Models - 8648 Series Air/ Water/ Vacs

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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: Gast twin cylinder compressor models

Voltage:	120VAC, 60Hz
Amperage:	(1) 10 & (1) 20 amp service are required for this unit (both air and vac may run/vend at the same time)
Weight:	180-190 lbs with pallet
Vac Motor:	(2) 120VAC vacuum motor
Fuses:	(2) 10 amp inline fuses (vac motors)
Compressor:	Gast 3/4 HP, 120VAC, 60HZ
Solenoid	120V, 60hz, .05amps
NOTES:	Solenoid to be used with city water pressure only! Not intended for human consumption!!



Gast compressor

Duty cycle time 4 minutes on, 4 minutes off.

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:

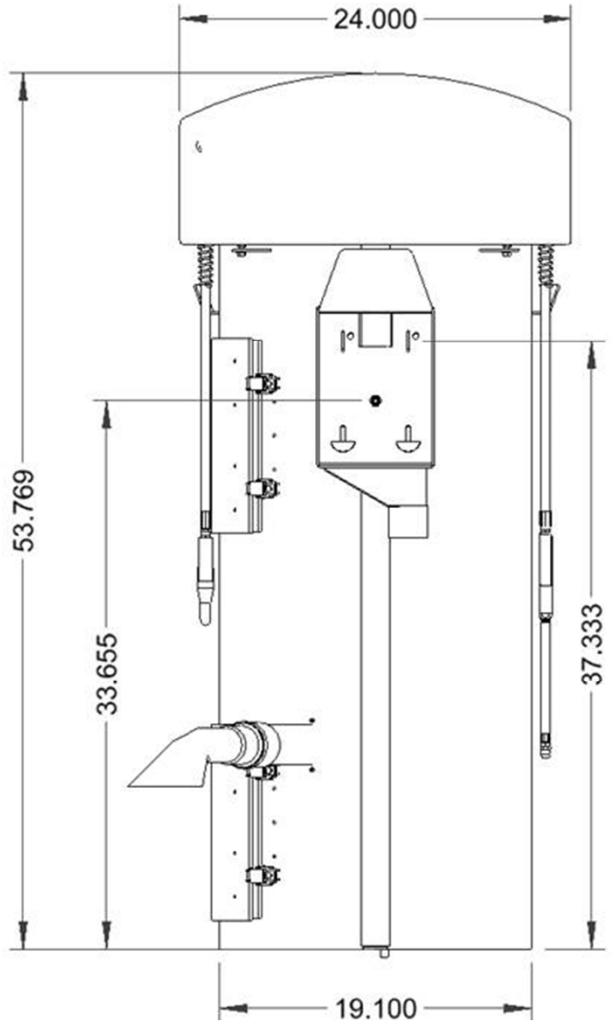


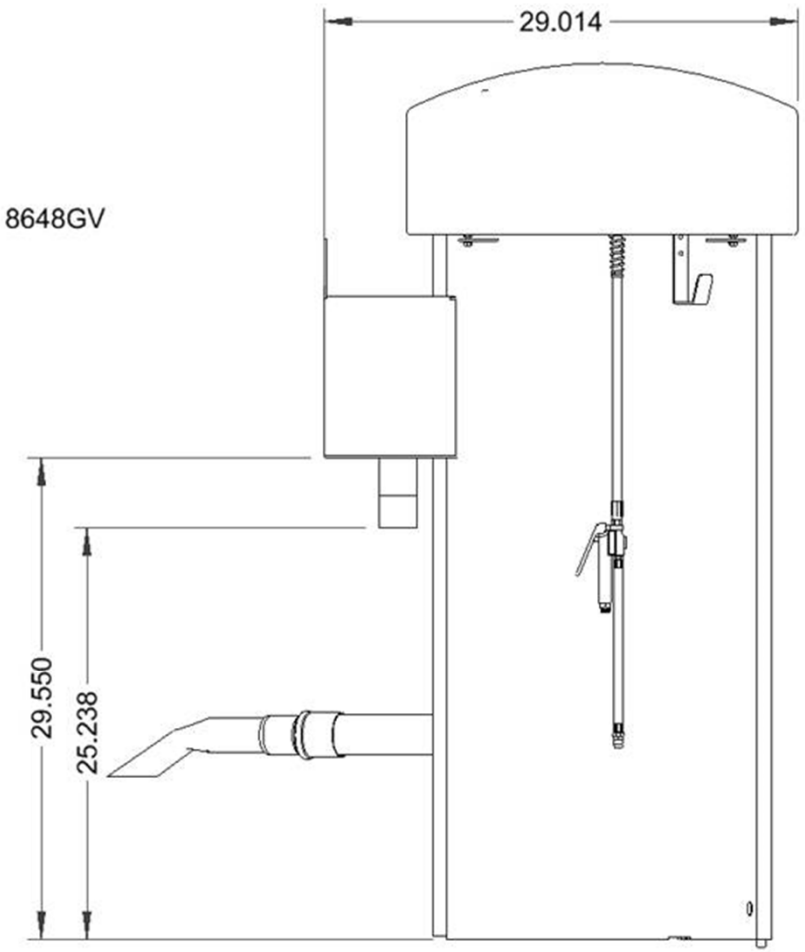
- Do not use on wet surfaces.
- Use only as described in manual. Use only manufactures recommended attachments.
- Do not allow to be used as a toy. Close attention is necessary when used by or near children.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, 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

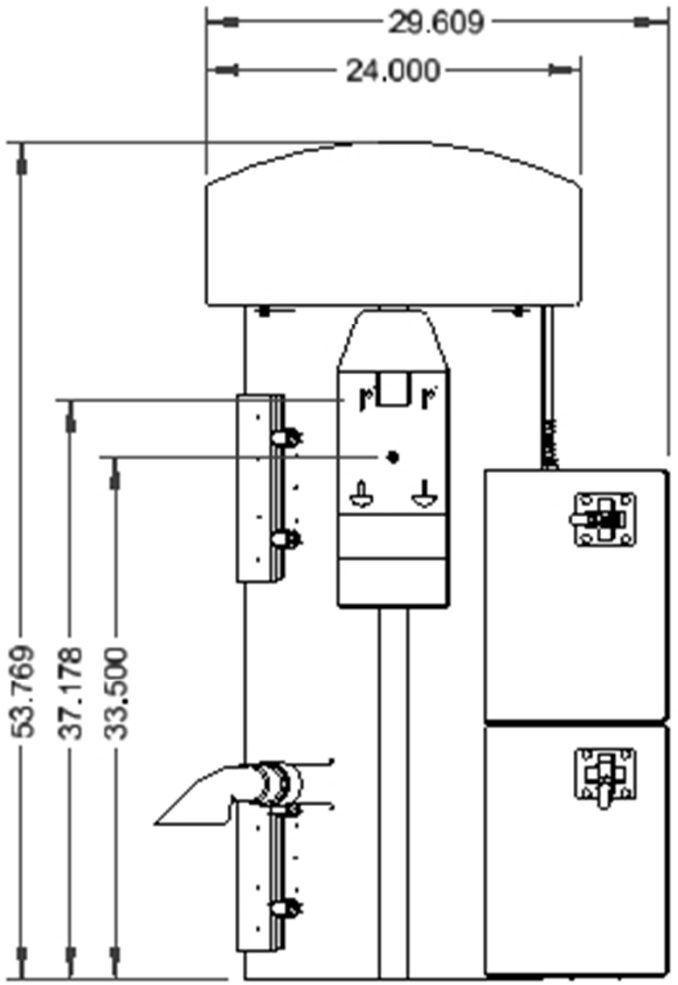
- **Installation Instructions:**
- Determine location to mount unit (**“DANGER” “THIS EQUIPMENT INCORPORATES PARTS SUCH AS SWITCHES, MOTORS, OR THE LIKE THAT TEND TO PRODUCE ARCS OR SPARKS THAT CAN CAUSE AN EXPLOSION. WHEN LOCATED IN GASOLINE-DISPENSING AND SERVICE STATIONS INSTALL AND USE AT LEAST 20 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 electrical 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.

