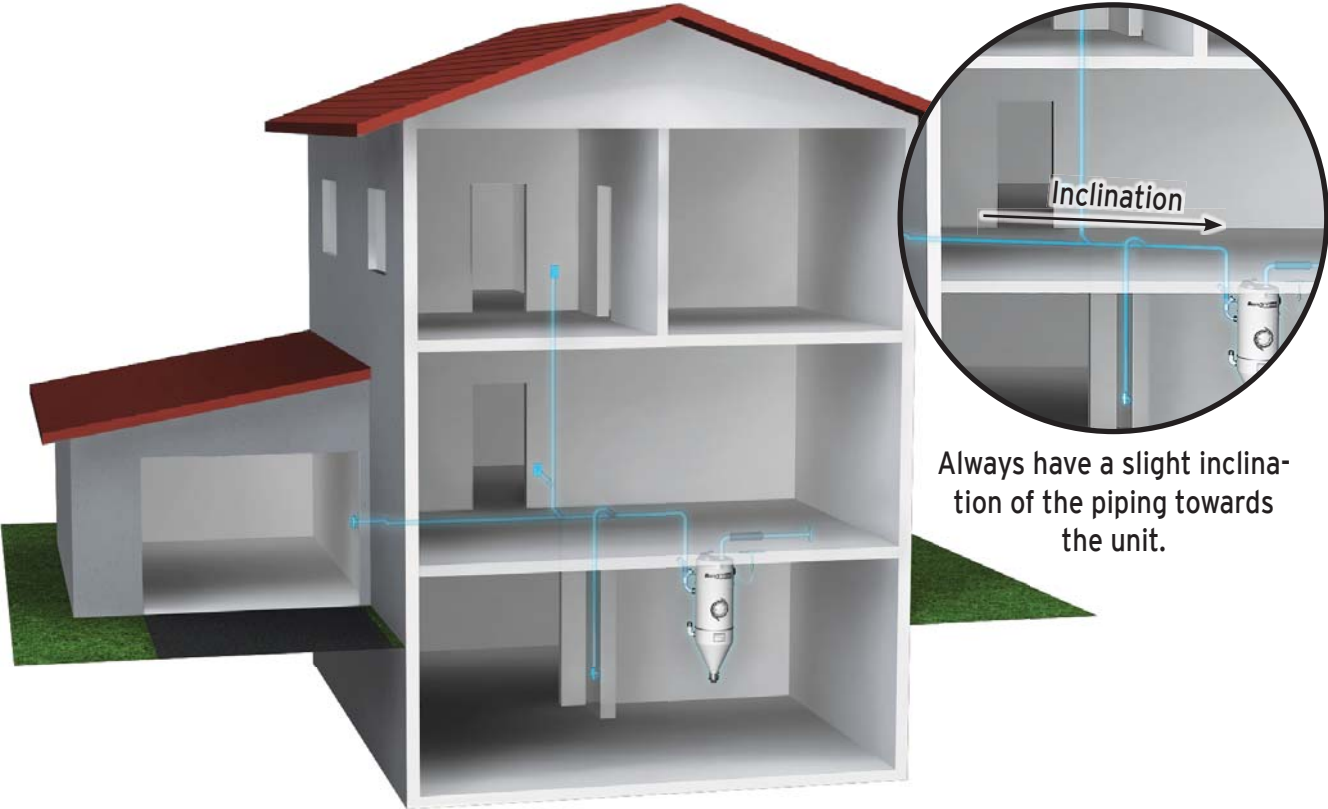


Figure B

DIAGRAM OF A RESIDENTIAL INSTALLATION



Always have a slight inclination of the piping towards the unit.

