Models- 9730 Vacuum & Water Machine



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PRODUCT INFORMATION

Please take a moment to fill out the information below in order to aid us with any future sales or service inquiries. Model number and serial number information can be found on the serial tag located inside the control box and/or on the lower exterior of the can. Key number can be found on the tag that comes attached to the keys. There may be more than one key number depending on unit.

Please keep this information with your records.

MODEL#:_____

SERIAL#:_____

KEY NUMBER(S):_____

DATE PURCHASED:_____

DISTRIBUTOR:_____

J.E. Adams Industries
1025 63rd Ave. S.W.
Cedar Rapids, IA 52404
1-800-553-8861
www.jeadams.com

Specifications

Unit specifications: 9730
Voltage: 120VAC, 60Hz
Amperage: (1) 20 amp service (vac motors) and (1) 10 amp service (water side) are required for this unit.
Weight: 180 lbs with pallet.

Vacuum side:
Motors: (2) 120VAC vacuum motor
Fuses: (2) 10 amp inline fuses

Water side:
Solenoid 120V, 60hz, .05amps
NOTES: Solenoid to be used with city water pressure only!
Not intended for human consumption!!

NOTE:
Two separate electrical services are required for this unit.
This combo machine has two functions each having it's own coin mechanism that starts the function.

NOTE: “UNIT INTENDED FOR COMMERCIAL USE ONLY”

IMPORTANT SAFETY INSTRUCTIONS

When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING (THIS APPLIANCE)

WARNING – To reduce the risk of fire, electric shock, or injury:

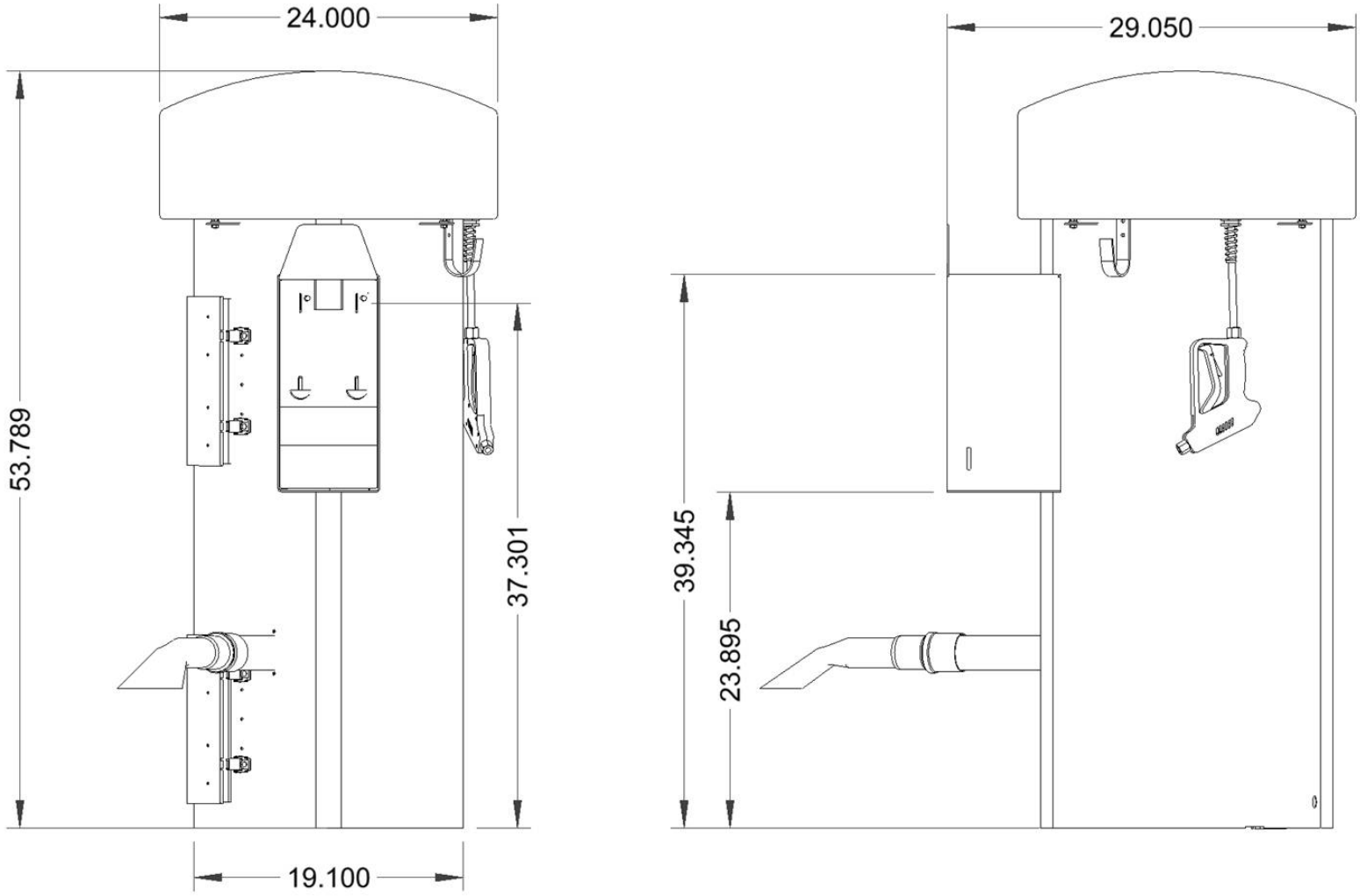


- Do not use on wet surfaces.
- Use only as described in manual. Use only manufactures recommended attachments.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.
- Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.
- Do not use to pick up flammable or combustible liquids, such as gasoline, or use in areas where they may be present.
- "Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes."
- "Do not use without dust bag and/or filters in place."

SAVE THESE INSTRUCTIONS

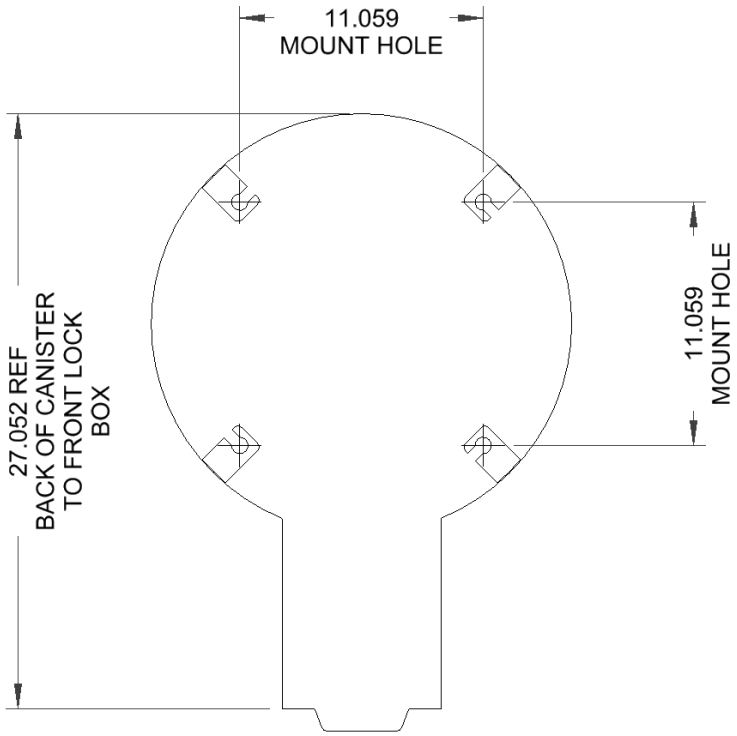
- **Installation Instructions:**
- Determine location to mount unit (**"DANGER" "THIS EQUIPMENT INCORPORATES PARTS SUCH AS SWITCHES, MOTORS, OR THE LIKE THAT TEND TO PRODUCE ARCS OR SPARKS THAT CAN CAUSE AN EXPLOSION. WHEN LOCATED IN GASOLINE-DISPENSING AND SERVICE STATIONS INSTALL AND USE AT LEAST 20 FEET (6 M) HORIZONTALLY FROM THE EXTERIOR ENCLOSURE OF ANY DISPENSING PUMP AND AT LEAST 18 INCHES (450 MM) ABOVE A DRIVEWAY OR GROUND LEVEL."**
- Run service to that location
- **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.
- All local and national electric codes must be followed for installation and use.
- Licensed electricians are recommended for installation.