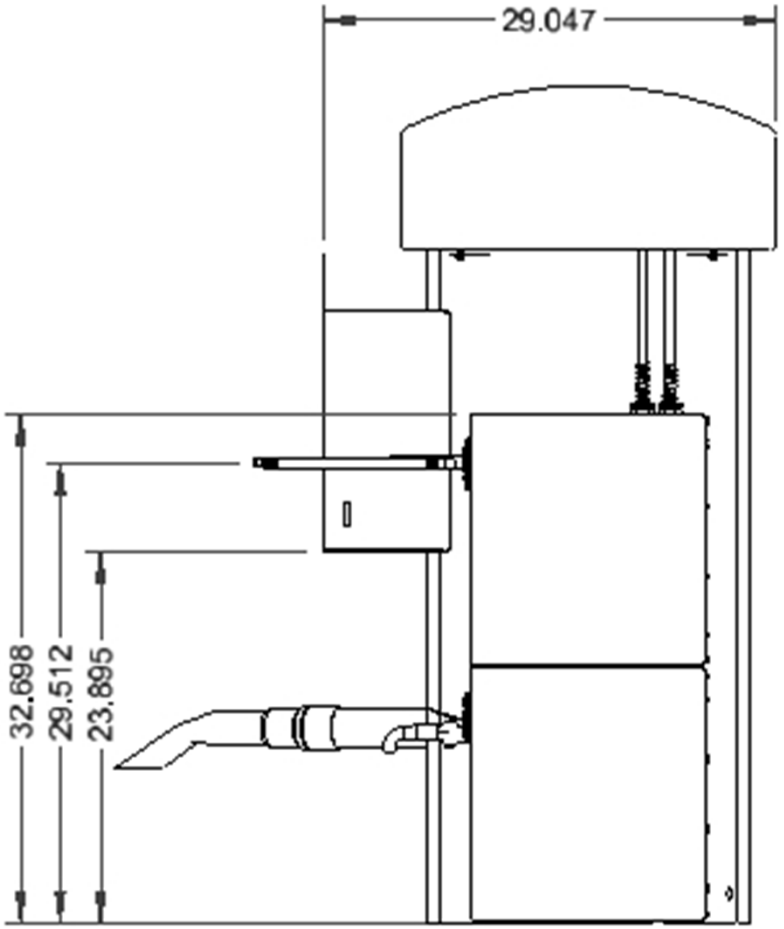
Product Dimensions



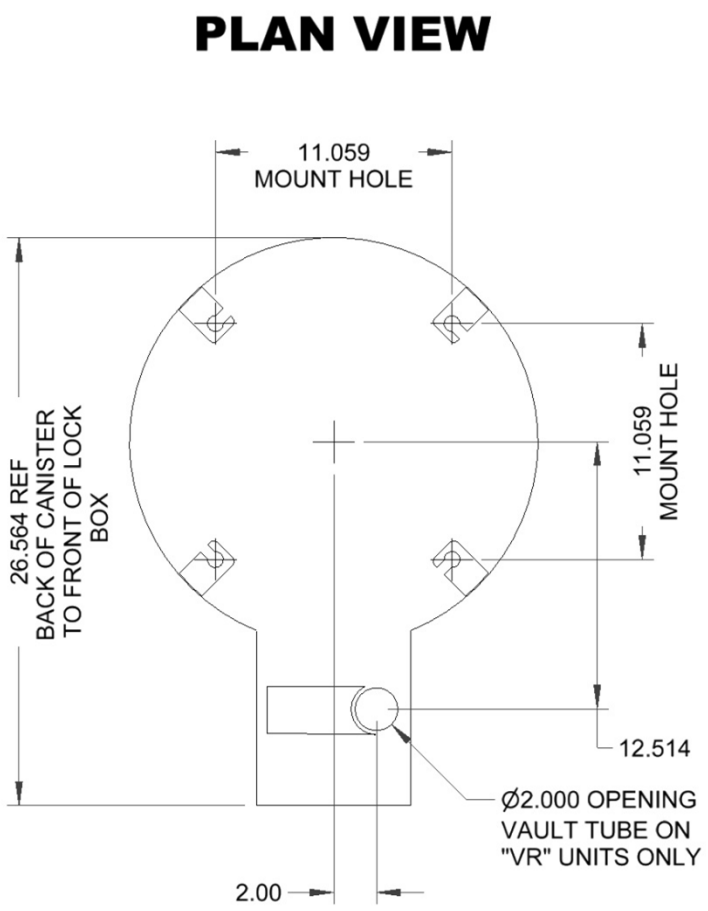


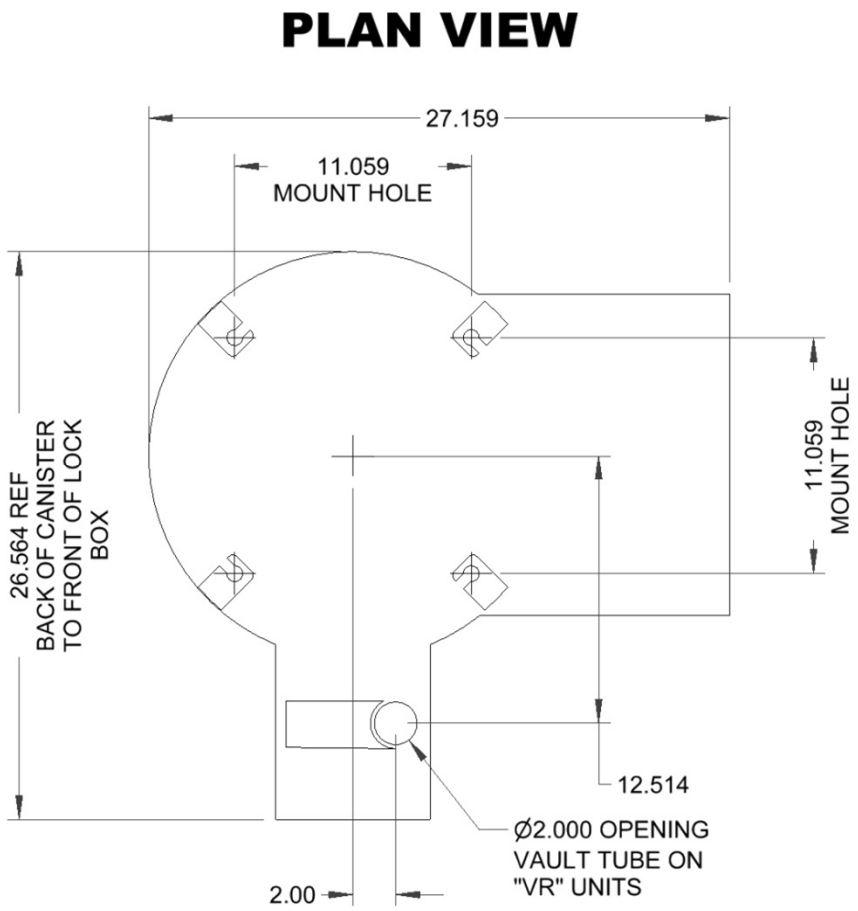
Product Dimensions





Installation:





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

Installation:



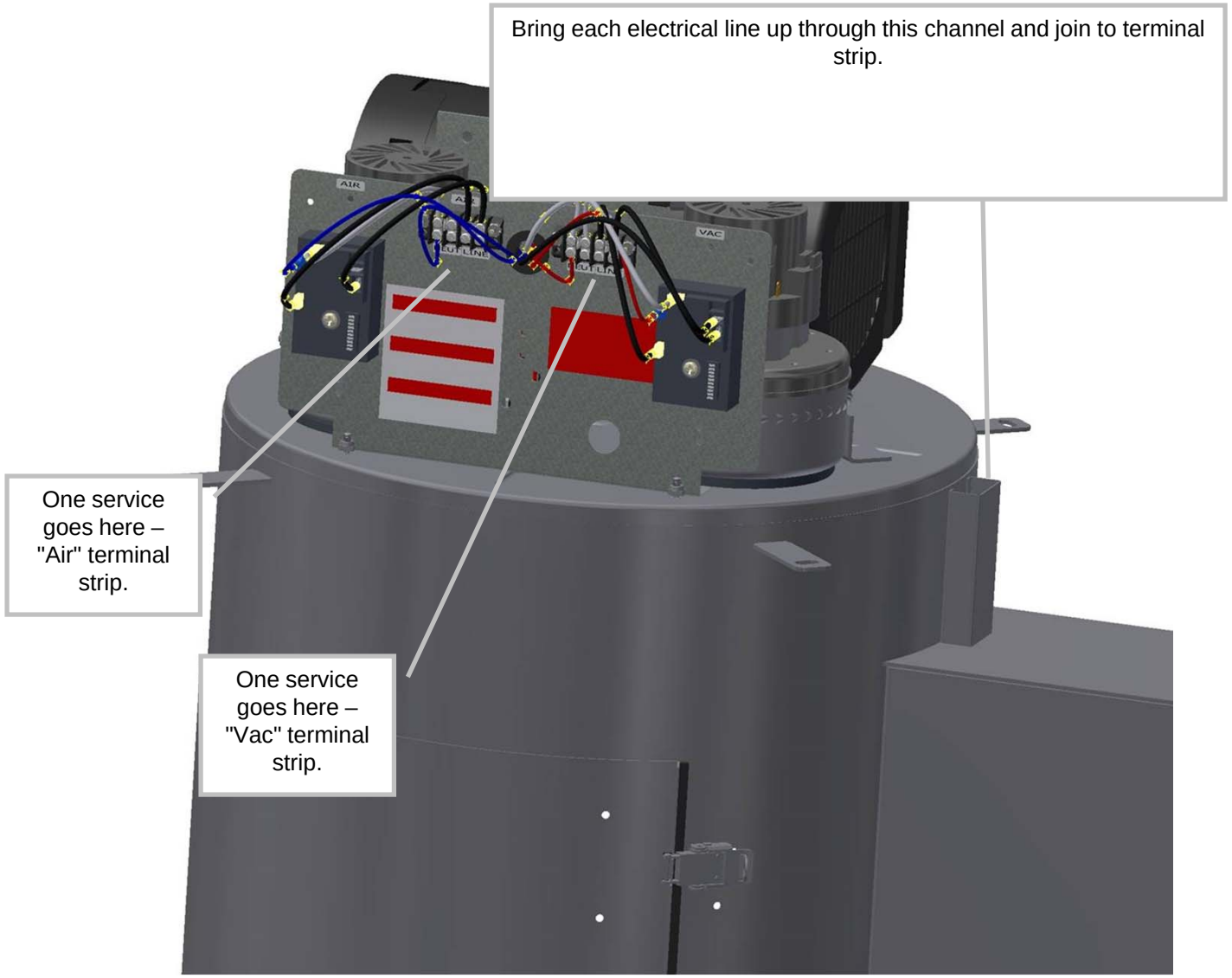
