

EcoQuip 2™ Vapor Abrasive Blast

System

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EN

Vapor abrasive blast system for coating removal and surface preparation. For professional use only.

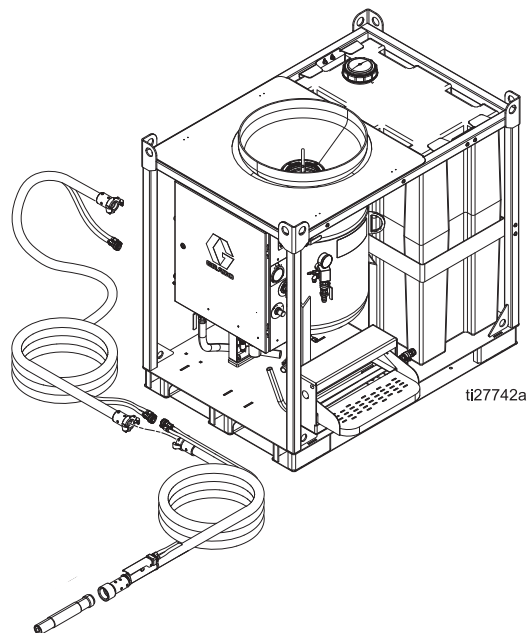


Important Safety Instructions

Read all warnings and instructions in this manual. Save these instructions.

*175 psi (12.06 bar, 1.2 MPa) Maximum
Working Pressure*







*See page 3 for Models and approval
information.*



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Models



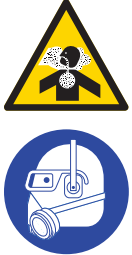
System	Model	Description	Approvals/Emissions
Mobile	262950	EcoQuip2 EQm Vapor Blast System	CE
	262954		CE  II 2G c ia IIA T3 X
Custom / OEM	273200	EcoQuip2 EQc Vapor Blast System	CE
	273209		CE  II 2G c ia IIA T3 X
	273204	EcoQuip2 EQc Elite Vapor Blast System	CE
	273210		CE  II 2G c ia IIA T3 X
Standard Skid	262960	EcoQuip2 EQs Vapor Blast System	CE
	262964		CE  II 2G c ia IIA T3 X
Elite Skid	262970	EcoQuip2 EQs Elite Vapor Blast System	CE
	262974		CE  II 2G c ia IIA T3 X
Twinline	262980	EcoQuip2 EQs2 Elite Vapor Blast System	CE
	262984		CE  II 2G c ia IIA T3 X
Trailer	262990	EcoQuip2 EQ200T Elite Vapor Blast System	T4i
	262993	EcoQuip2 EQ400T Elite Vapor Blast System	T3
	262996		T4i

Related Manuals

Manual Number	Product
313840	DataTrak™
333397	Pump
335035	Air Inlet Kit
309474	Water Pressure Regulator
3A3470	Hose Rack Kit
3A3838	Nozzle Pressure Verification Kit
3A3839	Nozzle Extension Handle Kit
3A3970	Water Dose Kit
3A3971	Mobile Water Tank Kit

Warnings

The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual or on warning labels, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.

 WARNING	
	SPECIAL CONDITIONS FOR SAFE USE (ATEX systems only) <ul style="list-style-type: none"> • Ground all equipment in the work area. See Grounding Instructions. • All label and marking material must be cleaned with a damp cloth (or equivalent).
	DUST AND DEBRIS HAZARD <p>Use of this equipment can result in the release of potentially harmful dust or toxic substances from the abrasive being used, the coatings being removed, and the base object being blasted.</p> <ul style="list-style-type: none"> • For use only by sophisticated users familiar with applicable governmental safety and industrial hygiene regulations. • Use equipment only in a well-ventilated area. • Wear a properly fit-tested and government approved respirator suitable for the dust conditions. • Follow local ordinances and/or regulations for disposal of toxic substances and debris.



WARNING



EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.








- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Specifications** in all equipment manuals.
- Do not use this equipment without hose restraints and coupler pins installed on all air and blast hose couplings.
- Do not blast unstable objects. The high amount of fluid flow from the nozzle can potentially move heavy objects.
- Do not exceed load rating of lift eyes.
- Do not operate equipment on or stand on an unstable support. Keep effective footing and balance at all times.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Specifications** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request Safety Data Sheets (SDSs) from distributor or retailer.
- Do not leave the work area while equipment is energized or under pressure.
- Turn off all equipment and follow the **Pressure Relief Procedure** when equipment is not in use.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine manufacturer's replacement parts only.
- Do not alter or modify equipment. Alterations or modifications may void agency approvals and create safety hazards.
- Make sure all equipment is rated and approved for the environment in which you are using it.
- Use equipment only for its intended purpose. Call your distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.



BURN HAZARD

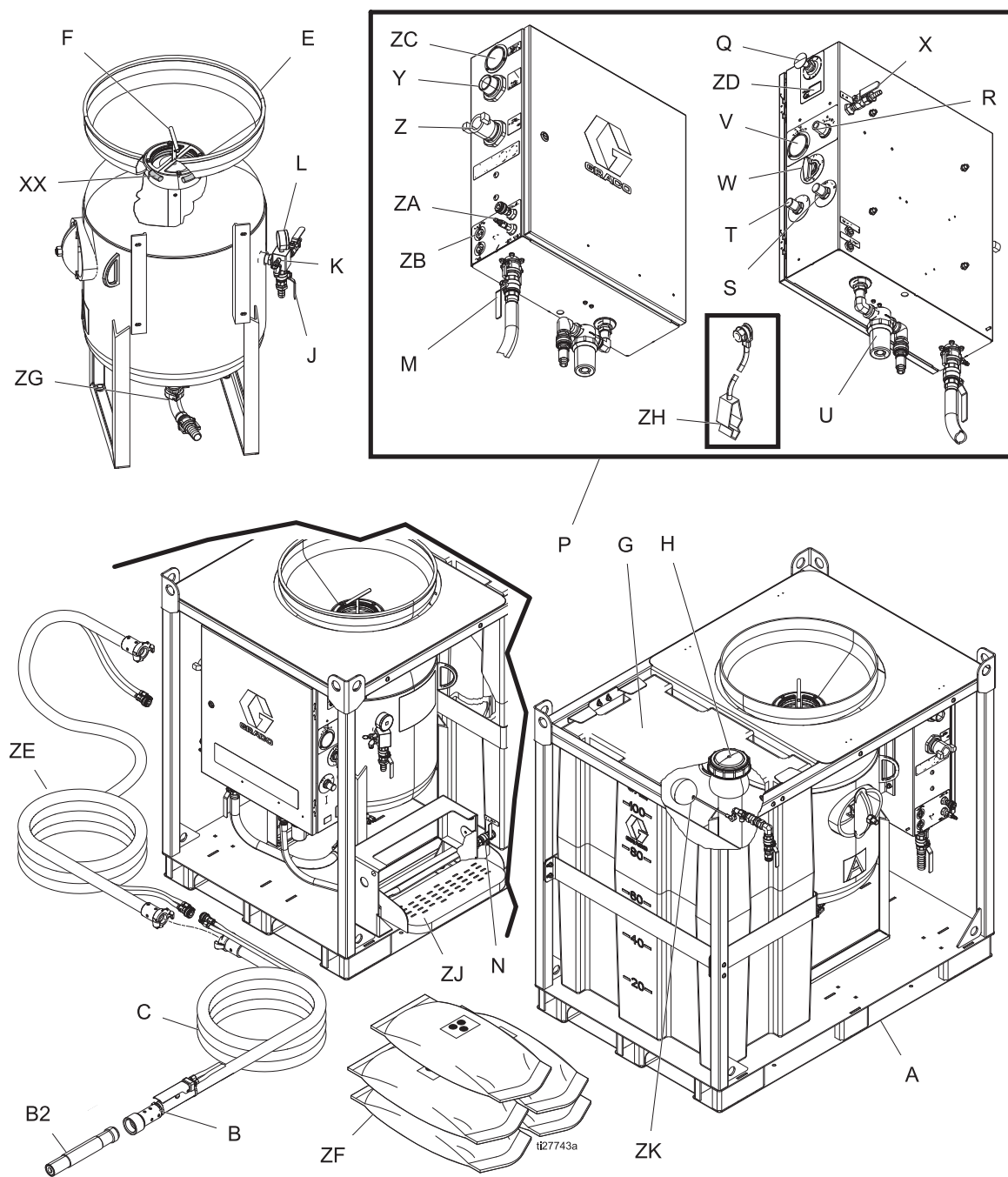
Equipment surfaces and fluid that is heated can become very hot during operation. To avoid severe burns:

- Do not touch hot fluid or equipment.

 WARNING	
 	FIRE AND EXPLOSION HAZARD <p>Flammable fumes, such as solvent, in work area can ignite or explode. To help prevent fire and explosion:</p> <ul style="list-style-type: none"> • Use equipment only in well ventilated area. • Abrasive material exiting blast nozzle can generate sparks. When flammable liquids are used near the blast nozzle or for flushing or cleaning, keep the blast nozzle at least 20 feet (6 meters) away from explosive vapors. • Ground all equipment in the work area. See Grounding instructions (ATEX systems only). • Keep work area free of debris, including solvent, rags and gasoline. • Keep a working fire extinguisher in the work area.
 	MOVING PARTS HAZARD <p>Moving parts can pinch, cut or amputate fingers and other body parts.</p> <ul style="list-style-type: none"> • Keep clear of moving parts. • Do not operate equipment with protective guards or covers removed. • Pressurized equipment can start without warning. Before checking, moving, or servicing equipment, follow the Pressure Relief Procedure and disconnect all power sources.
	PERSONAL PROTECTIVE EQUIPMENT <p>Wear appropriate protective equipment when in the work area to help prevent serious injury, including eye injury, hearing loss, inhalation of toxic fumes, and burns. Protective equipment includes but is not limited to:</p> <ul style="list-style-type: none"> • Protective eyewear and hearing protection • Protective clothing, shoes, and gloves • Properly fit-tested and government approved respirator suitable for the dust conditions
	RECOIL HAZARD <p>Blast nozzle may recoil when triggered. If you are not standing securely, you could fall and be seriously injured.</p>

Notes

System Component Identification



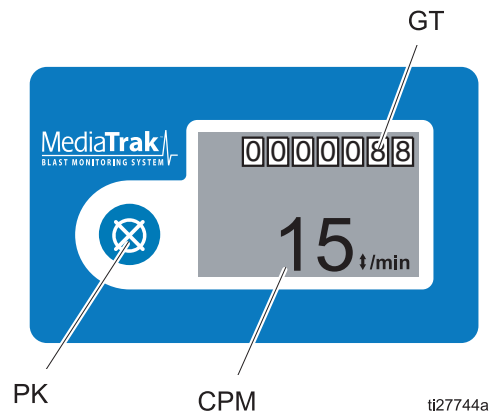
Key:

A	Frame
B	Blast Control Switch
B2	Blast Nozzle
C	Blast Hose
E	Pot
F	Pop-up Handle
G	Water Tank
H	Water Tank Lid
J	Pot Dump Valve
K	Pressure Relief Valve
L	Pot Pressure Gauge
M	Abrasive Ball Valve
N	Inlet Ball Valve (water)
P	Control Box
Q	Emergency Stop
R	Blast Air Regulator
S	Water Dose Valve
T	Abrasive Metering Valve
U	Water Pump Inlet Filter

Key:

V	Blast Air Pressure Gauge
W	Selector Valve
X	Rinse Ball Valve
Y	Air Supply Connection
Z	Blast Connection
ZA	Pneumatic Control Connection
ZB	Electric Control Connection (non-ATEX systems only)
ZC	Supply Pressure Gauge
ZD	MediaTrak
ZE	Accessory Extension Hose
ZF	Abrasive Material
ZG	Pot Outlet Manifold
ZH	Ground Wire and Clamp (ATEX systems only)
ZJ	Step
ZK	Float Valve
XX	Pop-Up Seal

MediaTrak Controls



Key:

PK	Power Key
CPM	Cycle/Rate
GT	Grand Totalizer

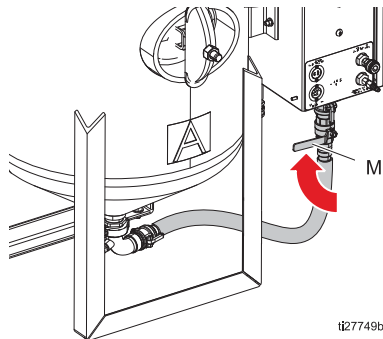
Pressure Relief Procedure



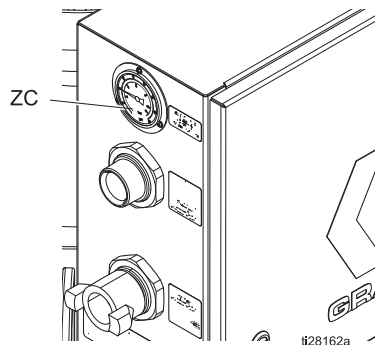
Follow the Pressure Relief Procedure whenever you see this symbol.