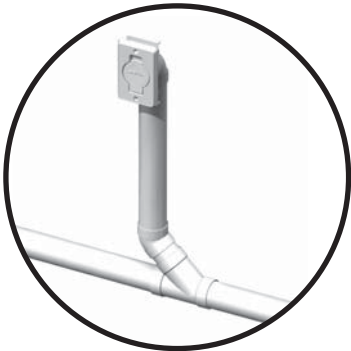
DIFFERENT INSTALLATION POSSIBILITIES



On the top floor  
(at the end of a pipeline)



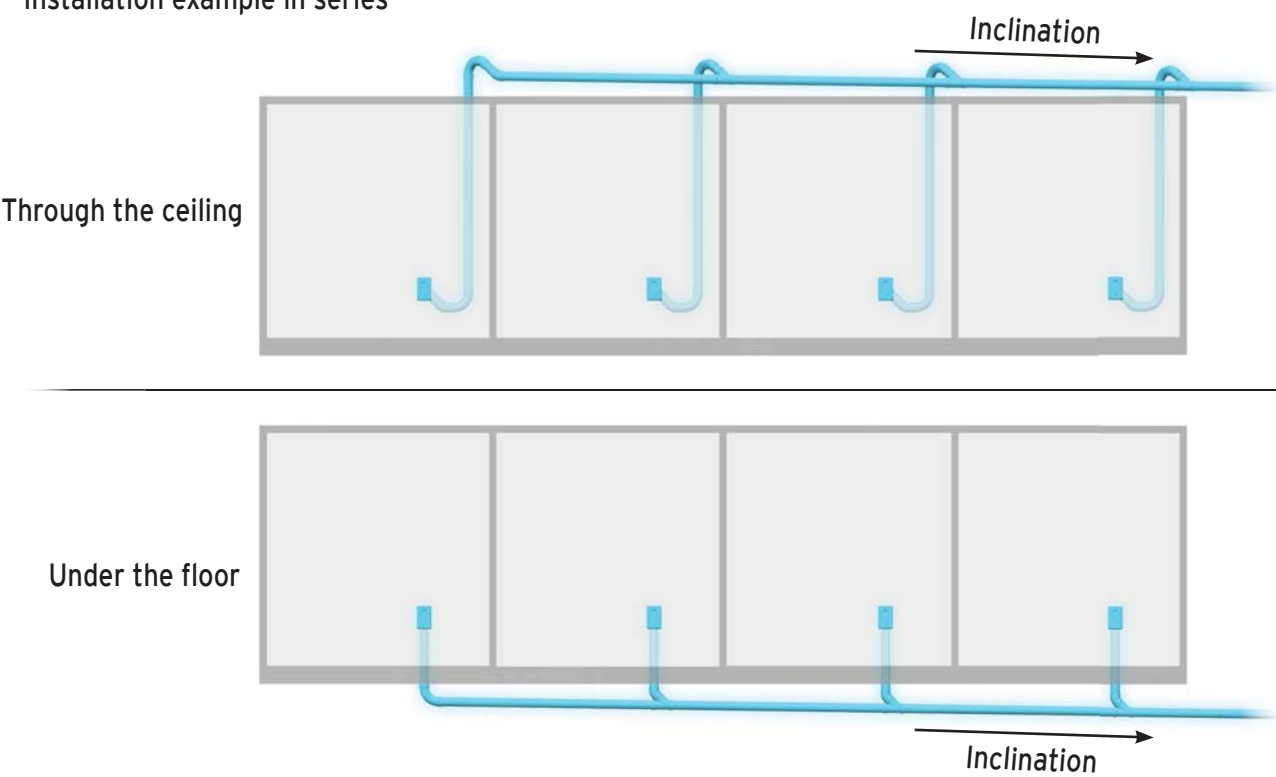
On an intermediary floor



On the first floor  
(connected above a pipeline  
under the floor)

DIAGRAM OF A COMMERCIAL INSTALLATION

Installation example in series



Always have a slight inclination of the piping towards the unit.





