

DRAINVAC 
Central Vacuums

OWNER'S MANUAL CYCLONIK



IMPORTANT SAFETY INSTRUCTIONS

When using an electronic appliance, basic safety precautions should always be followed. Read all guidelines before operating the unit.

To reduce risk of fire, electric discharges or injuries:

- 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.)
- Do not allow vacuum to be used as a toy. Close supervision is necessary when this vacuum is used by or near children.
- Do not leave the unit running without any supervising. Disconnect the unit if it is not used and before maintenance.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not pick up any flammable liquids or combustible materials (gasoline, fuel, diesel) hot debris, waster solvents (paint or other), explosive materials that would cause harm to the vacuum cleaner.
- Do not vacuum drywall dust or baking flour as it may cause damage to your vacuum.
- Avoid picking up hard or sharp objects to prevent damaging or block the hose and the plastic pipes.
- Do not put any object into openings. Do not use if an opening is blocked. Keep free of dust, lint, hair and anything that may reduce airflow/suction. Lack of air flow 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 plug in a unit designed to operate with a current of 120V in a 230V outlet and vice versa.
- If the power cord is damaged, it must be replaced by a special cord available from the authorized local dealer/distributor.
- Do not use extension cords or outlets with inadequate current carry capacity.
- 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 dealers/distributor for repairs.
- Never handle plug, cord or power units with wet hands.

- Never disconnect plug by pulling cord. To disconnect from the outlet, grasp the plug, not the cord.
- Connect to a properly grounded outlet only. See grounding instructions.
- Keep cord away from heated surfaces.
- Turn off all controls before unplugging.
- Hoses with electrical connections must not be used if damaged.

By overlooking safety rules, you might risk putting your health in danger and to those who surround you!

Drainvac disclaims any responsibility should you infringe upon these guidelines.

SAVE THESE INSTRUCTIONS

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. Drainvac's central vacuum cleaners are manufactured and checked at our factory by our qualified staff who have been specifically trained to this end. A number of installations 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/client-support/register-your-drainvac

First off, we recommend you to fill out this form before you start the installation process. If you have any concerns or problems you may encounter, please contact the nearest retailer. The unit's profile will be required.



Metal tag

Model*: _____

Serial number*: _____

Retailer name: _____

Date of purchase: _____

Date of the last maintenance: _____

*This information is found on a metal tag located on the left side of the unit.

TABLE OF CONTENTS

MODEL TYPE 6-7

OPTION..... 8-11

UNIT DESCRIPTION..... 12-23

INSTALLATION

FIRST THINGS FIRST..... 24-25

MOUNTING THE UNIT TO THE WALL 26-27

CONNECTING THE DUST INLET / AUDIOPROTEK MUFFLER 28

AIR OUTLET 29-31

PIPING INSTALLATION

GENERAL NOTES..... 32-33

INSTALLATION DIAGRAM..... 34-35

EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS 36-38

ELECTRICAL POWER SUPPLY

PROCEDURE / EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS..... 39

DIAGRAMS OF AN APPROPRIATE CONNECTION..... 40-41

GROUNDING INSTRUCTIONS..... 42

MAINTENANCE PROCEDURES

CARTRIDGE FILTER..... 42

MOTOR BRUSHES 43

WEEE GUIDELINES / SUPPORT 43

ANNEX

ANNEX I (CIRC-02)

ANNEX II (CIRC-03)

ANNEX III (CIRC-18)

MODEL TYPE

You have purchased one of the following models. Identify the one related to it.
The model number is marked on the label stuck on the left side of the head.



RESIDENTIAL SERIES NORTH AMERICA (108V - 120V)

MODELS	AIR WATTS	H ₂ O	CFM	DECIBELS	AMPS	GAL./L	SIZE in/cm
DV1R11	483	125	111	66	12.5	10 / 46	15 dia. x 38 / 38 dia. x 95
DV1R12	700	145	136	62	14.1		
DV1R15	2 x 355	160	111	70	18		
DV1R800	800	138	138	60	14		

INTERNATIONAL (220V - 240V)

MODELS	AIR WATTS	mmH ₂ O	m ³ /h	DECIBELS	AMPS	GAL./L	SIZE in/cm
DF1R11	483	3148	198	66	7	10 / 46	15 dia. x 38 / 38 dia. x 95
DF1R12	700	3950	246	62	7.4		
DF1R15	2 x 355	4191	198	70	10.8		
DF1R630	700	3880	315	58	7		

MODEL TYPE



COMMERCIAL SERIES NORTH AMERICA (108V - 120V)

MODELS	AIR WATTS	H ₂ O	CFM	DECIBELS	AMPS	GAL./L	SIZE in/cm
DV1R19-27	2 x 420	181	122	70	2 x 13	10 / 46	15 dia. x 38 / 38 dia. x 95
DV1R19-274 (in parallel)	4 x 420	181	210	70	4 x 13		
DV1R19-274 (in series)	4 x 420	270	122	70	4 x 13		
DV1R18	2 x 395	180	115	72	2 x 13	12 / 54	15 dia. x 51 / 38 dia. x 130
DV1R20-27	2 x 420	181	122	70	2 x 13		
DV1R20-274 (in parallel)	4 x 420	181	210	70	4 x 13		
DV1R20-274 (in series)	4 x 420	270	122	70	4 x 13		

INTERNATIONAL (220V - 240V)

MODELS	AIR WATTS	mmH ₂ O	m ³ /h	DECIBELS	AMPS	GAL./L	SIZE in/cm
DF1R19	2 x 355	4191	198	70	10.8	10 / 46	15 dia. x 38 / 38 dia. x 95
DF1R19-4 (in parallel)	4 x 355	4191	396	72	2 x 10.8		
DF1R19-4 (in series)	4 x 355	6096	198	72	2 x 10.8		
DF1R18	2 x 395	4799	234	72	2 x 7.5	12 / 54	15 dia. x 51 / 38 dia. x 130
DF1R20	2 x 355	4191	198	70	10.8		
DF1R20-4 (in parallel)	4 x 355	4191	396	72	2 x 10.8		
DF1R20-4 (in series)	4 x 355	6096	198	72	2 x 10.8		

SPLIT HEAD

- Allows you to position the motor in a different room for less noise.
- In case of insufficient space in height, the head may be positioned at a lower level.



Standard head



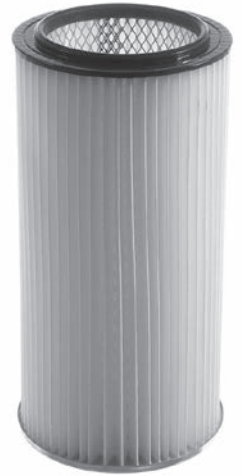
Split head

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

CARTRIDGE FILTER

- Captures very fine dust.
- Provides a greater protection for the motor.

If your unit runs with a cartridge filter and the filter is removed for cleaning purposes, it is important not to use the unit or you will damage the motor.

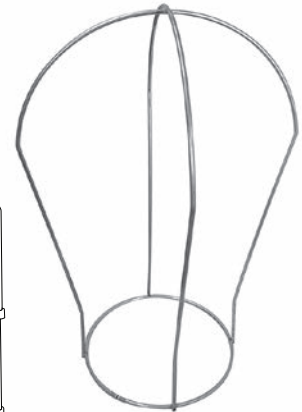
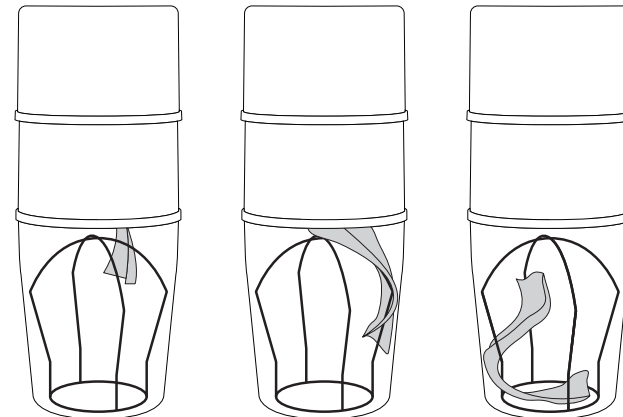


BAG CATCHER

*Compatible with the DV1R19-27 and DF1R19 units.

Items such as plastic bags and rags get tangled onto the rods and never interfere with the airflow.

- Made of galvanized steel rods.
- Fits perfectly into the vacuum's canister.

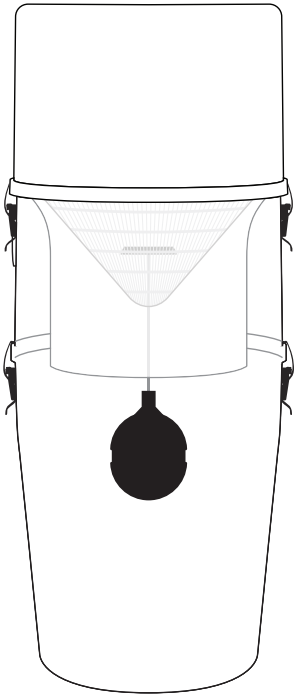


FLOAT

- Indicates when the canister is full of liquid and protects the motor at the same time.

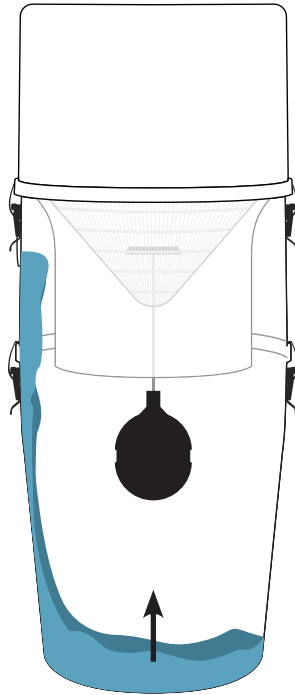
Step 1

Unit is off.



Step 2

Start up: The liquid starts to flow in.



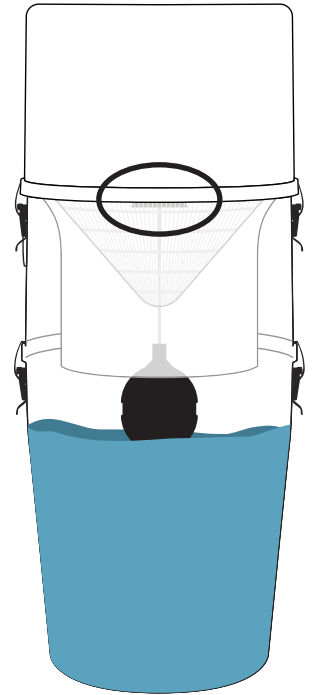
Step 3

The float starts to rise as more water flows in.

