Cleveland Equipment

CE-ACVAC

Vacuum Loader

Instruction Manual

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Table of Contents

1. Machine Description

1.1 Working Environment

- Temperature
  - 45°F~95°F
  - Humidity:35%-60% (No dewing)

- Power
  - 115/240 VAC 60/50HZ
  - Max Current ~ 7A @ 240
  - Max Current ~ 14A @ 120

- Air
  - Dry, Clean Air Drop, ½" Hose Type A Quick Disconnect Coupler
  - PSI for ActionVac is 90PSI

- Installation
  - The whole scale system must rest on a rigid, leveled surface (such as concrete).

- Earth (Grounding)
  - Make sure any conductive surfaces on or around any part of the machine, are grounded to the earth. If a surface is not grounded to the earth, then there will be a high chance for static build up, which can cause many sporadic electrical issues.

- Leave enough space (3 feet or greater) around the machine for maintenance.

1.2 Safety

- Turn off the power before cleaning, moving, or repairing the machine.
- To avoid bodily injury, do not touch motor while the machine is running.
- Do not bump or put pressure on any of the components
- Always follow standard safety procedures while working on mechanical and/or electrical equipment. Practice using the proper “Lock out tag out” when necessary.
- There is potential for electrical shock.
- There is potential for physical injury from motion including but not limited to crush and pinch hazards.
- There is potential for physical injury from compressed air.

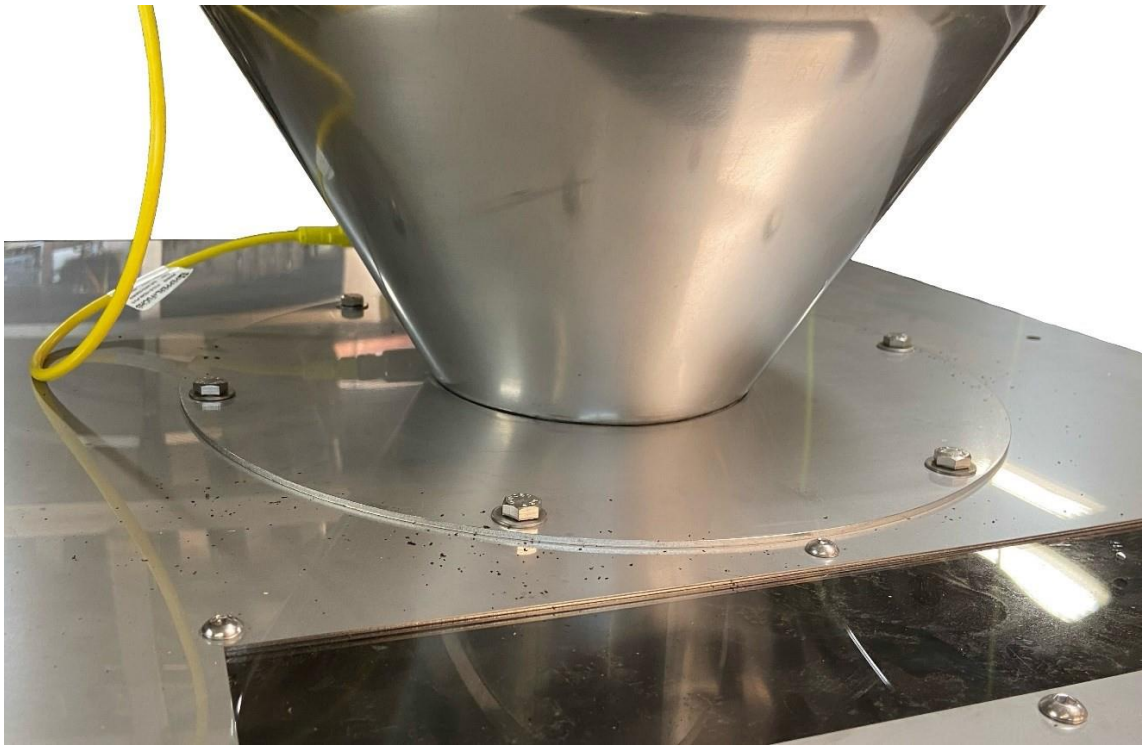
2. Using This Manual

This user manual is intended as a resource and guide. You may find that certain illustrations, diagrams and/or descriptions vary from the machine you received.