Drill holes into concrete surface and install 3/8" studs (4).

Factory water line is supplied under can – field connection can be made here.

Bring electrical in underneath can and route up front channel to terminal strip.

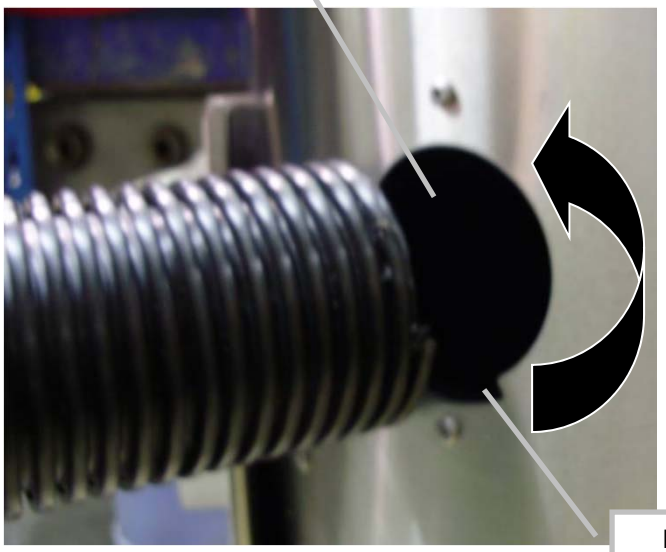
NOTE: when mounting, provide clearance so cleanout doors can open!!