<p>This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as splashing fluid, follow the Pressure Relief Procedure when instructed.</p>			

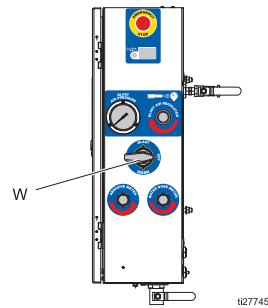
1. Close the abrasive ball valve (M).



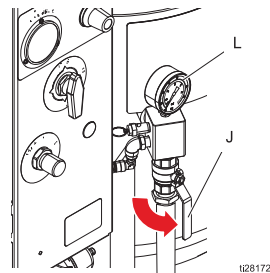
2. Close the compressor supply air valve, then turn the compressor off.
3. Engage the blast control switch (B) to relieve pressure in the system.
4. Verify that the supply pressure gauge (ZC) reads 0 psi. Then disconnect the air inlet hose from the system.



5. Turn the selector valve (W) to OFF.



6. Open the pot dump valve (J) until the pot pressure gauge (L) reads 0 psi.



Grounding (ATEX systems only)

<p>The equipment must be grounded to reduce the risk of static sparking. Static sparking can cause fumes to ignite or explode. Grounding provides an escape wire for the electric current.</p>				

Systems: Use supplied ground wire and clamp (237686).

Air and fluid hoses: Use only genuine Graco ATEX rated, conductive blast hoses with a maximum of 150 ft (45 m) combined blast hose length to ensure grounding continuity. Check the electrical resistance of the blast hoses. If the total resistance to ground exceeds 29 megohms, replace the blast hose immediately.

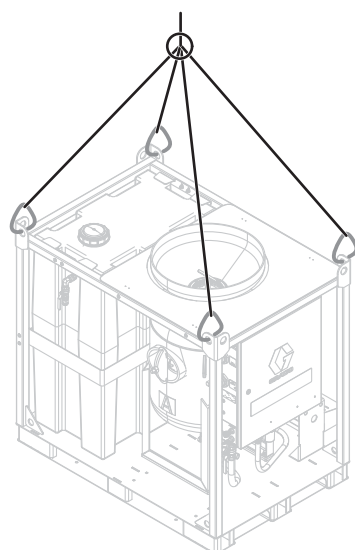
Air compressor: follow manufacturer's recommendations.

Operation

Lifting the System

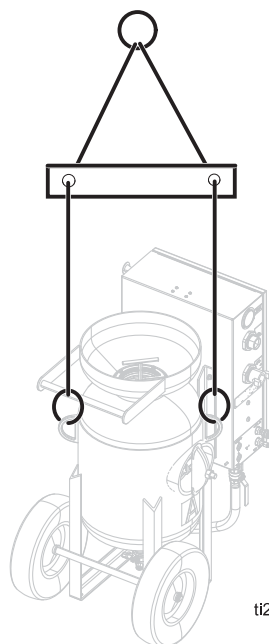
- Lift the system with a lift apparatus rated appropriately for the weight of the system (see [Technical Specifications, page 66](#)).
- Do not lift the system by the handle on the EQm pot.
- Lift the system using the lift eyes shown on the appropriate illustration.

EQs, EQs Elite, and EQs2 Elite Models:



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EQm Models:



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Blast Hose Selection

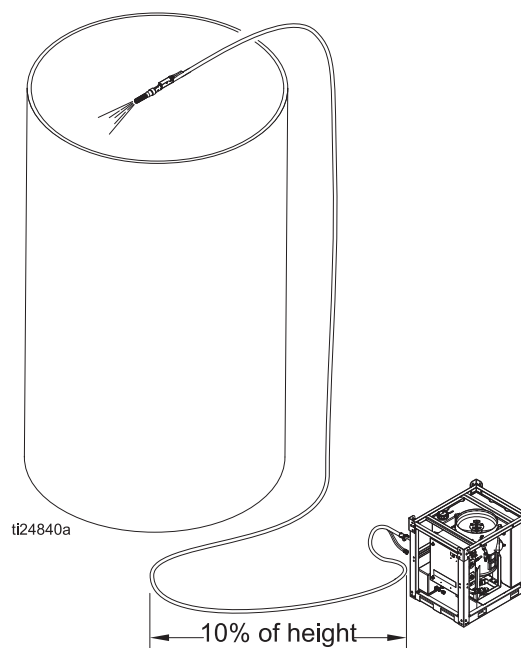
Make sure to use the correct type of blast control. An electric or pneumatic blast control switch can be used with hose lengths less than 150 ft (45 m). Blasting with 150 ft (45 m) or more of blast hose requires the use of an electric blast control switch.

Blasting on Higher Surfaces

NOTICE

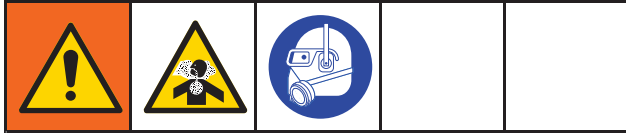
When blasting on a surface higher than the equipment, make sure that there is a length of blast hose on the ground equal to 10-20% of the height. The hose on the ground prevents unspent abrasive in the hose from backing up into the internal plumbing of the panel, which can cause damage to the main air regulator when the blast switch is disengaged.

For example: When blasting 50 feet (15 m) straight up, use at least 10 feet (3 m) of blast hose on the ground before the blast hose goes up to the blasting height.

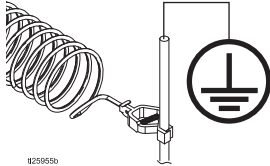


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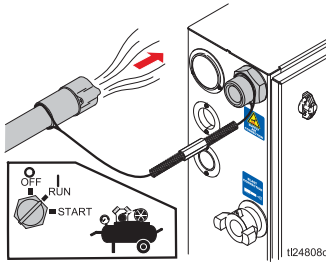
Connecting the Blast Hose and Air Hose



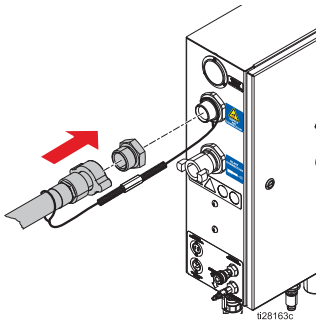
1. **ATEX models only:** Connect the grounding cable to the external ground stud on the enclosure, then connect the clamp to a true earth ground.



2. Always purge the air supply hose for 15–20 seconds before connecting the air supply hose from the compressor (or on-site compressed air source) to the panel. Make sure all debris is cleared from the hose.



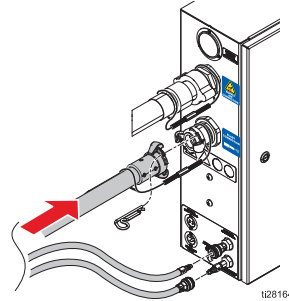
3. Connect an appropriately sized air supply hose to the air inlet and install coupler pins. See [Technical Specifications, page 66](#).



4. Open the compressor air supply valve (175 psi, 12.06 Bar, 1.2 MPa maximum compressor supply).

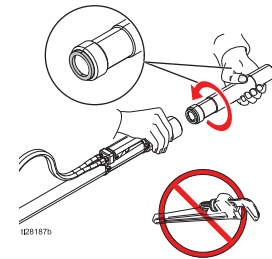
NOTE: Make sure the air supply meets the appropriate air flow requirements (see [Technical Specifications, page 66](#)).

5. Connect the blast hose, hose restraints, control hoses, and coupler pins.

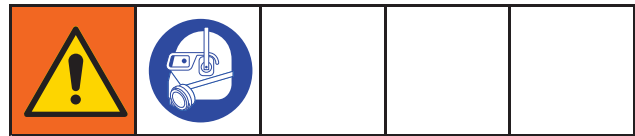


NOTICE

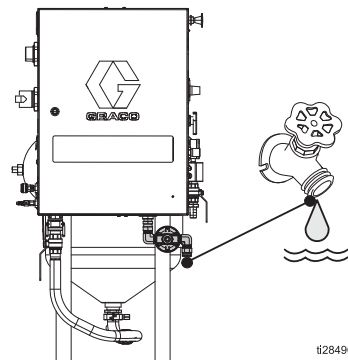
Do not use a wrench when installing the nozzle. Damage to the seal could occur. To avoid seal damage, always hand-tighten the nozzle.



Connecting the Water Hose (EQm and EQs2 Elite only)

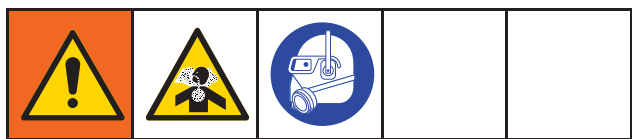


1. Connect to a water supply hose with a minimum ID of 3/4 in. (19 mm) to the garden hose connection on the pump inlet.

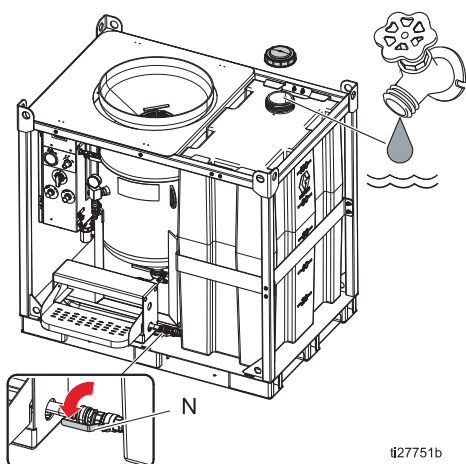


NOTE: The maximum water supply pressure is 100 psi (6.8 bar, 0.68 MPa). The minimum flow requirement is 3 gpm (11 lpm).

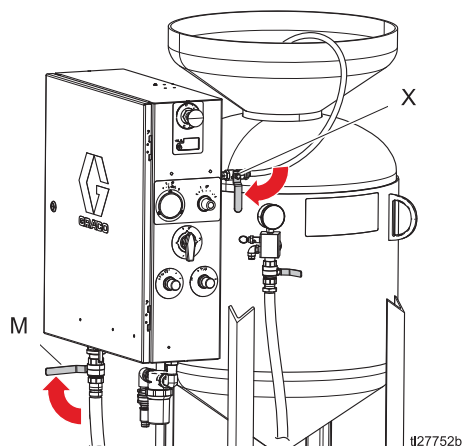
Setting Up the Equipment



1. Fill the water tank with fresh water only, then open the inlet ball valve (N).



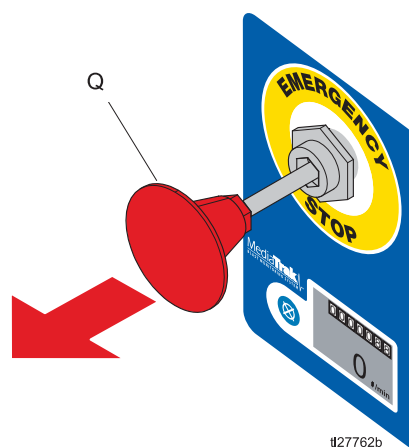
2. Close the rinse ball valve (X) and abrasive ball valve (M). Close the water dose meter (S) if equipped.



3. Turn the selector valve to OFF.

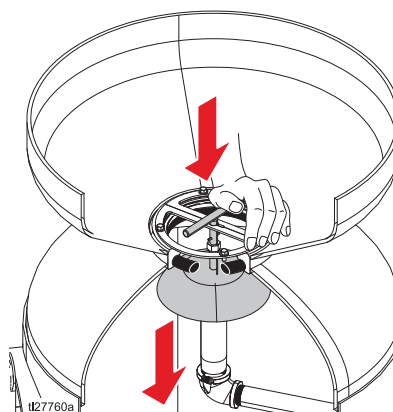


4. Disengage the emergency stop (Q).



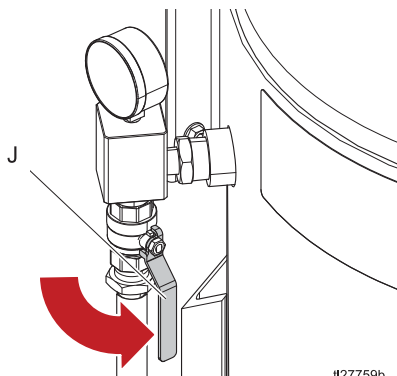
NOTE: The water pump will not work unless the Emergency Stop is disengaged.

