Safety – Operation – Maintenance
Keep this document in a safe place
Read and understand this manual before operating your equipment

CLAYTON
Dustless Made Simple™

Barracuda Electric

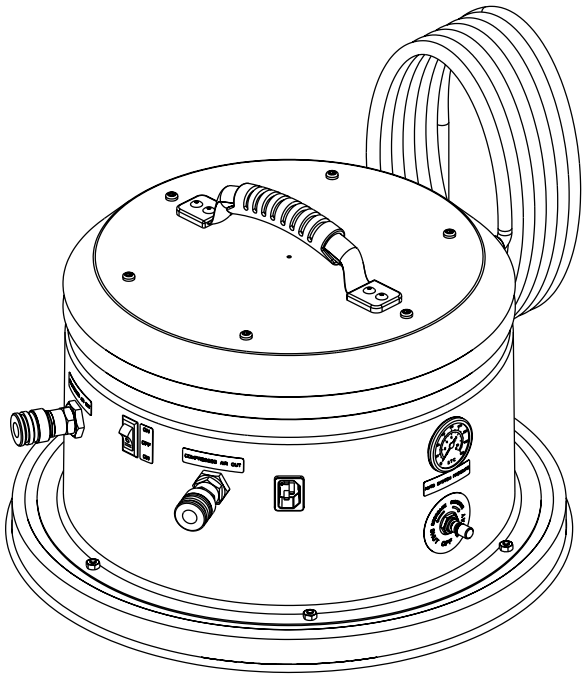
CE

Immersion Separator 120V / 220V with Pneumatic Tool Sync

Models with Prefix: CMP-315C

Designed for the Collection of Combustible Dust
For use in Class I: Group D & Class II: Groups E, F, & G
Designed for use in ATEX Zones 1 & 2, 21 & 22

Scan this QR code for online instructions and documentation, or visit www.ClaytonHowTo.com



⚠ WARNING

SAFETY LEGEND

⚠ WARNING
Read and understand operator's manual before using this equipment.

⚠ WARNING
Eye protection is required when operating this equipment.

⚠ WARNING
Hearing protection is required when applicable PEL (permissible exposure limit) is exceeded.

⚠ WARNING
Respiratory protection is required when applicable PEL (permissible exposure limit) is exceeded.

⚠ WARNING

Some dust created by sanding, grinding, drilling, and other construction activities contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints
- Crystalline silica from bricks and cement and other masonry products
- Chromium and other heavy metals from paint and primers

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as dust masks that are specially designed to filter out microscopic particles.

April 2020

TABLE OF CONTENTS

Table of Contents....2
Important Safety Instructions....3
Save These Instructions....3
Applications & Environments....4
What's Included....5
Specifications & Requirements....5
Getting Started....5
Compressed Air Fittings....6
Pneumatic Tool Sync....7
Before Each Use....8
Maintenance....10
Hydrophobic HEPA Filter Change....11
Illustrated Parts Breakdown....12
Limited Lifetime Warranty....16

IMPORTANT SAFETY INSTRUCTIONS

READ ALL INSTRUCTIONS BEFORE USING THIS APPLIANCE

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

DANGER – Risk of fire or explosion:

Water level is crucial to safe operation. Check level before operation, and maintain during use as indicated.

WARNING

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

- Do not leave appliance when plugged in. Unplug from outlet when not in use and before servicing
- This unit is to be used only indoors and in a dry location
- Use only as described in this manual. Use only manufacturer's recommended attachments.
- 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 center
- Handle provided on power head is used only for removal of power head during maintenance
- Before separation of power head from tank, users must disengage draw latches on tank
- Do not pull or carry by cord, use cord as a handle, close a door on cord, or pull cord around sharp edges or corners. Do not run appliance over cord. Keep cord away from heated surfaces
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord
- Do not handle plug or appliance with wet hands
- 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
- Turn off all controls before unplugging
- 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 Instructions
- Do not use without all filters in place

SAVE THESE INSTRUCTIONS

Applications

The Barracuda Immersion Separator is engineered to collect aluminum dust or hot/sparking materials. The Separator is NOT designed to operate in explosive dust or gas environments. Check with your Fire Marshall to determine how your environment is classified.

Grounding Instructions

This appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

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 provided with 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 120-volt circuit and has a grounding attachment plug that looks like the plug illustrated in Figure 1. Make sure that the appliance is connected to an outlet having the same configuration as the plug. No adaptor should be used with this appliance.

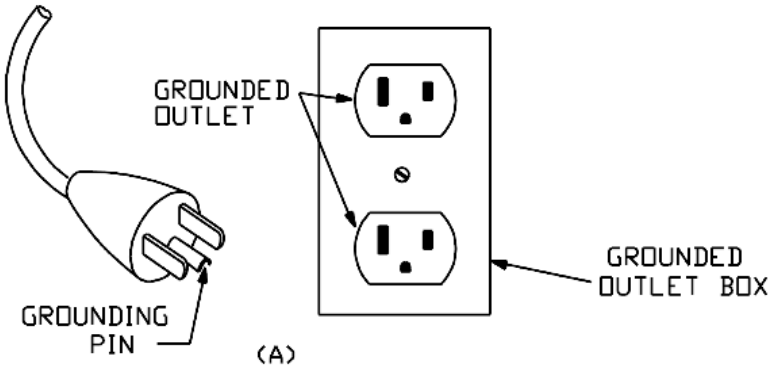


Figure 1: Grounded Outlet and Plug

APPLICATIONS & ENVIRONMENTS

Meets the European ATEX requirement for use in:
The ATEX marking certifies only that the vacuum can be used in the presence of flammable liquids and combustible or conductive dusts, but does not certify the capacity of the vacuum to recover them.

Group 2 / Zone 1 & 2

Group 3 / Zone 21 & 22

Meets the North American NEC / NFPA requirements for use in:

Class I / Div 1 & 2 / Group D Environments
Atmospheres containing: gasoline, petroleum, naphtha, benzine, butalie, propane, alcohol, acetone, benzol, lacquer solvent vapors or natural gas.

Class II / Div 1 & 2 / Group E
Atmospheres containing: metal dust

Class II / Div 1 & 2 / Group F
Atmospheres containing: carbon, black coal or coke dust.

Class II / Div 1 & 2 / Group G
Atmospheres containing: flour, starch or grain dust.

⚠WARNING

Do not use this equipment for cleaning or extracting fuel residues from any vehicle or equipment.
Do not use this equipment for cleaning or extracting live sparks or burning embers.