Wiring – Coin Operated (dual electrical service)

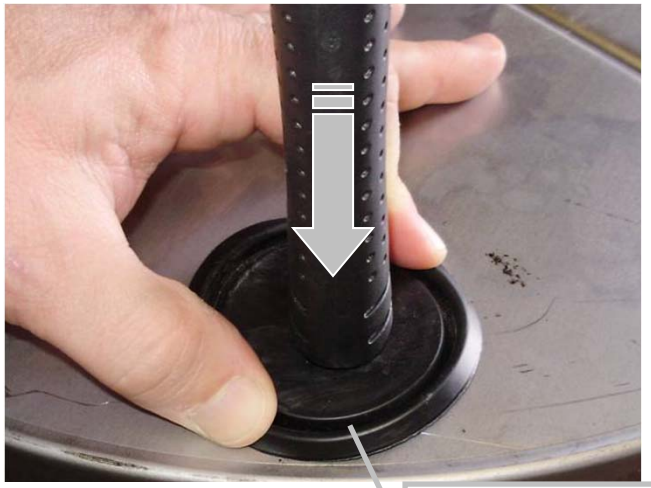


Once unit has been installed use 5871B8 cap plugs (supplied with unit) to seal holes in canister bottom located in lower cleanout door. Extra cap plugs are included with the unit in case plug becomes damaged during shipping removal.

To attach hose, thread into metal hole counter clockwise.



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.

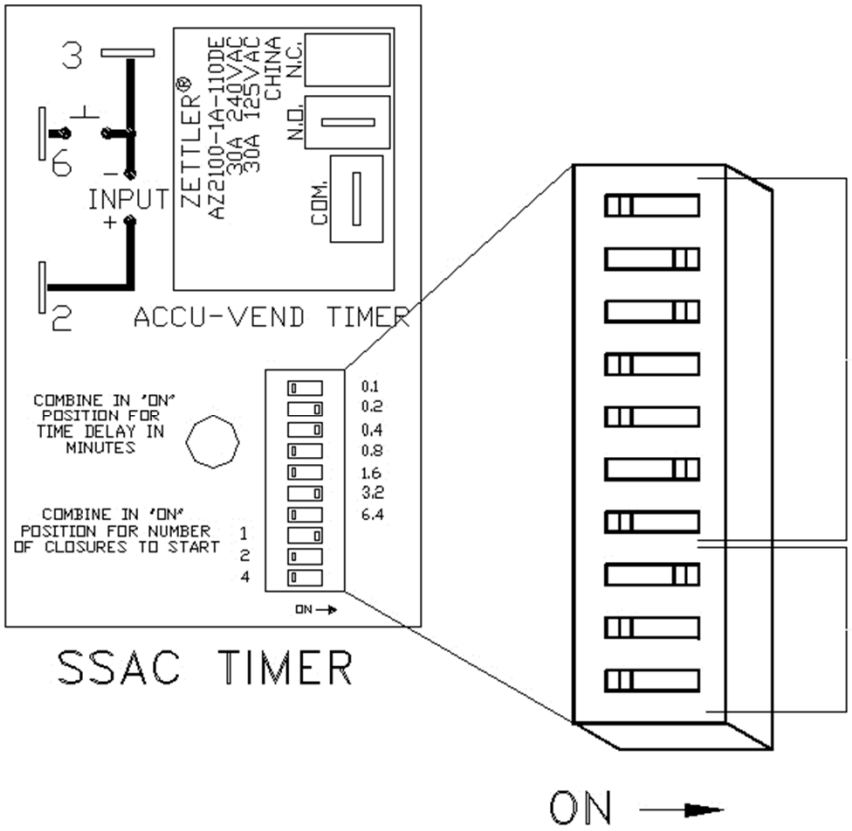
Programming Instructions:

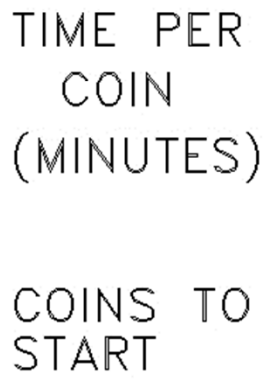
Coin acceptor:

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.

Timer programming coin operated model:

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.





ON →

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

Operating Instructions:

- Insert payment (coins) to start vacuum or air compressor.
- 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 and air hose for cracks or damage on a weekly basis.
- Air filter on compressor should be cleaned or replaced every 3 months under normal use.
- 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 unit is not in the on position.	Flip breaker on.
	No power to machine.	Check incoming power.
	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 20amp service versus length or run.
	Wrong size breaker.	Install correct breaker (only if wire size is adequate to handle 20 amp breaker).
Fuses for vac motors keep blowing.	Inadequate wire size ran to machine.	Call electrician and install proper wire size for 20amp 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.
Compressor runs but will not inflate tire.	Air is leaking from unit somewhere.	Turn power off to unit, apply chuck to air source with at least 30lbs of pressure and listen carefully for leaks inside cabinet or air hose. Replace faulty component if leaking.
	If no system leaks, is compressor putting out enough pressure?	If compressor cannot force air into tire, the compressor may have exceeded its life span and need rebuilt (about 1000 hours).
	Chuck washer is worn out?	Replace rubber washer inside chuck with JE Adams PN 8533-3CW.
	Temperature is below freezing and condensation off compressor has froze in air hose.	Remove air hose and chuck and bring into warm area to thaw. Optional air dry systems are available through JE Adams if frequent problem- please call.
Compressor hums, won't start.	Contacts on compressor may be dirty.	Remove protective guard from end of motor and clean contacts.
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 8648GH

BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
36	8153-1	LATCH, CLEANOUT DOOR	4
37	8157	NUT, #6-32 KEPP NUT STAINLESS	9
38	8159	DOOR GASKET	2
39	8183	DECAL, WARNING	3
40	8204RW	WELDMENT, COIN BOX	1
41	8305	ASSEMBLED SS DOME	1
42	8426-1	DECAL, AIR WATER CANISTER	1
43	8426-3	DECAL, DOME	1
44	8427-1	DECAL, VACUUM	1
45	8429-1	DECAL, HANG HOSE	1
46	8429-17	DECAL, FACEPLATE	1
47	8437D001	DECAL, ETL LISTED	1
48	8533-8	TIRE INFLATOR W/ GAUGE	1
49	8545-6	6' HOSE	2
50	8549	FLEX STRAIN RELIEF	2
51	8609SRW	FACEPLATE WELDMENT, DUAL DROP	1
52	8615-5W	CLEANOUT DOOR WELDMENT	2
53	8630	BOX	1
54	8638	PIN LOCK	2
55	8646A	TIMER ASSEMBLY, AIR/VAC	1
56	8647	WATER SPOUT, 1/4" NPT	1
57	8648W1-1RC	WELDMENT, AIR WATER/VAC CANISTER, REEL CRAFT	1
58	8649	90° HOSE BARB	1
59	8673-11	GROUND WIRE 28"	1
60	8697	SOLENOID 110V	1
61	8732	NAMEPLATE PRODUCT SPECS	1
62	8754	DECAL, WARNING	1
63	8826	SWITCH, TOGGLE ON-ON SPDT	1
64	8939	PALLET, DUAL, OVAL, SPECIALITY, 30" X 40"	1
65	9862	110VAC 3/4 TWIN GAST COMPRESSOR	1
66	B5722-002	NUT, 3/8-16 UNC HEX LOCK NUT	4