5. Align the pop-up handle with the pin slot, and then firmly push and turn the handle 90° after the pin is below the bracket slot. Proper engagement of the pin will hold the pop-up down until it is released.



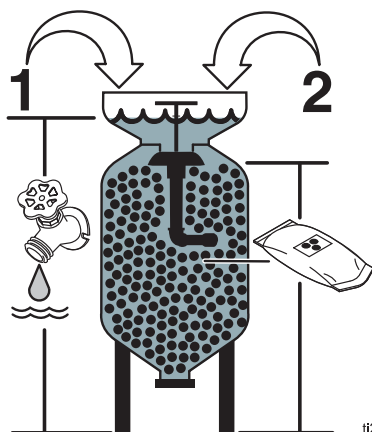
Operation

6. Open the pot dump valve (J).



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7. Add 10 gallons (30 liters) of fresh water to the pot. Add abrasive material (see [Technical Specifications, page 66](#) for capacity information).

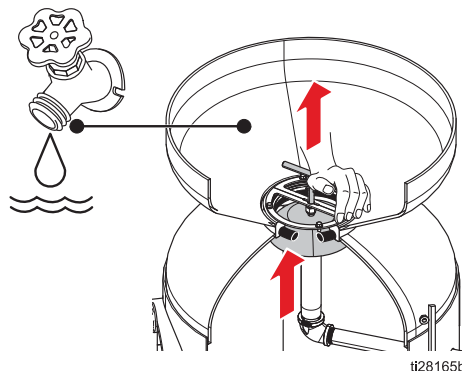


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8. Close the pot dump valve (J).
9. Use a garden hose or the rinse hose to wash the abrasive into the pot and clear any abrasive from the pop-up and gasket.

<p>Make sure water is above the pop-up seal and pop-up seal is closed. Failure to do so before pressurizing the pot can result in serious injury to the operator.</p>			

10. When the water level is above the pop-up gasket, rotate the handle to release the pop-up pin.



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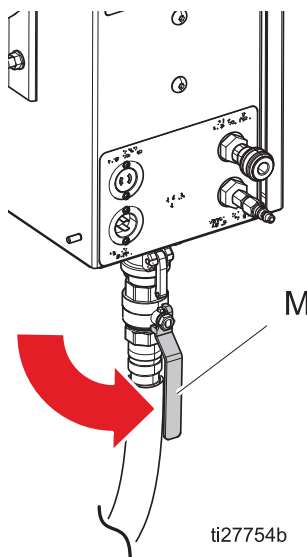
11. Turn the selector valve to BLAST.



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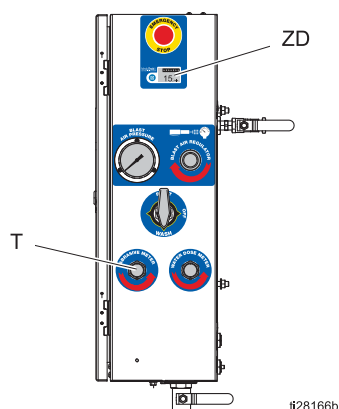
12. Engage the blast control switch and set the blast air pressure to a maximum of 175 psi (12.06 bar, 1.2 MPa).

13. Open the abrasive ball valve (M).

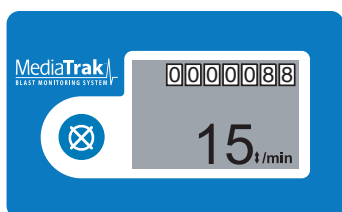


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14. To set the MediaTrak (ZD), slowly adjust the abrasive metering valve (T) while the abrasive is blasting from the nozzle to reach the desired setpoint.



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NOTE: You may have to wait 1–2 minutes for the abrasive material to reach the nozzle.

NOTE: Use a piece of test material similar to what you will be blasting. Always start as gently as possible and then increase the blast force as necessary to clean without doing any damage to the substrate.

EQs2 Elite Blast Pressure Setting

1. Turn both blast pressure regulators all the way in (CW).
2. Blast with nozzle one and nozzle two and record the blast pressure from the blast pressure gauge.
3. Blast with nozzle one and set the blast pressure at or below the recorded blast pressure from step 2.
4. Blast with nozzle two and set the blast pressure at or below the recorded blast pressure from step 2.
5. Continue from step 13 on [Setting Up the Equipment, page 13](#)

Setting the Abrasive Metering Valve

The optimal set point of the abrasive metering valve and corresponding MediaTrak CPM value varies significantly depending on application and user desired performance. The **General Application Guides** on the next page describe the generally accepted range of CPM set points based on the substrate and blast pressure set point. The grey highlighted area illustrates the typical range of blast pressure set points and their corresponding CPM set points for that substrate.

To find the recommended CPM set point, select the table that most closely matches the substrate that is to be blasted. Determine the blast pressure set point based on the media that is being used, and the desired surface profile to be achieved. Then, use the corresponding lines on the chart to select the appropriate CPM set point.

For inexperienced users, select a blast pressure near the low end of the highlighted range. Increase blast pressure and CPM until the desired profile and removal rate are achieved.

Optimizing the Abrasive Metering Valve

To optimize performance, use the High Production or Media Efficient lines on the charts. CPM set points near the High Production lines will yield the highest removal rates, and the highest media consumption rates. To maximize removal rate regardless of media consumption, use the highest possible blast pressure and set the CPM to the highest achievable value that produces a consistent pattern. The CPM set point is too high if the flow from the nozzle starts to sputter.

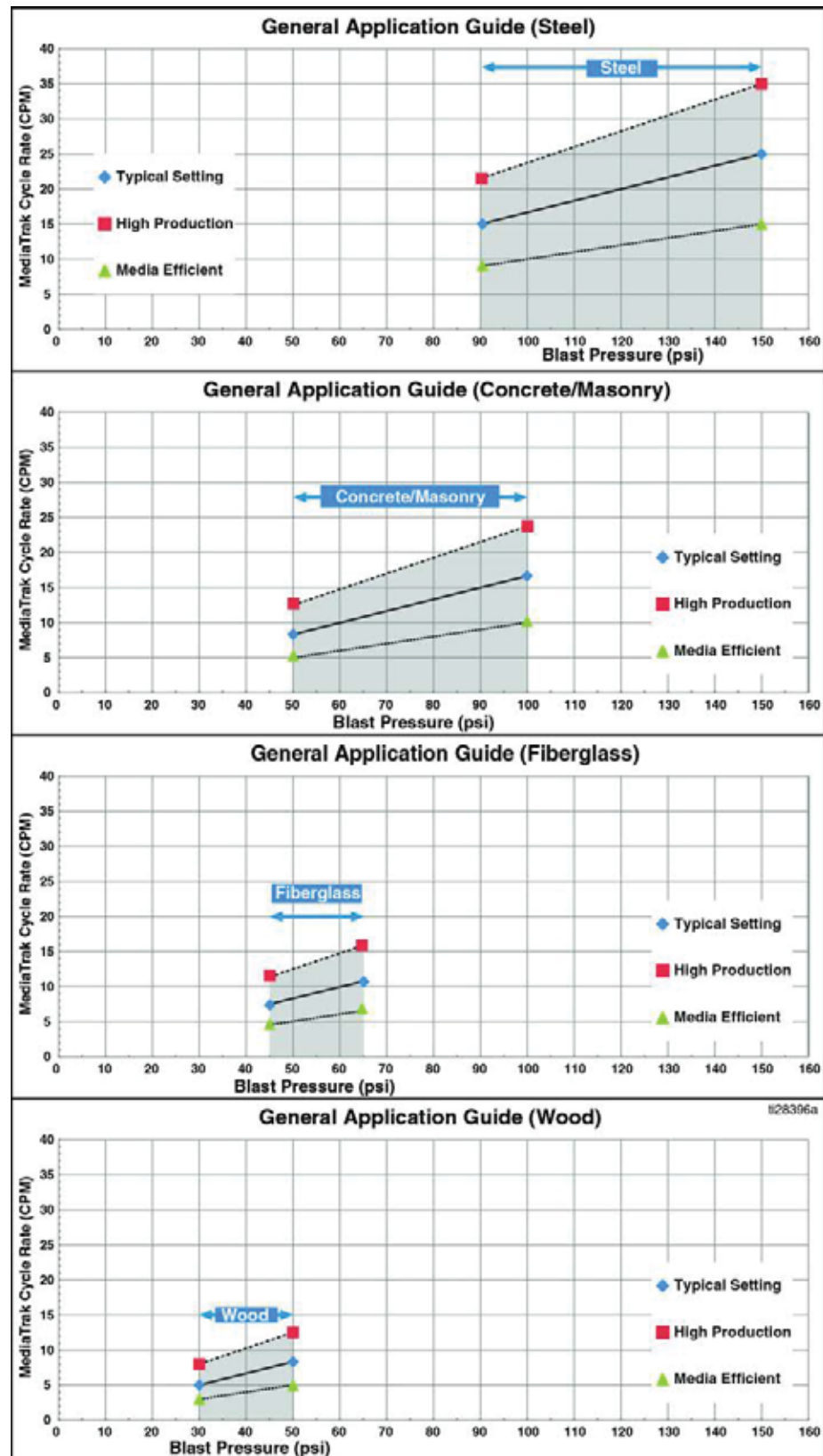
CPM set points near the Media Efficient line will use the lowest amount of media. To minimize cleanup and media usage, use a set point closer to this line. Generally, removal rates will be less than average when setting the CPM according to this line.

The charts on the following page are only guidelines. They were developed using garnet media in the 30-80 mesh range. Coarser media will produce a deeper profile, but will require higher CPM set points to yield similar removal rates to the set points shown in the tables. Finer media will yield higher removal rates, but will not produce as deep of a profile.

Fine tuning and experimentation are necessary to optimize performance for each application.

See the *General Application Guides* on the following page.

General Application Guides:



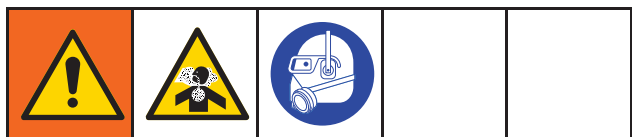
Nozzle Selection Guide

Use the **Blast Pressure vs. Air Flow Guide** below to determine which nozzle to use to achieve the desired blast pressure based on compressor output.

Blast Pressure	#6HP CFM (m ³ /min)	#7 CFM (m ³ /min)	#7HP CFM (m ³ /min)	#8 CFM (m ³ /min)	#8HP CFM (m ³ /min)	#10 CFM (m ³ /min)	#10HP CFM (m ³ /min)
30 psi (2.0 bar, 0.20 MPa)	78 (2.2)	117 (3.3)	137 (3.9)	151 (4.3)	161 (4.6)	229 (6.5)	224 (6.9)
40 psi (2.8 bar, 0.28 MPa)	90 (2.5)	129 (3.7)	161 (4.6)	181 (5.1)	212 (6.0)	254 (7.2)	286 (8.1)
50 psi (3.5 bar, 0.35 MPa)	117 (3.3)	161 (4.6)	193 (5.5)	200 (5.7)	225 (6.4)	308 (8.7)	337 (9.5)
60 psi (4.1 bar, 0.41 MPa)	137 (3.9)	190 (5.4)	225 (6.4)	234 (6.6)	256 (7.2)	362 (10.3)	391 (11.1)
70 psi (4.8 bar, 0.48 MPa)	166 (4.7)	225 (6.4)	251 (7.1)	269 (7.6)	293 (8.3)	422 (11.9)	447 (12.7)
80 psi (5.5 bar, 0.55 MPa)	188 (5.3)	244 (6.9)	281 (8.0)	298 (8.4)	337 (9.5)	460 (13.0)	498 (14.1)
90 psi (6.2 bar, 0.62 MPa)	210 (5.9)	266 (7.5)	293 (8.3)	317 (9.0)	374 (10.6)	520 (14.7)	562 (16.0)
100 psi (6.9 bar, 0.69 MPa)	239 (6.8)	283 (8.0)	327 (9.3)	378 (10.7)	413 (11.7)	561 (15.9)	601 (17.0)
110 psi (7.6 bar, 0.76 MPa)	256 (7.2)	325 (9.2)	347 (9.8)	420 (11.9)	457 (12.9)	634 (18.0)	664 (18.8)
120 psi (8.3 bar, 0.83 MPa)	273 (7.7)	344 (9.7)	378 (10.7)	452 (12.8)	476 (13.5)	691 (19.6)	720 (20.4)
130 psi (9.0 bar, 0.90 MPa)	288 (8.2)	374 (10.6)	415 (11.8)	493 (14.0)	527 (16.2)	721 (20.4)	759 (21.5)
140 psi (9.7 bar, 0.97 MPa)	313 (8.9)	405 (11.5)	449 (12.7)	530 (15.0)	571 (16.2)	758 (21.5)	797 (22.6)
150 psi (10.3 bar, 1.0 MPa)	337 (9.5)	430 (12.2)	476 (13.5)	558 (15.8)	601 (17.0)	796 (22.54)	835 (23.6)
<i>Air inlet pressure = 175 psi (12.1 bar, 1.21 MPa)</i>							

NOTE: Static inlet pressure less than 175 psi (12.1 bar, 1.21 MPa) will require increased air flow to achieve the same blast pressure. It is not possible to get a blast pressure higher or equal to the static inlet pressure.