Product Dimensions

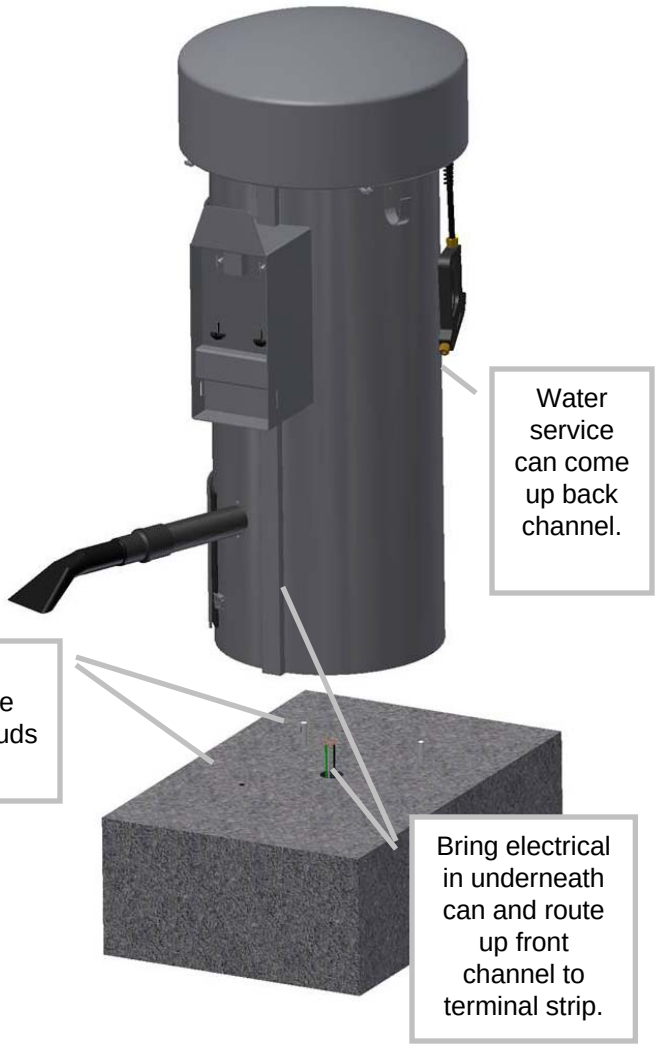


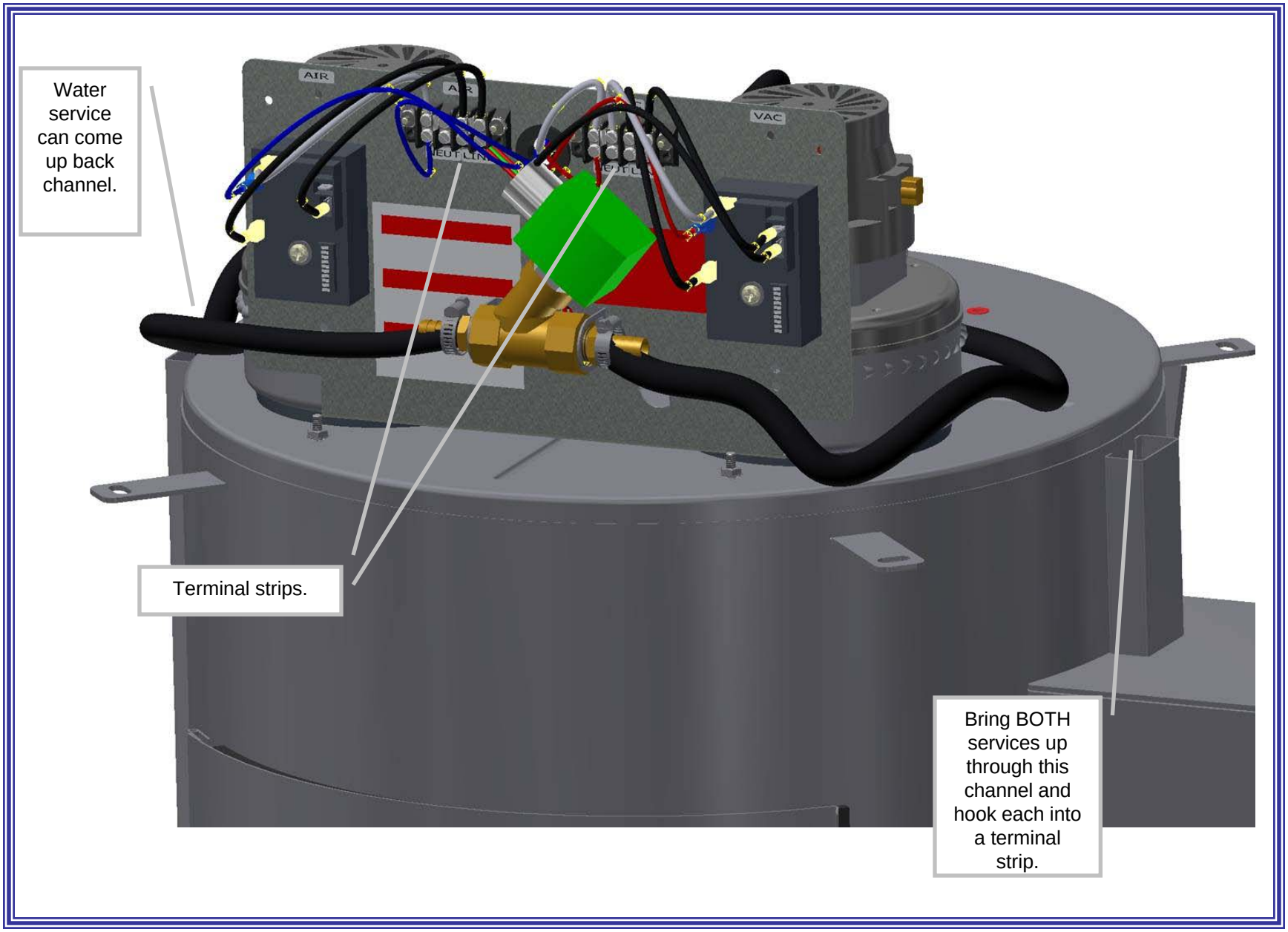
Installation:

PLAN VIEW



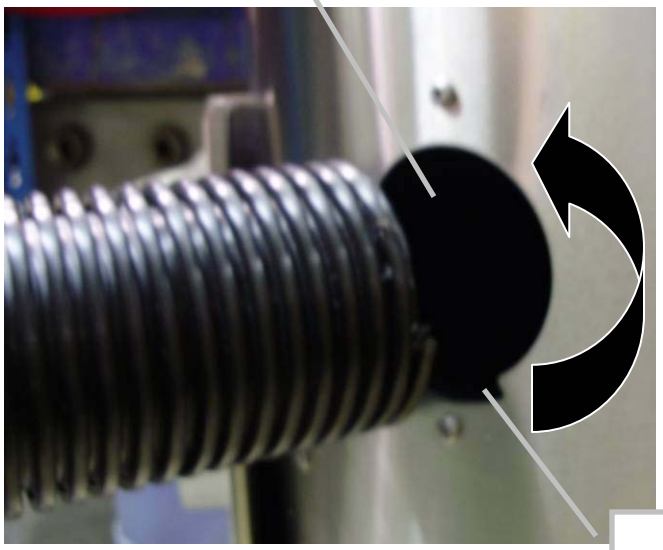
NOTE: when mounting, provide clearance so cleanout doors can open!!



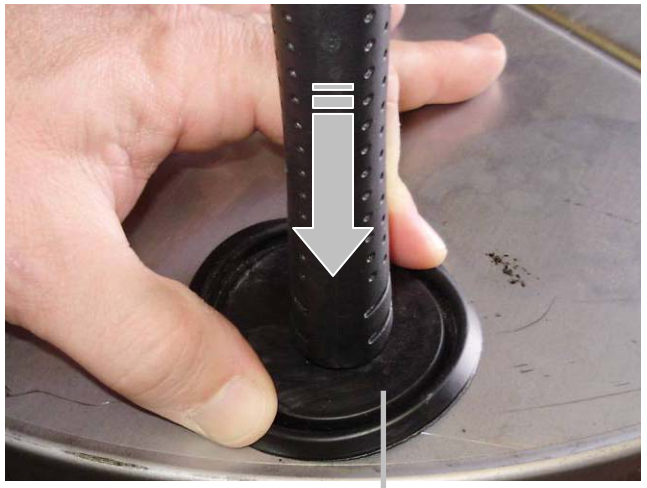

Water service can come up back channel.
Terminal strips.
Bring BOTH services up through this channel and hook each into a terminal strip.
AIR
VAC

To attach hose, thread into metal hole counter clockwise.

Once unit has been installed use 5871B8 cap plugs (supplied with unit) to seal holes in canister bottom located in lower cleanout door. Extra cap plugs are included with the unit in case plug becomes damaged during shipping removal.



Edge of hose will need to start here.



To insert 5871B8 cap plugs into bottom holes, pinch cap plug into place using index finger and thumb. With edges of plug resting against edges of hole, firmly push down on plug with end of hammer or other blunt object until plug snaps into place.

Now the unit can be turned on and programmed.

Programming Instructions:

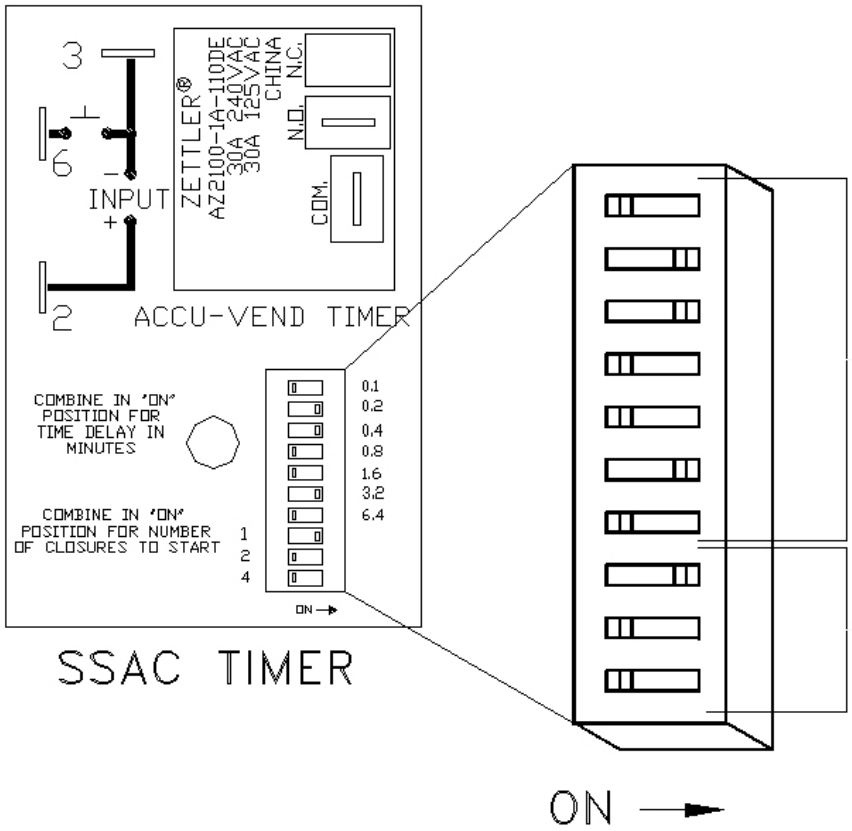
Coin acceptor:

No programming to acceptor needed if unit was purchased with the standard Imonex Z3 acceptor (8149 JEA part number) as it is built accept US quarters.