Grounding Instructions

This vacuum must be connected to an earth ground source with the Grounding Cable included. If the vacuum should come in contact with an external electrical source, grounding provides a path of least resistance for electrical current to reduce the risk of electrical shock.

Bonding Instructions

The work piece must be bonded to the same earth ground as the vacuum. This ensures that the vacuum and the work piece are at the same electrical potential to eliminate static discharge between them.

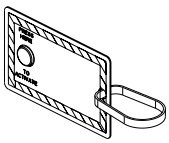
Tools And Attachments

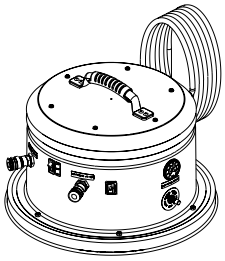
WARNING: This equipment is only intended for dust-ignition proof operation if it is used with the proper conductive hose and tools provided by Clayton. Any alteration to this equipment by a third party will nullify its warranty.

WHAT'S INCLUDED

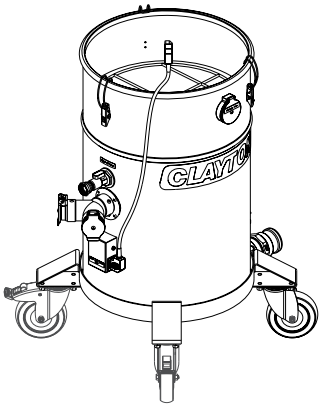
Clayton Barracuda Power Heads ship with the following items:

- Barracuda Power Head
- HEPA 12 Month Timer Card





Clayton Vacuum Tanks include Bags, Filters, and other components. These instructions asume you have both a Power Head and one of the following Clayton Vacuum Tanks



603-315G

SPECIFICATIONS & REQUIREMENTS

Weight	21.7 lbs (9.8 kg)
Dimensions	17.5 x 17.5 x 12 in (44.5 x 44.5 x 30.5 cm)
HEPA Filter Efficiency	99.995% @ 0.3 µm (H14)
Filter Bag Efficiency	95% @ 0.5 micron
Sounds Pressure Level	<70 dBA
Compressed Air Consumption	Determined by Tool
Compressed Air Supply Pressure	90-120 PSI (6.2 - 8.3 bar)

120 Volt

Power Consumption	120VAC~ 12.5A
Vacuum Flow	120 CFM (204 SCMH)
Vacuum Suction	120 in/H_2O (30 kPa)

220-240 Volt

Power Consumption	220-240VAC~ 5.5-6A
Vacuum Flow	120 CFM (204 SCMH)
Vacuum Suction	120 in/H_2O (30 kPa)

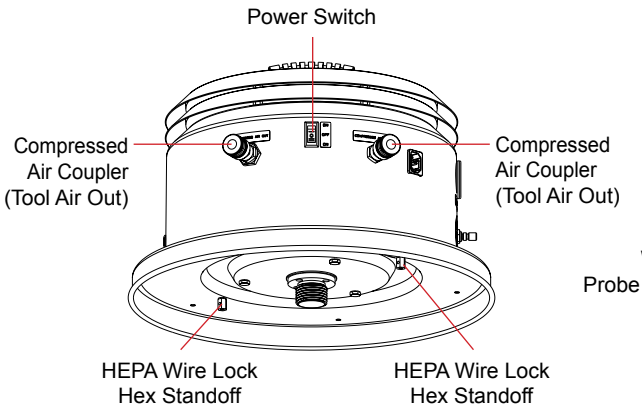
GETTING STARTED

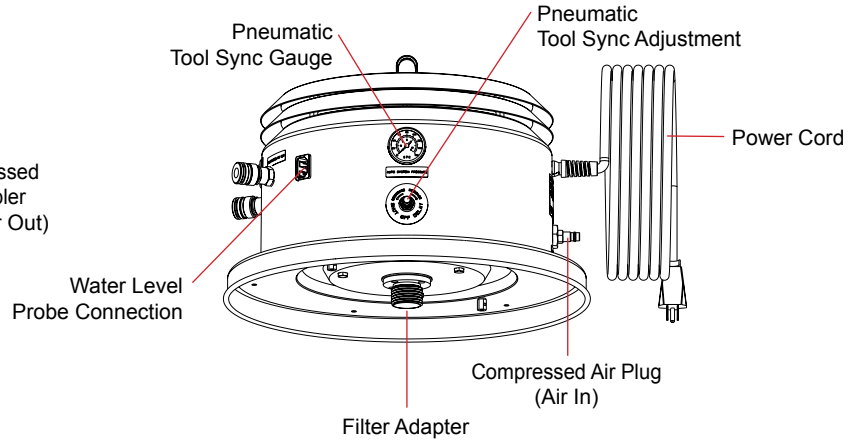
1. The vacuum Power Head and the Vacuum Tank ship in separate boxes

2. Unbox the Vacuum Power Head

3. Visually inspect Power Head to ensure that no parts are missing or damaged

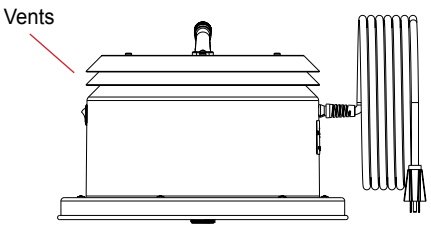
4. Familiarize yourself with the Power Head





GETTING STARTED

⚠WARNING



1. Power Head Vents
- NEVER BLOCK THE POWER HEAD VENTS
- NEVER WRAP THE POWER CORD AROUND THE POWER HEAD VENTS

2. Remove and identify the Vacuum, Consumables, and Accessories Included in the Box.

3. If Needed Install the Power Head
- Install the HEPA filter on the power head by threading the filter onto the threaded adapter until snug
- Place the power head on top of the vacuum tank
- Secure the head in place with the tank draw latches

4. Activate the HEPA Filter Timer
- The HEPA Timer Card is attached to the Power Head
- Follow the directions on Timer Card to activate

5. Fill the Tank with Water
- Ensure that the gate valve in the lower compartment is closed by pushing the valve plunger handle in
- Connect a garden hose to the water inlet directly above the vacuum inlet
- Turn the water on
- Open the ball valve on the water inlet to begin filling
- Close the ball valve and disconnect the hose when the water level reaches the Fill Line on the Barracuda sight window

6. Water Level Sensor
- Ensure That the Water Level Sensor Cable is Connected from the Tank to the Power Head

7. Power Switch
- Set the Power Switch to the Off Position

COMPRESSED AIR FITTINGS

The vacuum has the following Compressed Air Requirements to function properly.
- Compressed air must be clean, dry, and oil free to prevent blockage of the pneumatic system
- Compressed air line and fittings must have a minimum diameter of 1/4in (7mm)