Using the Wash Feature



The wash feature uses water (without abrasive) to rinse areas that have been blasted with abrasive. It is also a convenient feature for flushing abrasive from the blast hose.

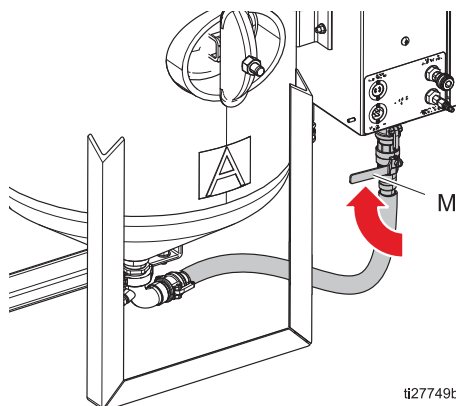
NOTICE

There will always be some residual abrasive in the blast hose. Never use the wash feature on any surface other than where you have blasted, or intend to blast. It will affect/dull the surface.

NOTICE

Do not use the wash feature on wood that has been blasted. It could damage the wood and cause the grain to rise. Wait for the wood to dry and then use a broom, brush, or vacuum to remove any residual abrasive.

1. Close the abrasive ball valve (M).



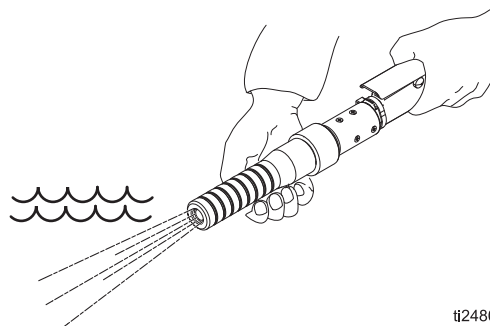
ti27749b

2. Turn the selector valve to WASH.



ti27758a

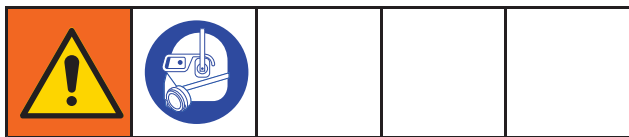
3. Blast 1 – 2 minutes until the abrasive is cleared from the hose.



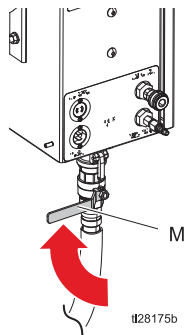
ti24804a

4. The equipment is now ready to wash any previously blasted surfaces.

Refilling the Pot with Abrasive



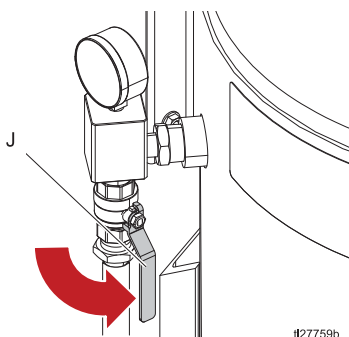
1. Close the abrasive ball valve (M).



2. Turn the selector valve to OFF.

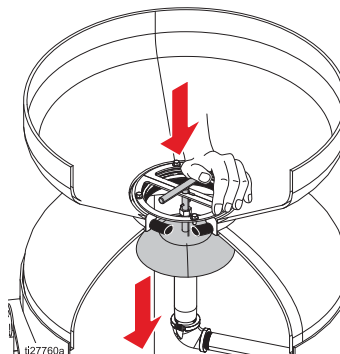


3. Open the pot dump valve (J) to drain water from the pot.



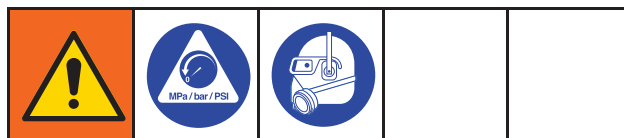
NOTE: Be prepared to capture the water that will be drained from the pot. All disposals must comply with national, state, and local regulations.

4. Engage the pop-up pin by compressing the spring and turning the handle 90° to hold the pop-up in the open position.



5. Add the abrasive (see [Technical Specifications, page 66](#) for capacity information) and continue to step 8 from [Setting Up the Equipment, page 13](#).

Shutting Down

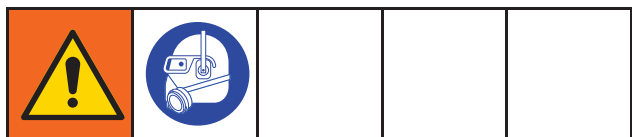


1. When you have finished blasting, perform wash until all of the abrasive is flushed from the blast hose. See [Using the Wash Feature, page 19](#).
2. Turn the selector valve to OFF, and with the abrasive ball valve closed, continue to blast until water is cleared from the hose. This is to dry the inside of the hose for storage.

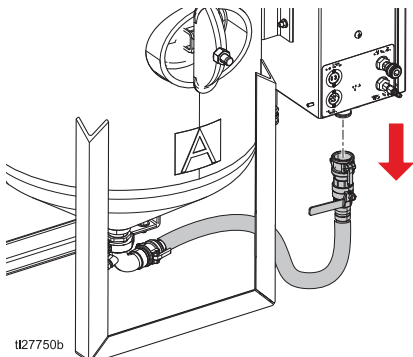


3. Perform [Pressure Relief Procedure, page 10](#).

Draining the Pot



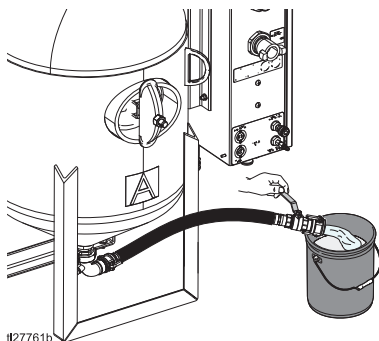
1. Disconnect the abrasive ball valve cam-lock by removing the coupler pins and pulling the rings out and up to pull the two cams away from the groove.



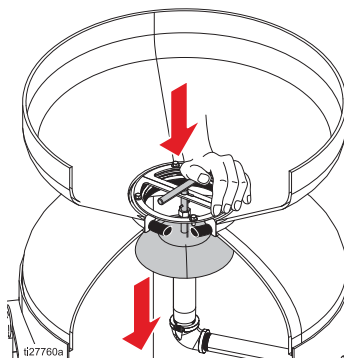
2. Hold a bucket under the cam-lock coupler, then turn the selector valve to WASH. This will clean debris from the cam-lock coupler and gasket.

NOTE: Make sure the gasket is clean and in place after the procedure.

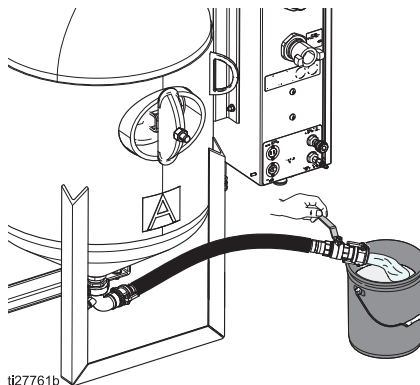
3. Turn the selector valve to BLAST. This will pump the abrasive out through the abrasive hose.
4. Place a bucket under the abrasive hose. Slowly open and close the abrasive ball valve to flush abrasive material from the pot. Repeat several times. Once no abrasive material flows from the hose, close the abrasive ball valve. Turn the selector valve to OFF.



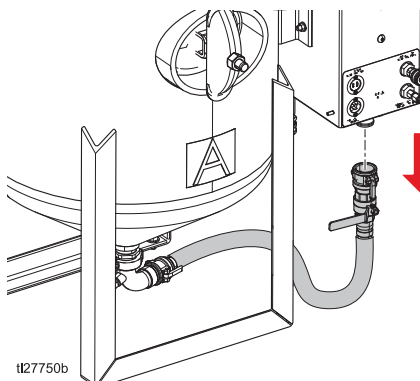
5. Engage the pop-up pin to hold the pop-up open and allow air to enter.



6. Open the abrasive ball valve and drain the pot of water.

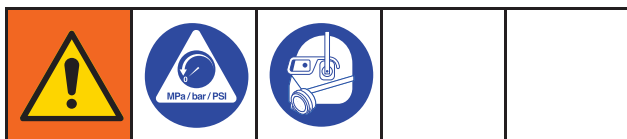


7. Close the pop-up and connect the abrasive hose.



NOTE: The system must be winterized if it will be exposed to temperatures below freezing. See [Winterizing the Equipment, page 22](#).

Winterizing the Equipment



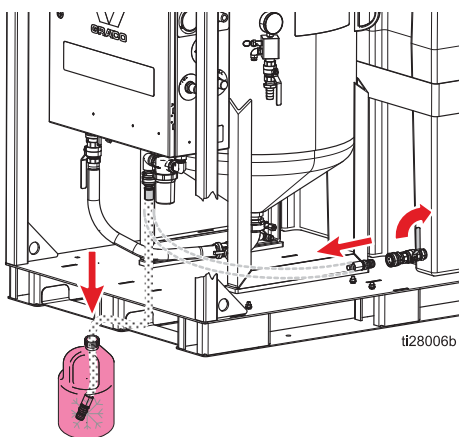
NOTICE

Vapor abrasive blasters must be winterized whenever there is a possibility of freezing temperatures during storage to avoid damage to the equipment.

1. Drain the pot (see [Draining the Pot](#), page 21).
2. Drain the water tank by disconnecting the pump inlet hose and opening the inlet ball valve.

NOTE: All disposals must comply with national, state, and local regulations.

3. Drain the pump inlet hose, then insert the end into a windshield wash container. Choose a windshield wash with a rating that will protect the equipment for the lowest temperatures in your area.



4. **EQm and EQs2 Elite only:** Disconnect the water inlet regulator from the pump and install the winterizing tube. Insert the winterizing tube into a windshield washer fluid container. Continue to step 5.

5. Turn the selector valve to WASH and open the rinse ball valve. While holding the rinse hose over the pot, run the pump until windshield wash comes out of the rinse hose.



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6. Move the selector valve into the other two positions (BLAST and OFF). Confirm that the internal water tubing fills with windshield wash before turning the selector valve to the next position.

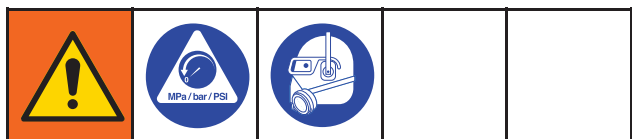
NOTE: All water tubing should be filled with windshield wash for full protection.

7. Engage the emergency stop (Q).
8. Reconnect the pump inlet hose to the inlet ball valve.
9. Make sure that the rinse ball valve (X) and the inlet ball valve (N) are left open.

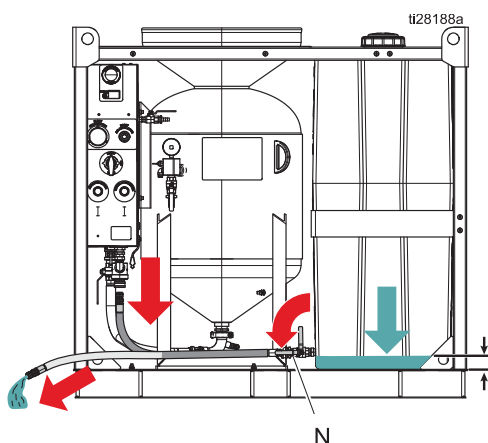
NOTICE

When ice forms behind the seals, the seals can become damaged. During storage, position all ball valves in the open position.

