

# USER MANUAL

Central Vacuum System



**Intertek**

2000868

Conforms to: UL Std. 1017

Certified to:

CAN/CSA Std. C22.2 No. 243-10

**THIS MANUAL APPLIES TO:  
HUSKY STORM**



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# 1. IMPORTANT SAFETY INSTRUCTIONS

## READ ALL INSTRUCTIONS BEFORE USING THIS CENTRAL VACUUM SYSTEM

When using an electrical appliance, basic precautions should always be followed.

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

- Unplug and disconnect the power unit from the electrical outlet before servicing or maintenance.
- Do not install outdoors and do not use on wet surfaces.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Use only as described in this manual. Use only manufacturer's recommended accessories.
- Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service centre.
- Do not pull or carry by power cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners.
- Check inlet openings for small objects that may not have been vacuumed in order to keep openings clear of air flow reducing factors.
- Keep power cord away from heated surfaces.
- Do not unplug by pulling on power cord. To unplug, grasp the plug, not the cord.
- Do not handle system or accessories with wet hands.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Turn off all controls before unplugging.
- Use extra care when cleaning on stairs.

 **IMPORTANT:** DO NOT vacuum gypsum dust, flour, mud or any equivalent substances because they cake onto the filter and obstruct the filtration system. This can cause the motor to overheat and hinder the proper functioning of the unit. The power unit must always have the permanent filter installed.

- Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
- Connect to a properly grounded outlet only. See grounding requirements in section 2.
- Do not exhaust into a wall, a ceiling or concealed space of a building or structure, use appropriate installation to exhaust outside the residence.
- Make sure that the air exhaust is never obstructed.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
- Do not place or store anything on top or around of the power unit, overheating of motor could occur.

# SAVE THESE INSTRUCTIONS

INTENDED FOR HOUSEHOLD USE ONLY

## 2. GENERAL GUIDELINES & REFERENCE

### GROUNDING REQUIREMENTS

These appliances must be grounded. If they should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance has a power cord of 5.4 ft / 1.65 m in length and are equipped with a grounding conductor and grounding plug. The plug must always be inserted directly into an electrical outlet that is properly installed and grounded in accordance with all local codes and regulations.

**DO NOT USE AN EXTENSION CORD TO PLUG THE UNIT.**

#### **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 of the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.**

**This appliance is for use on a nominal circuit of 15A at 110-120 VCA, 50/60 Hz. The unit has a grounding attachment plug. Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adapter should be used with this appliance. The power unit should be connected to an independent circuit breaker.**

### THE FOLLOWING GUIDELINES MUST ALWAYS BE OBSERVED:

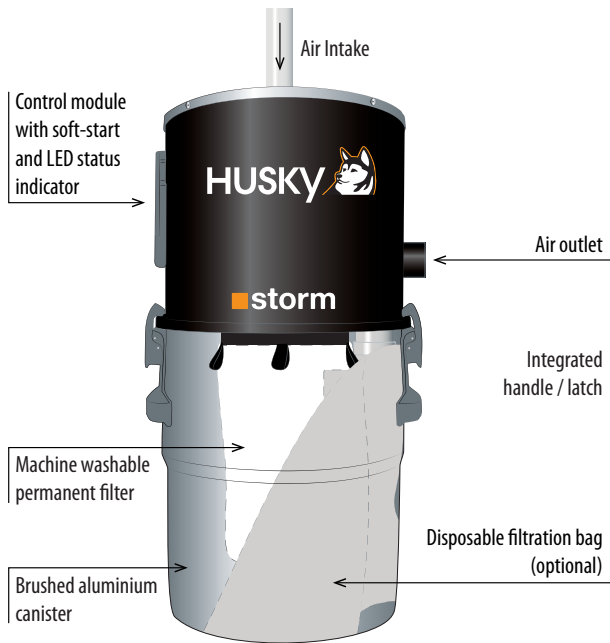
1. The power unit must be installed in a ventilated area away from any heat source;
2. The Husky central vacuum system must be used only on dry surfaces. At no time should the system be used to draw up liquids nor should it be used to vacuum wet carpets or floors.
3. It is mandatory that the filtration cage be equipped with its permanent filter at all times when the system is in use;
4. The motor housing must never be obstructed in any way to avoid overheating or damaging;
5. DO NOT vacuum gypsum dust, flour, mud, or any sludgy materials as they cake onto the filter and obstruct the filtration system resulting in the over-heating of the motor and thus failure of the power unit to function properly;
6. Do not attempt to shorten or modify the electrical power cord;
7. As a security measure, unplug the electrical power cord before proceeding with any maintenance;
8. In order for the warranty to be valid, only a Husky authorised service personnel may carry out the necessary repairs or maintenance on the motor;
9. The warranty will be void if non-recommended products such as filters or any other after-sale parts as carbon brushes and motors are used to repair the unit. Husky recommends strongly to use only Husky certified filters and replacement parts;
10. Appliance must be so positioned that the plug is always easily accessible.
11. Pertaining to an electrified inlet valve (intended for the connection of a current-carrying hose/motorized nozzle combination):
  - Connect only a current-carrying hose to this wall valve;
  - Do not install a wall valve outdoors;
  - Do not use with a damaged hose. Return hose to a service centre;