We want you to be happy with your purchase and be successful with production. We encourage you to contact our Technical Support Team with any questions or concerns you have throughout the process.

3. Installation / Assembly

The loader will come with the lid attached to the body of the loader. First connect the loader to the scale hopper lid with the 6 supplied 5/16-18 hex head bolts, washers and nuts.



Please check that the 3 spring latches connecting the lid assembly to the body are secure.

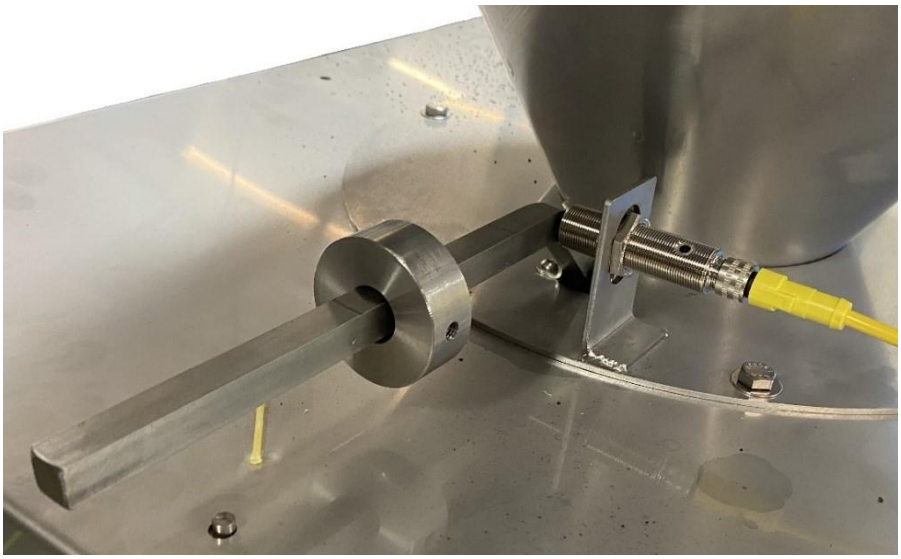
Next you will mount the SS reducer to the loader body with the SS quick clamp. Please note that a rubber gasket needs to go between the flange on the hopper body and the reducer. Then turn the t-knob until tight.

Next, connect one end of the anti-static hose to the open end of the reducer. The black end of the hose should slide over the reducer about 2” allowing you to secure the hose clamp as shown.

Next, take the product pickup lance and attach the other end of the hose to it. It should also slide on about 2” and then be secured with the provided hose clamp.

NOTE: It is vital that the black ends of those are properly connected as these antistatic pieces are what dissipate the static electricity caused by running the system. If these ends are not connected properly static could potentially harm the system.

Check that the hopper full sensor is properly connected to the yellow cable. The sensor should be about 1/8”- 1/4” from the door bar. Make sure that the door bar counterweight is secured and keeping the door shut. If it’s not, try loosening the set screw and adjusting the counterweight so the door is properly balanced.