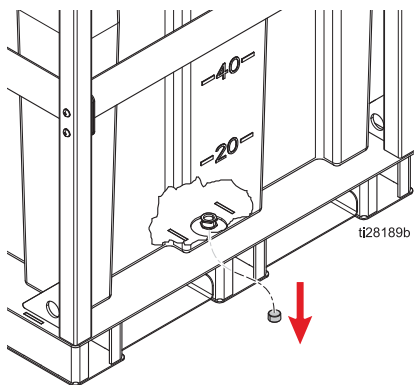
Cleaning the Water Tank



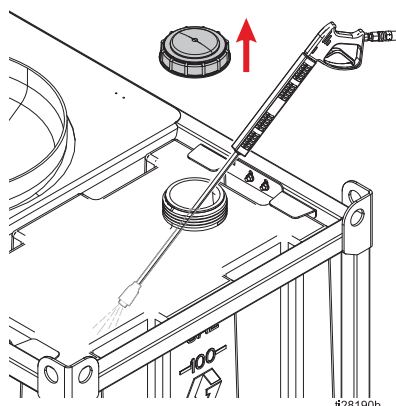
1. Perform [Pressure Relief Procedure](#), page 10.
2. Disconnect the water inlet hose.



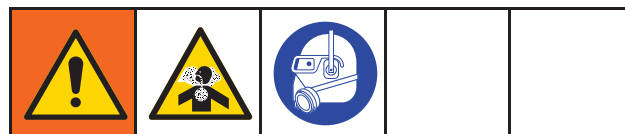
3. Open the inlet ball valve (N) and drain.
4. Remove the tank drain.



5. Remove the tank lid and clean out with pressure washer.

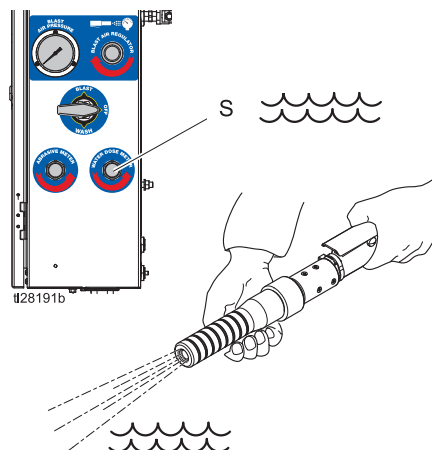


Using the Water Dose Meter

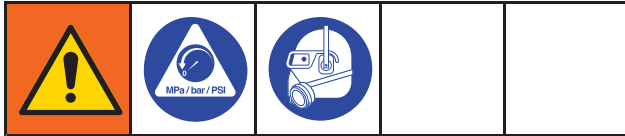


The water dose meter is a feature used on EcoQuip2 Elite models only. This feature allows the user to adjust how wet the blast will be during operation.

1. Follow steps 1 — 11 on [Setting Up the Equipment](#), page 13.
2. Adjust the water dose valve (S) to adjust how wet the blast will be during operation.



Troubleshooting



Problem	Cause	Solution
Unable to fill or pressurize the pot with water.	The emergency stop (Q) is engaged.	Disengage the emergency stop (Q).
	The air supply is inadequate.	Make sure the air compressor is capable of supplying the minimum air flow requirement for your system (see Technical Specifications, page 66). Make sure the air inlet pressure gauge reads 100-175 psi (6.8–12 bar, 0.68–1.2 MPa). If the gauge does not read 100–175 psi, check the air compressor for proper setup. Make sure the air inlet filters are clean, and replace if necessary.
	Inadequate water supply to the pump	Systems with water tanks: Make sure the water tank is full and the inlet ball valve is open. Clean or replace water inlet filter if necessary. Make sure all fitting connections are tight.
		Systems with pressurized supply connection: Make sure the water supply connection is connected and pressurized. Make sure the water supply meets appropriate pressure and flow requirements, see Setting Up the Equipment, page 13 , step 1. Make sure all fitting connections are tight. Check the inlet water pressure regulator for proper flow direction installation see EQm Parts, page 33 , or EQs2 Parts, page 39 . Check the inlet water pressure regulator screen filter for debris, clean if possible. If no flow can pass through the regulator, replace it.
	The water pump air regulator is malfunctioning.	Disengage the blast control switch (B). Adjust the pump inlet air pressure regulator until the pump air pressure regulator gauge reads 100 psi (6.9 bar, 0.69 MPa). If you are unable to attain this setting, check the air inlet filters and make sure the supply air pressure is greater than or equal to 100 psi. If the above steps do not resolve issue, replace the pump air pressure regulator.
	The water pump is malfunctioning.	Rotate 3-way selector valve to the OFF position. Open the rinse valve and make sure the pump cycles, and water flows from the rinse hose. Close the rinse valve and verify that the pump stalls. If the pump continues, creeps, or will not prime, refer to manual 333397 for pump service.
	The pop-up cannot seal.	Make sure the pop-up is clean and free of debris in the o-ring sealing area. Check for proper pop-up alignment in the closed position (there should be no gaps between the o-ring and the pop-up). Remove the o-ring and make sure the o-ring gland is clear of debris. Replace the o-ring and/or pop-up if worn.
	The water pressure regulator is malfunctioning.	Adjust the water pressure regulator until the pot pressure gauge reads 185 psi (12.75 bar, 1.275 MPa). If this adjustment is not possible, service the water pressure regulator (see manual 309474).

Problem	Cause	Solution
The blast hose recoils heavily when the blast control switch (B) is engaged. Large slugs of abrasive and water are ejected from nozzle.	The abrasive ball valve was left open during shut down.	See Shutting Down, page 20 , step 2.
	The abrasive ball valve is worn.	With the pot pressurized and the abrasive ball valve closed, engage the blast control switch (B) and check to make sure the pump is stalled. If the pump rod is creeping, replace the abrasive ball valve (M).
	The pinch hose is worn.	With the pot pressurized and the abrasive ball valve open, check to make sure the pump is stalled. If the pump rod is creeping, replace the pinch hose. See Replacing the Pinch Hose, page 32 .
The pot pressure relief valve is discharging water.	The water pressure regulator is malfunctioning.	Adjust the water pressure regulator to 185 psi (12.75 bar, 1.275 MPa). If this adjustment is not possible, service the water pressure regulator (see manual 309474).
	The pressure relief valve has failed.	Replace the pressure relief valve if weeping occurs at or below 185 psi (12.75 bar, 1.275 MPa).

Problem	Cause	Solution
No blast air flow when the blast control switch (B) is engaged. The water pump does cycle while the blast control switch is engaged.	The adjustable blast regulator is not adjusted to the correct pressure.	Adjust the blast regulator to the desired pressure while the blast control is engaged.
	The tubing to the main air regulator is not properly connected or there are air leaks in the fittings or tubing.	See the Tubing Schematic, page 62 . Check for leaks at connection points.
	The adjustable blast air regulator is malfunctioning.	Clean or replace the adjustable blast air regulator.
	The main air regulator is malfunctioning.	Disassemble the main air regulator and inspect components. Replace or repair parts as necessary. See Enclosure Box Parts, page 51 .
No blast air flow when the blast control switch (B) is engaged. The water pump does not cycle while the blast control switch is engaged.	The emergency stop (Q) is engaged.	Disengage the emergency stop (Q).
	The air supply is inadequate.	Make sure the air compressor is capable of supplying the minimum air flow requirement for your system (see Technical Specifications, page 66 for more information). Make sure the air inlet pressure gauge reads 100-175 psi (6.8–12 bar, 0.68–1.2 MPa). If the gauge does not read 100–175 psi, check the air compressor for proper setup.
	The electric blast control circuit is malfunctioning.	Make sure proper 12V supply is connected, and at full charge. Inspect the cable for damaged or shorted wiring. Check the 3A fuse and replace if necessary. Check for continuity through the connectors on the control box (P) and all external cables. Check continuity through the electric blast control switch (the switch is normally open). If all above items are functional, replace the 4-Way solenoid valve.
	The pneumatic blast control circuit is malfunctioning.	Actuate the blast control switch (B) and check for proper spool valve actuation in the 4-way valve. If no actuation occurs, check the blast control switch by disconnecting the yellow tube at the enclosure male quick-disconnect and engage the control switch. If no air comes from the fitting, check the pneumatic blast control filter. If the filter is clean, replace the pneumatic blast control switch. If the switch is functioning, make sure the yellow tubing inside the control box (P) is properly connected and clear of obstructions. If the tubing is clean, remove the exhaust mufflers from the 4-way and check for debris. Clean the ports and replace the mufflers if necessary. If all above items are functional, replace the 4-way solenoid valve.

Problem	Cause	Solution
While in BLAST mode, with the blast control switch (B) engaged, air is flowing from the nozzle but little or no abrasive is flowing from the nozzle.	The abrasive ball valve is closed.	See Setting Up the Equipment, page 13 .
	The abrasive metering valve is not properly set.	See Setting Up the Equipment, page 13 .
	The pot does not have a sufficient amount of abrasive.	See Refilling the Pot with Abrasive, page 20 .
	The pinch valve does not open.	Engage the blast control switch (B) and check for actuation of the pinch valve. If there is no actuation, check the orange tubing for proper connection and make sure there are no obstructions in the tube. If the tube connection is satisfactory, inspect the mufflers on the 4-way valve for debris. If debris present, clean or replace the 4-way valve. Clean or replace the control box (P) air filter.
	There is an obstruction inside the pot or inside the abrasive hose between the pot and the enclosure.	Follow Draining the Pot, page 21 , followed by the Pressure Relief Procedure, page 10 . With the abrasive hose disconnected, inspect the interior of the pinch hose for obstructions or debris and replace if necessary (see Replacing the Pinch Hose, page 32). Remove the tri-clamp from the bottom of the pot. Inspect the bottom of the pot and the abrasive hose for obstructions or debris.
	The pot pressure is too low.	With the blast control disengaged, allow the pot to pressurize and wait for the pump to stall. If the pot pressure gauge does not reach 185 psi (12.75 bar, 1.275 MPa), see the "Unable to fill or pressurize the pot with water" problem listed in this table.
	The blast pressure is too high.	If the blast pressure gauge reads 160 psi (11.03 bar, 1.10 MPa) or greater, it may not be possible to achieve greater than 15 CPM on the MediaTrak. This is more common with fine mesh abrasive usage. Decrease the blast pressure to 100 psi (6.9 bar, 0.69 MPa) to see if CPM can be increased.

Problem	Cause	Solution
The blast control switch (B) is not engaged, but blasting occurs.	The air supply is inadequate.	Make sure the air compressor is capable of supplying the minimum air flow requirement for your system (see Technical Specifications, page 66). Make sure the air inlet pressure gauge reads 100-175 psi (6.8–12 bar, 0.68–1.2 MPa). If the gauge does not read 100–175 psi, check the air compressor for proper setup.
	The main air regulator is malfunctioning or is stuck open.	Disassemble the main air regulator and check for obstructions. Replace or repair parts as necessary (see Enclosure Box Parts, page 51).
	The electric blast control circuit is malfunctioning.	Inspect the hose cable for damaged or shorted wiring. Check the 3A fuse and replace it if necessary. Check for continuity through the connectors on the control box (P) and all external cables. Check continuity through the electric blast control switch (the switch is normally open). If all above items are functional, replace the 4-Way solenoid valve.
	The pneumatic blast control circuit is malfunctioning.	Actuate the blast control switch (B) and check for proper spool valve actuation in the 4-way valve. If no actuation occurs, check the blast control switch by disconnecting the yellow tube at the enclosure male quick-disconnect and engage the control switch. If no air comes from the fitting, check the pneumatic blast control filter. If the filter is clean, replace the pneumatic blast control switch. If the switch is functioning, make sure the yellow tubing inside the control box (P) is properly connected and clear of obstructions. If the tubing is clean, remove the exhaust mufflers from the 4-way and check for debris. Clean the ports and replace the mufflers if necessary. If all above items are functional, replace the 4-way solenoid valve.
While the blast control switch (B) is engaged, the blast air flow is fluctuating.	The supply air pressure is fluctuating	Make sure the compressor meets minimum flow requirements and is operating properly. See Technical Specifications, page 66 for more information on flow requirements.
	The main air regulator is malfunctioning or is stuck open.	Disassemble the main air regulator and check for obstructions. Replace or repair parts as necessary (see Enclosure Box Parts, page 51).
	The electric blast control circuit is malfunctioning.	Inspect the hose cable for damaged or shorted wiring. Check the 3A fuse and replace if necessary. Check for continuity through the connectors on the control box (P) and all external cables. Check the continuity through the electric blast control switch (the switch is normally open). If all above items are functional, replace the 4-Way solenoid valve.
	The pneumatic blast control circuit is malfunctioning.	Actuate the blast control switch (B) and check for proper spool valve actuation in the 4-way valve. If no actuation occurs, check the blast control switch by disconnecting the yellow tube at the enclosure male quick-disconnect and engage the control switch. If no air comes from the fitting, check the pneumatic blast control filter. If the filter is clean, replace the pneumatic blast control switch. If the switch is functioning, make sure the yellow tubing inside the control box (P) is properly connected and clear of obstructions. If the tubing is clean, remove the exhaust mufflers from the 4-way and check for debris. Clean the ports and replace the mufflers if necessary. If all above items are functional, replace 4-way the solenoid valve.