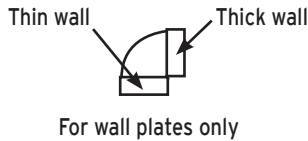



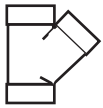

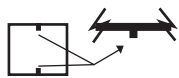



In the basement  
(connected under a pipeline  
under the floor)



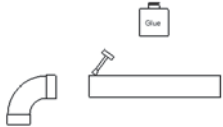
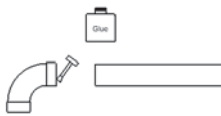
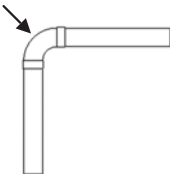
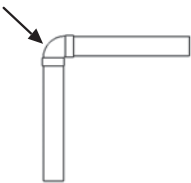
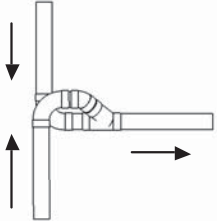
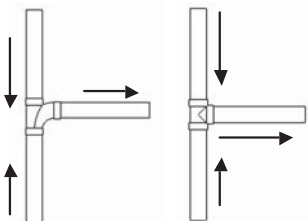
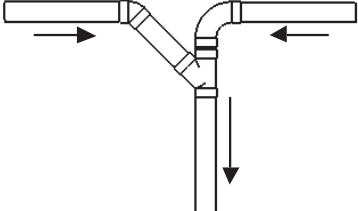
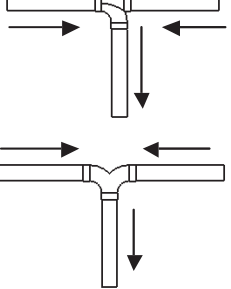
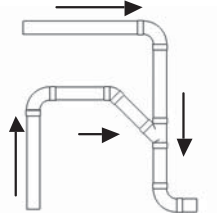
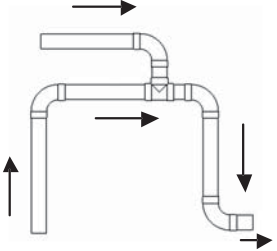


Back to back

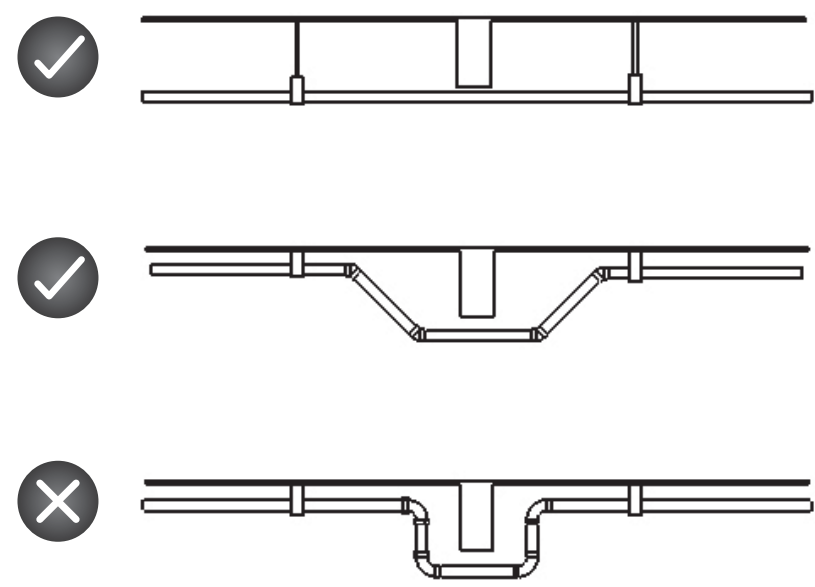
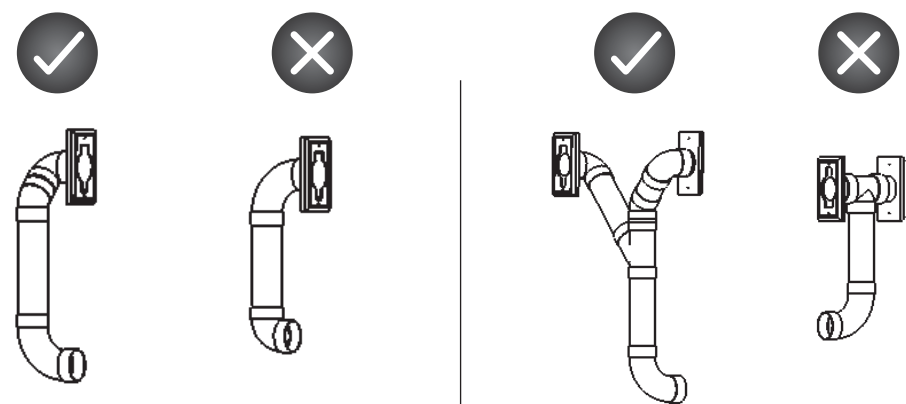
EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS

	
	
	
	
	
	
Joint with inside stoppers	Smooth joint without inside stoppers

EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS

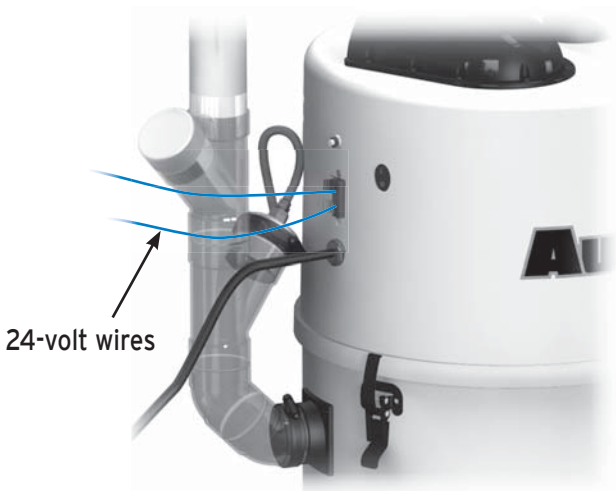
EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS



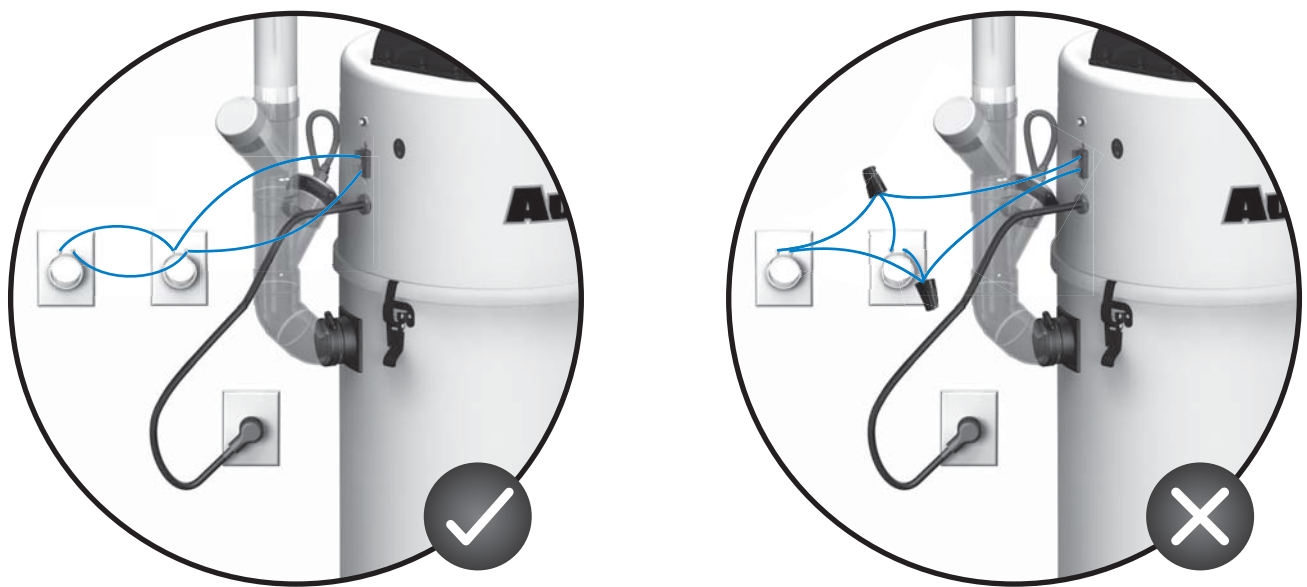
All the central vacuum system models in this manual are equipped with an electrical cord. An adequately powered electrical outlet must be installed near the unit. **A dedicated electrical circuit must be used for the unit and one for each booster head.** Please refer to page 32 for a detailed diagram of the appropriate connections for your model.