Compressed Air Plug (air in)
- The Vacuum is supplied with a 1/4in (7mm) industrial interchange compressed air plug for connection to your compressed air supply

The Compressed Air Plug may be changed to another nominal 1/4in (7mm) style if required.
- Hold the brass bulkhead fitting with a 1in (26mm) open end wrench
- Remove the compressed air plug with either a 9/16in (15mm)deep socket or 9/16in (15mm)open end wrench
- Install a new compressed air plug

Compressed Air Coupler (air out)
- The Vacuum is supplied with two 1/4in (7mm) brass high flow compatible industrial interchange compressed air couplers
- This coupler provides convenient pass through compressed air for an air tool connected to the vacuum

The Compressed Air Coupler may be changed to another nominal 1/4in (7mm) style if required.
- Hold the brass bulkhead fitting with a 1in (26mm) open end wrench
- Remove the compressed air coupler with a 3/4in (19mm) open end wrench
- Install a new compressed air coupler

PNEUMATIC TOOL SYNC

1. Principle of Operation

Pneumatic tool sync senses the flow of compressed air to a connected tool and activates the vacuum

- When the compressed air tool is activated, the compressed air line pressure closes a pneumatic electric relay which activates the power head
- The auto system pressure in the relay is approximately 90 psi while the tool is running
- When the compressed air tool is deactivated the pressure will bleed down to 0 psi, at a rate based on the adjustment of the Shutoff Delay Valve
- When the tool sync pressure reaches approximately 15 psi the relay opens and deactivates the power head
- The tool sync pressure gauge helps the user visualize the time delay by displaying the pressure in the pneumatic electric relay as it changes from 90 psi to 0 psi

2. Requirements

- A compressed air supply must be connected to the compressed air in plug on the power head
- The tool must draw its compressed air from the compressed air out coupler on the power head
- Compressed air must be clean, dry, and oil free to prevent blockage of the pneumatic system
- Compressed air line and fittings must have a minimum diameter of 1/4in

3. Attach the Compressed Air Line

- Ensure that the power switch on the vacuum is in the off position
- Connect the compressed air line to a compressed air source
- Connect the compressed air line to the compressed air in plug on the vacuum

4. Attach the Compressed Air Tool

- Ensure that the power switch on the vacuum is in the off position
- Connect the tool compressed air line to the compressed air out coupler on the power head
- Connect the tool compressed air line to the compressed air plug on the tool

5. Testing Pneumatic Tool Sync

- Toggle the power switch to the Auto position
- Activate the air tool
- The power head will activate
- Deactivate the air tool
- The vacuum will deactivate after a short delay

6. Adjusting the Pneumatic Tool Sync Shutoff Delay

The Shutoff Delay is factory set to approximately 5 sec

- Loosen the jam nut
- Turn the Shutoff Delay valve clockwise until it stops.
- Toggle the power switch to the Auto position.
- Activate the air tool
- The vacuum will power on
- Deactivate the air tool
- The vacuum will remain running
- Slowly turn the Shutoff Delay valve counterclockwise until the Tool Sync Pressure Gauge begins to drop
- When the Tool Sync Pressure reaches approximately 15 psi the relay opens and deactivates the power head

- Continue to test Pneumatic Tool Sync by activating the compressed air tool
- Adjust the Shutoff Delay Valve until the pressure bleeds down as slow or as fast as required using the tool sync pressure gauge as a guide

BEFORE EACH USE

1. Visually inspect vacuum to ensure that no parts are missing or damaged

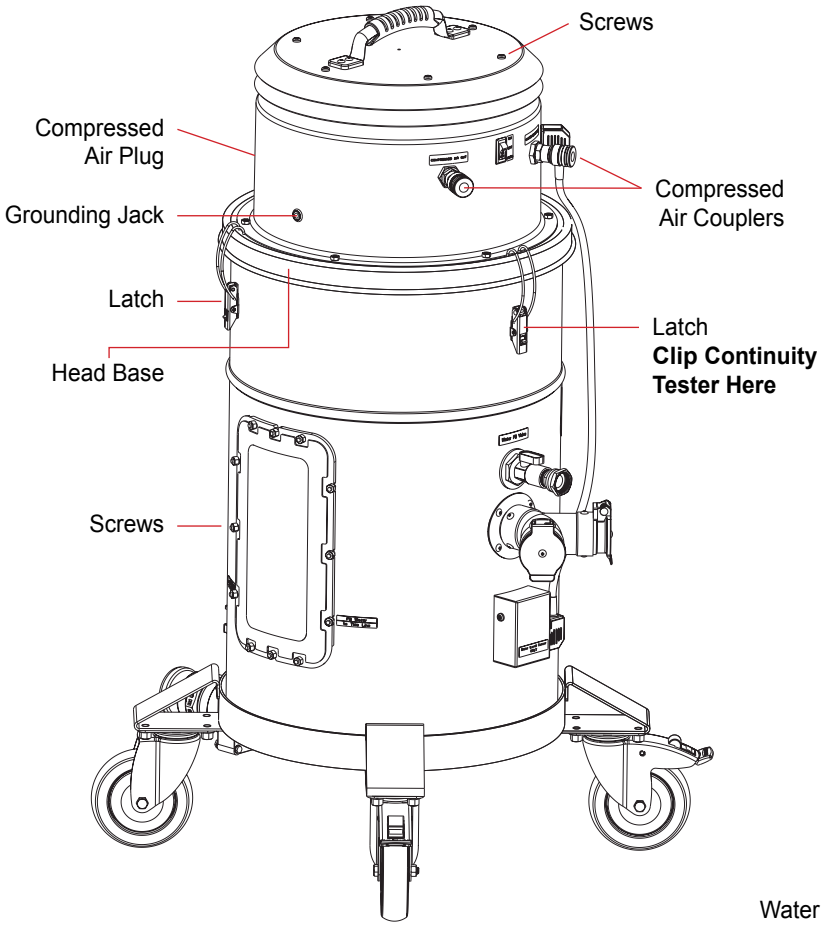
2. BONDING AND GROUNDING

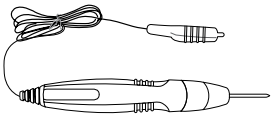
- *This is required only if the vacuum will be used in the presence of combustible dust*
- To ensure safe operation, all conductive parts of the vacuum should be electrically bonded