Problem	Cause	Solution
The blast spray pattern is sputtering or irregular.	The air supply is inadequate.	Make sure the air compressor is capable of supplying the minimum air flow requirement for your system (see Technical Specifications, page 66). Make sure the air inlet pressure gauge reads 100-175 psi (6.8–12 bar, 0.68–1.2 MPa). If the gauge does not read 100–175 psi, check the air compressor for proper setup. Make sure the air inlet filters are clean and replace if necessary.
	The blast hose was not properly cleaned out after previous use.	See Shutting Down, page 20 .
	The abrasive metering valve setting is too high for the blast pressure and/or abrasive type.	See Setting the Abrasive Metering Valve, page 16 .
	The pot does not have a sufficient amount of abrasive.	Refill the pot with abrasive (see Refilling the Pot with Abrasive, page 20).
	There is an obstruction in the nozzle	Remove the nozzle and inspect for blockage, buildup, or damage. Replace if necessary.
	There is an obstruction inside the pot or inside the abrasive hose between the pot and the enclosure.	Perform Draining the Pot, page 21 , followed by Pressure Relief Procedure, page 10 . With the abrasive hose disconnected, inspect the interior of the pinch hose for obstructions or debris and replace if necessary (see Replacing the Pinch Hose, page 32). Remove the tri-clamp from the bottom of pot. Inspect the bottom of the pot and abrasive hose for obstructions or debris.
Too much dust occurs during blasting.	There is not enough water in abrasive mixture.	See Using the Water Dose Meter, page 23 (an upgrade kit is available for non-Elite models).
	The blast pressure too high.	Decrease the blast pressure and re-evaluate the dust levels.
	The abrasive is too fine for the application.	Try a coarser or harder abrasive if possible.
Too much water is coming from the nozzle in BLAST mode.	The water dose valve (S) open too far.	Close the water dose valve (S).
	The abrasive material is too coarse.	If possible, use at least 20 mesh abrasive material. Otherwise, decrease the CPM set point until the pattern improves.
	The abrasive metering valve setting too high for blast pressure and/or abrasive type.	See Setting the Abrasive Metering Valve, page 16 .

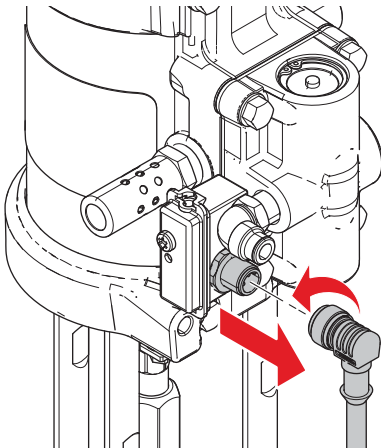
Repair

Replacing the DataTrak Battery

				
FIRE AND EXPLOSION HAZARD <p>To reduce the risk of fire and explosion, the battery must be replaced in a non-hazardous location.</p> <p>Use only an approved replacement battery (see table). Use of an unapproved battery will void Graco's warranty.</p>				

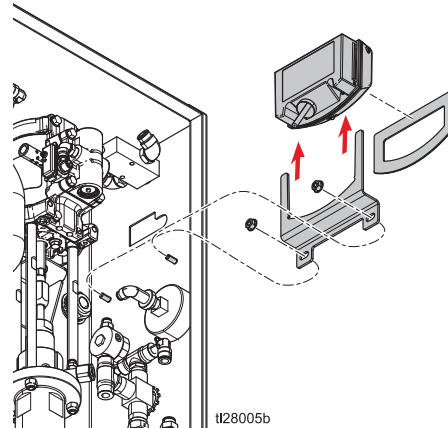
Replace Battery

1. Unscrew cable from the back of the reed switch assembly.
2. Remove the cable from the two cable clips.



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3. Remove the DataTrak module from the bracket. Take the module and attached cable to a non-hazardous location.





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4. Remove the two screws on the back of the module to access the battery.
5. Disconnect the used battery and replace it with an approved battery.

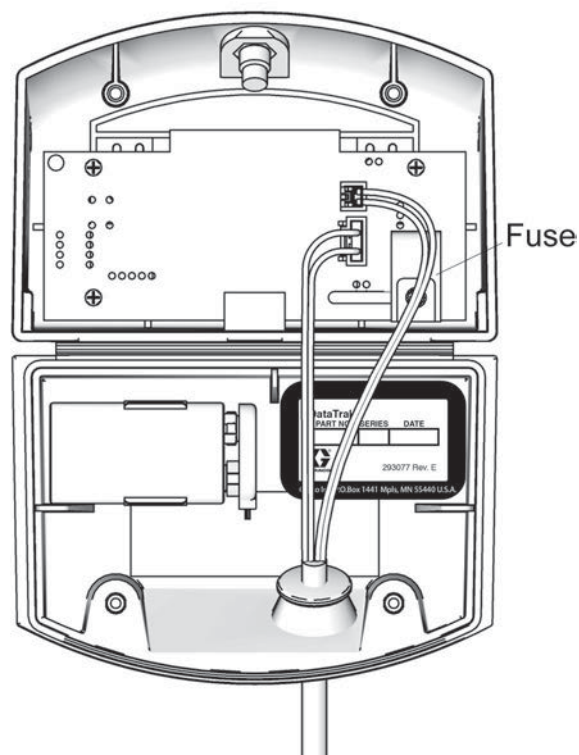
Approved Batteries
Energizer® brand alkaline #522
Varta® brand alkaline #4922
UltraLife® brand lithium #U9VL
Duracell® brand alkaline #MN1604

Replacing the DataTrak Fuse

				
FIRE AND EXPLOSION HAZARD To reduce the risk of fire and explosion, the fuse must be replaced in a non-hazardous location. Use only an approved replacement fuse (see table). Use of an unapproved fuse will void Graco's warranty.				

Replace Fuse

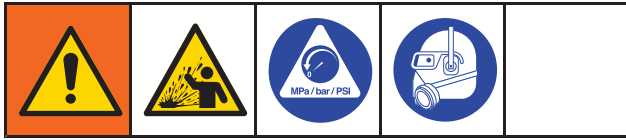
1. Remove the screw, metal strap, and plastic holder.
2. Pull the fuse away from the board
3. Replace with an approved fuse.



Approved Fuses		
DataTrak Part Number	*Series Letter	Fuse Required
17K057	A or B	24C580
	C and later	24V216
All other part numbers	A	24C580
	B and later	24V216

Replacing the Pinch Hose

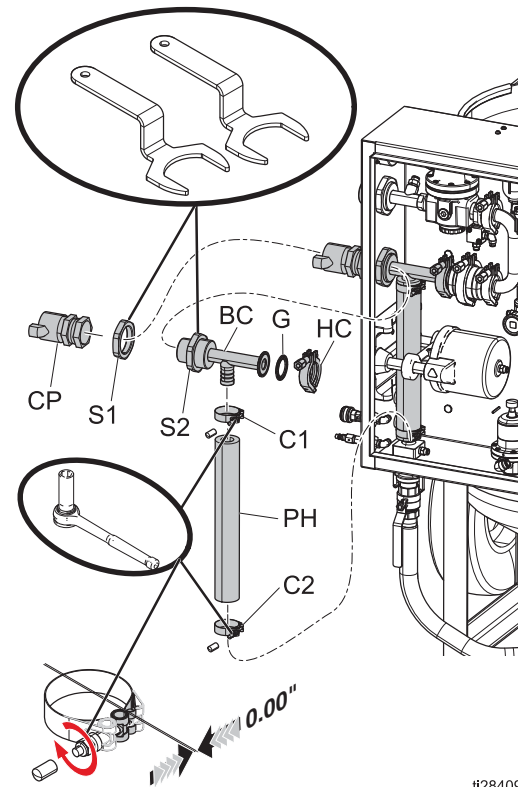
Removing the Pinch Hose



1. Perform [Pressure Relief Procedure](#), page 10.
2. Remove the claw coupler (CP) at the swivel connection.
3. Use the supplied 2-7/8 in. wrenches (17J757) to loosen the lock nuts (S1, S2) on the inside and outside of the box.
4. Remove the clamp (HC) connecting the blasting circuit (BC) to the check valve.
5. Remove the bottom hose clamp (C2) (128642).
6. Pull the pinch hose (PH) (17G569) out of the box.
NOTE: Use the blasting circuit (BC) as a handle, and twist while pulling.
7. Loosen the remaining hose clamp and remove the pinch hose from the circuit.

Installing the Pinch Hose

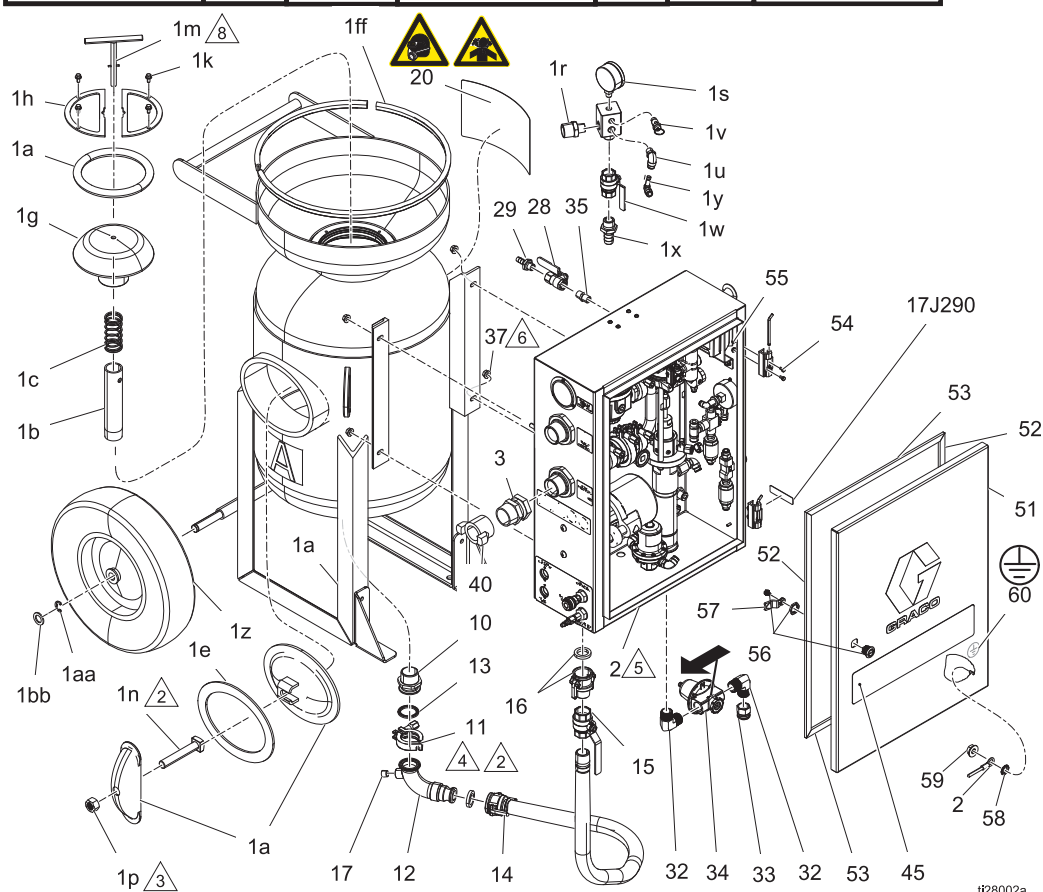
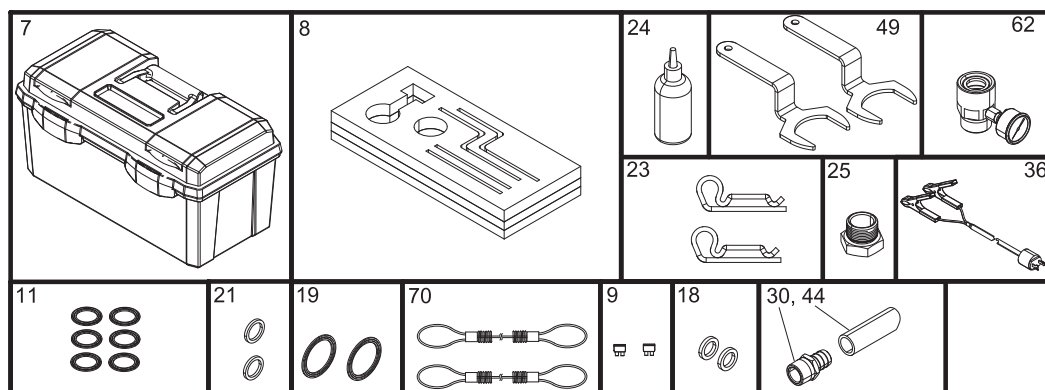
1. Place both hose clamps (C1, C2) on the pinch hose (PH). Leave 1/4 in. of hose exposed on the ends.
2. Slide the pinch hose (PH) onto the barb at the blasting circuit (BC).
3. Reinstall the blasting circuit (BC) and pinch hose (PH) into the box through the pinch valve.
4. Install and tighten the clamp (HC) to 15 ft-lb (20.3 N•m) to connect the blasting circuit to the check valve. **NOTE:** If necessary, loosen the inside nut (S2) to provide room for gasket (G) installation. Inspect the gasket (G) and replace if necessary.
5. Tighten the hose clamps (C1, C2) until the metal ends touch.
6. Tighten the lock nuts (S1, S2).
7. Install the claw coupler (CP).