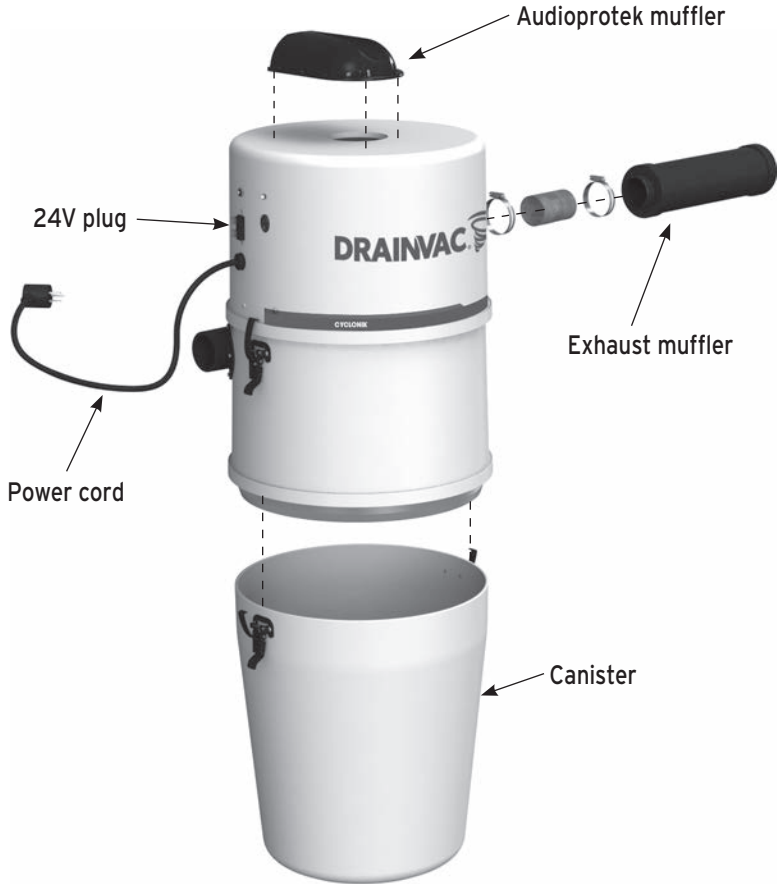


Step 4

The float closes the air inlet causing suction lost and indicating that the canister must be emptied.