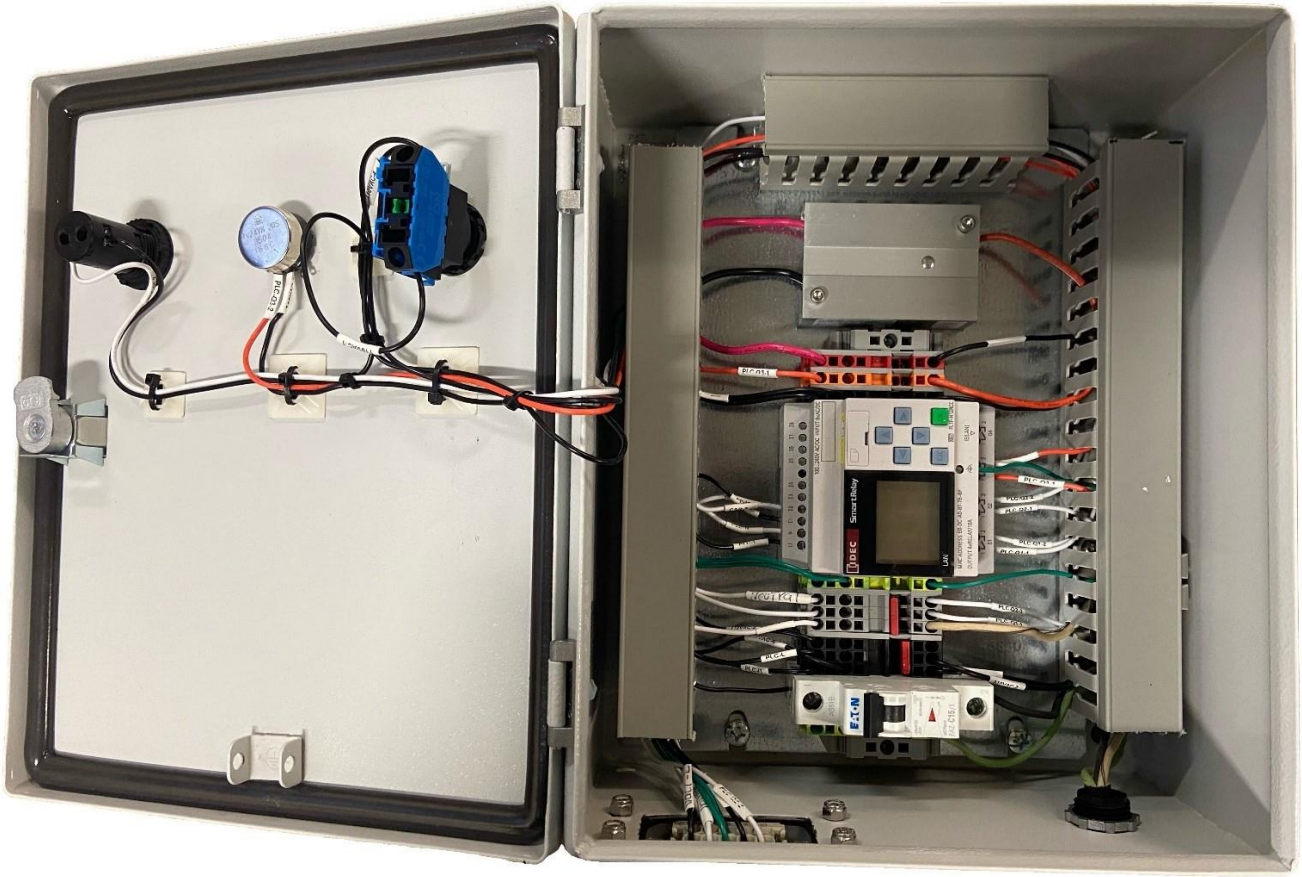
Next, connect the electrical connection from the control box to the top of the unit. This connection is keyed and will only go on one way. Use the slip nut to tighten the connector until hand tight.