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Parts

EQm Parts



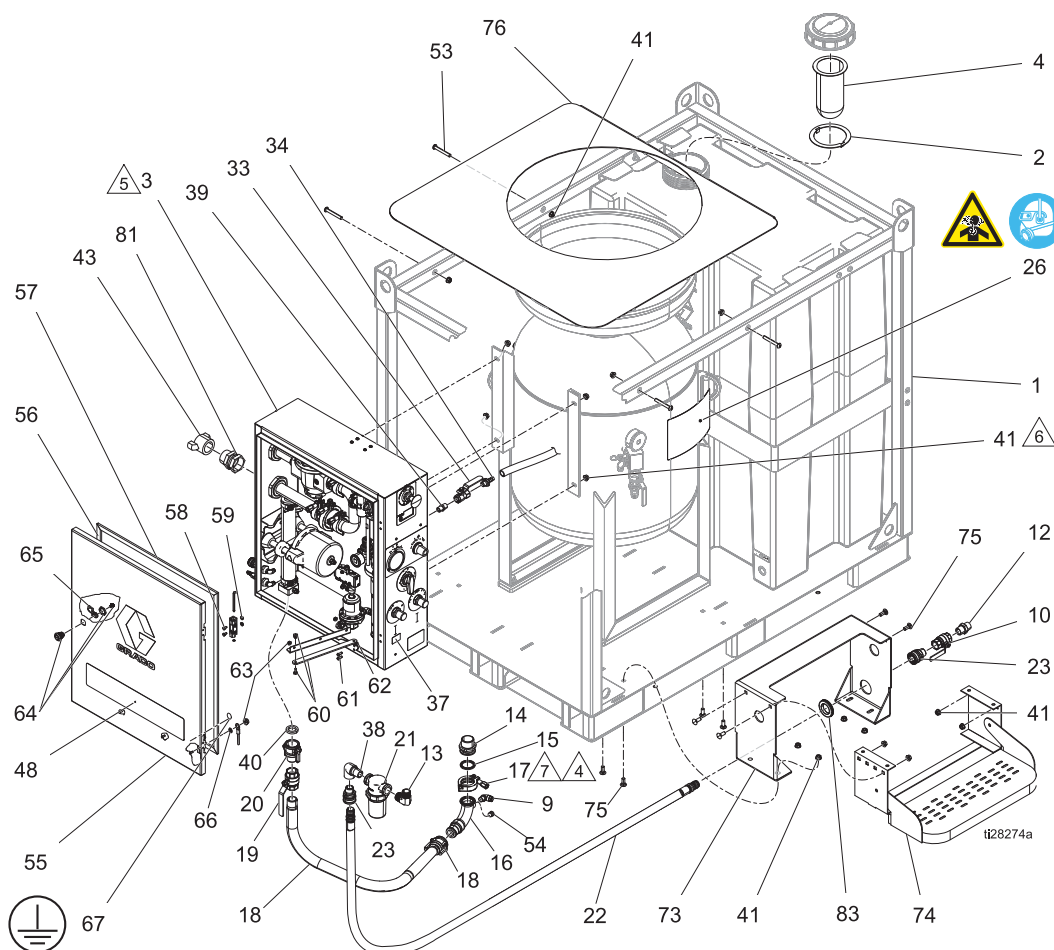
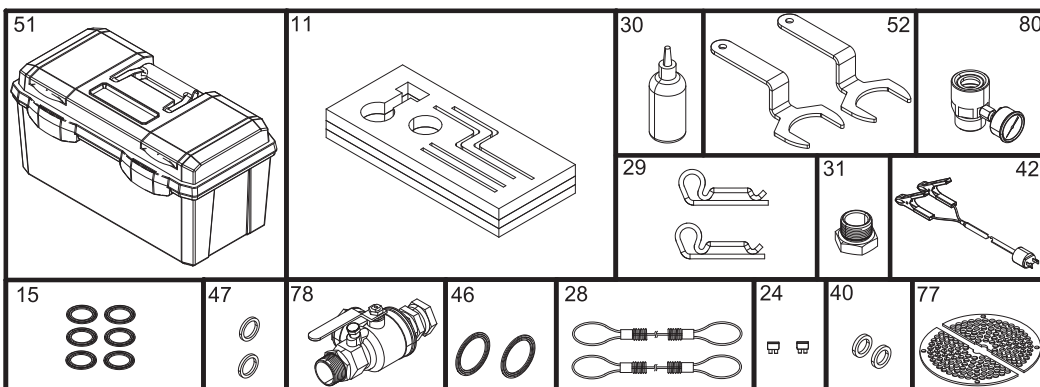
1. Apply thread sealant to all non-swivel pipe threads.
2. Apply anti-seize to threads.
3. Torque to 60 +/-5 ft-lb (81.3 +/- 6.7 N•m) with pot pressurized.
4. Torque to 15 +/-2 ft-lb (20.3 +/- 2.7 N•m)
5. Apply anti-seize to enclosure mounting studs.
6. Torque to 25–30 ft-lb (34–40.6 N•m)
8. Apply anaerobic sealant to threads.

EQm Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1	17L049	PRESSURE POT, blast media, 3.5 cu ft.	1	15	17J332	VALVE, ball, 1 npt, brass, nickel	1
1b	17H382	PIPE, pop-up	1	16	17J329	COUPLER, cam-lock, sst, 1 nptf	1
1c	17F822	SPRING, pop-up, sst	1	17	112306	PLUG, pipe, 3/8 npt, sst	1
1d	EQ1475	NUT, lock, nylon insert, 1/2, sst	1	18	17J331	GASKET, cam lock, buna, 1.0	2
1e	17D790	GASKET, handway, 6 x 8	1	19	502598	GASKET, sanitary (PTFE)	2
1g	17L311	SEAL, pop up, EQ2 pot (includes 1m)	1	20▲	17J289	LABEL, instructions	1
1h	17L635	BRACKET, pop up, ring (includes 1k)	2	21	EQ1051	GASKET, blast nozzle	2
1k	128504	BOLT, flange hd, serrated, 1/4, ss	4	23	17D787	PIN, safety item. hose. hair c (6 pack)	1
1m	17L632	HANDLE, T, pop-up, weldment	1	24	206994	FLUID, TSL 8 oz. bottle	1
1n	17L630	BOLT, square head, 3/4 x 4 1/2, sst	1	25	EQ1829	FITTING, ground boss, spud, 1-1/2 in.	1
1p	17L630	NUT, hex, 3/4-10, sst	1	26		SEALANT, pipe, sst	1
1r	128643	FITTING, nipple, reducing, 1 x 1/2, sst	1	28	EQ1627	FITTING, nipple, barb. hose. 3/8 in.	1
1s		MANIFOLD, dump	1	29	EQ1360	HOSE, braided, clear, 3/4 ID	3
1t	17L320	GAUGE, pressure, fluid	1	30	EQ1840	HOSE, braided, clear, 3/8 ID	6
1u	EQ1500	FITTING, elbow, swivel, male, 3/8 in.	1	32	17K344	FITTING, elbow, 3/4 npt, sst	1
1v	125967	FITTING, elbow, swivel, male. 3/8 in.	1	33	EQ7004	FITTING, hose. garden. 3/4 in. mpt x	1
1w	17J343	VALVE, ball, 3/4 npt, brass, nickel	1	34	17J372	VALVE, pressure reducing, 3/4 npt	1
1x	EQ1012	FITTING, nipple, barb, hose, 3/4 in.	1	35	167702	NIPPLE, pipe hex	1
1y	EQ1122	FITTING, elbow, stem 3/8 in.	1	36	26A014	CABLE, battery	1
1z	17L645	WHEEL, semi-pneumatic	2	37	128226	NUT, flange, 3/8-16, sst	4
1aa	17L645	WASHER	2	40	EQ1934	COUPLER, sandblast, 1-1/2 npt(f), br	1
1bb	17L645	RING, retaining	2	44	17L558	FITTING, 3/4 npt x 3/4 barb, brass	1
1cc		SEALANT, pipe, sst	1	45		LABEL, brand, EcoQuip, EQm	1
1dd		LUBRICANT, grease	1	49	17L633	TOOL, EQ, wrench, 2-7/8	2
1ee		LUBRICANT, anti-seize	1	51		DOOR, enclosure, sm, painted	1
1ff	128982	TRIM, edge, neoprene, black	4.5	52	17L624	GASKET, door, vertical	2
2		ENCLOSURE, EcoQuip, mobile, non-ATEX (Model 262950)	1	53	17L624	GASKET, door, horizontal, small	2
		ENCLOSURE, EcoQuip, mobile, ATEX (Model 262951)	1	54	111639	SCREW, cap, hex hd	4
3	113864	UNION, swivel, 1-1/2 npt	1	55	127918	NUT, flange, serrated, m5	4
7	24Z156	KIT, replacement, tool box	1	56	17L623	LOCK, door, tooled	1
8	24Z156	INSERT, foam, tool box, EcoQuip	1	57	17L623	LATCH, cam, door lock	1
9	EQ1844	FUSE, blade, atc, 3a	2	58	555629	WASHER, #10 external tooth lock (Model 262951 only)	1
10	17H273	ADAPTER, tri-clamp, 1-1/4 npt, sst	1	59	127908	NUT, flange, serrated, #10-32, ss (Model 262951 only)	1
11	680454	GASKET, sanitary fitting	7	60▲	186620	GND, label	1
12		MANIFOLD, unequal-tee	1	62	17J958	PRESSURE VERIFICATION	1
13	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	1	70	17D786	KIT, replacement, whip check	1
14	17L329	HOSE, inlet media	1				

▲ Replacement Danger and Warning labels are available at no cost.

EQs Parts



1. Apply thread sealant to all non-swivel pipe threads.

2

Apply anti-seize to threads.

3

Torque to 60 +/-5 ft-lb (81.3 +/- 6.7 N•m).