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	3000 (6FT)	1/4" NYLON HIGH PRESSURE HOSE - 6FT	1
4	3054	1/4" HOSE BARB X 1/" MPT	1
5	5035D3	DOWEL PIN	8
6	5600D4	3/8-16 X 1.5 HHCS	4
7	5603D1	10 Std NC Nylock Nut	3
8	5603D11	1/2 Std NC Nylock Nut	1
9	5603D5	1/4 Std NC Nylock Nut	12
10	5603D8	Pan Head, Slotted, 10-24 UNC x 0.5	2
11	5606D22	WASHER, 3/8 FENDER	8
12	5606D7	FLAT WASHER, .160 ID X .500 OD	1
13	5627D2	Pan Head, Slotted, 6-32 x 5/8	1
14	5635D4	1/4-20 UNC CARRIAGE BOLT	8
15	5639D4	RUBBER GROMMET	1
16	5643D1	SS HOSE CLAMP	2
17	5647D2	1/8" SS POP RIVET	16
18	5647D8	3/16" SS POP RIVET	14
19	5871b8	PLUG, VAC BOTTOM 2-1/2'	8
20	5920	BOOT, TOGGLE SWITCH	1
21	6025SHR	REEL CRAFT, BASE MOUNT	2
22	6027-1	RETAINER, ROLLER	2
23	6027-2	COVER, HOSE GUIDE	4
24	6027-3	ROLLER, HOSE GUIDE	8
25	6082	BAG, 9 X 12	1
26	8047	BAG, 60 X 72	1
27	8051G	BRACKET, MOTOR MOUNT	1
28	8055EM	MOTOR, ELECTRO 120V	2
29	8057	MOTOR GASKET	2
30	8076	FILTER BAG	4
31	8081	CABLE TIE MOUNT	2
32	8084	CABLE TIE	10
33	8085	CABLE TIE	4
34	8108	#10 x 1/2 TAP SCREW	4
35	8149	IMONEX COIN ACCEPTOR	2



REV	NO.	DESCRIPTION	DATE	BY
B	7097	REMOVED (2) 6025-7 AND 8648W1-1 AND ADDED (2) 6025SHR & 8648W1-1RC	4-30-13	CK
A	6830	REVISED AND DRAWN TO INVENTOR; NO PREVIOUS DRAWING	2-16-12	CK

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TITLE: AIR-WATER-VAC, 2DR, GAST, HOSE REELS

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

MATERIAL

SCALE

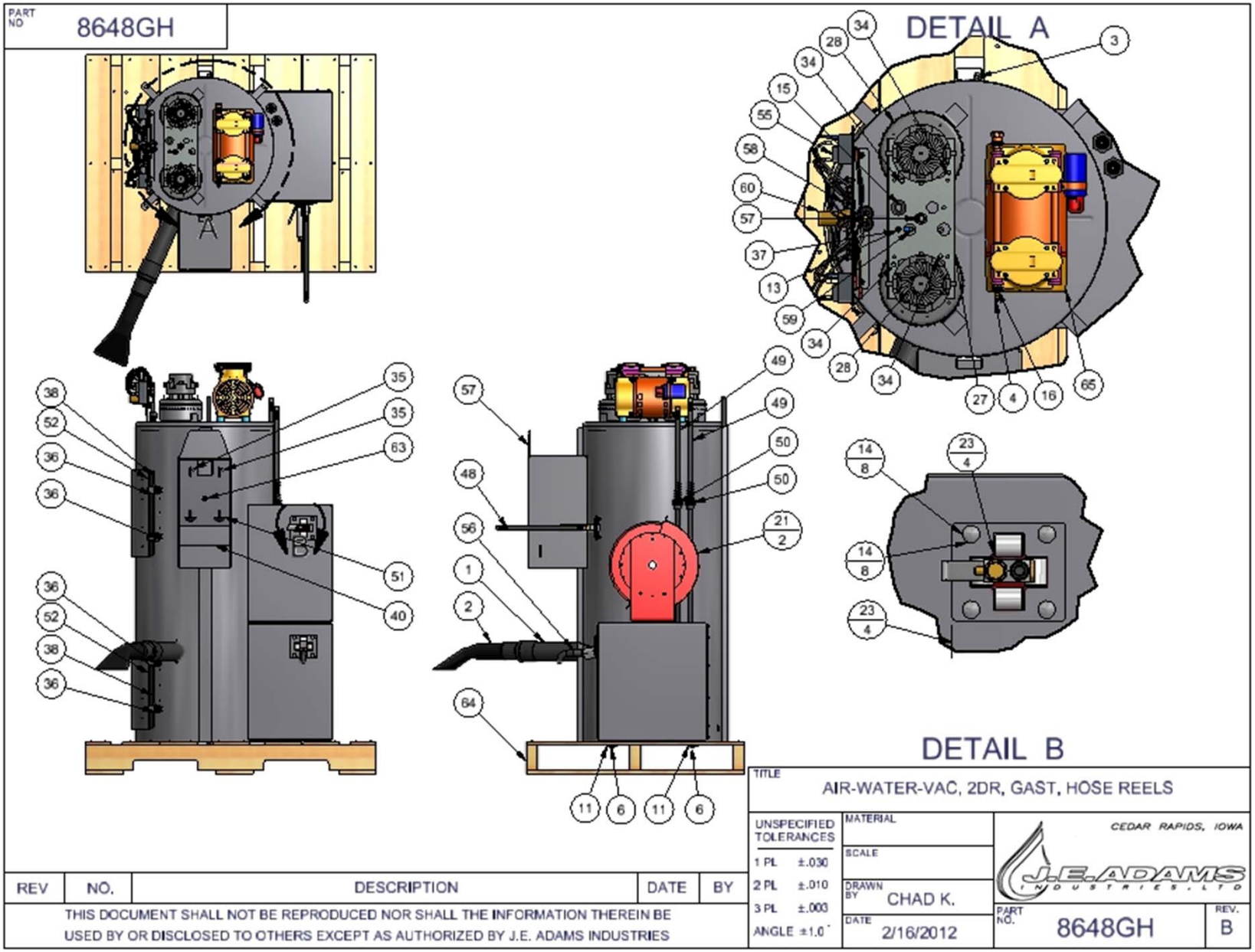
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DATE: 2/16/2012