CONNECTION PROCEDURE

- Install the 24-volt wires from the network (each wall inlet) to the unit.
- If your unit includes one or several booster heads, 24-volt wires must be connected to each head as illustrated on the following page (refer to the diagram of your particular model).
- Connect the unit to the electrical outlet with the power-supply cord.
- The vacuum cleaner is now ready to be put to use.

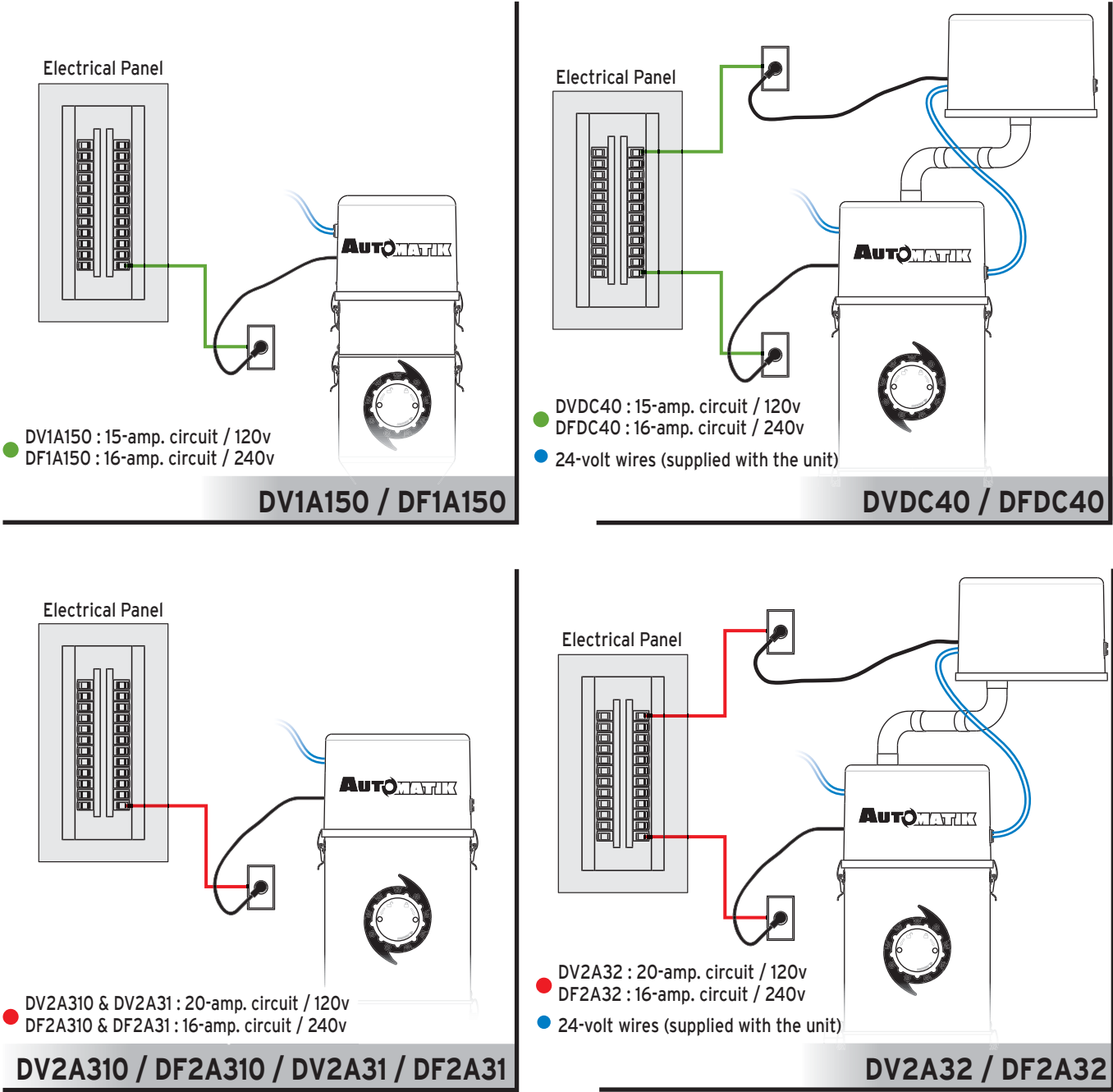


EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS





DIAGRAMS OF THE APPROPRIATE CONNECTIONS FOR YOUR MODEL



If you experience voltage surge problems on your electrical circuit in spite of adequate connections, a high magnetic circuit breaker can be installed on your electrical panel. Contact an electrician for more information.