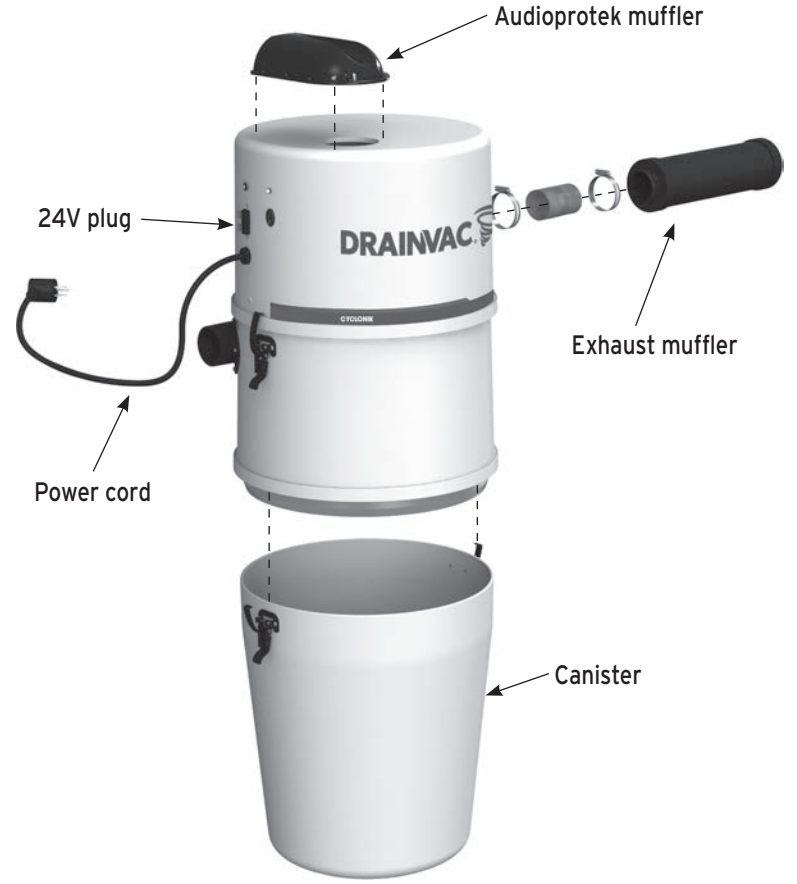


UNIT DESCRIPTION



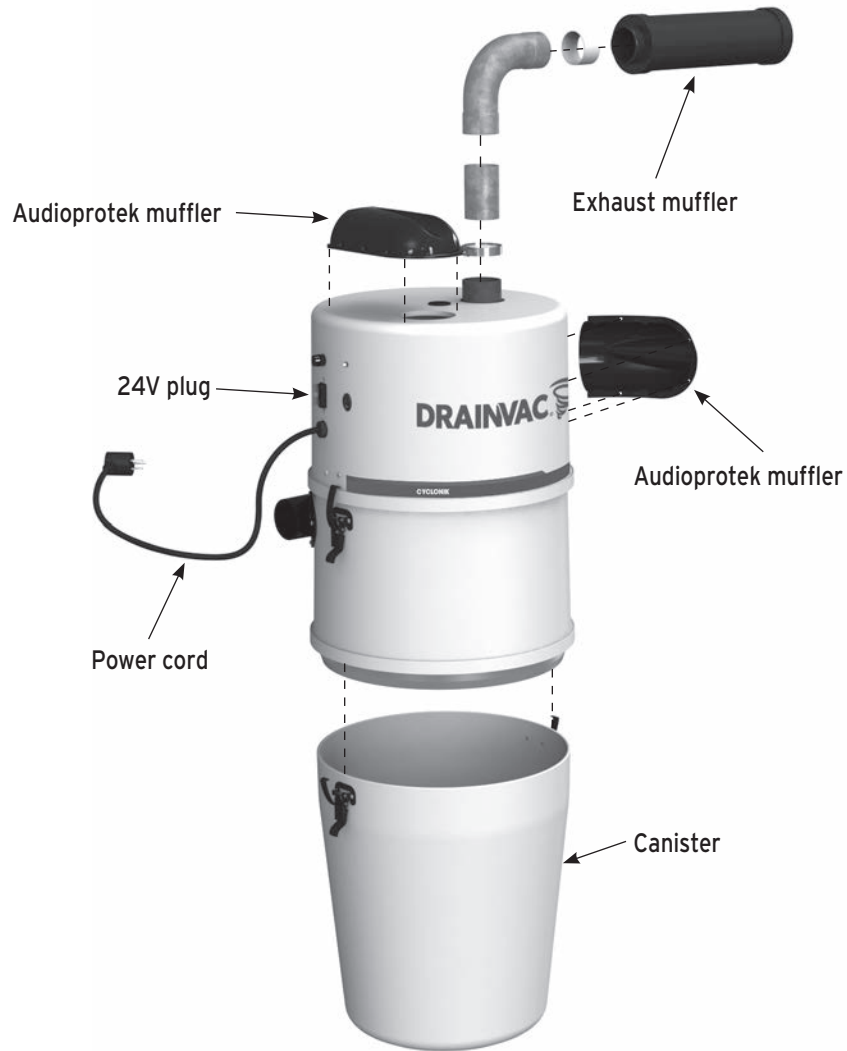
DV1R11 / DF1R11

UNIT DESCRIPTION



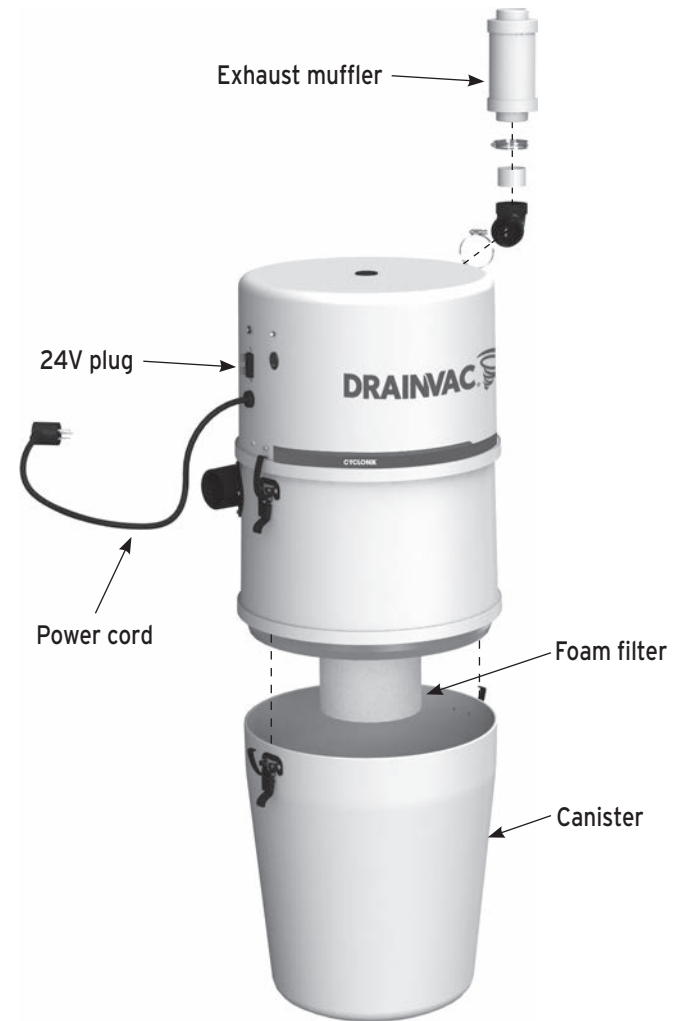
DV1R12 / DF1R12

UNIT DESCRIPTION



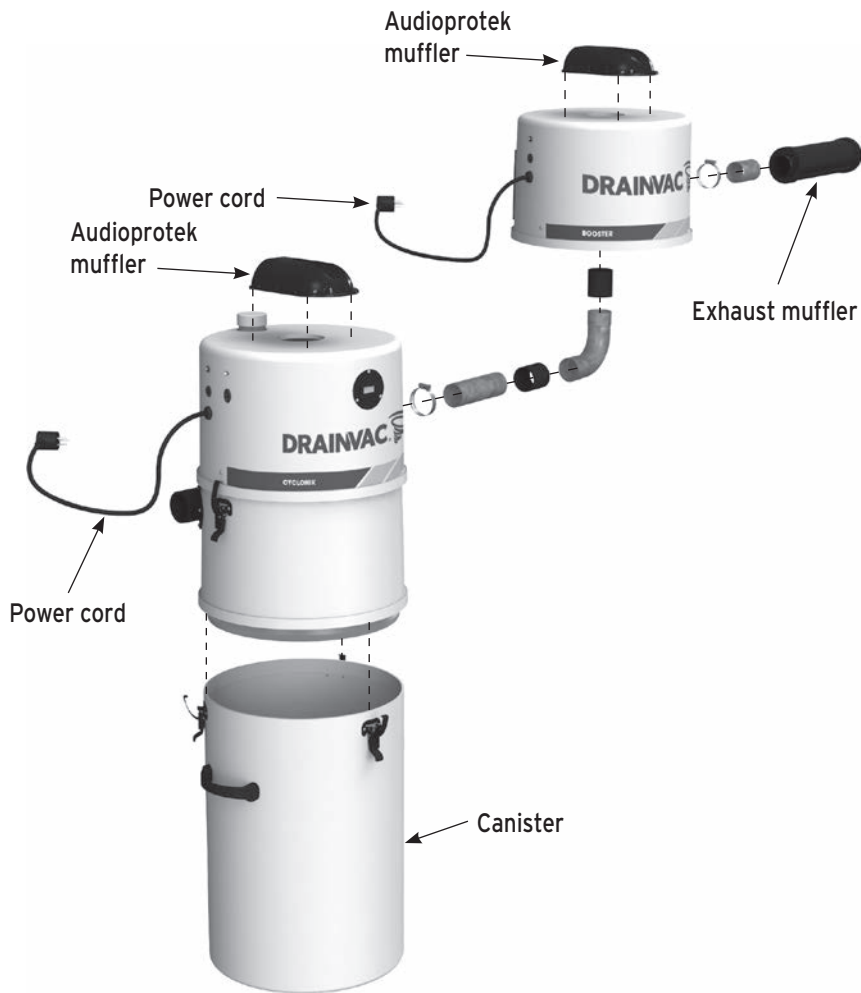
DV1R15 / DF1R15

UNIT DESCRIPTION



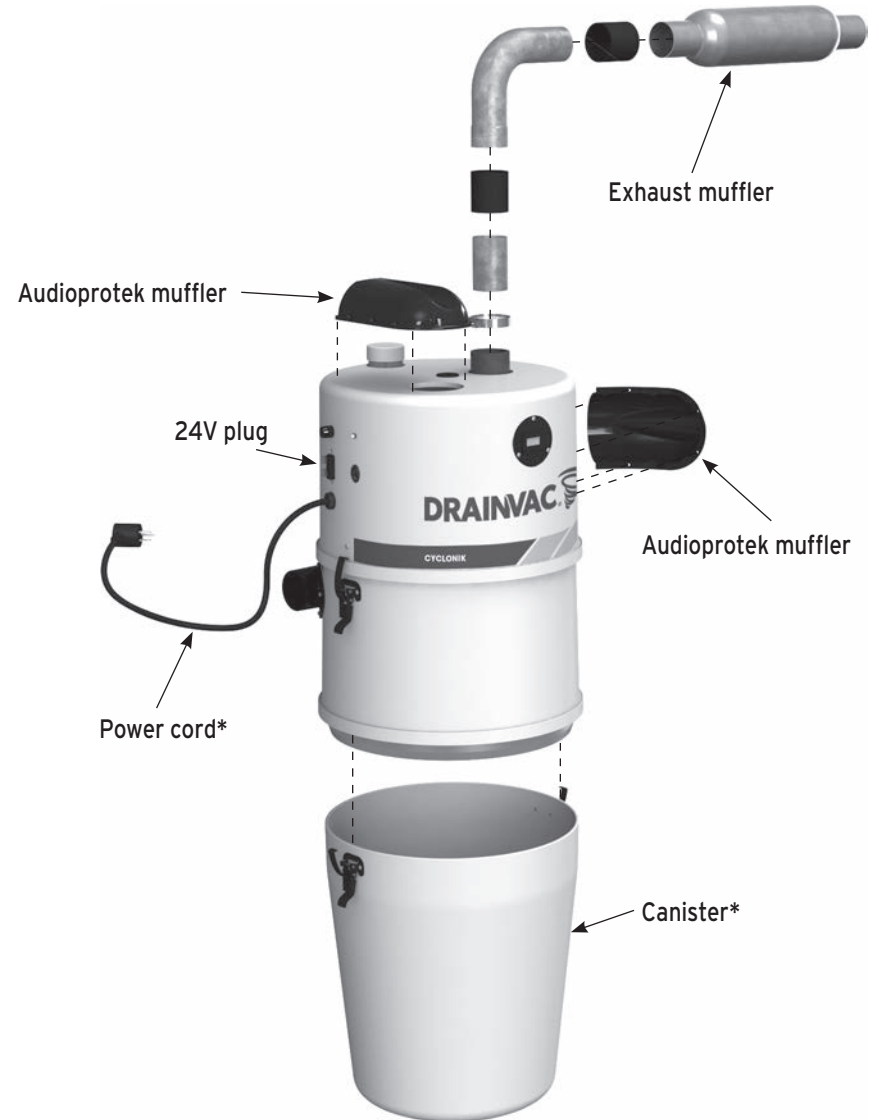
DV1R800 / DF1R630

UNIT DESCRIPTION



DV1R18 / DF1R18

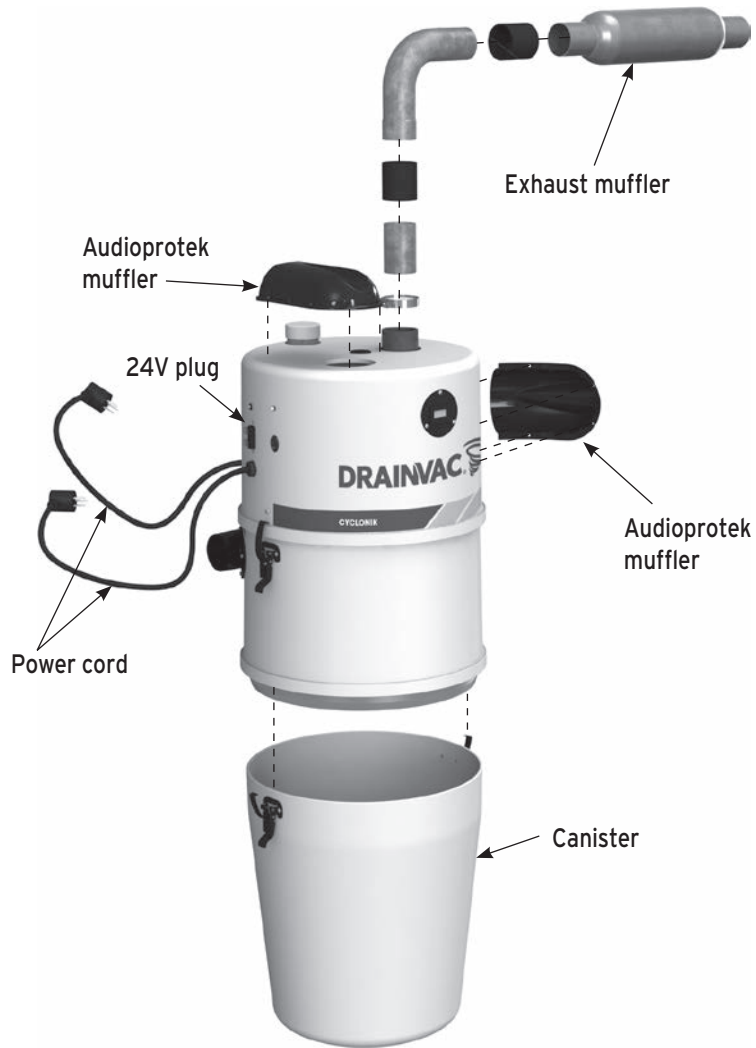
UNIT DESCRIPTION



DF1R19 / DF1R20

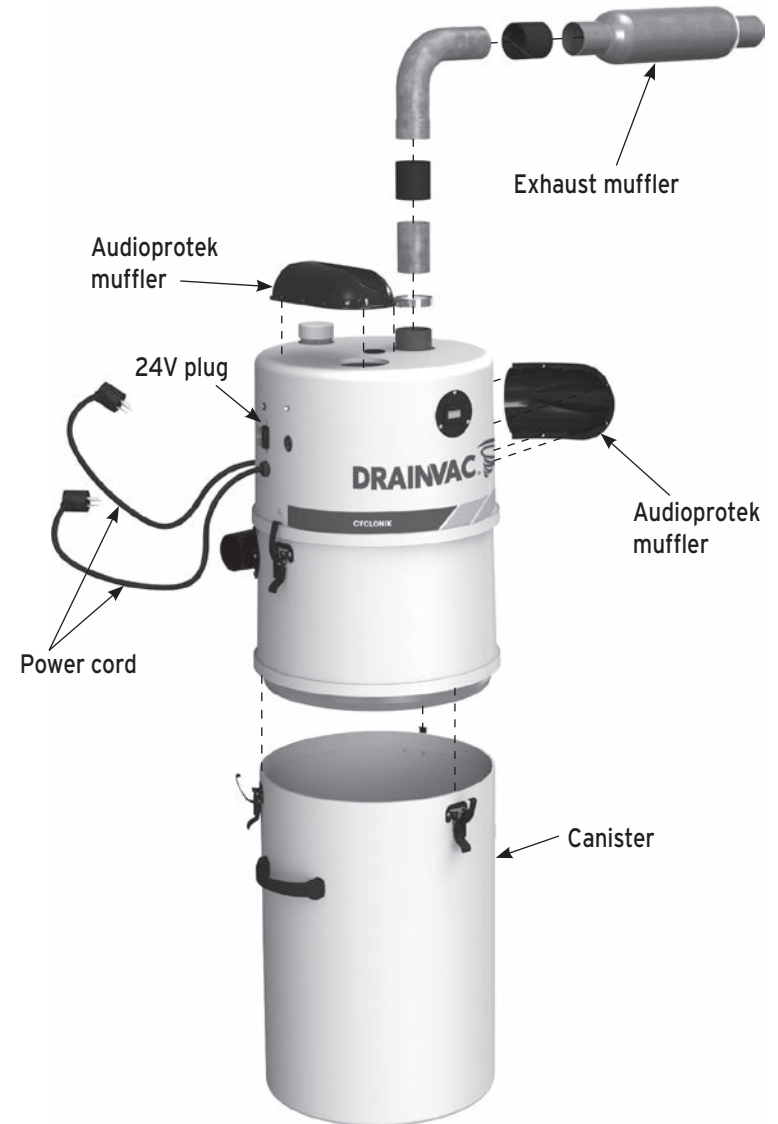
*The DF1R20 model is identical, but with a 12 gal./54 L bucket.