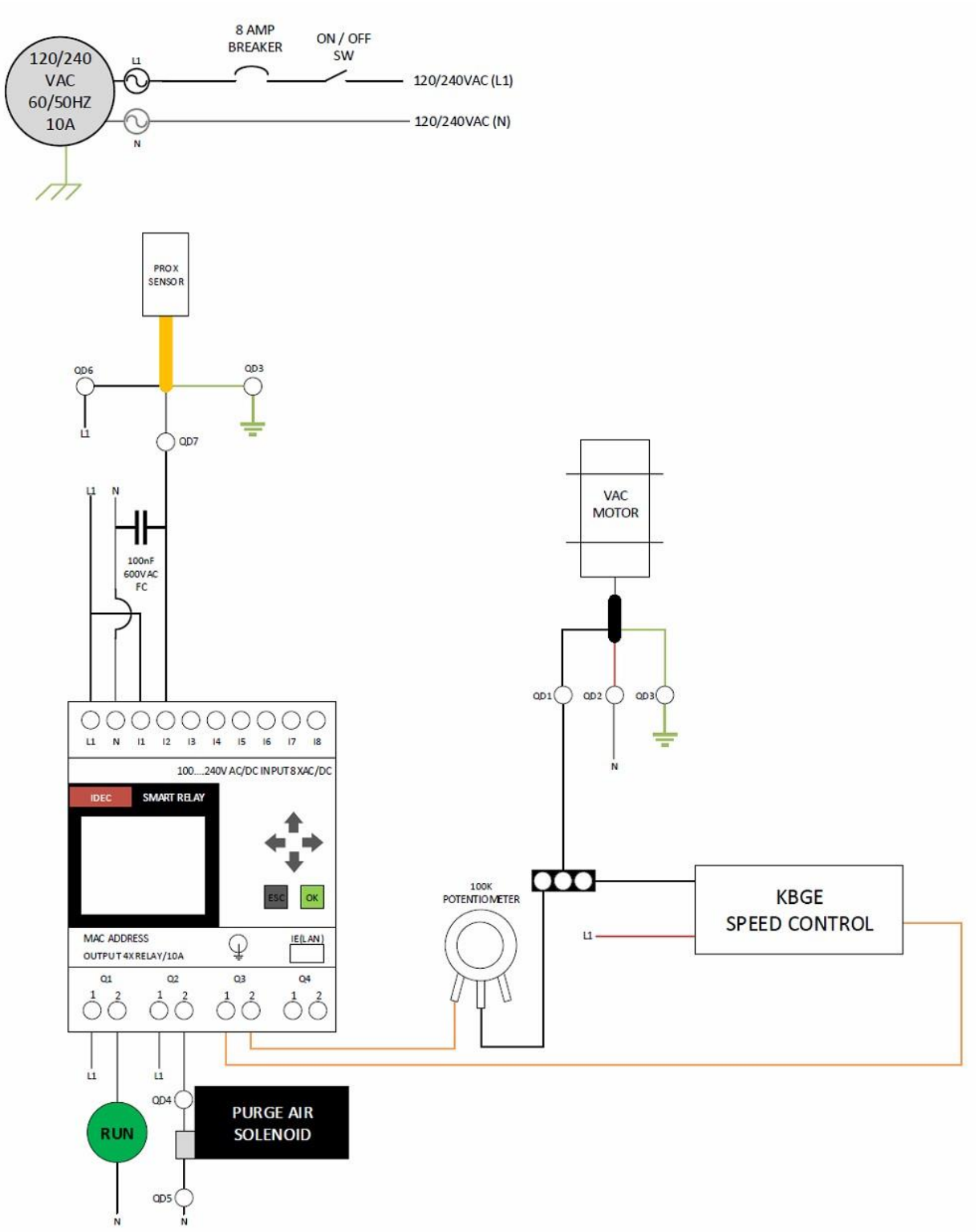
Connect the ¼” airline to the air input next to the air canister.

Plug power into a dedicated 110-120VAC outlet - DO NOT plug this device into the same power circuit as the ME109 coffee filler as it may create static issues that can harm the device.

4. Control Box & Wiring Diagram

The controller can operate at 120VAC, 8A, 60HZ or 240VAC, 4A, 50Hz




120/240
VAC
60/50HZ
10A
L1
N
8 AMP
BREAKER
ON / OFF
SW
120/240VAC (L1)
120/240VAC (N)
PROX
SENSOR
QD6
QD3
L1
QD7
L1
N
100nF
600V AC
FC
VAC
MOTOR
QD1
QD2
QD3
N
L1 N I1 I2 I3 I4 I5 I6 I7 I8
100....240V AC/DC INPUT 8 XAC/DC
IDEC
SMART RELAY
ESC
OK
MAC ADDRESS
OUTPUT 4X RELAY/10A
IE(LAN)
Q1 Q2 Q3 Q4
100K
POTENTIOMETER
KBGE
SPEED CONTROL
L1
L1
L1
QD4
RUN
PURGE AIR
SOLENOID
QD5
N
N

5. Machine Cleaning

CAUTION DO NOT use excessively high air or water pressure. DO NOT use stiff-bristle brushes or similar devices. DO NOT otherwise scratch specially treated filter surfaces. DO NOT use oils, solvents, harsh detergents or other abrasive cleaning agents & solvents. DO NOT apply direct (perpendicular to the pleated surface) air or water pressure on the dust side of the filter.

Dry Method

1. While holding the SS filter from the edge ring with side 2 facing up, gently tap to remove the bulk of the particles.

2. Vacuum side 1 being careful not to push any particles into the filter.

3. Vacuum side 2 being careful not to push any particles into the filter.

4. Repeat steps 2&3 until all visible particles are removed.

Wet Method

1. Place filter in a solution of mild dish soap. About 4 oz of soap per 1 gallon of water. Allow to soak for about 10 min.