#### **IMPORTANT**

**Husky is not responsible for damages resulting from improper use. The warranty does not cover damage resulting from misuse or problems resulting from installation that does not conform to specifications, or any functional alterations and / or physical changes to the power unit. Improper or non-recommended installation of the system and / or power unit done against predefined principles of the user manual is also considered misuse.**

**All conditions and restrictions are set forth in the Husky limited warranty, the user manual and the system installation guide. To optimize the performance and life of your Husky power unit, it is important to do regular maintenance and cleaning of the filter according to the guidelines listed in this user manual.**

### 3. HUSKY STORM MODEL



#### NOTE

» in order to avoid overheating, we recommend 12 in / 30 cm clearance all around the power unit.

### 4. INSTALLATION

#### POWER UNIT

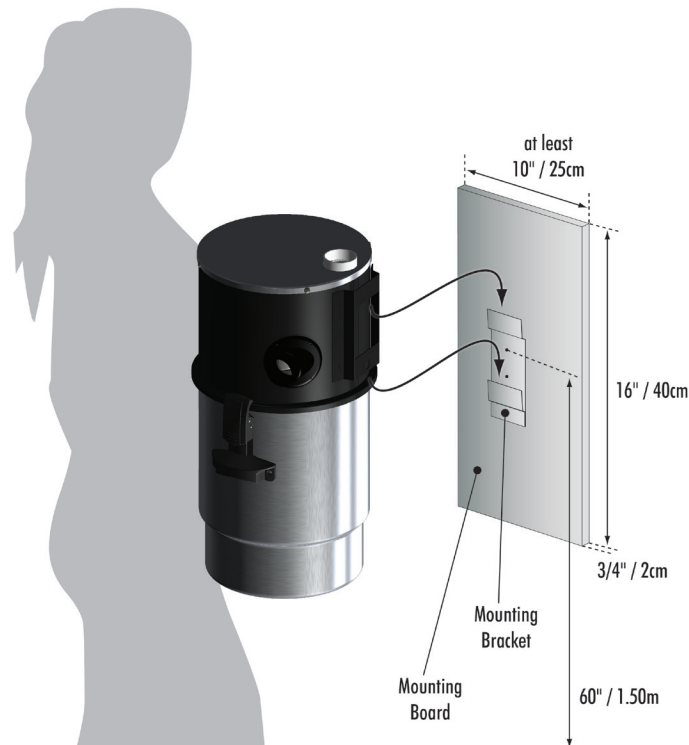


Fig. 1 Mounting the unit on the wall.

The power unit must be installed in a ventilated area, easily accessible and away from any heat source. It should also be close to an accessible electrical outlet.