UNIT DESCRIPTION



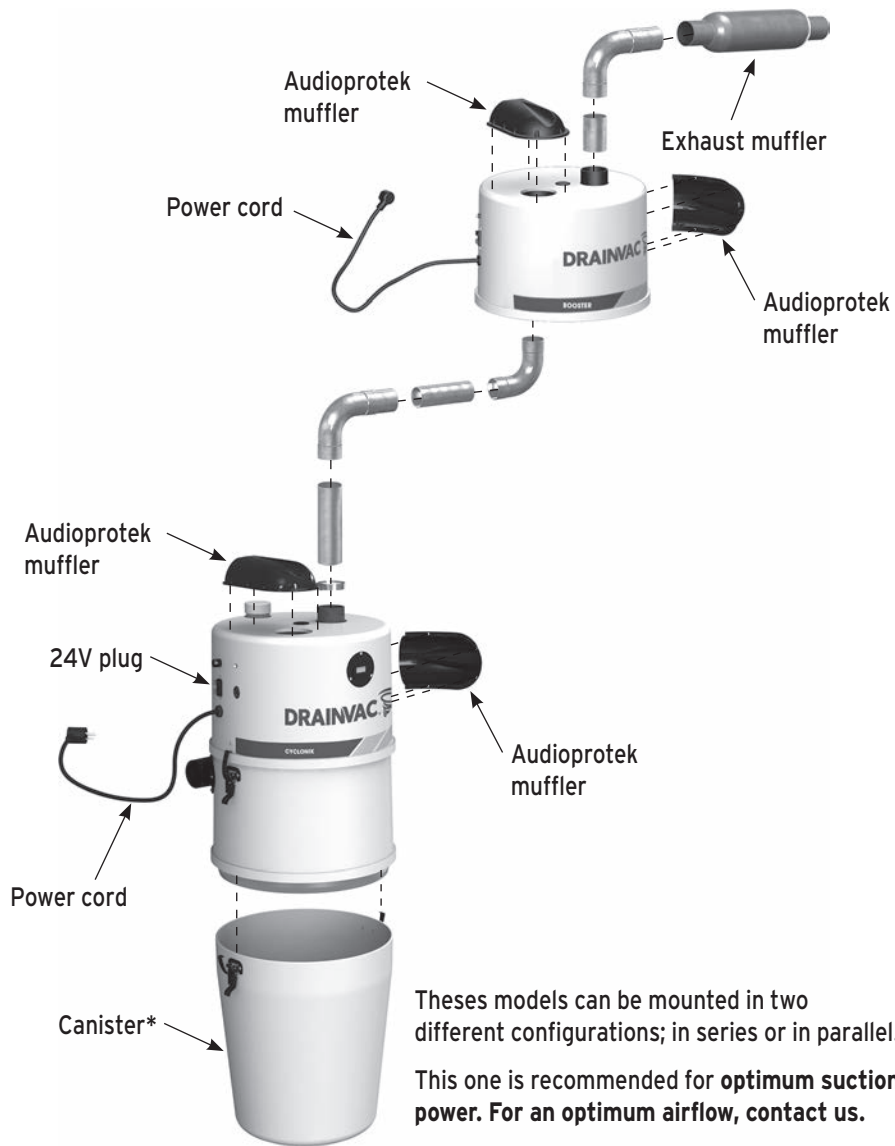
DV1R19-27

UNIT DESCRIPTION



DV1R20-27

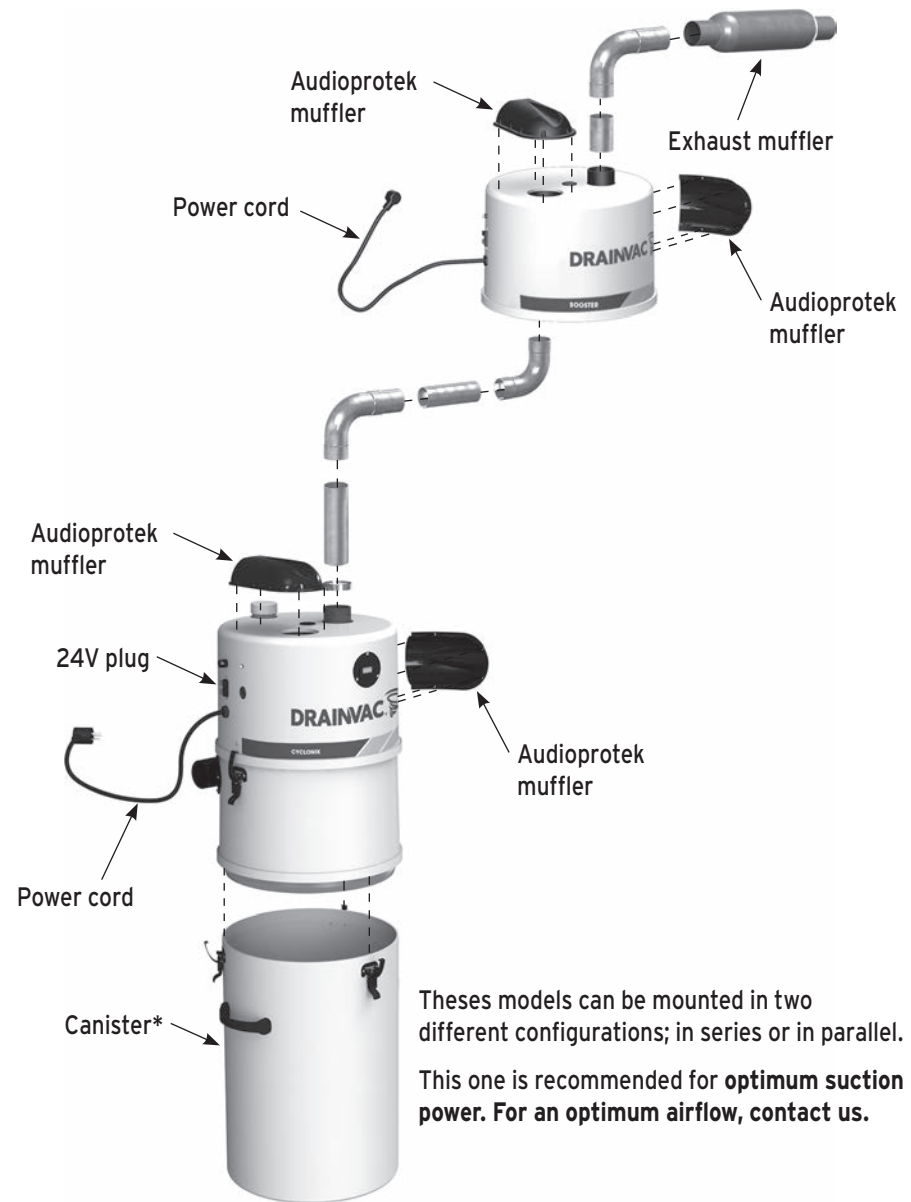
UNIT DESCRIPTION



These models can be mounted in two different configurations; in series or in parallel. This one is recommended for optimum suction power. For an optimum airflow, contact us.

DF1R19-4

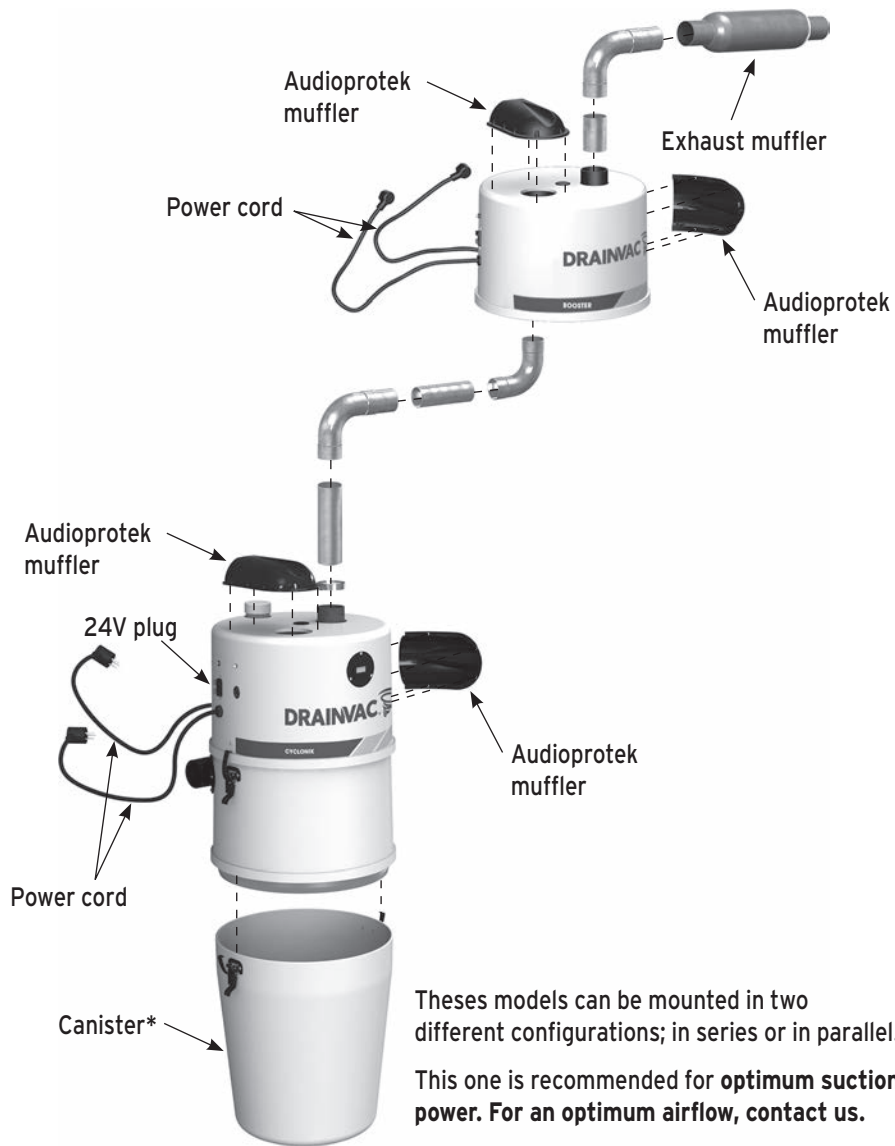
UNIT DESCRIPTION



These models can be mounted in two different configurations; in series or in parallel. This one is recommended for optimum suction power. For an optimum airflow, contact us.