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

PART NO. 8648GH

REV. B


PART NO 8648GH
DETAIL A
DETAIL B
TITLE
AIR-WATER-VAC, 2DR, GAST, HOSE REELS
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.000
ANGLE ±1.0°
MATERIAL
SCALE
DRAWN BY CHAD K.
DATE 2/16/2012
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD
PART NO. 8648GH
REV. B
REV
NO.
DESCRIPTION
DATE
BY
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PART NO. 8648GV

BILL OF MATERIALS

ITEM	PART NUMBER	DESCRIPTION	QTY
36	8157	NUT, #6-32 KEPP NUT STAINLESS	9
37	8159	DOOR GASKET	2
38	8183	DECAL, WARNING	3
39	8305	ASSEMBLED SS DOME	1
40	8426-1	DECAL, AIR WATER CANISTER	1
41	8426-3	DECAL, DOME	1
42	8427-1	DECAL, VACUUM	1
43	8429-1	DECAL, HANG HOSE	1
44	8429-17	DECAL, FACEPLATE	1
45	8437D001	DECAL, ETL LISTED	1
46	8532-25	AIR HOSE ASSY, 1/4" X 25'	2
47	8533-8	TIRE INFLATOR W/ GAUGE	1
48	8549	FLEX STRAIN RELIEF	2
49	8605	PALLET, VAC, 26" X 30.5"	1
50	8609SRW	FACEPLATE WELDMENT, DUAL DROP	1
51	8615-5W	CLEANOUT DOOR WELDMENT	2
52	8630	BOX	1
53	8638	PIN LOCK	1
54	8646A	TIMER ASSEMBLY, AIR/VAC	1
55	8647	WATER SPOUT, 1/4" NPT	1
56	8648VRW	WELDMENT, AIR WATER/VAC CANISTER, VR	1
57	8649	90° HOSE BARB	1
58	8673-11	GROUND WIRE 28"	1
59	8697	SOLENOID 110V	1
60	8732	NAMEPLATE PRODUCT SPECS	1
61	8754	DECAL, WARNING	1
62	8826	SWITCH, TOGGLE ON-ON SPDT	1
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4	5600D4	3/8-16 X 1.5 HHCS	4
5	5601D4	1/4-20 x 3/4 HHCS-SS	2
6	5603D1	10 Std NC Nylock Nut	3
7	5603D11	1/2 Std NC Nylock Nut	1
8	5603D2	1/4 Std NC Nylock Nut	2
9	5603D5	1/4 Std NC Nylock Nut	4
10	5603D8	Pan Head, Slotted, 10-24 UNC x 0.5	2
11	5606D21	WASHER, FLAT, 3/4 SAE, ID 13/16	2
12	5606D22	WASHER, 3/8 FENDER	8
13	5606D7	FLAT WASHER, .160 ID X .500 OD	1
14	5627D2	Pan Head, Slotted, 6-32 x 5/8	1
15	5639D4	RUBBER GROMMET	1
16	5643D1	SS HOSE CLAMP	1
17	5647D2	1/8" SS POP RIVET	16
18	5647D8	3/16" SS POP RIVET	14
19	5684D2	1/2" DIA. HOSE CLAMP	2
20	5800D6	90 DEG. NPT STREET ELBOW	1
21	5827D1	45 DEG. STREET ELBOW	1
22	5871b8	PLUG, VAC BOTTOM 2-1/2"	8
23	5920	BOOT, TOGGLE SWITCH	1
24	6082	BAG, 9 X 12	1
25	8047	BAG, 60 X 72	1
26	8051G	BRACKET, MOTOR MOUNT	1
27	8055EM	MOTOR, ELECTRO 120V	2
28	8057	MOTOR GASKET	2
29	8076	FILTER BAG	4
30	8081	CABLE TIE MOUNT	2
31	8084	CABLE TIE	10
32	8085	CABLE TIE	4
33	8108	#10 x 1/2 TAP SCREW	4
34	8149	IMONEX COIN ACCEPTOR	2
35	8153-1	LATCH, CLEANOUT DOOR	4



REV	NO.	DESCRIPTION	DATE	BY
A	6824	REVISED AND DRAWN TO INVENTOR; NO PREVIOUS DRAWING	2-15-12	CK

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ANGLE ±1.0°

MATERIAL

SCALE

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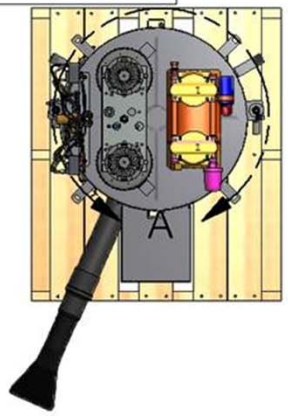
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CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD

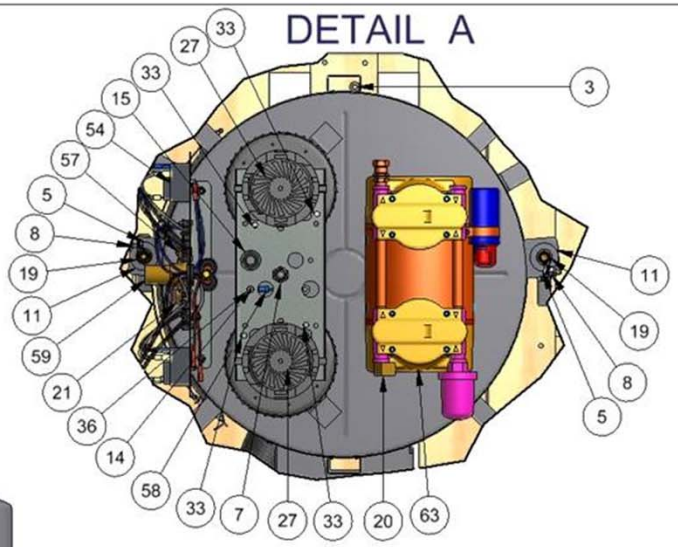
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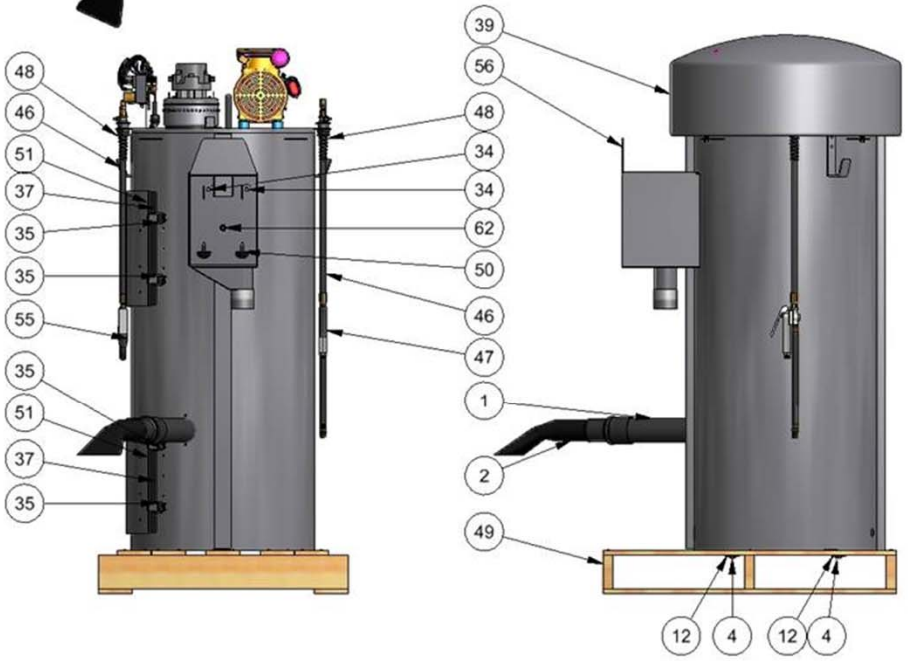
REV. A