1. Determine the location of the power unit on the wall; we recommend that the power unit be fastened at 60" / 1,5 m from the ground in order for the dust canister to be readily accessible; allow 12" / 30 cm clearance on all sides of the power unit. When possible, it is

advisable to install the power unit on a concrete wall in order to minimise the vibrations;

#### 2. Gypsum wall:

- Prepare the wall by installing a plywood mounting board (not provided) 16" / 40 cm high x 3/4" / 2 cm thick and wide enough to be screwed to at least 2 studs;
- Fasten the mounting bracket to the mounting board with the provided screws;

#### 3. Concrete wall:

- Drill the holes with a concrete drill bit;
- Insert the provided wall anchors into the drilled holes;
- install the mounting bracket with the provided screws into the anchors;



#### NOTE

» You can still install a plywood mounting (16" / 40 cm x 10" / 25 cm x 3/4" / 2 cm) board if desired;  
 » You can use provided screws to fix mounting board on the wall, but cannot use them for installing the mounting bracket on the mounting board because of their length. You need to use shorter screws (not provided).



#### IMPORTANT

Always use the right type of screws for the surface you are working with (wood, concrete, metal...)

4. Insert the power unit bracket into the mounting bracket (Fig. 1).
5. Insert the PVC pipe into the air intake coupling; **DO NOT GLUE!**
6. Connect the controller module as explained in section 6;
7. Connect the power unit directly into an electrical outlet.

## 5. HOSE WITH ERGONOMIC HANDLE



At Husky, we understand that your cleaning experience with a central vacuum system begins above all with the use of the flexible hose and accessories. This is why we offer products above market standards.

Fig.2 Combo hose with button lock handle

Your Husky flexible hose comes with a uniquely designed ergonomic handle, which makes its use pleasant and worry-free. The hose's quality, durability and solid design is made of first quality materials with a rocker on/off switch.

The top-of-the-line finish of your Husky flexible hose is perfectly harmonized with a series of accessories chosen by Husky to make a perfect cleaning kit. The performance, simplicity and durability are the three principles which led to the development of your Husky accessory kit. We are convinced that your cleaning experience will be improved by it.

## 6. LOW VOLTAGE WIRE CONNECTION

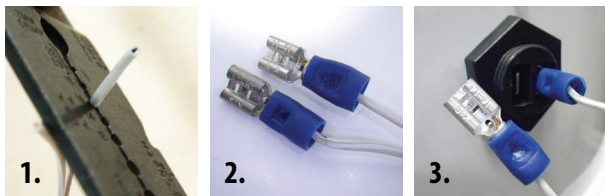


Fig.3 Low voltage wire connection

Before connecting the low voltage wires, make sure that the power unit is disconnected from the electrical outlet.

1. First, strip the low voltage wires (on the end of the piping near the unit) approximately 3/8 in / 10 mm;
2. Crimp the connectors onto the wires in order to hook-up the system.
3. Insert the low voltage wires into the power unit's low voltage terminal. Slightly pull on the low voltage wires to verify that they are properly fastened to the terminal.
4. To remove the wires, gently pull the connector out of the socket.

## 7. SYSTEM OPERATING INSTRUCTIONS

Your new system is ready to be used. Here are some simple guidelines to follow when using your power unit:

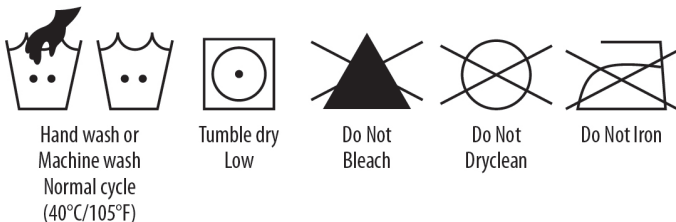
- Insert the flexible hose in one of the wall or floor vacuum inlets installed in your home;
- Use the switch on the hose's handle to turn the power unit on/off.

## 8. SYSTEM MAINTENANCE

### FILTRATION SYSTEM

In order to maintain good air quality in your home, the power unit is equipped with a filtration system. It consists of a permanent filter and an optional disposable filtration bag. The filter separates dust from the air.