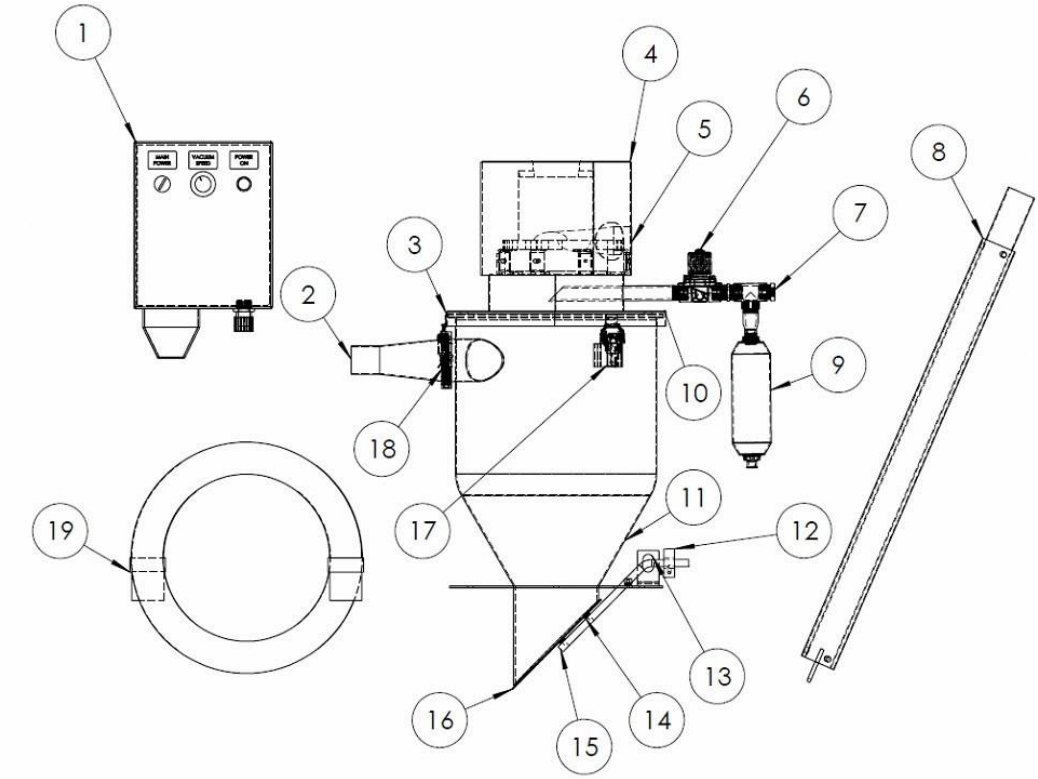
2. Gently scrub filter starting with side 1 and then moving to side to. Do not scrub excessively as you may damage the filter.

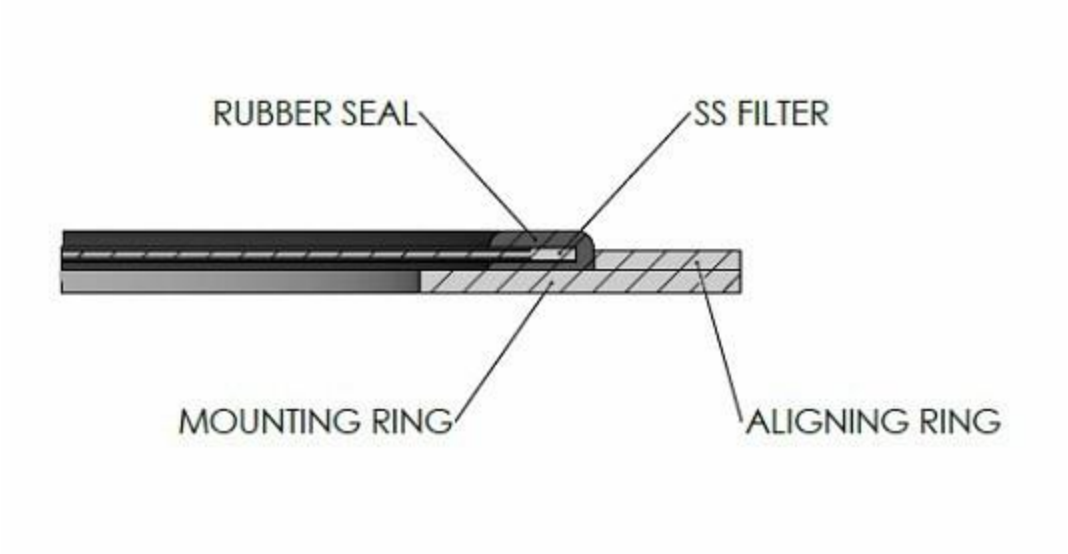
3. Remove from solution and rinse starting with side 2. Hold directly under low pressure rinse alternating sides until all soap and particles have been washed away.