If different acceptor was purchased, see additional literature sent along with unit for programming info.

Programming:

The below timer pictured is the standard SSAC model that allows the end user to select the "coins to start" and the "time per coin" by settings series of dip switches. The number of "coins to start" dip switch is how many quarters are needed to make the machine come on. In the below example, the "one coin" dip is selected which makes the unit come on with one coin. The "time per coins" will then need to be set, but a good rule of thumb would be 4 minutes which requires dip switches 3.2 and .8 to be set to on. This scenario means 1 quarter will provide 4 minutes of vacuum time. The time per coin setting can be modified as desired by simply adding or subtracting time. If the operator would later decide to increase the cost of the unit to "2" quarters, the 2 dip switch would need to be in the on position (all other off) and the time dip switches would need to have the 1.6 and 0.4 dips selected. This would allow 2 minutes of time for each quarter for a total of 4 minutes for two quarters.



Time in minutes/per coin dip switch settings:

0.1 = 6 seconds
0.2 = 12 seconds
0.4 = 24 seconds
0.8 = 48 seconds
1.6 = 96 seconds
3.2 = 192 seconds
6.4 = 384 seconds

TIME PER COIN (MINUTES)

COINS TO START

Operating Instructions:

- Choose function desired and insert payment into that coin mechanism to start function.
- Once service is used, hang up hose.

Maintenance:

- **All servicing of machine should be conducted by an authorized service representative!**
- Filter bags should be accessed and shaken down weekly. It is recommended to keep a new set of bags on hand so that once every few months the bags can be replaced and then laundered.
- To maintain performance, empty dirt bin from the canister on a regular basis.
- Periodically inspect wires and connections for wear or fatigue.
- Check door and motor gaskets periodically for signs of wear or damage and replace as needed.
- Check vac hose for cracks on a weekly basis.
- Check water hoses for cracks and fatigue on a weekly basis.
- During cold months, water must be shut off to unit and water line must be purged to prevent line breakage.
- Clean canister with a stainless steel cleaner as needed. Decals can be cleaned with mild soap and water.
- Check motor brushes every month for excessive wear. Motor brushes should be changed immediately if they are shorter than ¼". ***Please disconnect power before doing this!***



DISCONNECT POWER BEFORE SERVICING OR TROUBLESHOOTING!



Troubleshooting:

Problem	Possible cause	Solution
Unit is not powered.	Breaker inside fuse panel is not in the on position.	Turn breaker on.
	No power to machine.	Check incoming power line voltage.
	Loose connection.	Check incoming power connection.
Machine is behaving erratically.	Is the incoming power at 120V?	Check voltage and monitor while machine runs. Low voltage can cause erratic behavior.
	Are any of the machines wires worn through or connections not making contact?	Inspect wiring and connections. Look for sharp bends in wires and places where wire is against the metal chassis.

Unit keeps tripping breaker.	Inadequate wire size ran to machine.	Call electrician and install proper wire size for electrical service versus length or run.
	Wrong size breaker.	Install correct breaker (only if wire size is adequate to handle breaker).
Fuses for vac motors keep blowing.	Inadequate wire size ran to machine.	Call electrician and install proper wire size for electrical service versus length or run.
	Motor brushes may be bad or too short.	Replace motor brushes.
Lack of vacuum suction.	Vac hose clogged?	Clean debris from vac hose.
	Filter bags need cleaned or dirt chamber needs emptied?	Shake or clean filter bags or replace and empty lower dirt chamber.
	Vac hose is split?	Replace/repair vac hose.
	Cleanout door gaskets torn or worn?	Replace gaskets.
	Vac motor gaskets are worn or motor is not tight against.	Inspect/replace gaskets and assure motor is tight against them.
	Lower chamber cap plugs/mounting hole covers have popped out?	Open lower chamber and inspect plugs, order new if needed.
	Cleanout door gaskets torn or worn?	Replace gaskets.
	One of the vac motors is not working?	Check line motor fuse and replace. Replace motor if necessary.
Machine will not start.	Coin mech might not be sending a pulse.	Replace coin mech if no switch closure/ pulse.
	Timer may be bad - confirm voltage coming from timer when active.	Replace timer if no voltage.
Water will not shut off.	Water solenoid is powered all the time. Remove power source to test.	If removing power and water still runs, replace solenoid.
Water will not come on.	Confirm there is voltage to solenoid.	If voltage is present, solenoid is bad - replace.