#### THE PERMANENT FILTER



Husky's filtration system will maintain its high performance as long as it is well looked after.

SILPURE is a natural protection (GREEN) against odor-causing bacteria which exploits the natural power of silver in stopping the growth of bacteria. The permanent filter may be machine-washed and tumble dried. It is recommended that the dust canister be emptied every three (3) months or more often depending on the use you make of your system.



### IMPORTANT

**DO NOT vacuum gypsum dust, flour, mud, or any sludgy materials as they cake onto the filter and obstruct the filtration system resulting in the over-heating of the motor and thus failure of the power unit to function properly;**

**If you are not using a disposable filtration bag in addition to the permanent filter, empty the dust canister regularly to ensure a longer lasting life of the motor.**

**If you are using the disposable filtration bag, it should be checked / changed as often as you would empty the dust canister.**

While emptying the power unit's dust canister, the permanent filter should also be cleaned:

1. Unlatch the dust canister;
2. Wrap a plastic / paper bag around the filter and gently pat the filter to dislodge any loose dust into the bag;
3. Empty the dust canister into a garbage bag.



### NOTE

» We recommend that the permanent filter be deep-cleaned once a year:

- a. Remove the dust from the filter by gently patting it into a bag as mentioned above;
- b. Remove the filter by pulling it down;
- c. Drop it into the washer.
- d. Set the washer to a normal wash cycle (warm or cold water) then, spin dry (regular cycle) for 10 minutes;
- e. Before replacing the filter, clean the inside of the filtration cage;



## IMPORTANT

Do not turn filter inside out. It must be replaced over the cage on the same fabric side as initially mounted in the factory.  
It is very important that the filter be slipped over the metal rim located at the top of the cage. In order to prevent any dust infiltration into the motor, the cage must be completely covered by the filter;

f. Clip the dust canister back on the casing.

## THE DISPOSABLE FILTRATION BAG

In order to maximize your system's filtration capabilities, every Husky power unit comes with a disposable filtration bag. See below instructions on replacing the disposable filtration bag:

DISPOSABLE FILTRATION BAG	VACUUM MODEL
FILTRE-186	HUSKY STORM

The disposable filtration bag should be changed every three (3) months to ensure proper functioning of the power unit.

To change the filtration bag, please proceed as follows:

1. Unlatch the dust canister;
2. Remove the disposable bag from the elbow attachment by gently pulling on both sides of the cardboard cuff;

3. Dispose of the used bag;
4. Slip the new disposable filtration bag onto the elbow fixture by gently pressing on both sides of the cardboard cuff until it reaches the stop notch on the elbow.



## IMPORTANT

The warranty will be void if non-recommended filters are used to repair the unit. Husky recommends strongly to use only Husky certified filters

## MOTOR

All units are equipped with a soft-start control module and have a LED communicating the system status (see fig. 4 in section 9 for more details on LED color interpretation). When the LED changes to amber, it is time to make an appointment with a Husky certified technician for a complete check-up of the unit. This mandatory maintenance will extend the life of the unit and keep the warranty valid. If it is still not carried out after 20 hours of additional operating, the device will automatically switch off as a safety measure.

All systems also have a mini breaker (power cut-off) directly connected to the module which protects the motor against an overload and prevents overheating.

## HOSE HANDLE



Wipe the hose handle regularly with a moist towel to avoid buildup.

# 9. TROUBLESHOOTING








Failure of the power unit could be caused by:

- Inadequate power level (voltage / amperage) (ensure that power level complies with the power unit's electrical requirements);
- Malfunction of the motor or controller module.

Simple checks can often help you find out why your power unit is inoperative. We invite you to verify the following before calling a service technician.