DF1R20-4

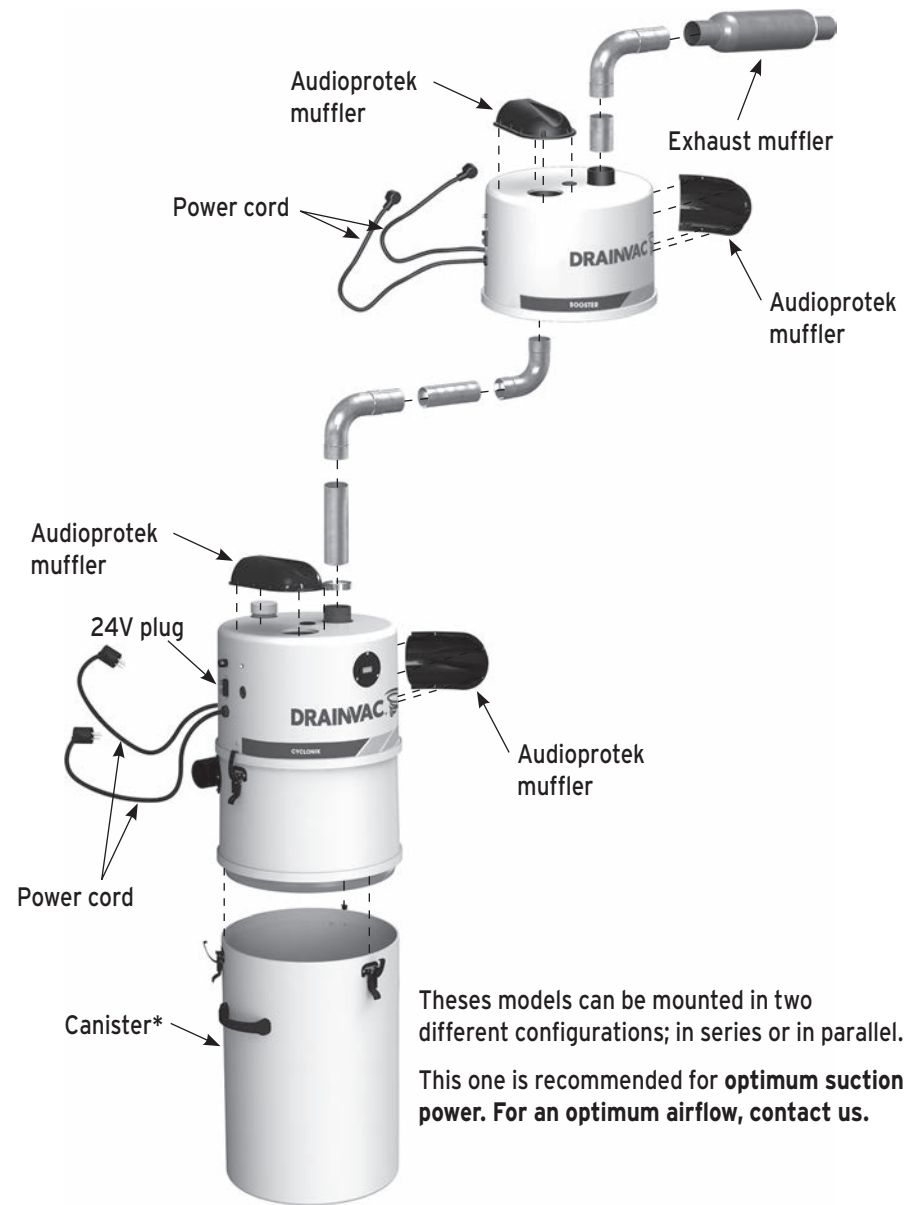
UNIT DESCRIPTION



These models can be mounted in two different configurations; in series or in parallel. This one is recommended for optimum suction power. For an optimum airflow, contact us.

DV1R19-274

UNIT DESCRIPTION



These models can be mounted in two different configurations; in series or in parallel. This one is recommended for optimum suction power. For an optimum airflow, contact us.

DV1R20-274

REQUIRED TOOLS



5/16" Socket Head Screwdriver



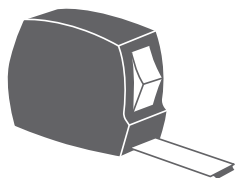
Philips Screwdriver



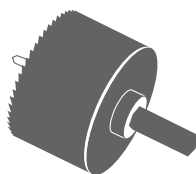
Regular Screwdriver



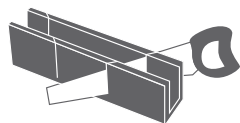
Cutting Pliers



Measuring Tape



Hole saw 2.25" (57 mm)



Mitre box and saw or



PVC Pipe Cutter 2" (50 mm)



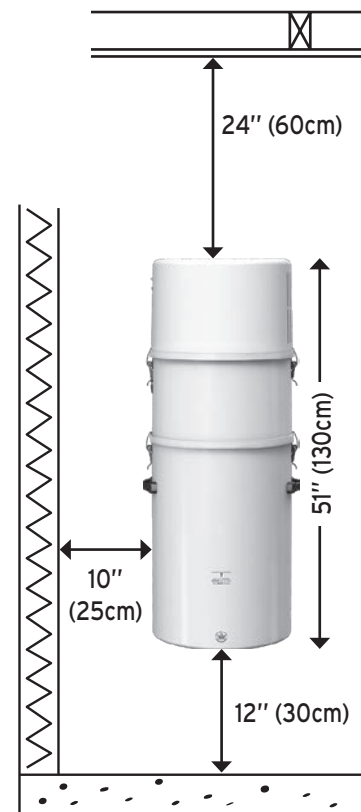
Drill 0.5" (12.5 mm) bit

WHERE TO INSTALL THE UNIT

We recommend installing the system on the **lowest level of the building** to avoid having to work against gravity. Dust and solids will fall easier than being pulled upwards, this is why the basement is generally the most ideal location. If there is no basement, the garage or a storage room will do.

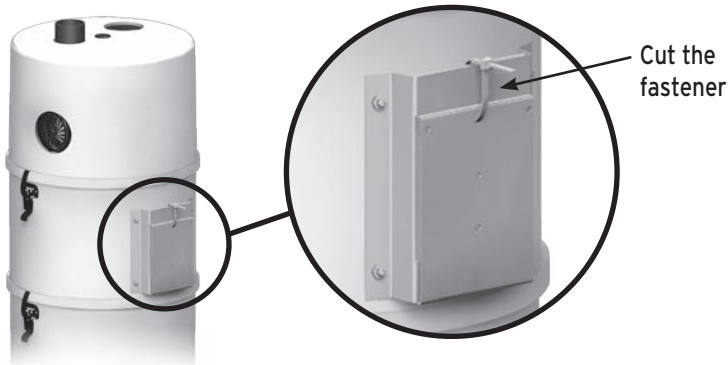
MINIMUM DIMENSIONS AND SPACING

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



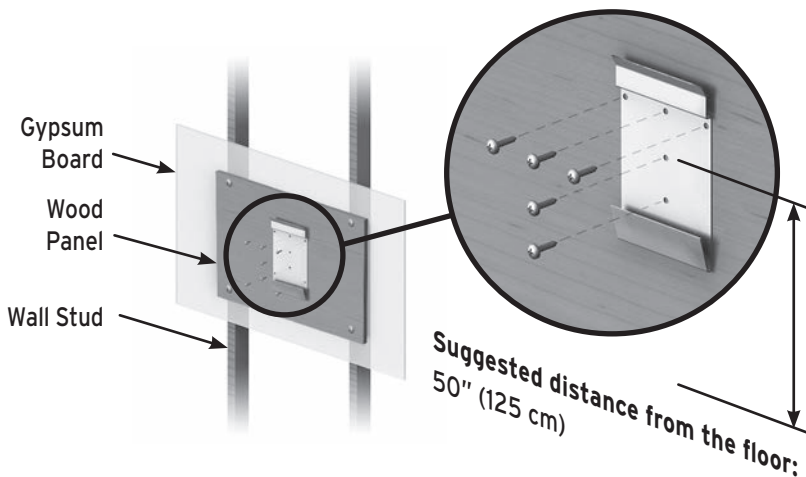
1) MOUNTING THE UNIT ON THE WALL

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

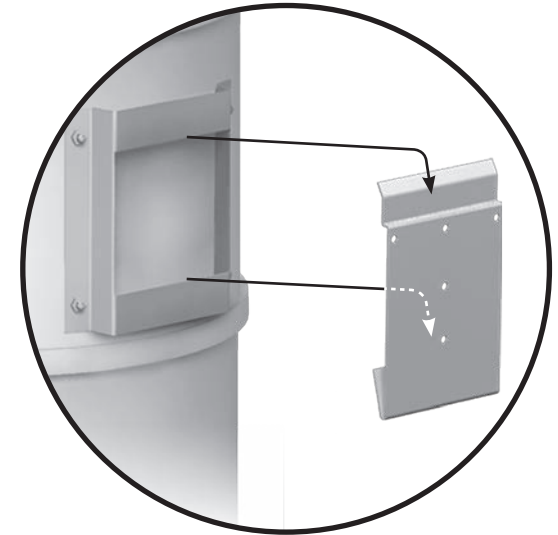


- Attach the bracket to the wall with the 5 screws supplied with the head.

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.

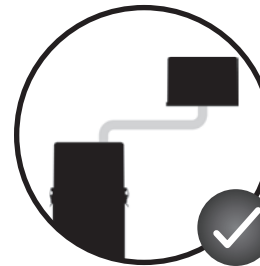


- Lift the unit and slide its support onto the wall bracket.

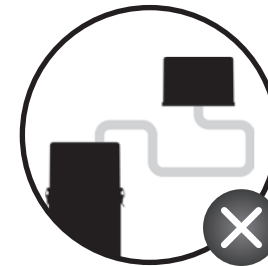


POSITIONING A BOOSTER HEAD

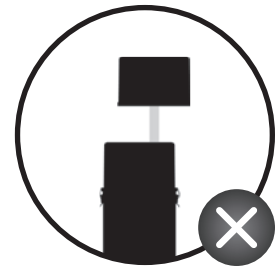
- If your unit is equipped with one or several booster heads, repeat the same steps to attach it, or them, to the wall.



Optimum efficiency



Not recommended



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.