Use the included continuity tester; check the vacuum for bonding before each use

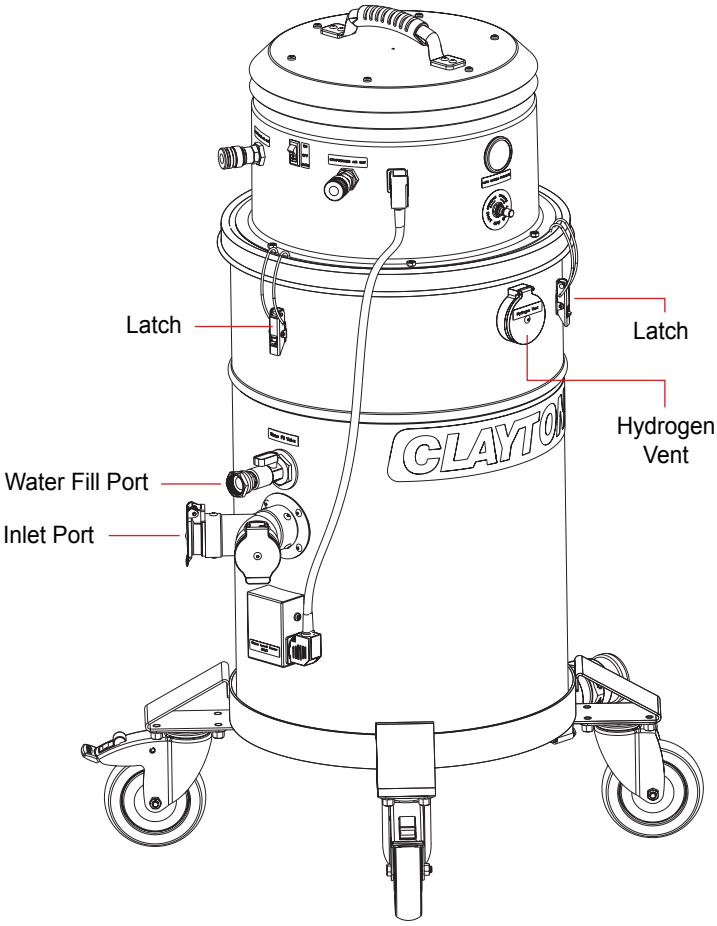
- Connect the alligator clip of the continuity tester to one of the latches (see below)
- Using the continuity test probe, touch the designated points on the bonding diagram belowz to test for continuity

⚠ **Warning: Do not use this equipment in a classified environment if any test points do NOT pass the continuity test.**





Continuity Tester



BEFORE EACH USE

1. Connect Power Cord to 20A Grounded Outlet
• Always inspect cord and plug for damage before using

2. Ensure that the water level sensor cable is connected to the tank and power head

3. Check Water Level
• Ensure that the water level is visible at the line on the sight window before each use
• Failure to maintain the correct water level can result in equipment malfunction, fire, or explosion

4. Water Level Safety Interlock
• The immersion separator employees a safety interlock to ensure adequate water level
• When the water level falls below a predetermined level the vacuum will shut off automatically

5. Attach the Vacuum Hose (optional)
• Open the Vacuum Inlet
• Insert the metal sleeve of the vacuum hose into the inlet on the vacuum
• Attach preferred cleanup tool to opposite end of vacuum hose

6. Attach a Combination Air/Vac Hose (optional)
• Open the Vacuum Inlet
• Insert the metal sleeve of the vacuum hose into the inlet on the vacuum
• Connect the compressed air line to the compressed air coupler on the vacuum
• Attach the opposite end to your sander, grinder, or other tool

7. Attach the Compressed Air Line (optional)
• Ensure that the power switch on the vacuum is in the off position
• Connect the compressed air line to a compressed air source
• Connect the compressed air line to the compressed air plug on the vacuum
• Attach the opposite end to your sander, grinder, or other tool

8. Activating the Vacuum

Pneumatic Tool Sync Mode
This vacuum is equipped with Pneumatic Tool Sync (Auto Mode) which activates the vacuum automatically when a compressed air tool is activated. The pass through compressed air connection is required for Pneumatic Tool Sync operation.
• Toggle the Power Switch to the Auto Position for Pneumatic Tool Sync

Manual On/Off Mode
This vacuum is equipped with Manual Mode (ON Mode) which activates the vacuum when the switch is set to ON
• Toggle the Power Switch to the ON Position

MAINTENANCE

1. Water Level
• Check water level in tank periodically during operation. With vacuum off, the water level should be at the Fill Line
• If water level drops below the Fill Line, turn the system off and refill the tank

2. When to Change the Water
• When the water in the tank appears dirty and discolored, empty and refill the vacuum
• If the vacuum is used for the collection of combustible metals or dust, the water should be emptied at the end of each shift
• At a minimum, the water should be emptied once per day
• When not in use, the vacuum should be stored with the tank empty and the gate valve open to allow air circulation

3. Changing the Water Using a Filter Sock
• Turn the vacuum power switch to the OFF position and disconnect from power
• Slide a filter sock over the drain spout in the lower compartment of the tank
• Use the spring clamp to lock the filter onto the spout
• Position the tank over a floor drain
• Grasp the handle of the gate valve and pull it away from the unit to open. Water and debris will flow into the filter sock
• When the tank is empty, connect a garden hose to the water inlet and open the ball valve to start water flowing
• Let water run through the system for approximately 60 seconds. The spray heads will thoroughly rinse the tank interior
  • If the system is going to be stored, turn the water off and leave the gate valve open to ensure the tank is fully drained
  • If the system is going back into use, close the gate valve and let the water continue to flow until the water level reaches the Fill Line
• Remove the filter sock and discard

4. Changing the Water Using a Drain Hose
• Turn the vacuum power switch to the OFF position and disconnect from power
• Connect the drain hose to the drain spout
• Position the tank near a floor drain. Place the end of the hose over the floor drain.
• Grasp the handle of the gate valve and pull it away from the unit to open.
• When the tank is empty, connect a garden hose to the water inlet and open the ball valve to start water flowing
• Let water run through the system for approximately 60 seconds. The spray heads will thoroughly rinse the tank interior
  • If the system is going to be stored, turn the water off and leave the gate valve open to ensure the tank is fully drained
  • If the system is going back into use, close the gate valve and let the water continue to flow until the water level reaches the Fill Line
• Remove the drain hose or coil it and store in the lower portion of the tank

5.Coalescing Filter Cleaning and Maintenance
• It is recommended to clean the coalescing filter after every 30 uses of the vacuum
• It is recommended to replace the coalescing filter every two years
• Turn the vacuum power switch to the OFF position and disconnect from power
• Unlatch the power head and remove from the tank
• Remove the tank gasket by peeling it up and away from the tank rim
• Grasp the coalescing filter by the steel frame, and pull it up and out of the tank
• Rinse the filter thoroughly with water to remove any debris

HYDROPHOBIC HEPA FILTER CHANGE

If this vacuum is used to collect hazardous material, appropriate personal protective equipment may be required.