SITUATION	VERIFICATION
NO POWER	Check that the power unit's electrical cord is plugged directly into a power outlet.
	The power unit is equipped with a mini breaker (button on the side of the motor housing) which protects the motor against an overload. To reset the mini breaker, simply push the button. If the power goes off one more time, call a service centre near you.
	Using a screwdriver fitted with a rubber handle, touch both pins of the low voltage terminals (short circuit the 2 pins) on the side of the motor housing. If the power unit starts, the problem lies with the low voltage wiring (installed along the piping).
	You should then verify if the 24 V circuit is adequately connected by checking each inlet. Open the inlet cover, touch the small contacts with the head of a pair of metal pliers with rubber handles. This will establish power and start the motor. Repeat for each vacuum inlet.
	<div>  <b>NOTE</b>            » If all vacuum inlets are functional and your flexible hose is a low voltage technology handle, then there may be a defect in the switch of the hose or the hose itself.         </div>
DECREASED SUCTION	Check the breaker on your electric circuit panel.
	The flexible hose may be blocked. If you cannot unblock it, try inserting the opposite end of the hose into the wall inlet; touch the contacts which are located on the inside of the inlet with the hose wand in order to start the power unit.
	<div>  <b>NOTE</b>            » Frame the inlet with your hands or a large enough piece of cloth (such as a towel) to ensure the maximum suction to unblock the hose.         </div>
	Check whether the dust canister / disposable filtration bag / permanent filter needs to be emptied / cleaned.
	Make sure the canister is clipped properly to the motor housing and that the gasket, which fits around it, is in good condition.
	Make sure all inlets are airtight.
	If the pipes are visible in certain areas: check if the fittings are well glued and that there are no air leaks.
	If the pipes should be blocked behind the walls, it is possible to determine where the blockage is located by starting from the furthest inlet from the central vacuum. Insert a tissue paper and check to see if the tissue paper reaches the dust canister. Repeat the same for each inlet.



SIGNIFICATION	NIVEAU LEVEL	DEL LED	MEANING
Brancher le cordon d'alimentation à une prise électrique.	0		Plug power cord to electrical outlet.
Le cordon d'alimentation vient d'être branché à une prise électrique.	1		Power cord has just been connected to electrical outlet.
Système opérationnel.	2		System operational.
Vidange/nettoyage requis. Remise à zéro: Garder le bouton enfoncé 5 secondes.	3		Cleaning/emptying required. Reset: hold button pressed for 5 seconds.
Vidange/nettoyage requis. Remise à zéro non requise : l'unité motrice reviendra au niveau 2.	4		Cleaning/emptying required. No reset required: Power unit will return to level 2.
Planifier un appel de service.	5		Schedule service.
Service requis.	6		Service required.




Constante  Solid	Clignotement Lent  Blinks Slowly	Clignotement Rapide  Blinks Fast
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Fig.4 LED interpretation guide

## LED INTERPRETATION GUIDE

All Husky power units with control module come with a full-color explicative sticker (inside the module casing cover where applicable).



### NOTE

» The indicator in step 4 does not apply to this power unit model.

## 10. SERVICE & COMMITMENT

### OUR COMMITMENT: SATISFYING YOUR NEEDS

In an effort to always provide the customers with the best products available we welcome comments and suggestions from our customers all over the world. We want to develop a strong commitment in providing all of our customers the products which are always of the finest quality that meets or exceeds their needs.

If you have any comments or suggestions related to our products or distributors, please contact us.

For any inquiries:

Call us at:

**450-622-9000**

**1 800-361-3965**

E-mail us at:

**info@nuera-air.com**

Send us your comments to :

**Husky – Customer Service**

**3695 Desserte des Laurentides (A-15) E**

**Laval, QC H7L 3H7 CANADA**

You can also visit us at our web site  
to see all our products or find a local  
distributor at:

**www.huskyvac.com**

## 11. RECYCLING INSTRUCTIONS

Old power units contain valuable materials that can be recycled.

**DO NOT** dispose of such appliances with the normal domestic waste but rather by way of appropriate collecting points.

# TEN (10) YEAR WARRANTY



The team at Husky congratulates you on your purchase and thanks you for the confidence shown towards our high quality products. Husky offers you a ten (10) year warranty on your new power unit, and three (3) years on accessories. The benefits of the warranty are detailed in this document. We invite you to carefully read the information below in order to have a fulfilling and rewarding experience when using your central vacuum system.