PART NO. 9730

BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
39	8084	CABLE TIE	10
40	8085	CABLE TIE	4
41	8108	#10 x 1/2 TAP SCREW	2
42	8149	IMONEX COIN ACCEPTOR	2
43	8153-1	LATCH, CLEANOUT DOOR	4
44	8157	NUT, #6-32 KEPP NUT STAINLESS	8
45	8159	DOOR GASKET	2
46	8182	DECAL, DISCONNECT POWER DECAL	3
47	8204RW	WELDMENT, COIN BOX	1
48	8305	24" STAINLESS STEEL DOME	1
49	8426-4	WATER, CANISTER DECAL	1
50	8426-5	DECAL, VAC AND WATER DOME	1
51	8427-1	DECAL, VACUUM	1
52	8546	SS HOSE CLAMP, 5/16-7/8"	2
53	8546	WORM DRIVE HOSE CLAMP	2
54	8549	FLEX STRAIN RELIEF	1
55	8594	GROMMET, RUBBER	1
56	8595	HHCS, 5/16 X 1-1/2 ZP	4
57	8605	PALLET	1
58	8609RW	FACEPLATE W/C, DUAL ACCEPTORS	1
59	8615-5W	CLEANOUT DOOR WELDMENT	2
60	8630	BOX, VACUUM	1
61	8638	PIN LOCK	2
62	8646A	TIMER ASSEMBLY, AIR/VAC	1
63	8648W-2	VAC CANISTER W/C	1
64	8673-11	GROUND WIRE	1
65	8722	SOLENOID, 1/2 NPT, 7/16 ORIFICEW	1
66	8732	NAMEPLATE, PRODUCT SPECIFICATION	1
67	8764	DECAL, DANGER	1
68	9730FPD	FACEPLATE DECAL	1
69	T1520S2M	SPRAY TIP	1

BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
1	2036	HOSE, 2" X 15' BLACK VACUUM	1
2	2058	CLAW/CUFF ASSEMBLY, 2"	1
3	3005	1/2" LOW PRESSURE HOSE	96"
4	3048	HOSE ASSEMBLY, 25FT x 3/8"	1
5	5030NP	TRIGGER GUN ASSEMBLY	1
6	5601D4	1/4-20 x 3/4 HHCS-SS	1
7	5603D11	1/2 Std NC Nylock Nut	1
8	5603D2	1/4 Std NC Nylock Nut	1
9	5604D1	BOLT, CARR #10-24 X 1/2, ST	2
10	5605D3	NUT, HEX #10-32	2
11	5605D4	NUT, HEX 1/2-13	1
12	5606D21	WASHER, FLAT, 3/4 SAE, ID 13/16	1
13	5608D3	SCREW, SLOTED #10-32	2
14	5611D1	NUT, 8-32 UNC KEPP-ZINC PLATE	2
15	5611D2	NUT, 10-24 UNC KEPP- ZINC	2
16	5621D4	WASHER, 1/4 SPLITLOC	4
17	5627D1	SCREW, #6-32 x 1	4
18	5627D2	SCREW, SLOTTED #6-32 X 5/8	2
19	5631D1	SCREW, 1/4-20 x 1/2	4
20	5639D4	RUBBER GROMMET	1
21	5647D2	RIVET, 1/8 SS	16
22	5647D8	RIVET, 3/16" SS	14
23	5662D2	SCREW, #6-32 X 1/2	1
24	5684D2	1/2" DIA. HOSE CLAMP	1
25	5801D1	FITTING, 1/2" HOSE BARB BRASS 1/2 MALE NPT	1
26	5801D2	FITTING, 3/8" HOSE BARB BRASS 1/2 MALE NPT	1
27	5871B9	PLASTIC VAC LID PLUG	4
28	5900D12	TERM, 1/4 PUSH ON	1
29	5902D4	TERMINAL, RING INSULATED	1
30	5905D2	TERMINAL, SANP SPADE	2
31	6082	BAG, 9 X 12	1
32	8036	NUT, 1/4-20 KEEP NUT	1
33	8047	BAG, 60 X 72	1
34	8051G	BRACKET, MOTOR MOUNT	1
35	8055	MOTOR, AMETEK 115V	2
36	8057	MOTOR GASKET	2
37	8076	FILTER BAG	4
38	8081	CABLE TIE MOUNT	2