PART NO. 8648GV



DETAIL A



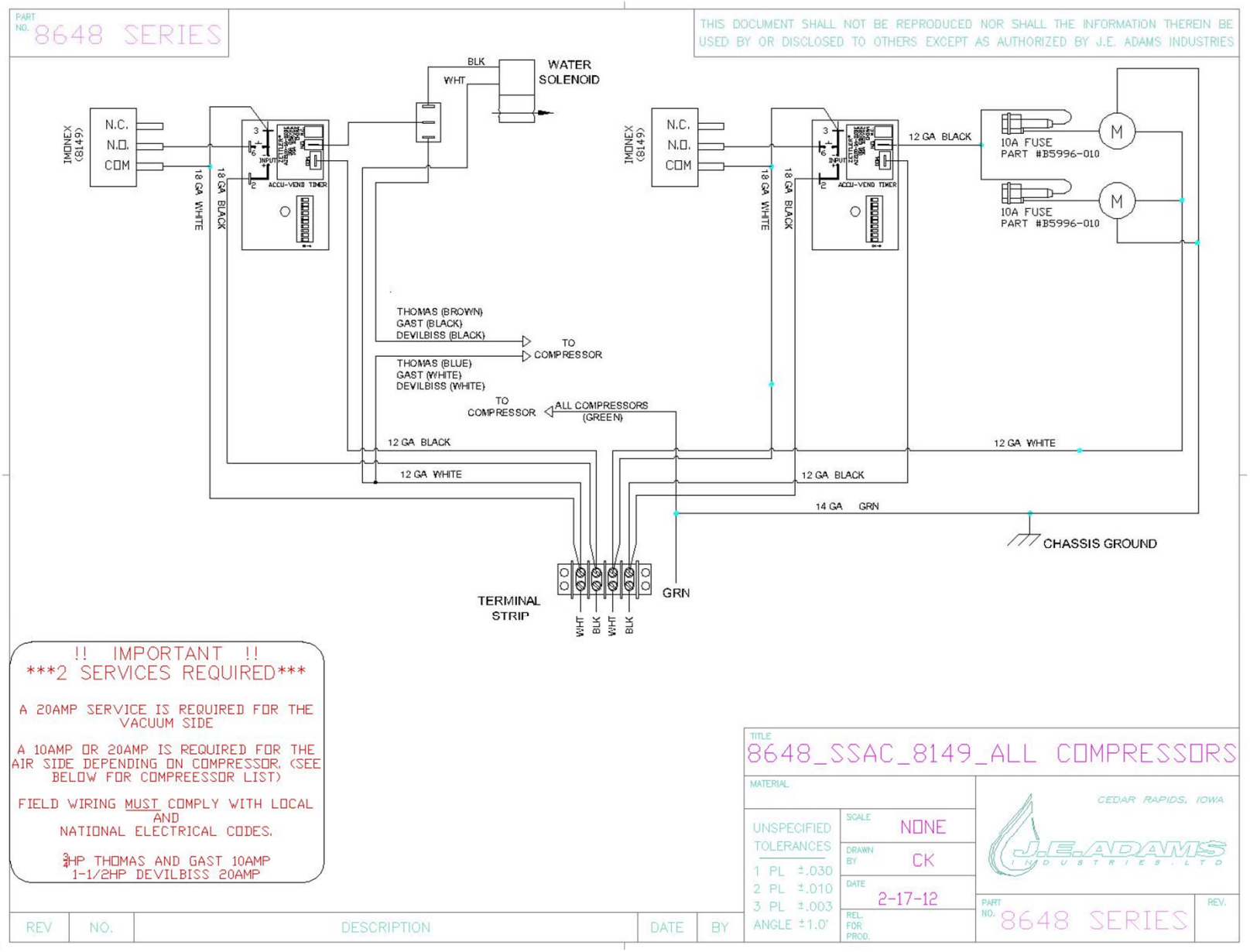


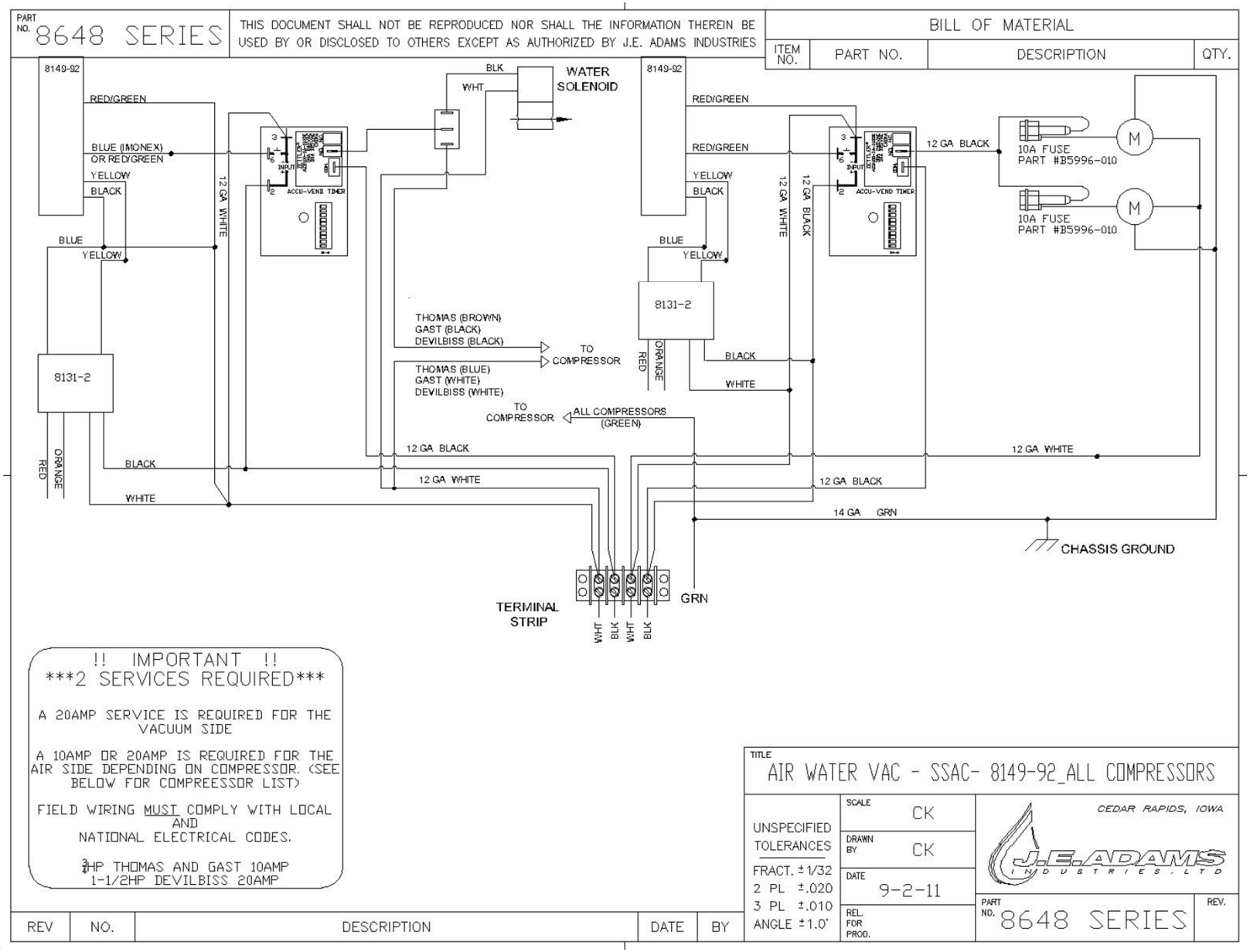
REV	NO.	DESCRIPTION	DATE	BY

THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION THEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY J.E. ADAMS INDUSTRIES

TITLE: AIR-WATER-VAC, 2DR, GAST, VR

UNSPECIFIED TOLERANCES 1 PL ±.030 2 PL ±.010 3 PL ±.003 ANGLE ±1.0°	MATERIAL	CEDAR RAPIDS, IOWA J.E. ADAMS INDUSTRIES, LTD	
	SCALE		
	DRAWN BY: CHAD K.		
	DATE: 2/15/2012	PART NO. 8648GV	REV. A


PART NO. 8648 SERIES
THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION THEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY J.E. ADAMS INDUSTRIES
IMONEX (8149)
N.C.
N.O.
COM
18 GA WHITE
18 GA BLACK
ACCU-VEND TIMER
BLK
WHT
WATER SOLENOID
12 GA BLACK
10A FUSE PART #B5996-010
M
THOMAS (BROWN)
GAST (BLACK)
DEVILBISS (BLACK)
TO COMPRESSOR
THOMAS (BLUE)
GAST (WHITE)
DEVILBISS (WHITE)
TO COMPRESSOR
ALL COMPRESSORS (GREEN)
12 GA WHITE
14 GA GRN
CHASSIS GROUND
TERMINAL STRIP
GRN
!! IMPORTANT !!
2 SERVICES REQUIRED
A 20AMP SERVICE IS REQUIRED FOR THE VACUUM SIDE
A 10AMP OR 20AMP IS REQUIRED FOR THE AIR SIDE DEPENDING ON COMPRESSOR. (SEE BELOW FOR COMPREESSOR LIST)
FIELD WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES.
3/4HP THOMAS AND GAST 10AMP
1-1/2HP DEVILBISS 20AMP
TITLE
8648_SSAC_8149_ALL COMPRESSORS
MATERIAL
UNSPECIFIED TOLERANCES
1 PL ±.030