The Hydrophobic HEPA Filter cannot be cleaned. The filter should be replaced when it is damaged, clogged, or when the HEPA timer card has reached 12 months.

1. Safe the Vacuum
• Disconnect the Vacuum from power source

2. Remove the Power Head
• Unlatch the Power Head from the tank
• Lift the Power Head and attached HEPA filter off the tank by the top handle
• Carefully sit the Power Head on the floor - avoid damaging the HEPA filter

3. Unbox a new HEPA Filter
• Remove the Clayton HEPA Timer Card from the box and set aside
• Remove the HEPA Cable Lock from the box and set aside
• Remove the HEPA Filter from the box and remove from plastic bag

4. Remove the HEPA Filter
• Holding the Power Head on its side cut the HEPA Cable Lock and remove
• Unscrew the HEPA Filter
• Dispose of the HEPA Filter according to your company policy

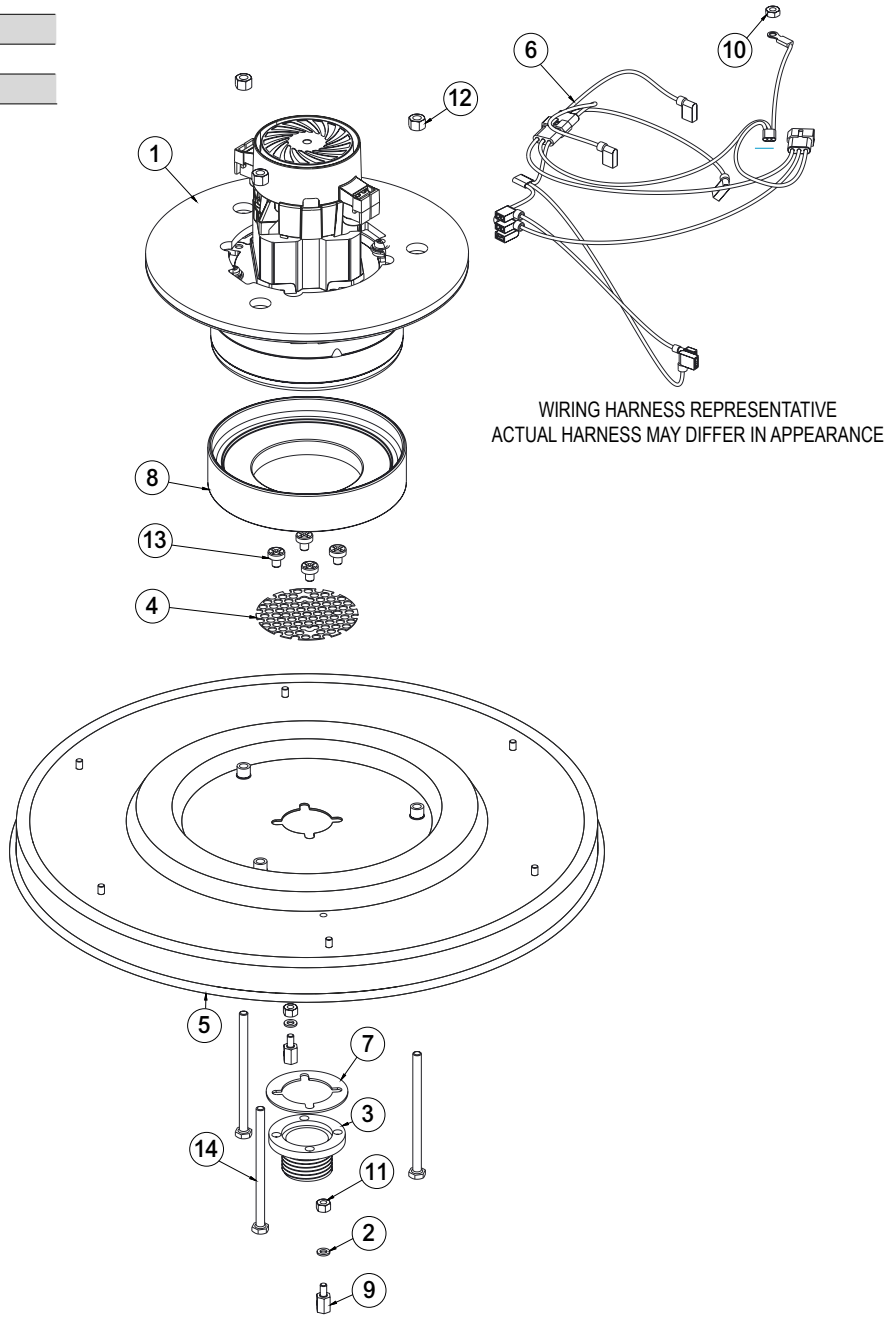
5. Install a new HEPA Filter
• Holding the power head on its side, screw the new HEPA Filter onto the threaded nipple
• Ensure the white inner ring of the HEPA Filter is in contact with the underside of the power head
• If it is not, turn it clockwise until it comes in contact with the underside of the power head
• See the instructions included with the HEPA Cable Lock

6. Replace the Power Head
• Sit the Power Head on the tank
• Rotate the Power Head so that the switch on the Power Head is in line with the inlet port on the vacuum tank
• Latch the Power Head to the tank

7. Activate the HEPA Filter Timer
• Remove the old HEPA timer card from the power head
• Attach the new HEPA timer card with a zip tie (included) to the top handle of the vacuum
• Follow the directions on Timer Card to activate

