INSTALLATION and OPERATING MANUAL

TYPE: 120 VOLT

IVD660-F IN-WALL INSTALLATION
IVD660-H SURFACE MOUNTED

IF YOU SHOULD HAVE ANY QUESTIONS OR EXPERIENCE A PROBLEM WITH YOUR INTERVAC PRODUCT, DO NOT RETURN THIS PRODUCT TO THE STORE OR DEALER
PLEASE CALL US DIRECT 1-888-499-1925

WARNING: Owner read carefully. This manual must be read and understood before installation, adjustment, service or maintenance is performed. This unit should be installed by a qualified technician. Modification of this product can be extremely hazardous and could result in personal injury or property damage. Instructions must stay with unit.

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IMPORTANT SAFETY INSTRUCTIONS

Polarization Instructions for models with 120volt cord only.

These appliances have a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

When using an electrical vacuum cleaner, basic precautions should always be followed including the following:
Read all instructions carefully before using this vacuum cleaner.

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

1. Unplug from electrical outlet when not in use and before servicing.
2. Do not use on wet surfaces.
3. Never operate this vacuum cleaner without a dust bag and filters in place.
4. Close attention is necessary when used by or near children. Do not allow unit to be used as a toy.
5. Use only for intended use as described in this manual. Use only the manufacturer's recommended attachments and dust bag.
6. Do not use with damaged cord or plug. If appliance is not working as it should, has been dropped, damaged, left outdoors, or fell into water, return the vacuum cleaner to InterVac or an authorized service dealer for examination and repair.
7. Do not put any object into openings. Do not use with any openings blocked; keep free of dust, lint, hair and any other material that may reduce air flow. If the secondary filter becomes dirty, rinse in warm water or replace with a new filter. Filter should be completely dry before using.
8. Never drop or insert any object into any opening.
9. Turn off all controls before unplugging.
10. Do not pull or carry by cord, do not use cord as a handle, do not close a door on the cord, or pull cord around sharp edges or corners. Do not run over cord. Keep cord away from heated surfaces.
11. Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
12. Keep hair, loose clothing, fingers, and all parts of body away from any openings and all moving parts.
13. Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes.
14. Use extra caution when cleaning on stairs.
15. Do not handle plug or appliance with wet hands.
16. Do not pick up flammable or combustible liquids such as gasoline, or use in areas where they may be present.
17. Do not place objects against the vacuum cleaner. Keep area clear.
18. Do not step on the hose or pull the hose forcibly.
19. Do not pick up large objects such as waste paper or cloth, which may clog the hose.
20. Do not install this vacuum cleaner in an area exposed to high temperatures.
21. Install this vacuum cleaner in a dry place.
22. Do not attempt to service the vacuum cleaner. Unit is sealed and cannot be opened without damage to the unit. For service, call your local authorized service dealer, or InterVac Design's Customer Care Center.

SAVE THESE INSTRUCTIONS

FOR HOUSEHOLD USE

LIMITED WARRANTY

InterVac Design Corp. will repair the power unit with new or rebuilt parts, free of charge for three (3) years in North America from the date of original purchase in the event of a defect in materials or workmanship. Warranty might vary from country to country. No cash refunds. Excluded are the following items that require normal replacement:
Disposable dust bags, filters, vacuum cleaner tools and vacuum hoses.
This warranty is extended only to the original purchaser. A purchase receipt or other proof of date of original purchase will be required before warranty performance is rendered.

You must return your warranty card or register on our website in order to be covered under these provisions.

This warranty only covers failures due to defects in materials or workmanship which occurs during normal use and does not cover damage which occurs in shipment or failures which are caused by products not supplied by InterVac Design, or failures which result from accident, misuse, abuse, neglect, mishandling, misapplication, alteration, modification, or commercial use such as hotel, office, restaurant or rental use of the product, or service by anyone other than an authorized service center, or damage that is attributable to acts of God.

There are no expressed warranties except as listed above.

LIMITS AND EXCLUSIONS:

INTERVAC DESIGN SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESSED AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. This warranty gives you specific legal rights that vary from state to state. If a problem with this product develops during or after the warranty period, you may contact your dealer or our service center. If the problem is not handled to your satisfaction, then write to the Customer Service Center at the company address.
**Model 660-H** 
*new construction installation*

**Surface mounted installation with Power Cord attached.**

To remove side panels, **loosen** the 4 screws inside the vacuum chamber

1) Remove the door from the vacuum, by pulling from the top on the curved bracket.
   inside you will find:
   1 black flanged fitting with 4 screws
   1 white reducer
   1 pipe coupling
   1 pipe slider with 2 o-rings inside

2) Take the black flanged fitting and insert the o-ring side of the fitting first, into the hole inside the top of vacuum chamber and secure with the 4 screws supplied. See pic. below.
   Generously apply a lubricant, like Vaseline, to the o-ring on the black fitting.