2) CONNECTING THE DUST INLET

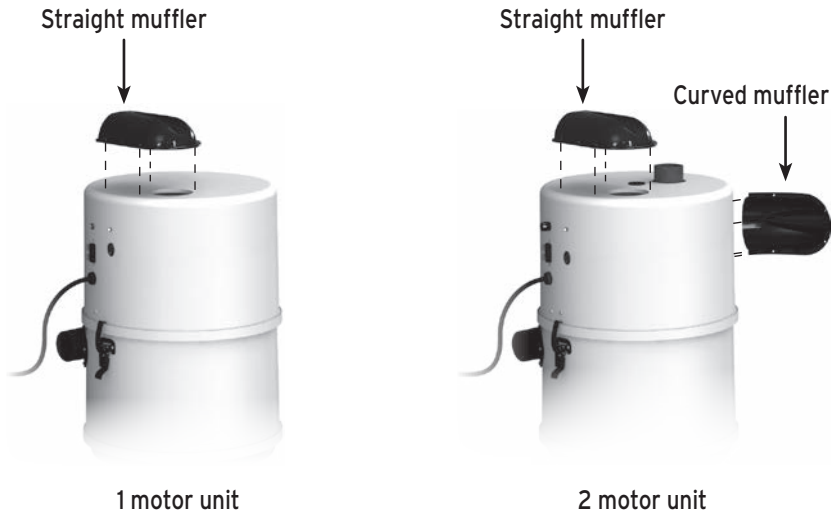
- Connect the dust inlet onto the unit securing it with a collar (do not glue).



3) AUDIOPROTEK MUFFLER

All Cyclonik systems are supplied with Audioproteks, except for models DV1R700 and DF1R630.

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



4) AIR OUTLET

An air outlet leading outside the building is mandatory for all Cyclonik systems, except for models DV1R700 and DF1R630, which you can install an Activac 3 filter.

ACTIVAC 3

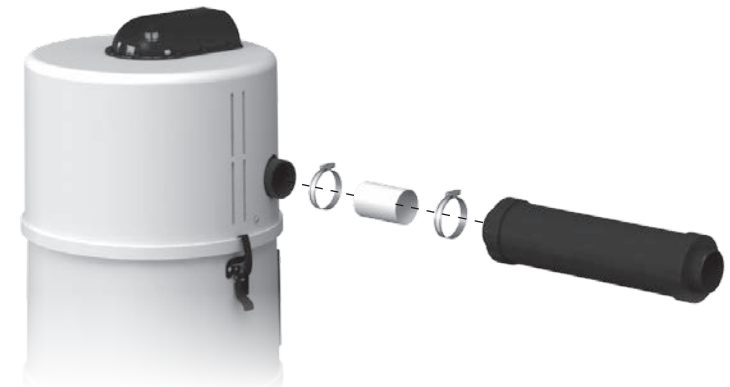
- Clamp the 90° short elbow to the unit with the supplied collar and insert the Activac 3 filter to the other end with a second collar (do not glue).



MUFFLER

- Connect the air outlet to the unit, securing it with a clamp and install the muffler with a second collar (do not glue).

Installation with a straight pipe.



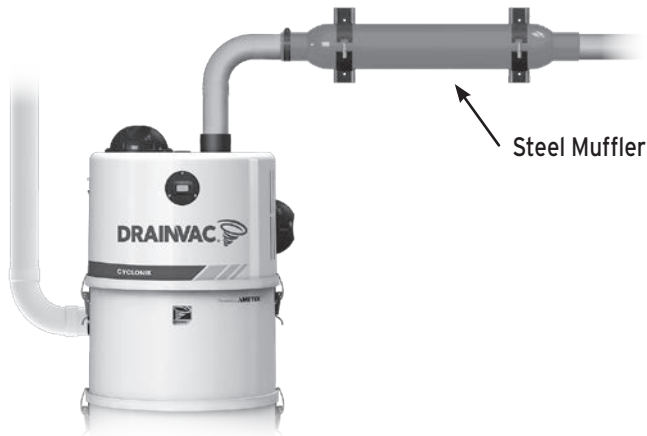
Installation with a 90° elbow.



STEEL MUFFLER

Some units are equipped with a steel muffler to absorb the noise produced by more powerful systems. Unlike plastic mufflers, this steel muffler must be installed on the wall.

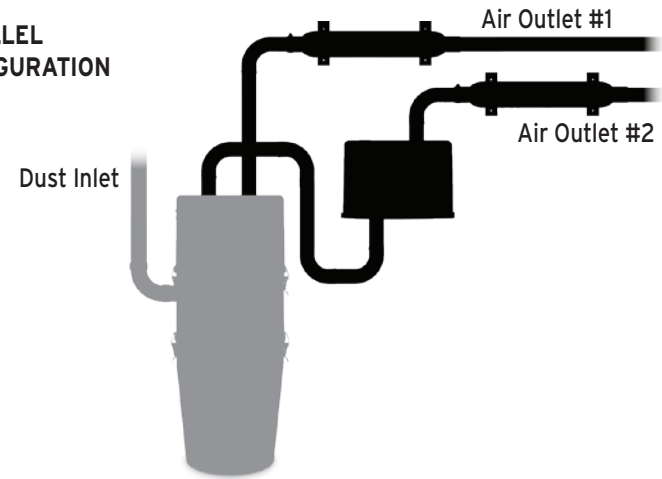
- You will find the installation method on the sheet provided with the exhaust.



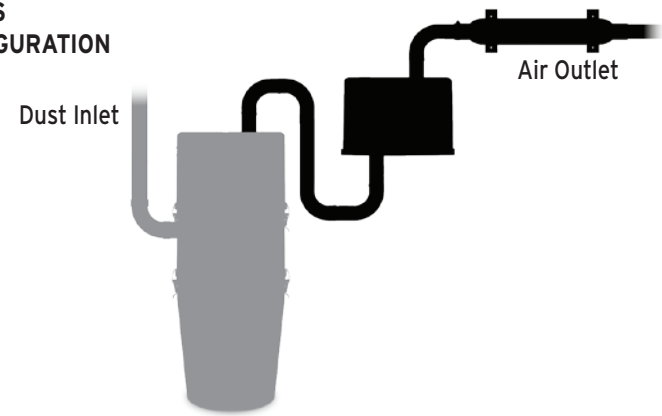
AIR OUTLET WITH A BOOSTER HEAD

In a parallel configuration, each head, including the main one, requires an independent air outlet. A series configuration only requires one. However, the TETE200/TETE200E head carries two air outlets.

PARALLEL CONFIGURATION



SERIES CONFIGURATION



Consult the booster head user's guide for more information.

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

GENERAL INFORMATION

- You must plan to install an air outlet leading outside for these units but 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 centre 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 piercing a hole through the pipe.
- The minimum cornering pipe must be at least a **medium elbow**, but an **45° pipe is recommended for all corners** for an optimal efficiency.
- 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.
- The pipes leading upwards **must be slightly higher than the main pipeline** to prevent liquids from flowing back down (**Figure C**).