603-CMP-0

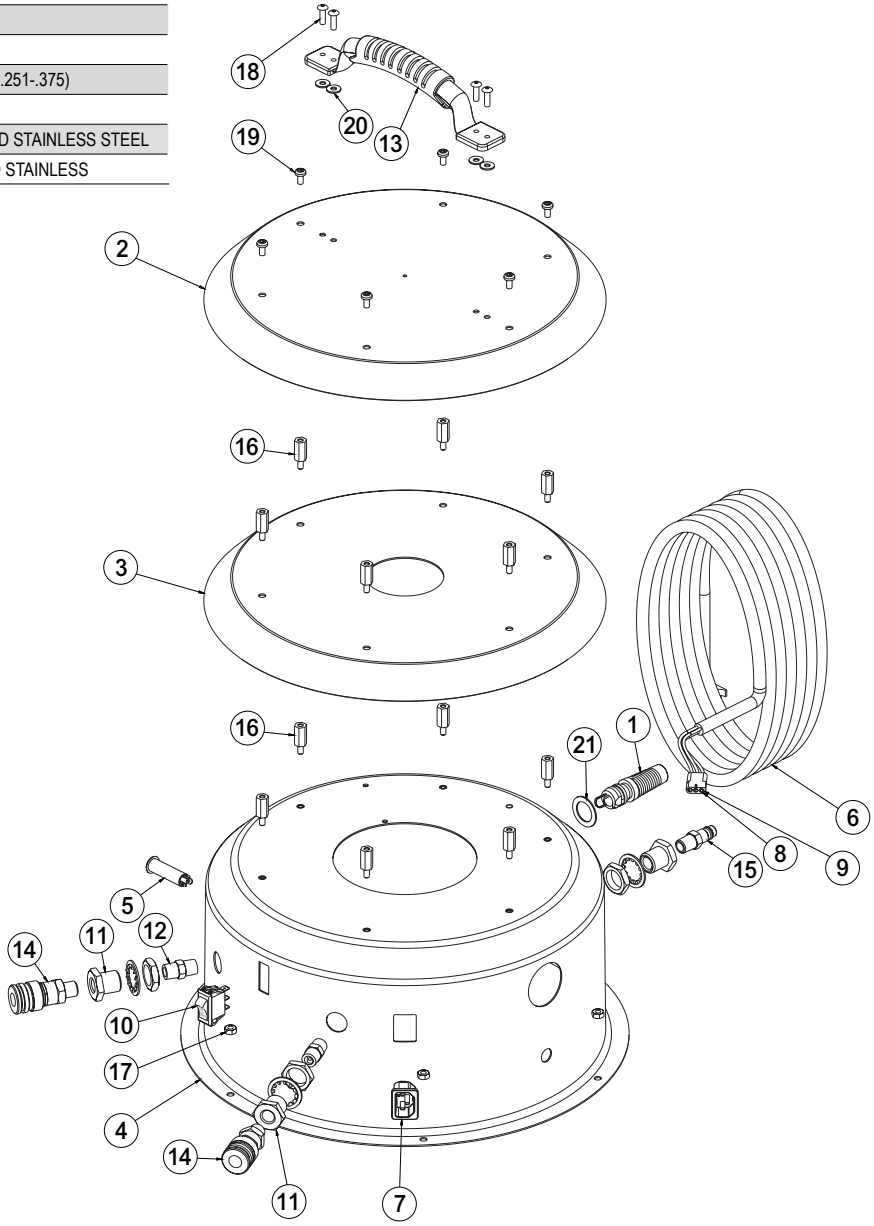
SEQ	ITEM NO	DESCRIPTION
1	600-A108-120	MOTOR ASSEMBLY 120V
2	600-WF-1364F	WASHER FIBER 13/64 ID X 3/8OD
3	601-021	FILTER ADAPTER, WARTHOG
4	601-121	MESH DISC, 3 IN DIAMETER
5	605-311B16	HH VAC HEAD BASE 16IN SS
6	900-WH004	WIRING HARNESS, WGP PNEUMATIC RELAY
7	911-011	GASKET, FILTER ADAPTER
8	911-Q6600-220T	CONICAL MOTOR GASKET SILICA GEL
9	FE103208-HZSM-B	HEX STANDOFF, 10-32 MF X 1/2 SS WITH BORE
10	NE10320608-HNSZ	NUT 10-32 NYLON LOCK SS SHORT
11	NE10320615-HNSZ	NUT, 10-32 NYLON LOCK, SS, HIGH
12	NE16201420-HNSZ	NUT 1/4-20 HEX LOCK SS
13	SE162005-PPSM-Z	SCREW, 1/4-20 X 5/16 PH, SS
14	SE162064-HHSM-Z	SCREW 1/4-20 X 4IN SS HEX



WIRING HARNESS REPRESENTATIVE
ACTUAL HARNESS MAY DIFFER IN APPEARANCE

603-CMP-0

SEQ	ITEM NO	DESCRIPTION
1	350-023	STRAIN RELIEF FOR 20 AMP CORD
2	605-310A	HH VAC HEAD HANDLE CAP SS BLACK
3	605-310D	HH VAC HEAD EXHAUST BAFFLE SS BLACK
4	605-319E	CMP VAC ENCLOSURE MINI-CUDA AUTO AIR 120V SS BLACK
5	900-019	GROUNDING JACK 1/4IN X 1.6IN BLACK
6	900-143N515P-30	CORD 14/3 15A CORD LOCK PLUG 30FT YEL
7	900-C13R	AC POWER MODULE, C13 SNAP IN 1-1/2MM
8	900-M14R3	MOLEX RECEPTACLE, 14 GA, 3 POSITION
9	900-M14S	MOLEX SOCKET TERMINAL, 14 GA
10	900-SW-SPDT-01	SWITCH ROCKER RECT 20A 120V SPDT ON-OFF-ON BLACK
11	918-04BH	BULKHEAD ADAPTER, BRASS, 1/4IN.
12	924-04CV	CHECK VALVE, 1/4 MNPT
13	930-027	HANDLE, CARRY, FLEX RUBBER
14	940-011	FITTING COUPLER 1/4IN HIFLOW X 1/4 MNPT
15	940-016	FITTING PLUG 1/4IN HIFLOW X 1/4IN MNPT
16	FE103212-HZSM-Z	HEX STANDOFF, 10-32 MF X 3/4 IN SS
17	NE10320608-HNSZ	NUT 10-32 NYLON LOCK SS SHORT
18	RE0620-SDSSS-Z	RIVET BLIND 3/16 X 0.625 SEALED SS (.251-.375)
19	SE103206-XPSM-Z	SCREW 10-32 X 3/8IN SS TORX
20	WE133203-RFS-Z	WASHER .203ID X .500OD .047H ROUND STAINLESS STEEL
21	WE481804-RZSZ	SHIM .750 ID X 1.125 OD X .062 ROUND STAINLESS