## **TEN (10) YEAR WARRANTY ON POWER UNIT COMPONENTS AND THREE (3) YEAR WARRANTY ON LABOR**

All parts of your Husky power unit are warranted against manufacturing and/or functional defects for ten (10) years, from the original date of purchase at an authorized Husky dealer or store. See "Conditions and details of the ten (10) year warranty" below for normal use conditions covered by this warranty. The warranty is valid for residential use only. Any commercial, cooperative or industrial use voids this warranty. The power unit must be used under normal conditions and with regular maintenance, as indicated in the user manual provided with the system.

### **CONDITIONS AND DETAILS OF THE TEN (10) YEAR WARRANTY**

For ten (10) years from the original date of purchase of the power unit, Husky commits to repair or replace the power unit under warranty. If the power unit cannot be repaired according to the conditions of this warranty, an equivalent replacement power unit will be provided. For the first three (3) years from the original date of purchase of the power unit, Husky commits to repair or replace the power unit under warranty without any labor costs. When the initial three (3) year period has past, labor costs needed to perform part replacement under this warranty will be charged to the owner of the system. To qualify for this warranty, the owner must immediately contact Husky at **1-800-361-3965** to notify us of any problem with the power unit. Additional instructions shall then be provided. Any travel or administrative costs that may occur will not be reimbursed to the owner of the system by the manufacturer.

A copy of the original receipt must accompany the product for repair. If there is no receipt, the on-line warranty registration done when purchased can be a substitute for the original proof of purchase. The use of electrical currents other than those indicated on the power unit, or any repairs done by non-qualified persons will void this warranty. The warranty will equally be void if the central vacuum system is used to vacuum liquids. Furthermore, the warranty will be void if the central vacuum system is used to vacuum any material prohibited as mentioned in the user manual. Husky will not be in anyway responsible for any damage resulting from use that is not recommended in the user manual. The warranty does not cover damage resulting from abusive use, problems caused by a faulty installation or by any physical and/or functional alterations of the system. Abusive use may be considered if installation is not done properly or if the guidelines outlined in the user manual or the installation instructions of the system are not followed.

To get maximum benefit of your central vacuum system and to keep the warranty valid, Husky recommends regular cleaning of filters and adhering to the maintenance instructions as described in the user manual. Consumables, such as motor carbon brushes, permanent filters and filtration bags are not covered by this warranty. Any repair, maintenance and replacement of carbon brushes must be done by an authorized technician. Any costs related to normal maintenance including the changing of carbon brushes are the responsibility of the owner.

## **THREE (3) YEAR WARRANTY ON ACCESSORIES (PARTS AND LABOR)**

All accessories and the hose have a three (3) year warranty on manufacturing defects from the date of the original purchase. The warranty does not cover damage resulting from abusive use or by any physical and/or functional alterations of the accessory or hose. Abusive use may also be considered if installation is not done properly or if the guidelines outlined in the user manual or the installation instructions of the system are not followed. To qualify from this warranty, the owner must immediately contact Husky at **1-800-361-3965** to notify us of any problem with the defective part. Additional instructions shall then be provided. Any travel or administrative costs that may occur will not be reimbursed to the owner of the system by the manufacturer. The original sales receipt must accompany the defective part.

## **GENERAL WARRANTY CONDITIONS RELATING TO THE INSTALLATION**

Any deviation from the installation instructions from Husky will immediately void any warranty provided by Husky. The installation of the power unit must be done according to the best standards and respecting regulations and other building codes. Husky will not be in any way responsible for any damage resulting from a faulty or improper installation under this warranty. The installer must follow all regulations and laws as well as the installation instructions from Husky in order to maintain this warranty.

## **ADDITIONAL WARRANTY**

Husky is not responsible for any additional warranty sold or otherwise provided to the buyer by an authorized distributor or retailer.