TITLE: WATER VAC, SINGLE BOX

UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°

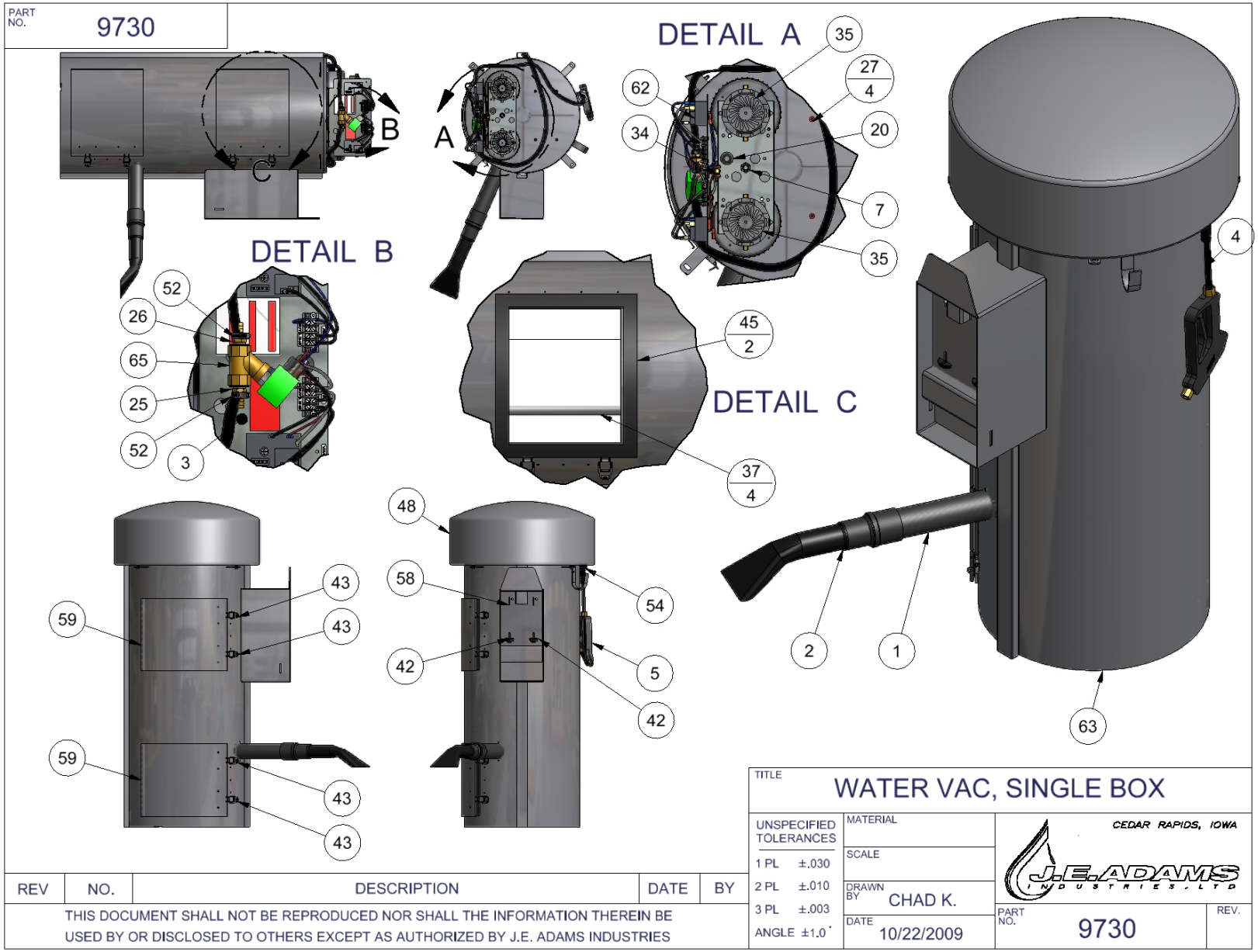
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DRAWN BY CHAD K.
DATE 10/22/2009