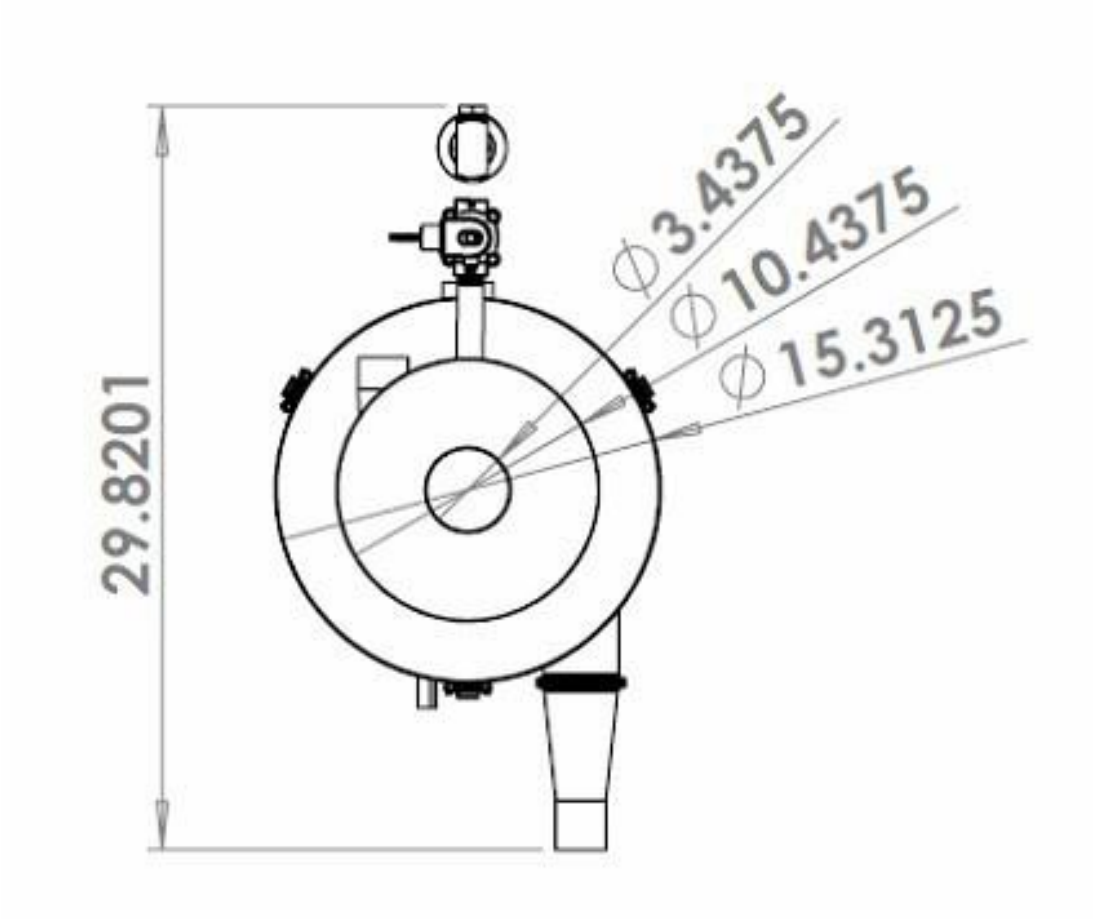
4. Allow filter to dry completely before reinstalling. Under normal conditions it may take up to 24 hours to fully dry. You may use low air pressure to blow of the bulk of the water and this will speed up the process. You must ensure that the filter is completely dry before installing. Do not use excessive heat as it may damage the filter.