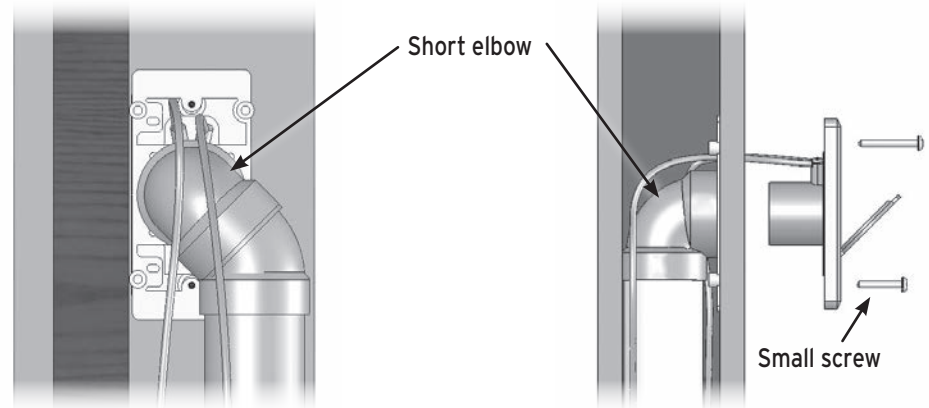


Figure A

Figure B

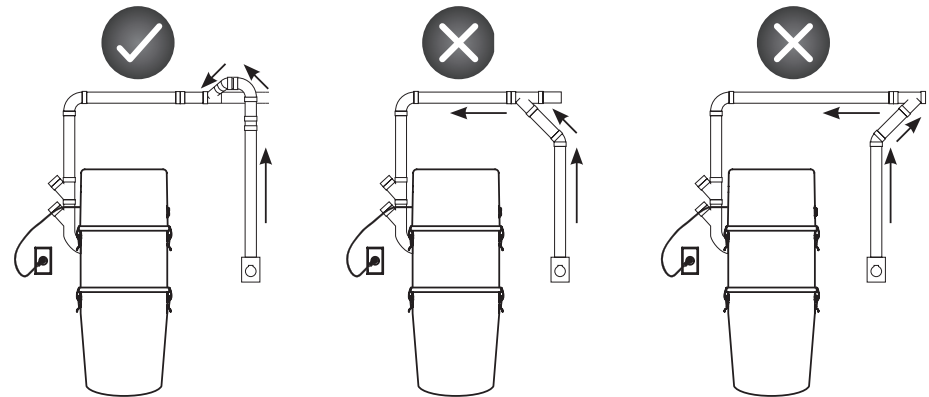


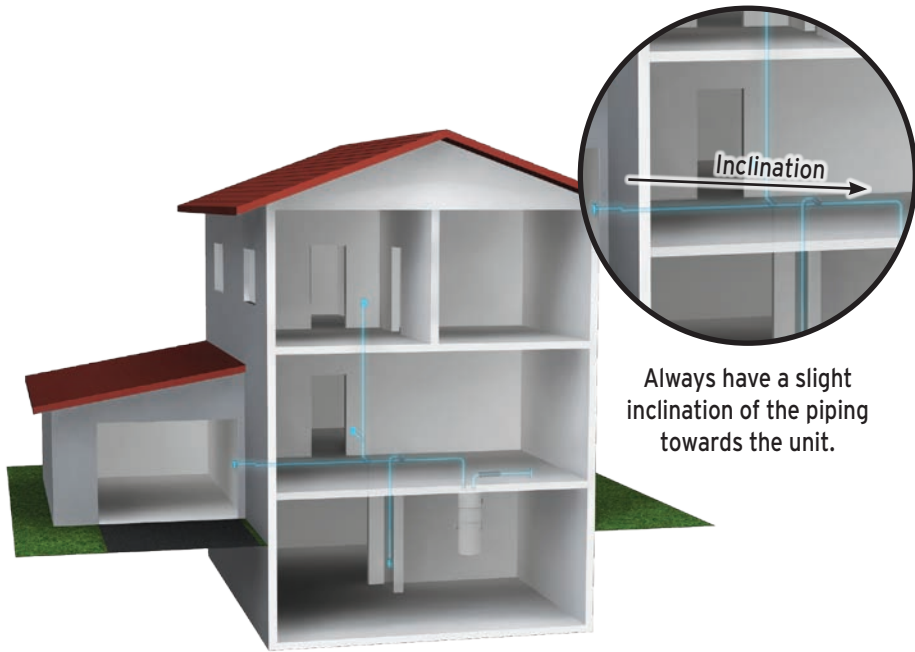
Figure C

Figure D

Figure E

PIPING INSTALLATION

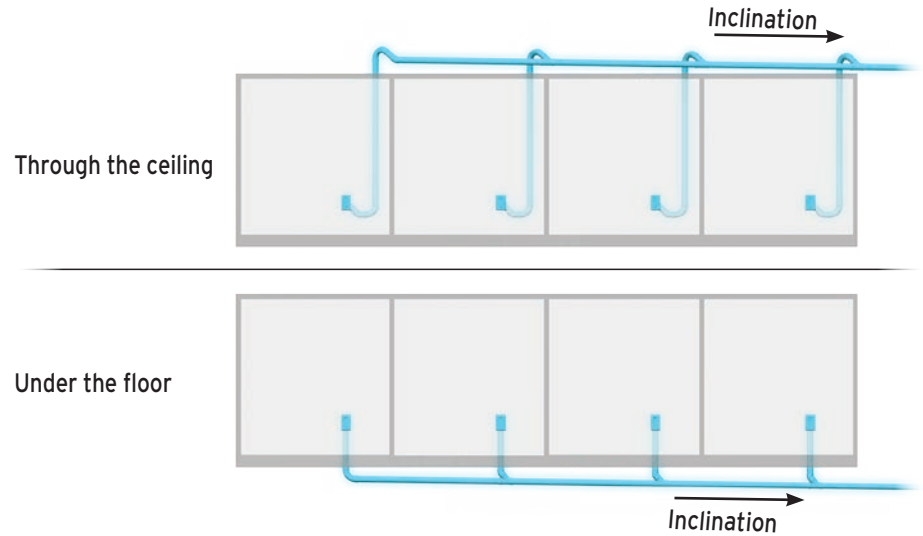
DIAGRAM OF A RESIDENTIAL INSTALLATION



PIPING INSTALLATION

DIAGRAM OF A COMMERCIAL INSTALLATION

Installation example in series



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

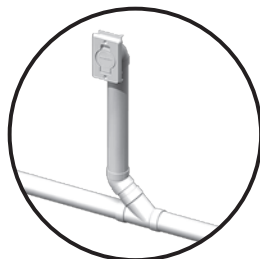
DIFFERENT INSTALLATION POSSIBILITIES



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)



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

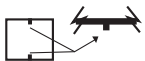


Back-to-back

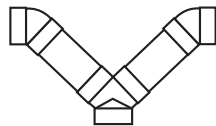
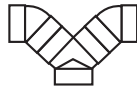
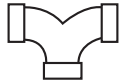
EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS



Thin wall
Thick wall
For wall plates only

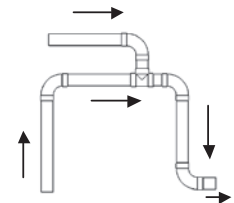
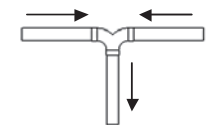
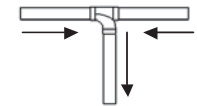
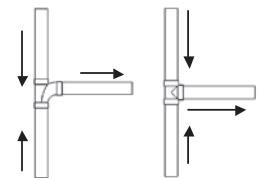
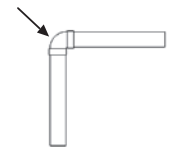
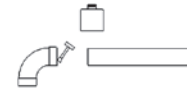
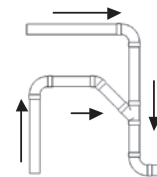
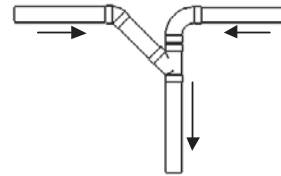
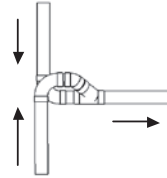
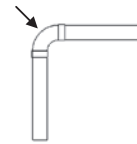
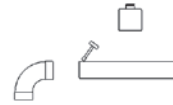


Joint with inside stoppers



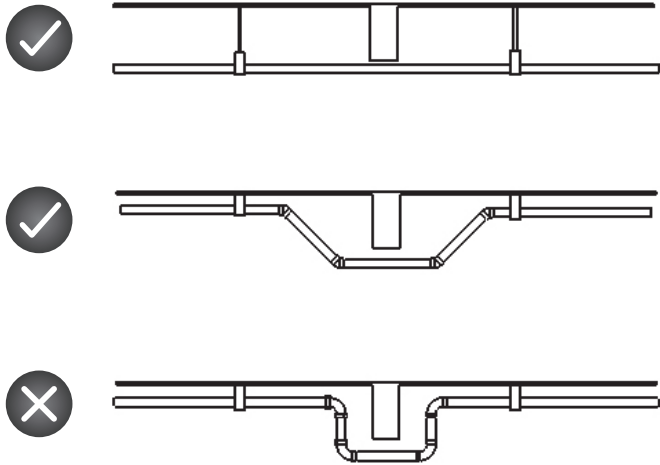
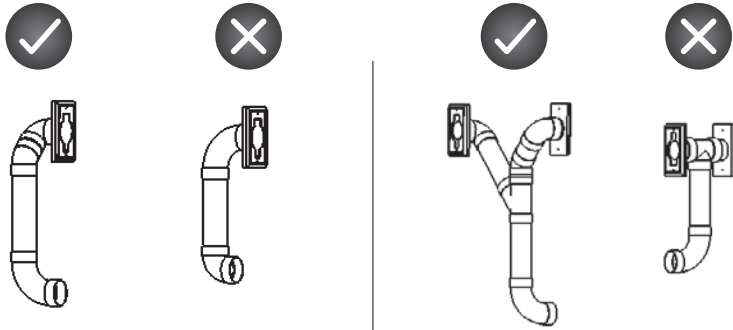
Smooth joint without inside stoppers

EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS



PIPING INSTALLATION

EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS

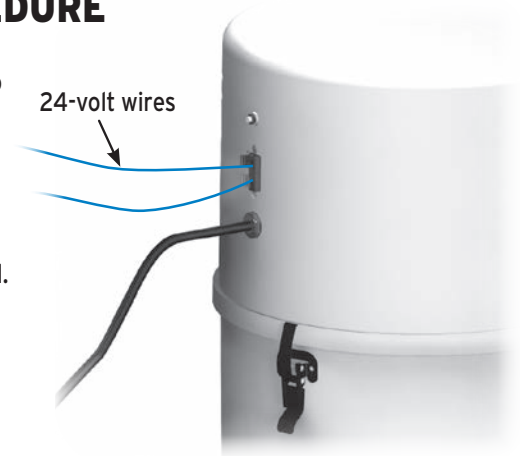


ELECTRICAL POWER SUPPLY

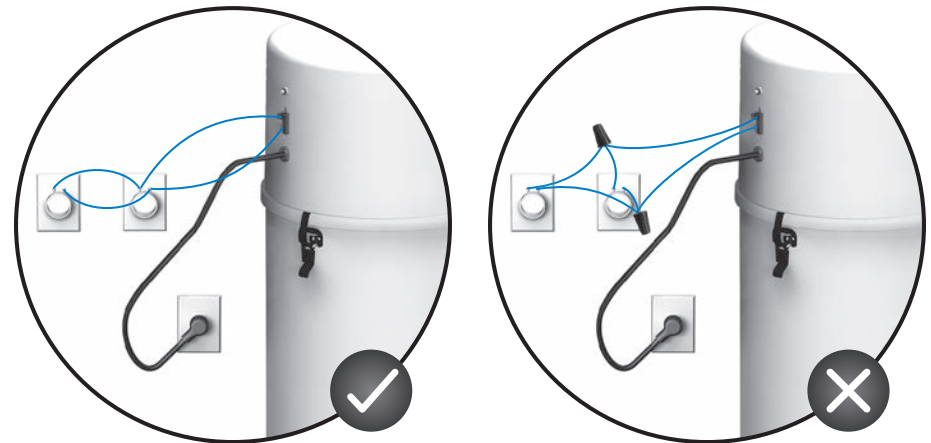
An electrical cord is equipped to all central vacuum systems. An adequate electrical power outlet must be installed near the unit. **We strongly recommend installing an electrical circuit which will only be used for the unit.**

CONNECTION PROCEDURE

- Install the 24-volt wires from the network (each wall inlet) to the unit.
- Connect the unit to the electrical outlet with the power-supply cord.
- The unit is now ready to be used.

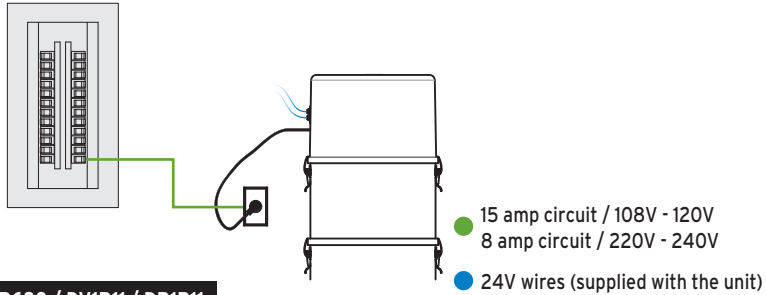


EXAMPLES OF PROPER AND IMPROPER INSTALLATIONS

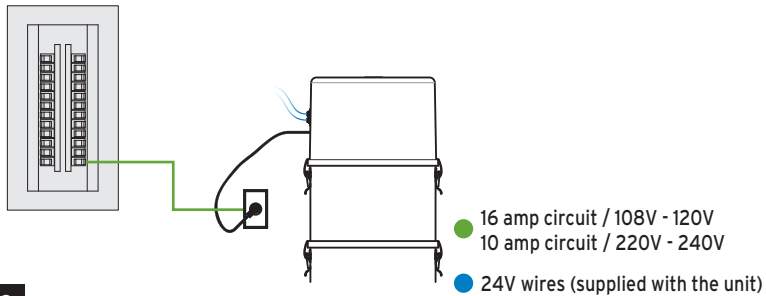


DIAGRAMS OF AN APPROPRIATE CONNECTION

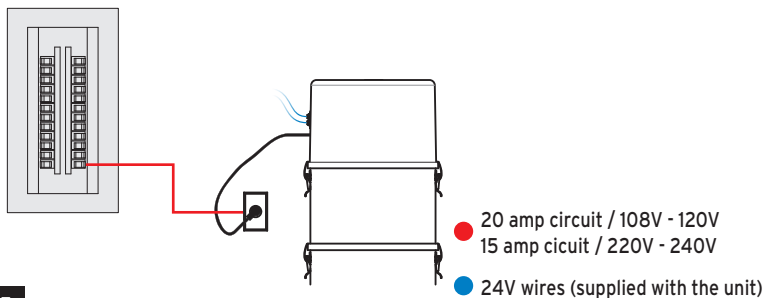
If you experience voltage surge problems on your electrical circuit in spite of adequate connections, a high magnetic circuit breaker can be installed on your electrical panel. Contact an electrician for more information.