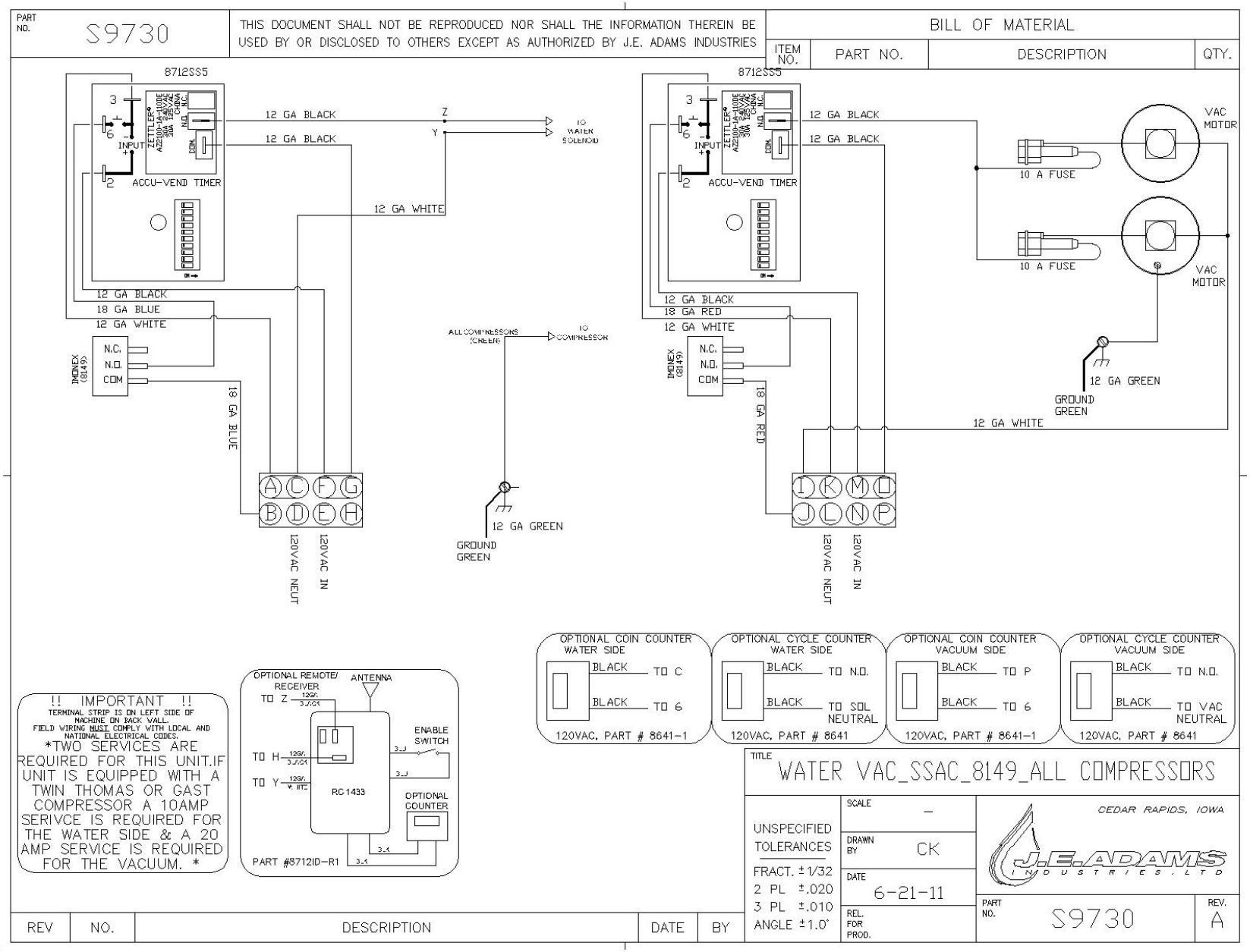
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD

PART NO. 9730
REV.

REV	NO.	DESCRIPTION	DATE	BY

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PART NO. 9730
DETAIL A
DETAIL B
DETAIL C
A
B
C
35
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1
63
TITLE
WATER VAC, SINGLE BOX
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°
MATERIAL
SCALE
DRAWN BY CHAD K.
DATE 10/22/2009
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD
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REV.
REV
NO.
DESCRIPTION
DATE
BY
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PART NO. S9730
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BILL OF MATERIAL
ITEM NO. | PART NO. | DESCRIPTION | QTY.
8712SS5
ACCU-VEND TIMER
INPUT
12 GA BLACK
12 GA WHITE
18 GA BLUE
18 GA RED
Z
Y
TO WATER SOLENOID
ALL COMPRESSORS (GREEN)
TO COMPRESSOR
12 GA GREEN
GROUND GREEN
IMONEX (8149)
N.C.
N.O.
COM
10 A FUSE
VAC MOTOR
120VAC NEUT
120VAC IN
!! IMPORTANT !!
TERMINAL STRIP IS ON LEFT SIDE OF MACHINE ON BACK WALL.
FIELD WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES.
*TWO SERVICES ARE REQUIRED FOR THIS UNIT.IF UNIT IS EQUIPPED WITH A TWIN THOMAS OR GAST COMPRESSOR A 10AMP SERIVCE IS REQUIRED FOR THE WATER SIDE & A 20 AMP SERVICE IS REQUIRED FOR THE VACUUM. *
OPTIONAL REMOTE/ RECEIVER
ANTENNA
TO Z
TO H
TO Y
ENABLE SWITCH
RC-1433
OPTIONAL COUNTER
PART #8712ID-R1
OPTIONAL COIN COUNTER WATER SIDE
BLACK TO C
BLACK TO 6
120VAC, PART # 8641-1
OPTIONAL CYCLE COUNTER WATER SIDE
BLACK TO N.O.
BLACK TO SOL NEUTRAL
120VAC, PART # 8641
OPTIONAL COIN COUNTER VACUUM SIDE
BLACK TO P
BLACK TO 6
120VAC, PART # 8641-1
OPTIONAL CYCLE COUNTER VACUUM SIDE
BLACK TO N.O.
BLACK TO VAC NEUTRAL
120VAC, PART # 8641
TITLE WATER VAC_SSAC_8149_ALL COMPRESSORS
UNSPECIFIED TOLERANCES
FRACT. ±1/32
2 PL ±.020
3 PL ±.010
ANGLE ±1.0°
SCALE –
DRAWN BY CK
DATE 6-21-11
REL. FOR PROD.
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD
PART NO. S9730
REV. A
REV | NO. | DESCRIPTION | DATE | BY