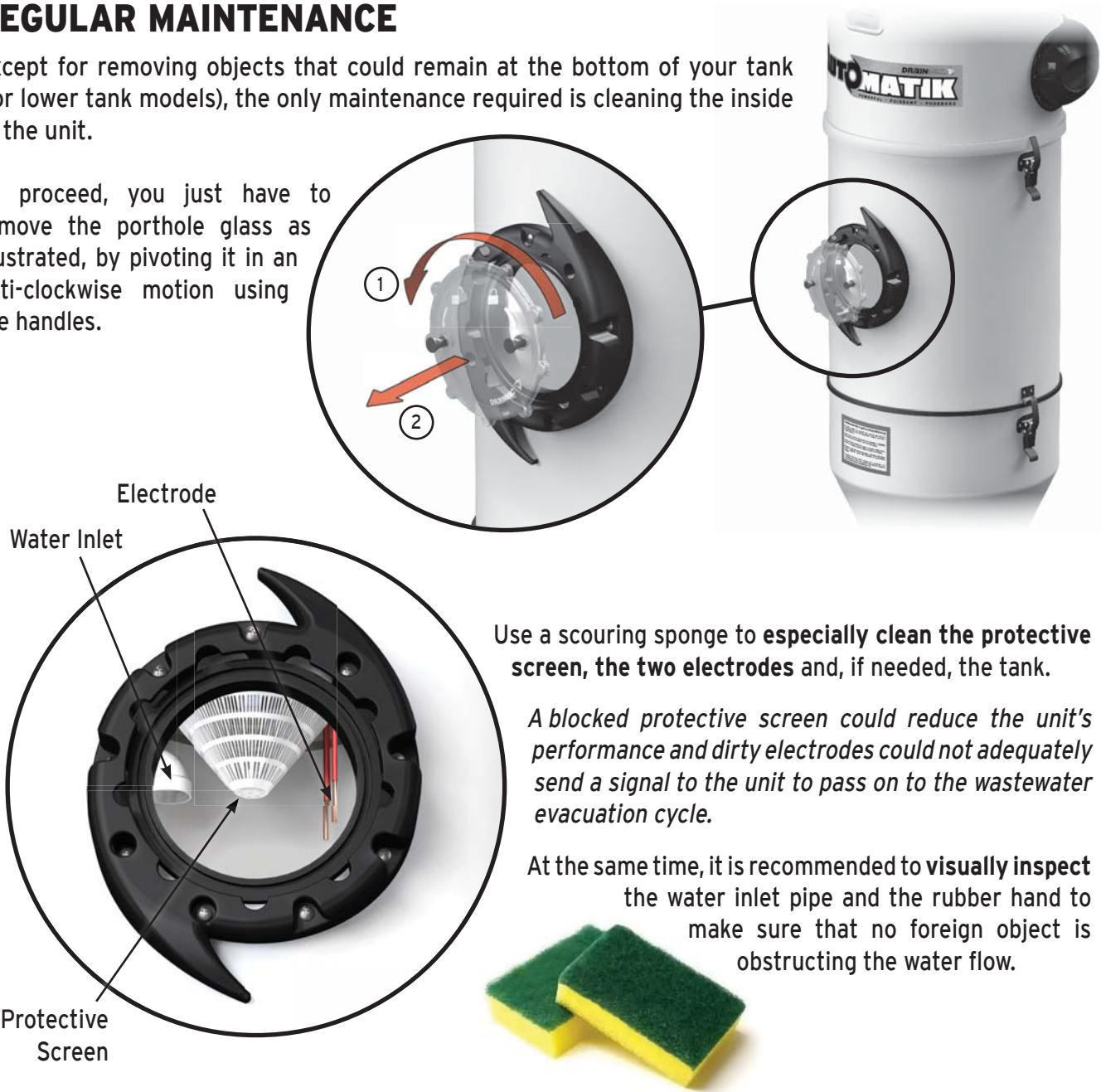
VISUAL INSPECTION

Your Automatik system is very user friendly and we recommend a visual inspection through the porthole once a year or when needed. If you wish to clean the inside of the unit, refer to the following section "Regular Maintenance".