3) Find the reducer and the pipe coupling and glue together.
4) Position and install mounting bracket for the vacuum at a comfortable height on the wall.
5) Hang the vacuum over the mounting bracket. Watch that the yellow, low voltage wire, are in their groove.
   The 120 volt power receptacle should be within 4 feet.
6) Take the glued reducer/coupling and place over the o-ring fitting on top of the vacuum.
   Now bring the new connecting pipe from the ceiling or the wall straight in line with the reducer/coupling.
   You need ½” space between the pipe and the coupling. Deburr the end of the pipe after cutting.
   Align as perfect as possible.
7) Now generously lubricate the 2 o-rings in the slider with Vaseline. Push the slider onto the pipe coming from the ceiling. The o-ring closest to one end of the slider should point down.
   Align the pipe with the coupling and push slider onto the coupling.
8) Attach the cord to the receptacle.

**Lift the valve cover on the door, to test the vacuum with the switch on the lower right side.**

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**Attach black flanged fitting**

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**CAUTION:** To avoid possible electrical shock, be sure that electricity is turned off at the main switch or circuit breaker. All hard-wiring must be in accordance with the US National Electric Code or Canadian Electric Codes.

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**Specification:** 120 Volt, 12.5 Amp 50/60Hz,  Weight 8 lb

**Parts List:**

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<th>MODEL IVD660-H</th>
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<td>Mounting frame for 2x4 wood studs, 16” on center</td>
<td>Steel vacuum hanger + screws</td>
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<td>6 screws for installing frame</td>
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Included with both models: 1 reducer fitting for connecting to in-wall piping system
2 high filtration dust bags Y20

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Please Note:
Flexible hose connection also available, instead of Slider connection.
Model 660-H vacuum replacement installation

Surface mounted installation with Power Cord attached
To remove side panels, loosen the 4 screws inside the vacuum chamber

1) Remove the door from the vacuum, by pulling from the top on the curved bracket. Inside you will find:
   - 1 black flanged fitting with 4 screws
   - 1 white reducer
   - 1 pipe coupling
   - 1 pipe connect slider with 2 o-rings inside

2) Take the black flanged fitting and insert the o-ring side of the fitting first, into the hole inside the top of vacuum chamber and secure with the 4 screws supplied. See pic. below. Generously apply a lubricant, like Vaseline, to the o-ring on the black fitting.

3) Find the reducer and the pipe coupling and glue together.

4) Locate pipe coming out of the ceiling or the wall, and the receptacle in the wall from the old vacuum.

5) Position the vacuum at a comfortable height on the wall as close as possible in line with the pipe from the ceiling. If necessary use 2 x 45 degree elbows to align ceiling pipe. You also might have to extend the pipe.

6) Take the glued reducer/coupling and place over the o-ring fitting on top of the vacuum.

7) Now push the slider onto the pipe from the ceiling. The o-ring closest to one end should point down.

8) Slide the vacuum up the wall until there is about 1/2” space between the ceiling pipe and the reducer/coupling fitting. With a pencil mark the top of the vacuum. “

9) Install the mounting bracket to the wall, in center line with the pipe from the ceiling and measure 2-1/16” from pencil mark downwards. See drawing next page.

10) See to it, that the 2 yellow low voltage wires, in the back of the vacuum are nicely tucked into the groove. Hang the vacuum on the mounting bracket, and check if the electric cord reaches the receptacle.

11) Now push the slider down onto the reducer/coupling. Connect the yellow wires to the wires from the installed pipe system. Install the electrical plug into the receptacle.

Lift the valve cover on the door, to test the vacuum with the switch on the lower right side.

Attaching black flanged fitting

Please Note:
Flexible hose connection also available, instead of Slider connection.
B) model 660-H
Marking the top hole for the vacuum hanger.
Side panels are attached. Remove side panels by loosening the 4 screws inside the vacuum chamber.
BACK VIEW OF IVD660-H VACUUM

WITH TOP PLATE AND SIDE PANELS ATTACHED

WITHOUT TOP PLATE AND SIDE COVERS

SIDE PANEL WITH RUBBER PADS

UPPER MOUNTING HOLE

MOUNTING BRACKET

TRACK FOR LOW VOLTAGE WIRE

interVac Design Corp.
Palm City, Fl. 3-1-2017
Model 660-F  new construction installation

In-wall installation with Power Cord attached

2 studs have to be on 16” centers.