2 PL ±.010
3 PL ±.003
ANGLE ±1.0°
SCALE NONE
DRAWN BY CK
DATE 2-17-12
REL. FOR PROD.
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD
PART NO. 8648 SERIES
REV.
REV
NO.
DESCRIPTION
DATE
BY


PART NO. 8648 SERIES
THIS DOCUMENT SHALL NOT BE REPRODUCED NOR SHALL THE INFORMATION THEREIN BE USED BY OR DISCLOSED TO OTHERS EXCEPT AS AUTHORIZED BY J.E. ADAMS INDUSTRIES
BILL OF MATERIAL
ITEM NO. | PART NO. | DESCRIPTION | QTY.
8149-92
RED/GREEN
BLUE (IMONEX) OR RED/GREEN
YELLOW
BLACK
BLUE
YELLOW
12 GA WHITE
BLK
WHT
WATER SOLENOID
ACCU-VEND TIMER
8131-2
RED
ORANGE
BLACK
WHITE
THOMAS (BROWN)
GAST (BLACK)
DEVILBISS (BLACK)
TO COMPRESSOR
THOMAS (BLUE)
GAST (WHITE)
DEVILBISS (WHITE)
TO COMPRESSOR
ALL COMPRESSORS (GREEN)
12 GA BLACK
12 GA WHITE
14 GA GRN
CHASSIS GROUND
10A FUSE PART #B5996-010
M
TERMINAL STRIP
GRN
!! IMPORTANT !!
2 SERVICES REQUIRED
A 20AMP SERVICE IS REQUIRED FOR THE VACUUM SIDE
A 10AMP OR 20AMP IS REQUIRED FOR THE AIR SIDE DEPENDING ON COMPRESSOR. (SEE BELOW FOR COMPREESSOR LIST)
FIELD WIRING MUST COMPLY WITH LOCAL AND NATIONAL ELECTRICAL CODES.
3/4HP THOMAS AND GAST 10AMP
1-1/2HP DEVILBISS 20AMP
REV | NO. | DESCRIPTION | DATE | BY
TITLE
AIR WATER VAC - SSAC- 8149-92_ALL COMPRESSORS
UNSPECIFIED TOLERANCES
FRACT. ±1/32
2 PL ±.020
3 PL ±.010
ANGLE ±1.0°
SCALE CK
DRAWN BY CK
DATE 9-2-11
REL. FOR PROD.
CEDAR RAPIDS, IOWA
J.E. ADAMS INDUSTRIES, LTD
PART NO. 8648 SERIES
REV.