6. Bill Of Materials / Dimensions

ITEM NUMBER	DESCRIPTION	ITEM NUMBER	DESCRIPTION
1	Control Box	11	Hopper/Body
2	Inlet Flange	12	Counter Weight
3	Hopper Lid	13	High/Low Sensor
4	Vacuum lid	14	Door Grommet
5	Vacuum Motor	15	Door Bar
6	Purge Solenoid	16	Discharge Door
7	Air Inlet	17	Spring Latch
8	Product Pickup	18	QD Hose Fitting
9	Air Canister	19	Anti-Static Hose
10	Filter Assembly		




RUBBER SEAL
SS FILTER
MOUNTING RING
ALIGNING RING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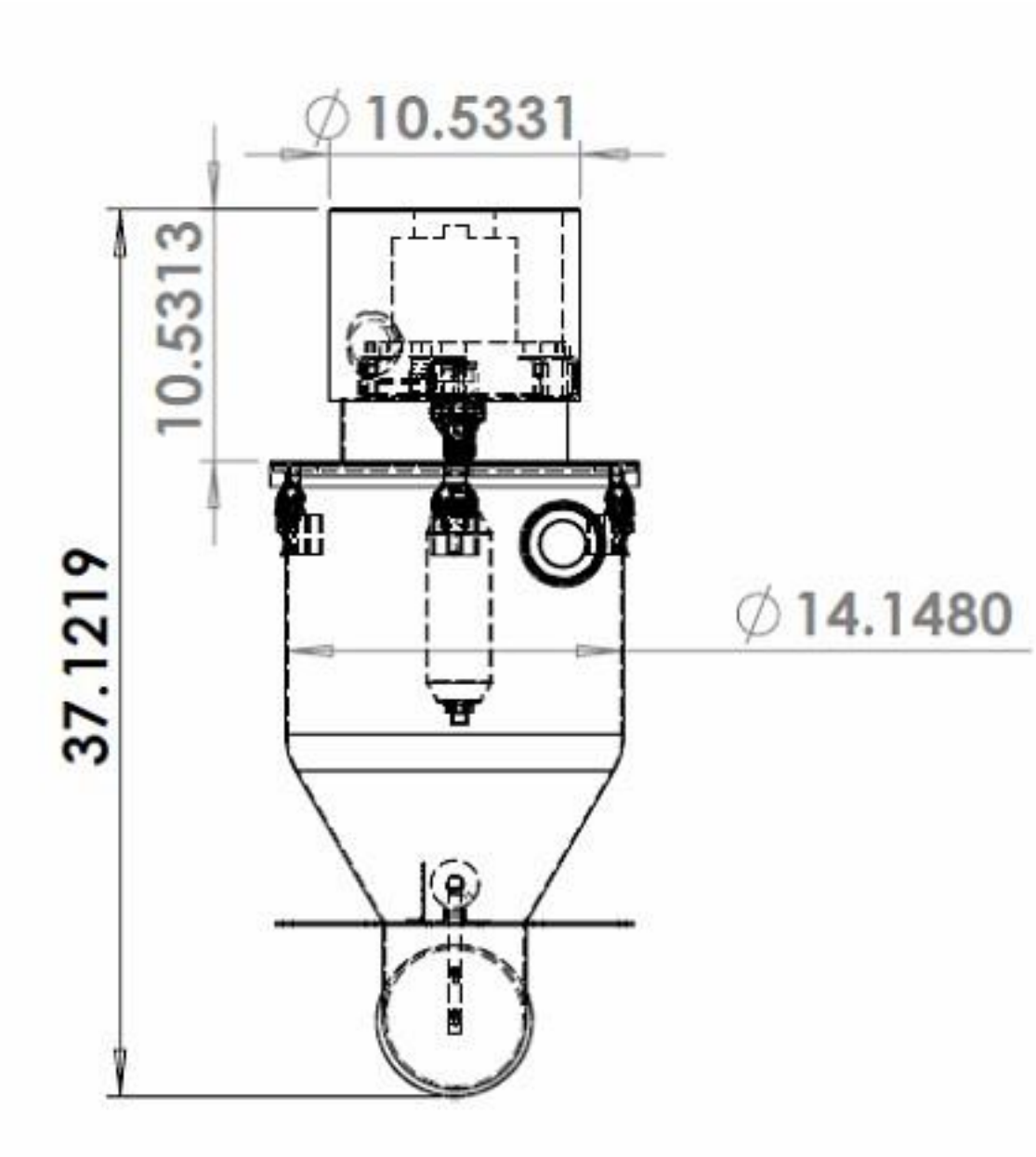
Ø15.3125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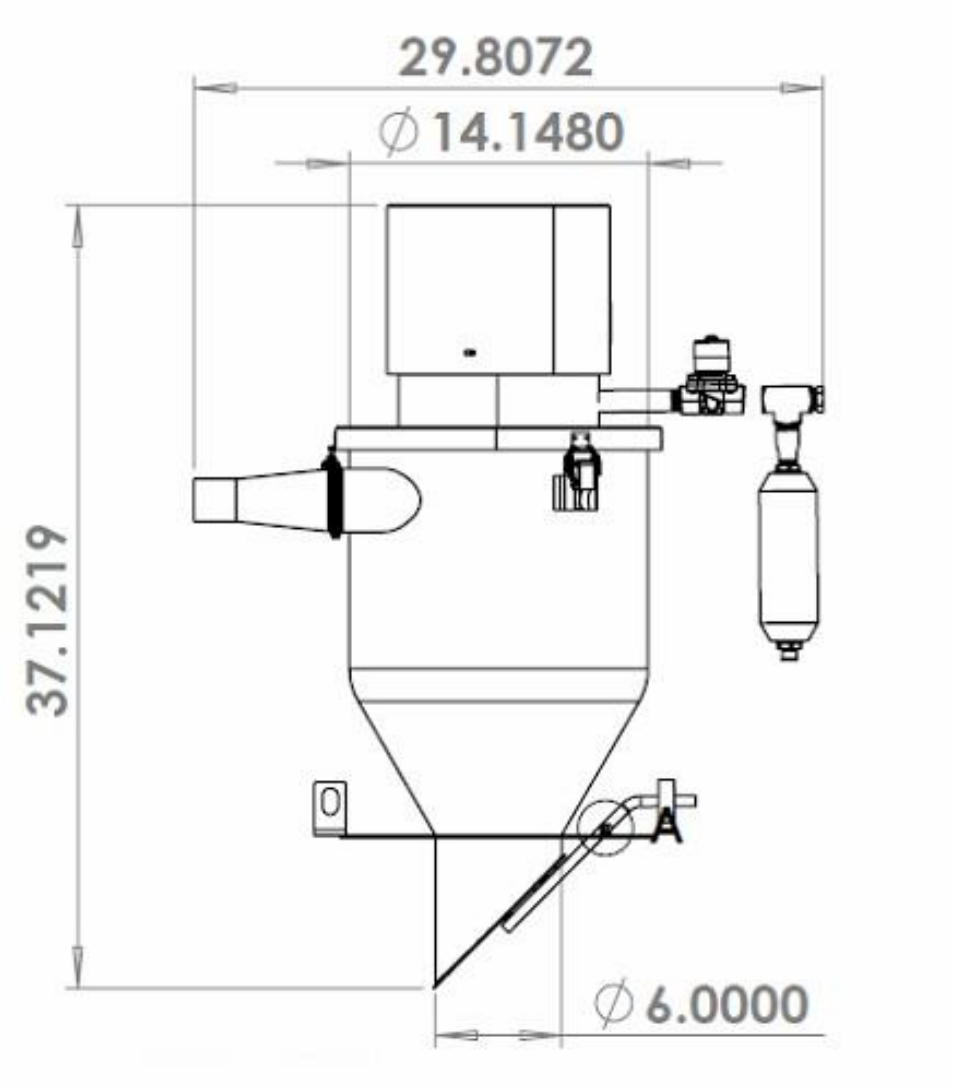
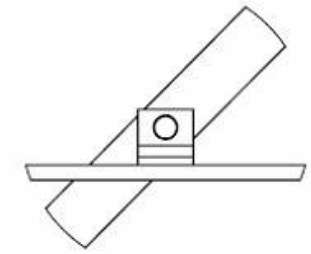
∅ 14.1480





DETAIL A
SCALE 1 : 2

7. Troubleshooting

MACHINE WON'T START

1. Check to make sure machine is plugged into proper voltage
2. Check plug, make sure all 3 wires (L, N, GND) are all secure and in their proper location.
3. Make sure breaker inside control box is flipped on and the switch status is in the red position
4. Make sure the door is closed properly (adjust weight if needed)
5. Make sure sensor can detect the door arm. The light should be on when detected, off when not detected.
6. Adjust potentiometer higher – it's possible the speed is simply set to zero.

LANCE WON'T PICK UP PRODUCT

1. Adjust potentiometer higher
2. Re-adjust the lance so that it's buried in the product
3. Try expanding / retracting the wand – double check there are no clogs
4. Check Vacuum strength. If low, you may need to take lid off of unit (power down first) and double check the seal and integrity of all assembled components