120 volt 15 amp power receptacle should be in reach of vacuums electrical cord.

NOTE: if the studs are on 24 centers, ask the carpenter to install another stud.

**First step:** 2x4 stud wall, without dry-wall installed.

1) Use the large mounting frame and slide it between the 2 studs. Adjust the height position so that the customer can access the vacuum comfortable.
2) Use the supplied 8 fasteners to attach the frame in place.
3) Place the white pipe reducer (supplied) on top of the frame into the center cavity.
4) Now connect and glue your in-wall pipes to the reducer. The reducer has to stand on the bottom of the cavity.
5) Stretch your low voltage wires to about the center of the frame. Curl them up or tape them to a stud, so that the dry-wall installer does not cut the wires with his tool when he removes dry-wall from the center of the frame.

**Second step:** Dry-wall is installed, center of frame is removed

1) Take the front door off the power unit. You see 4 screw heads in the corners with clamp blocks outside the housing, behind the screws.
2) Find the low voltage wires inside the wall. Connect them to the yellow wires in the back of the vacuum, see to it that the yellow wires stay in the groove. Clamp them into the 2 small wire holder on the top back side, to the right. This prevents the wires from falling behind the Vacuum.
3) Slide the vacuum parallel into the frame opening.
4) Tighten the 4 screws, they will clamp around the back side of the frame.
   DO NOT OVER TIGHTEN. Do not use a power tool.
5) Insert the flanged black fitting with the O-ring, apply lubricant, such as Vaseline, around the o-ring, and insert with the o-ring first, into the hole towards the pipe system.
   Please note: you might have to jiggle the fitting a little to center the reducer/pipe in the wall.
6) Attach the fitting with the 4 #8 screws.
7) Install the dust bag. See picture #

Your installation is completed, plug in the electric cord. With the door attached and the utility valve open, test the vacuum with the power switch on the lower right side.
**Model 660-FR** new construction installation

In-wall installation with 14 gage Romex Cable.

**GROUNDING INSTRUCTIONS:**
This appliance must be connected to a grounded metal, permanent wiring system; or an equipment-grounding conductor must be run with the circuit conductors and connected to the equipment-grounding terminal or lead on the appliance.

**WARNING:** Disconnect all electrical power to the wall area before installing!

An electrician must install the Romex Cable:
- Install a UL approved junction box close to the bottom of the vacuum against a stud for the Romex cable coming from the 120 volt 15 amp circuit breaker.
- **NOTE:** the Romex cable coming out of the vacuum will be about 2 feet long, so the cable can reach the junction box.

**First step:** Find a 2x4 stud wall, without the dry-wall installed.

2 studs have to be on 16” centers.

**NOTE:** if the studs are on 24” centers, ask the carpenter to install another stud.

1) Use the large mounting frame, and slide it between the 2 studs. Adjust height position to access the vacuum comfortably.
2) Use the supplied 8 fasteners to attach the frame in place.
3) Place the white pipe reducer (supplied) on top of the frame into the center cavity.
4) Connect your in-wall pipes to the reducer. The reducer has to stand on the bottom of the cavity when glued to the pipe.
5) Stretch pipe systems low voltage wires to about the center of the frame. Curl them up or tape them to a stud so that the dry-wall installer does not cut the wires with his cutting tool when he removes dry-wall from the center of the frame.

**Second step:** Dry-wall is installed, center of frame is removed

1) Remove the front cover of the power unit. There will be 4 screw heads in the corners with clamp blocks outside the housing, behind the screws.
2) Locate the low voltage wires inside the wall. Connect them to the yellow wires in the back of the vacuum, be sure that the yellow wires stay in the groove. Clamp them into the 2 small wire holder on the top back side, to the right. This prevents the wires from falling behind the vacuum.
3) Turn off the power supply at the circuit breaker
4) Install the 14 gage Romex cable coming out of the vacuum into the electrical junction box inside the wall.
5) Carefully slide the vacuum, with the Romex first, into the frame opening, pushing the Romex cable downwards into the junction box. Then parallel to the wall slide the vacuum into the frame.
6) Tighten the 4 screws in the vacuum chamber. They will clamp around the back side of the frame. **DO NOT OVER TIGHTEN. Do not use a power tool.** You can bend the screws, when over tighten.
7) Locate the flanged black fitting with the o-ring, apply lubricant, such as Vaseline, around the o-ring and insert with the o-ring first into the hole towards the pipe system.
8) Attach the fitting with the 4 #8 screws.
9) Install the motor filter and dust bag. See picture #
10) An electrician should connect the Romex wires in the junction box.