REGULAR MAINTENANCE

Except for removing objects that could remain at the bottom of your tank (for lower tank models), the only maintenance required is cleaning the inside of the unit.

To proceed, you just have to remove the porthole glass as illustrated, by pivoting it in an anti-clockwise motion using the handles.



Use a scouring sponge to especially clean the protective screen, the two electrodes and, if needed, the tank.

A blocked protective screen could reduce the unit's performance and dirty electrodes could not adequately send a signal to the unit to pass on to the wastewater evacuation cycle.

At the same time, it is recommended to visually inspect the water inlet pipe and the rubber hand to make sure that no foreign object is obstructing the water flow.

MOTOR BRUSHES

Any mechanical system requires a minimum of maintenance and your system is no exception to the rule. We therefore recommend that you **inspect your motor brushes after 500 hours of use** to check how worn they are and replace them if need be.

On average, this inspection should occur:

- For residential applications: once every 3 to 5 years
- For commercial applications: once or twice a year

When the time comes, contact your retailer or distributor for this maintenance procedure.

WEEE GUIDELINES

This unit complies with the **WEEE (Waste Electrical and Electronic Equipment) Guidelines**, which promote the recycling of this type of waste equipment and encourage the development of products that are adapted to efficient waste reclamation at the end of their life cycle.

The WEEE Guidelines stipulate that the original supplier should agree to reclaim any obsolete equipment free of charge. We recommend that you advise your supplier that you would like him to reclaim your unit when you order and replace it with a new one.

Do not discard the unit with your regular garbage. The symbol representing a garbage bin on wheels on the unit's label (Figure C) attests to this requirement. You must ensure that, at the end of its life cycle, your unit is reclaimed, treated and recycled by an authorized firm.

For more information, contact your municipal waste management department.

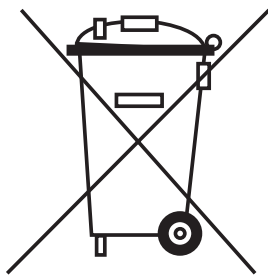


Figure C

THE UNIT WON'T START UP...

SOLUTION :

- 1) Check the circuit breaker in your electrical panel.
- 2) Check the unit's circuit fuse/breaker.
- 3) Check the 24-volt circuit, as follows:
  - Try to establish electrical contact in a wall inlet with a metal object (for example, a coin).
  - > If the unit starts up, the suction hose is defective.
  - > If the unit doesn't start up, check to see if the 24-volt wires are properly connected to the unit.
    - Try to establish an electrical contact between the two terminals of the 24-volt circuit on the unit with a metal object (for example, a screwdriver).
    - > If the unit starts up, a 24-volt wire is either cut or disconnected from one of the wall inlets.
    - > If the unit won't start up after these steps, the printed circuit is defective.

THE UNIT WON'T SHUT DOWN...

SOLUTION :

- Check the 24-volt circuit as follows:
  - Disconnect one of the two wires on the unit's 24-volt circuit.
  - > If the unit shuts down, the problem could be that two 24-volt wires are touching themselves somewhere or that the wall inlet is defective.
  - > If the unit doesn't shut down, the printed circuit is defective. Unplug the power cord.

If you wish to speak with a customer service representative, contact your supplier or:

**Drainvac International inc.**

From Monday to Friday, between 9 AM and 4 PM, eastern standard time (UTC-5)

T : 1 800 408-1448 • 450 467-1448

F : 1 877 408-2225 • 450 467-2225

info@drainvac.com • www.drainvac.com

150, Brunet street, Mont-St-Hilaire, Qc, J3G 4S6, Canada

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