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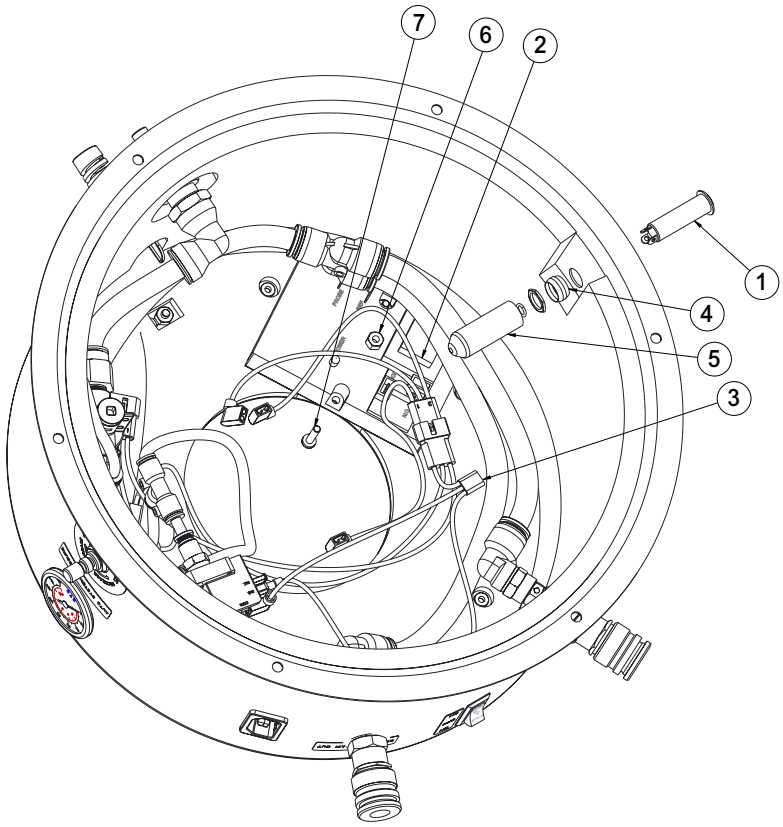
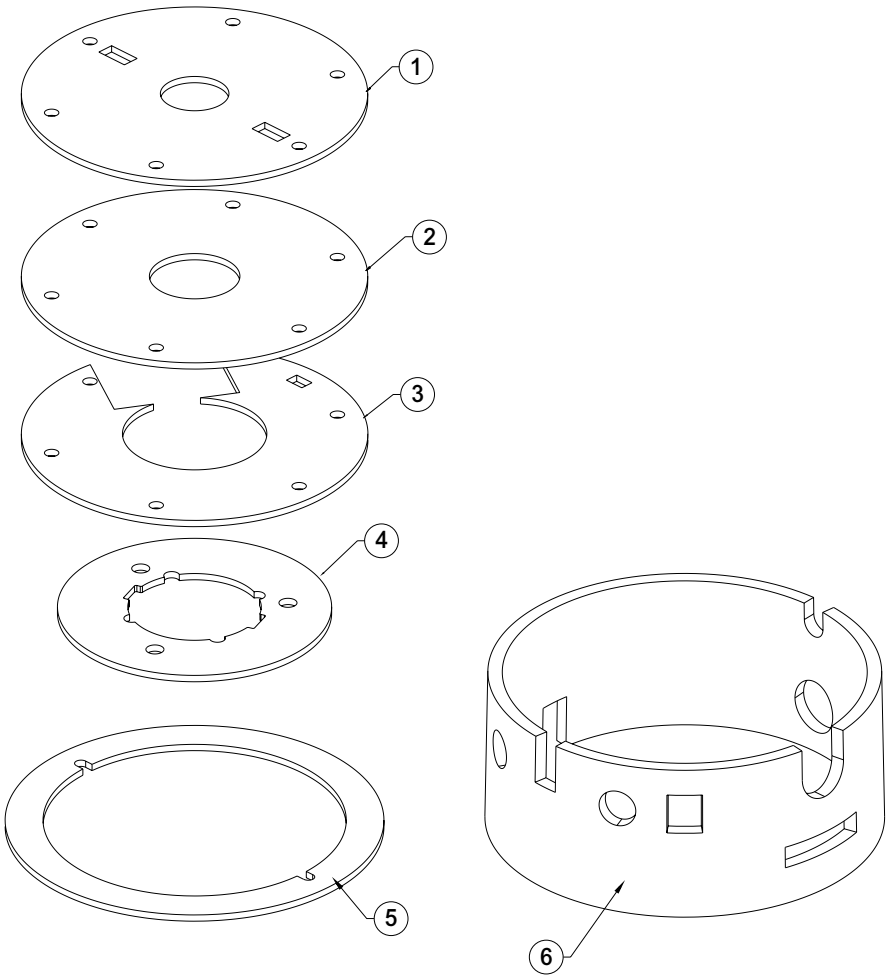
SEQ	ITEM NO	DESCRIPTION
1	900-019	GROUNDING JACK 1/4IN X 1.6IN BLACK
2	900-SW-SPST-02	SWITCH ELECTRIC RELAY WATER LEVEL 30A 120V
3	900-WH004	WIRING HARNESS, WGP PNEUMATIC RELAY
4	918-08CS	COMPRESSION SLEEVE 1/2IN BRASS
5	945-HSEC08X3BK	HEAT SHRINK END 1/2IN
6	NE08321115-HNSZ	NUT 8-32 X 11/32 LOCK NYLON SS
7	SE083212-PPSM-Z	SCREW, PPH, .164-32 X .750 LONG