Your installation is completed. With the door attached and the utility valve open test the vacuum with the switch on the lower right side. Take the vacuum hose and check all the valve in the house.
HOW TO OPERATE YOUR MODEL: IVD-660

This appliance is equipped with an automatic-reset thermal protector to protect the motor from overheating due to a blockage in the vacuum tools or hose. In the event the thermal protector operates due to the motor overheating, do the following. Turn off the unit and unplug it from the wall (required to reset the thermal protector). Inspect and remove any blockage. Allow the appliance to cool down, then plug the appliance back in and resume using.

PLEASE NOTE: NORMALLY A CENTRAL VACUUM CLEANER IS STARTED WITH THE VACUUM VALVES AROUND THE HOUSE WALLS. WITH THE INTERVAC YOU CAN ALSO UTILIZE THE VALVE IN THE DOOR OF THE POWER UNIT TO CLEAN YOUR GARAGE OR CAR USING THE on/off SWITCH.

A: IMPORTANT:

DO NOT TURN SWITCH ON AT VACUUM, WITHOUT VACUUM HOSE ATTACHED OR VALVE OPEN.

Use On / Off Switch only with vacuum hose attached
1. To start the vacuum cleaner, push the switch to the “I” position.
2. To stop the vacuum cleaner, push the switch to the “O” position.

B: Connecting and disconnecting the hose at the POWER UNIT.
1. Lift the inlet (utility) valve cover on the front of the door.
2. Insert hose cuff with a twist and push to secure.
3. To remove, turn hose in either direction while pulling hose towards you.

C: How to change the dust bag, DO NOT REUSE DUST BAG

Replacement bag: Part # Y20 high filtration 5 layer fiber bag.
1. Take the door off the vacuum cleaner, by pulling the arched handle on top of the door towards you.
2. Pull the front collar holder out and down. Pull the top collar down from the pipe and remove dust bag from the collar holder.
3. Discard full bag
4. Now slide the green front collar of a new bag into the holder all the way into the groove. See Pic:1.
5. With both hands behind the bag find the top collar. In an angle slide the collar onto the small ledge in the back behind the pipe. See arrow in picture 2. Lift the front of the collar up, push the collar up as high up as possible.

Note: you can also reverse the installation of the dust bag, by attaching the top collar first on to the pipe and then insert the front collar with holder.
6. The last thing to do, please push the front collar up so it is in the center of the holder. Pic 4
D: Closing the Door

1. Take the door and open up the cover for the valve opening.
2. Lift the door parallel with the front of the vacuum. Align the hole in the door with
   the hole in the bag collar.
   You have to look through the valve hole and push door in position.
3. Before closing door, tuck in the sides of the bag, so the door can properly seal.

E: To change motor filter when dirty, Replacement Part # Y25

1. Remove door and dust bag.
2. Reach into the bottom of the vacuum chamber and pull the motor filter out.

Please, notice there is \( \frac{1}{2} \)" radius cut out on the back side of the filter towards
the right.
The new filter has to be inserted with the \( \frac{1}{2} \)" cutout into the same area,
see to it that the filter is all the way pushed under the vertical ribs!

CAUTION: DO NOT PICK UP LIQUIDS, LIT CIGARETTES, HOT ASHES, RAZOR BLADES, NEEDLES, PINS OR OTHER SHARP OBJECTS!
ACCESSORIES

Complete Tool Kit
(Includes all item on the right)
PART # TK-112

Mesh Storage Bag, with Stretch Hose only
PART # X501

30’ Central Vacuum Hose
PART# AS-210

Dust Brush
PART # X250

Floor/Rug Tool
PART # X403

2 Part Upholstery Tool
PART # X300

Crevice Tool
PART # X200

3 Central Vacuum Hose
PART# AS-210

Telescoping Wand, PART # X154

REPLACEMENT DUST BAGS:
PART # Y20-3 (3 pack) HEPA Type 5 layer fiber filtration bags with 3 exhaust filter and 1 motor filter.

NOTE: All Power Units come with 2 Dust Bags

OPTIONAL VACUUM TOOLS

40 Foot Stretch Hose
for quick clean up
PART # AS11

Elongated Dust Brush
PART # X251

Air Turbo Nozzle
PART # X451

Dust Sweeper Inlet Valve
"VacPort.com" for RM Models
Model A910 w/o LED light
Model A900 with LED light

INTERVAC reserves the right to make improvements and modifications without notice.