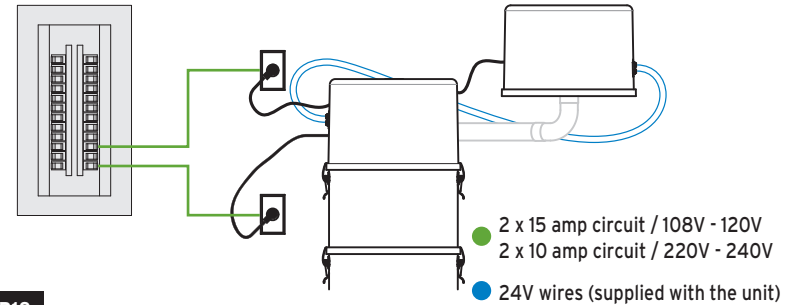
DV1R800 / DF1R630 / DV1R11 / DR1R11



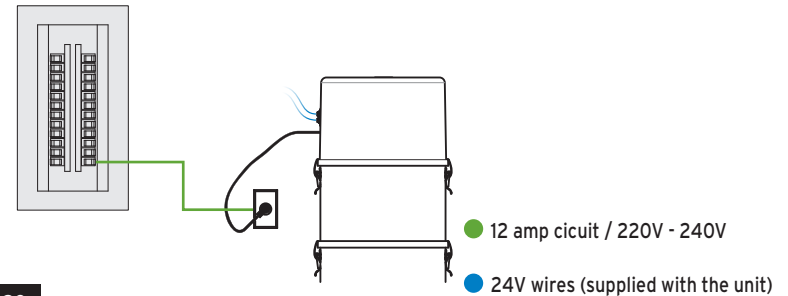
DV1R12 / DF1R12



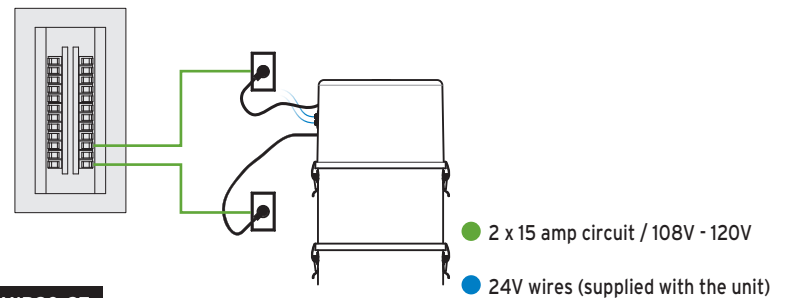
DV1R15 / DF1R15



DV1R18 / DF1R18



DF1R19 / DF1R20



DV1R19-27 / DV1R20-27

ELECTRICAL POWER SUPPLY

GROUNDING INSTRUCTIONS

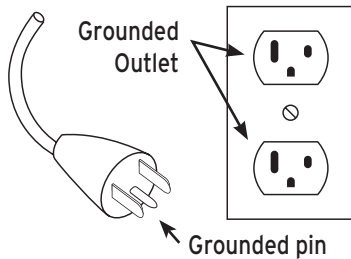
These units must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into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

WARNING - Improper connection of the equipment-grounding 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.

DO NOT MODIFY THE PLUG PROVIDED WITH THE UNITS - IF IT DOES NOT FIT THE OUTLET, HAVE A PROPER OUTLET INSTALLED BY A QUALIFIED ELECTRICIAN.

These units are for use on a nominal 108V - 120V or 220V - 240V circuit and has a grounding attachment plug that looks like the one illustrated below. Make sure that the electrical cord is connected to an outlet having the same configuration as the plug.

NO ADAPTOR SHOULD BE USED WITH THIS APPLIANCE.



*Illustration of a north-american electrical outlet

MAINTENANCE PROCEDURES

MOTOR BRUSHES

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



Figure F

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 F) 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.



The acquirer of the auxiliary heads is committed to respect the environmental regulations of the liquid and solid waste disposal in the public water system.

SUPPORT

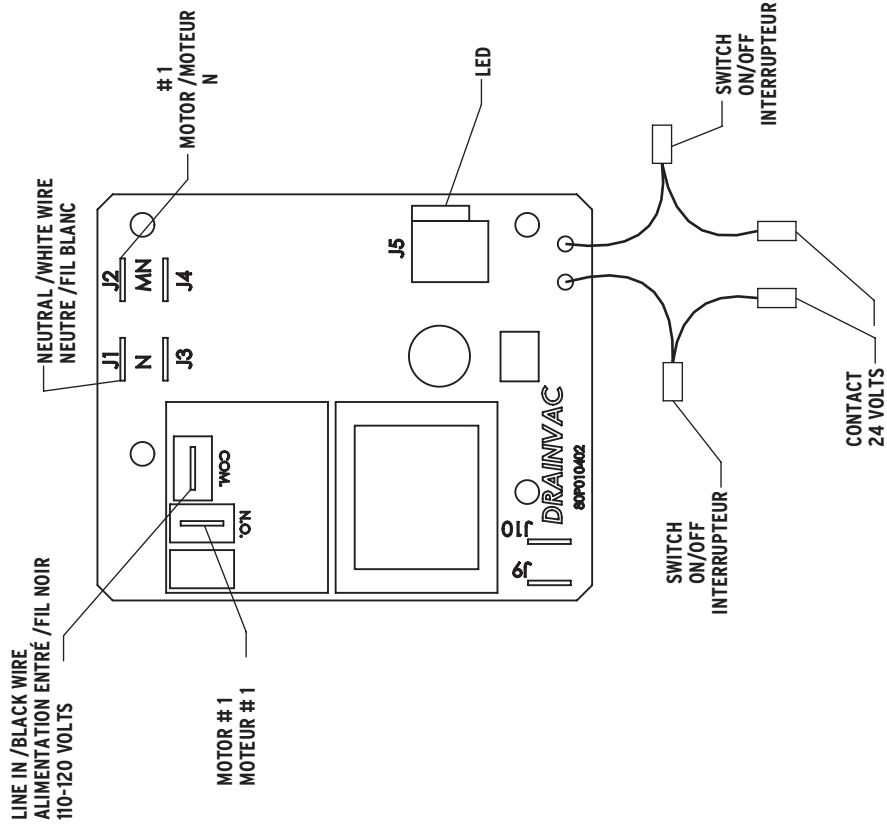
If you wish to speak with a customer service representative, please contact your supplier/dealer. To find a retailer near you, please visit our website: www.drainvac.com/ca/en/retailers/find-a-retailer/

MAINTENANCE PROCEDURES

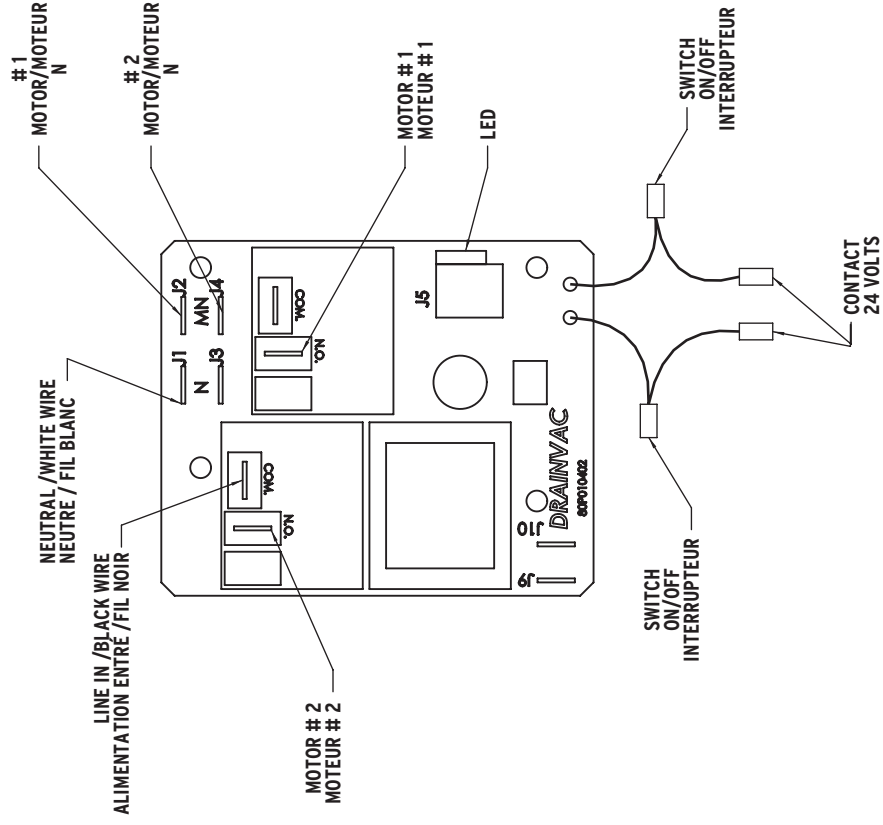
CARTRIDGE FILTER

You must clean the cartridge filter every 6 months to prevent your unit from losing any suction power and extend its lifespan. **CAUTION:** If your unit runs with a cartridge filter and the filter was removed for cleaning purposes, it is important not to use the unit or you will damage the motor.

- The cartridge cannot be washed. Clean with compressed air or replace it.



ANNEX I
CIRC-02
CONNECTION DIAGRAM
108-120 VOLTS
 DV1R1, DV1R12, DV1R18, DV1R700, DV1R19-27, DV1R20-27



ANNEX II
CIRC-03
CONNECTION DIAGRAM
108-120 VOLTS
 DV1R15