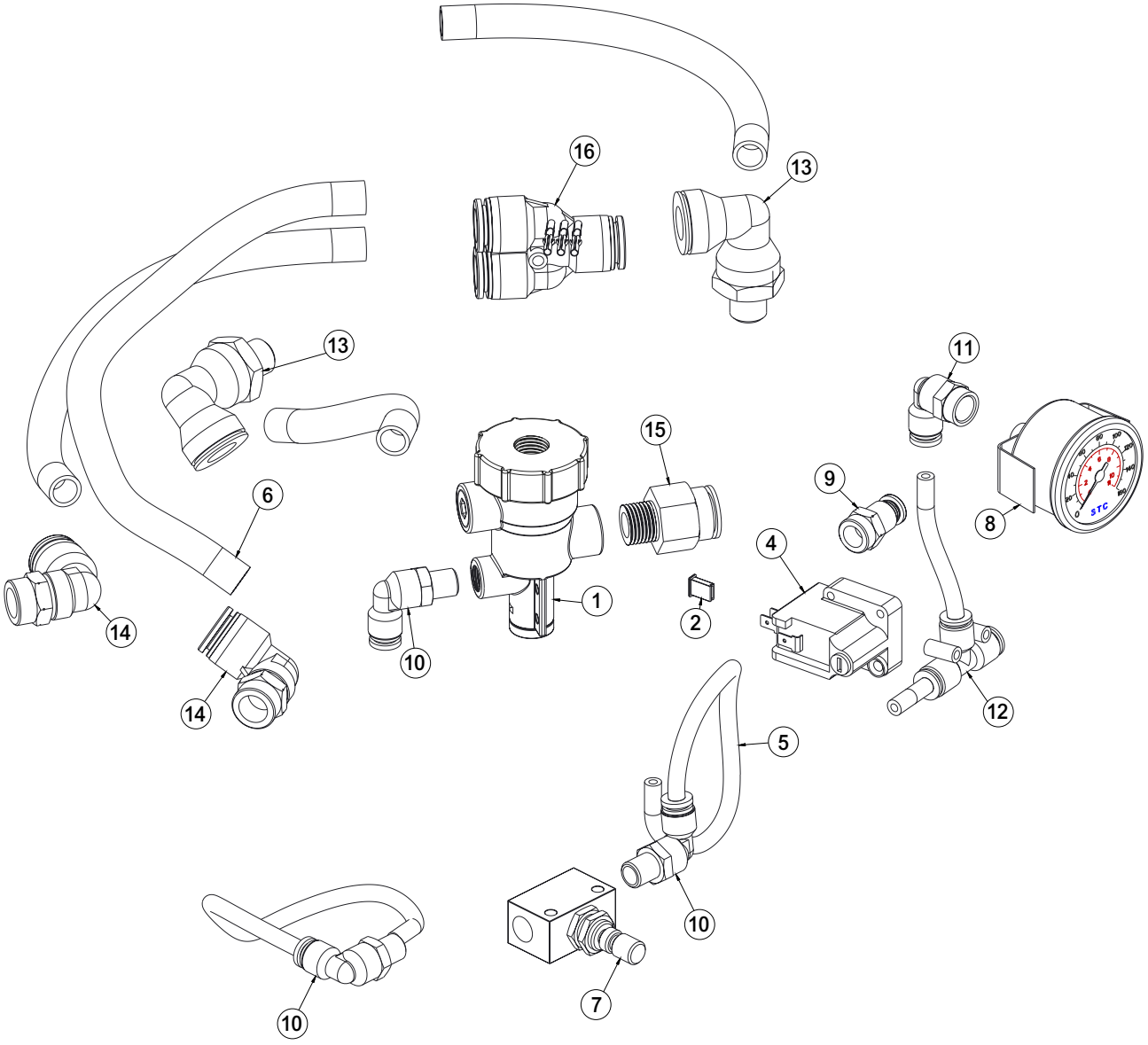
603-CMP-0

SEQ	ITEM NO	DESCRIPTION
1	911-803-1	HANDLE CAP SOUND CONTROL FOAM
2	911-803-2	EXHAUST BAFFLE SOUND CONTROL FOAM
3	911-803-3	ENCLOSRE TOP SOUND CONTROL FOAM
4	911-803-5	MOTOR PLATE SOUND CONTROL FOAM
5	911-803-4	BASE RING SOUND CONTROL FOAM
6	911-803-6	ENCLOSURE FOAM 1 SOUND CONTROL
6	911-803-7	ENCLOSURE FOAM 2 SOUND CONTROL
6	911-803-8	ENCLOSURE FOAM 3 SOUND CONTROL



603-CMP-0

SEQ	ITEM NO	DESCRIPTION
1	600-A276T	AUTO SYSTEM FLOW SENSOR VALVE THREADED
2	900-033	FASTON CAP .187 TAB
3	900-M14S	MOLEX SOCKET TERMINAL, 14 GA
4	900-SW-SPST-03	SWITCH PNEUMATIC RELAY 100PSI 15A 120V
5	922-T.25GN	1/4 IN OD. NYLON TUBING GREEN
6	922-T.50BK	TUBING, 1/2 OD, HIGH TEMP PER FT
7	924-04FC-01	ALPHA FLOW CONTROL VALVE
8	925-P24R160-01	GAUGE PRESSURE 1.5IN 0-160 PSI PANEL MOUNT
9	927-04FA-02	FEMALE ADAPT, 1/4 PC X 1/8 FNPT
10	927-04L-02	PC ELBOW 1/8 MNPT X 1/4 TUBE
11	927-04L-02F	FTG ELBOW 1/8 FNPT TO 1/4 PC
12	927-04T	TEE, 1/4 PC
13	927-08L-04	FTG ELBOW 1/2 PC TO 1/4 MNPT
14	927-08L-04F	FTG ELBOW 1/2PC TO 1/4FNPT
15	927-08MA-04	1/2 PC X 1/4 MPT STRAIGHT FTG
16	927-08Y	UNION Y, 1/2PC



LIMITED LIFETIME WARRANTY TERMS AND CONDITIONS

Warranty Terms
Clayton Associates, Inc. guarantees its manufactured products against defects in materials or workmanship and will either repair or replace all parts that prove defective under normal use during the lifetime of the products. The warranty period shall commence from the date of paid invoice.

This warranty does not cover (a) repairs due to normal wear, accident, neglect, misuse, or use other than as indicated in the instruction booklet (b) products manufactured by third parties and distributed by Clayton (c) wear items such as bearings, rotor blades, regulators, valve stems, levers, shrouds, guards, O-rings, seals, gaskets, motor brushes, and other wearable parts.

Repair within the Continental US
During the first 90 days of the warranty period, Clayton will provide parts and labor to the customer's site at no charge or pay freight costs associated with returning the products for repair to a Clayton selected service location and repair the product at no charge. Clayton personnel will determine the best way to repair the product.

Past 90 days, Clayton will provide parts to the customer's site at no charge or the customer may ship the product to a Clayton selected service location at customer's expense and Clayton will repair the product at no charge and provide return shipping.

Repair Outside the Continental US
Clayton will provide parts to the customer's site at no charge or the customer may ship the product to a Clayton selected service location at customer's expense and Clayton will repair the product at no charge and provide return shipping.

Limitation of Liability
Clayton shall not in any event be liable for any damages, loss of production time or profits, whether based on contract, warranty, negligence, strict liability or otherwise, including without limitation any consequential, incidental or special damages, arising with respect to the equipment or its failure to operate.

Clayton Associates, Inc. makes no other warranty or representation of any kind, except that of title, and all other warranties, express or implied, including warranties of merchantability or fitness for any particular purpose, are hereby expressly disclaimed.

CLAYTON

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