Torque to 15 +/-2 ft-lb (20.3 +/- 2.7 N•m)

EQs Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		BASE, standard, frame, tank	1	43	EQ1934	COUPLER, sandblast, 1-1/2 npt(f)	1
		BASE, elite, frame, tank	1	44	190774	BLANK, label, kit	1
2	17L027	RING, adapter, filter	1	46	502598	GASKET, sanitary (PTFE)	2
3		ENCLOSURE, EcoQuip, standard, non-ATEX	1	47	EQ1051	GASKET, blast nozzle	2
		ENCLOSURE, EcoQuip, standard, ATEX	1	48	17J944†□	LABEL, brand, EcoQuip, EQs	1
		ENCLOSURE, EcoQuip, elite, non-ATEX	1		17J945‡◇	LABEL, brand, EcoQuip, EQs, elite	1
		ENCLOSURE, EcoQuip, elite, ATEX	1	51	24Z156	KIT, replacement, tool box	1
4	26A093	FILTER, element, water tank	1	52	17L633	TOOL, EQ, wrench, 2-7/8	2
9	EQ1500‡◇	FITTING, elbow, swivel, male, 3/8 in.	1	53	17K026‡◇	BOLT, button hd, 3/8-16 x 2.75	4
10	17J343	VALVE,ball,3/4 npt,brass,nickel	1	54	112306†□	PLUG, pipe, 3/8 npt, sst	1
11	24Z156	INSERT, foam, tool box, EcoQuip	1	55	17J781†□	DOOR, enclosure, lg, painted	1
12	190724	NIPPLE, sst	1		17G562‡◇	DOOR, enclosure, lg, front, sst	2
13	17K344	FITTING, elbow, 3/4 npt, sst	1	56	17L625	GASKET, door, vertical	2
14	17H273	ADAPTER, tri-clamp, 1-1/4 npt, sst	1	57	17L625	GASKET, door, horizontal, large	2
15	680454	GASKET, sanitary fitting	7	58	111639	SCREW, cap, hex hd	4
16	17H301	MANIFOLD, unequal-tee	1	59	127918	NUT, flange, serrated, M5	4
17	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	1	60	17B703	DOOR, stay	1
18	17L329	HOSE, inlet media	1	61	128666	SCREW, cap, button hd, m6 x 16, sst	2
19	17J332	VALVE, ball, 1 npt, brass, nickel	1	62	15U698	NUT, hex, flange, serrated	2
20	17J329	COUPLER, cam-lock, sst, 1 nptf	1	63	127908†‡	NUT, flange, serrated, #10-32, ss	2
21	17L332	STRAINER, in line, 80x80 mesh, 3/4 npt	1		127908□◇	NUT, flange, serrated, #10-32, ss	3
22	17J795	HOSE, inlet, water	1	64	17L623	LOCK, door, tooled	1
23	EQ1846	COUPLER, 3/4 qd(f), 3/4 npt(m)	2	65	17L623	LATCH, cam, door lock	1
24	128894	FUSE, blade, atc, 3A	2	66	555629□◇	WASHER, #10 external tooth lock	1
26	17J289	LABEL, instructions	1	67	186620□◇	LABEL, symbol, ground	1
▲				73	26A007‡◇	BRACKET, step	1
28	17D786	CABLE, safety item, hose, whip-c	2	74	26A007‡◇	BRACKET, step, single, 20 in.	1
29	17D787	PIN, safety item, hose, hair c	2	75	26A007‡◇	wide BOLT, carriage	8
30	206994	FLUID, TSL 8 oz. bottle	1	76	17K026‡◇	COVER, media, fill	1
31	EQ1829	FITTING, ground boss, spud, 1-1/2 in.	1	77	17J791‡◇	STRAINER, pressure pot	2
33	EQ1002	VALVE, ball, 3/8 npt, sst	1	78	24Z005‡◇	KIT, acc, air inlet, 1-1/2 npt	1
34	EQ1627	FITTING, nipple, barb, hose, 3/8 in.	1	79	070632	LUBRICANT, anti-seize	1
37	15Y118	LABEL, Made in the USA	1	80	26A031	TOOL, pressure verification	1
38	115813	FITTING, street elbow, 3/4 npt	1	81	113864	UNION, swivel, 1 1/2 npt	1
39	167702	NEEDLE, pipe	1	83	26A007	GROMMET, pump, EQ2	
40	17J331	GASKET, cam lock, buna, 1.0	2				
41	128226†□	NUT, flange, 3/8-16, sst	4				
	128226‡◇	NUT, flange, 3/8-16, sst	16				
42	26A014	CABLE, deadman, battery, male	1				

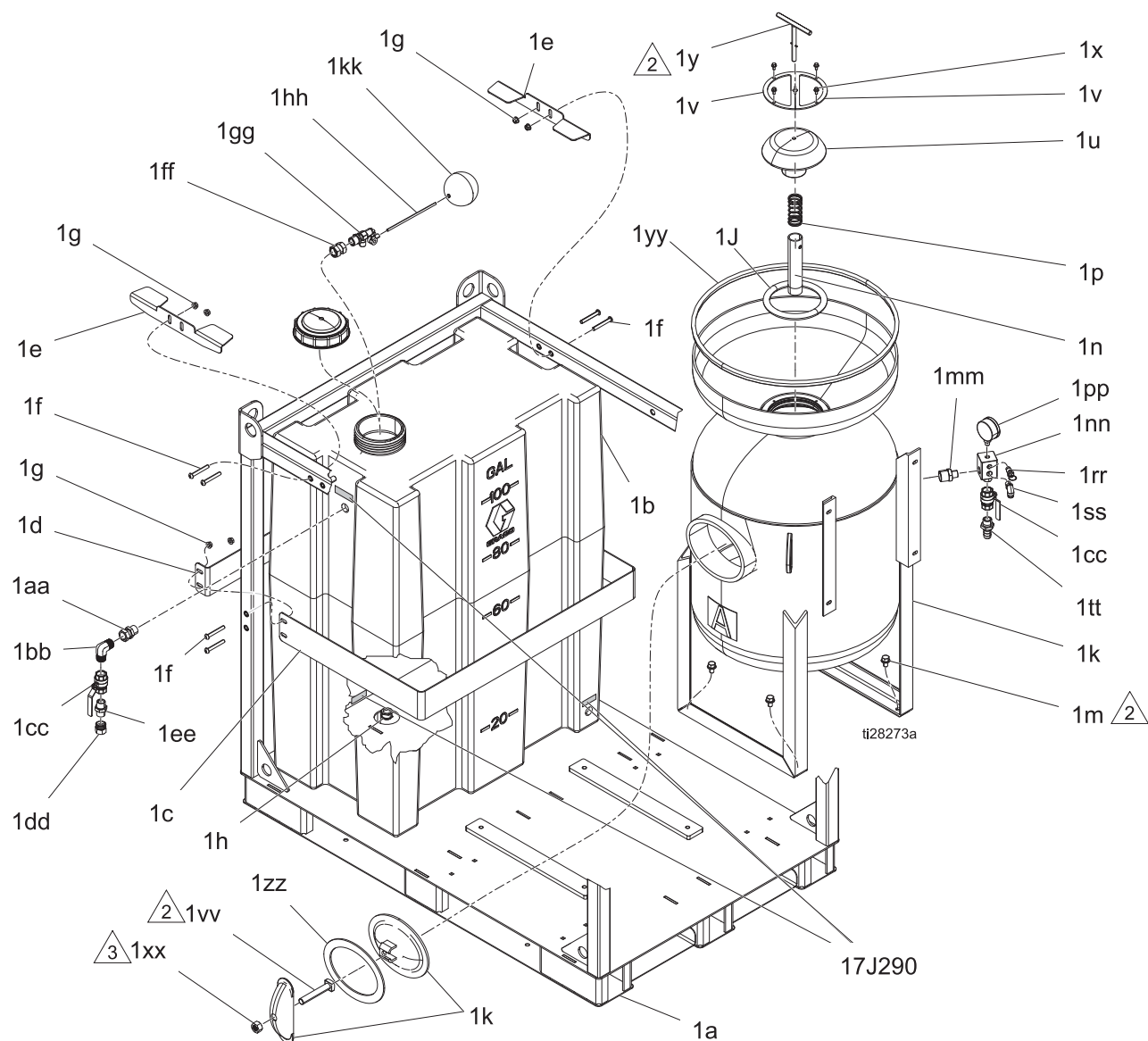
† = 262960 Models, ‡ = 262970 Models, □ = 262961 Models, ◇ = 262971 Models

▲ Replacement Danger and Warning labels are available at no cost.

† = 262960 Models, ‡ = 262970 Models, □ = 262961 Models, ◇ = 262971 Models

▲ Replacement Danger and Warning labels are available at no cost.

EQs (continued)



1. Apply thread sealant to all non-swivel pipe threads.

2. Apply anti-seize to threads.

3. Torque to 60 +/- 5 ft-lb (81.3 +/- 6.7 N·m) with the pot pressurized.

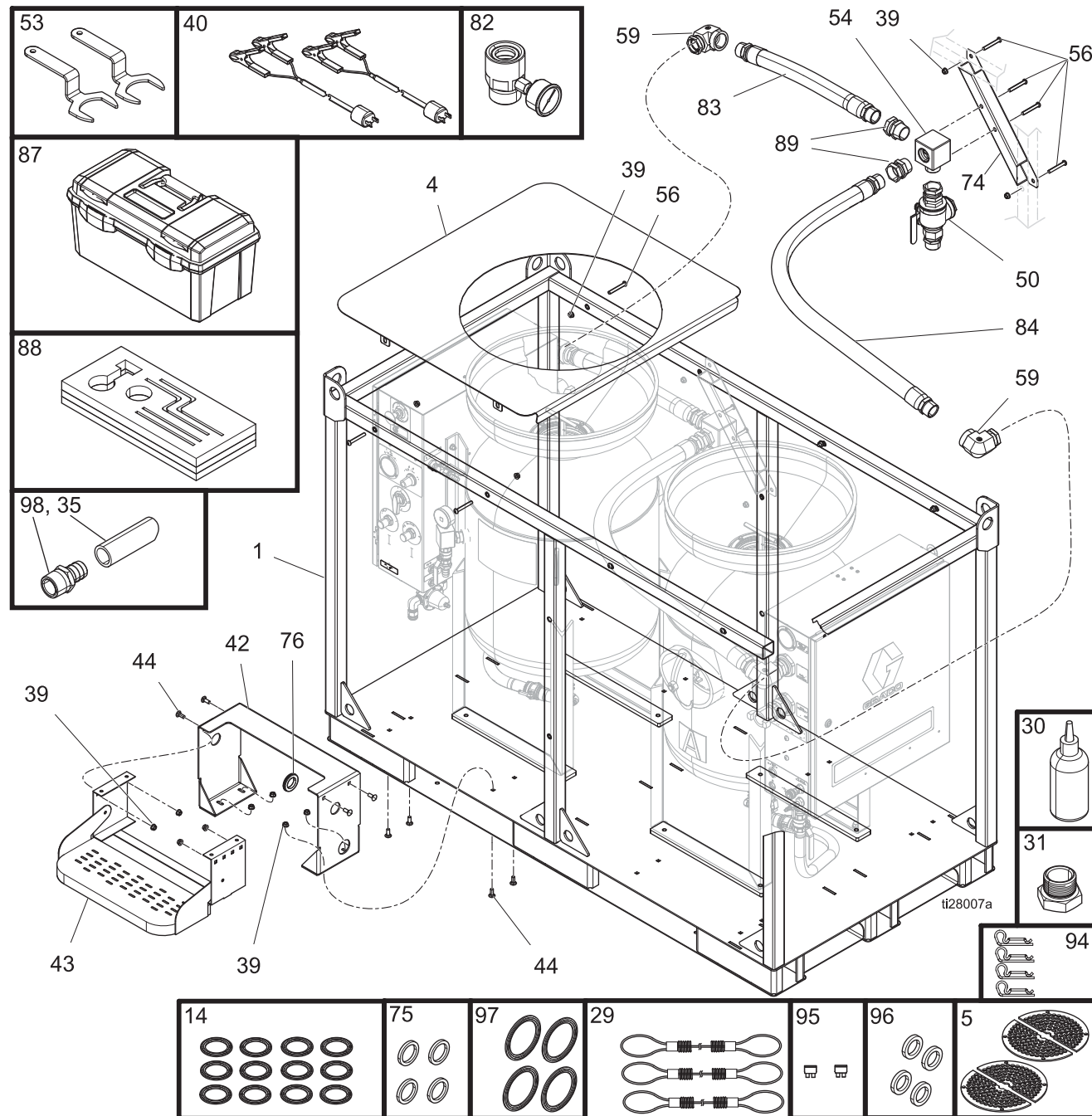
4. Torque to 15 +/- 2 ft-lb (20.3 +/- 2.7 N·m)

EQs Parts List (continued)

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1a		FRAME, EcoQuip 2	1	1bb	17K045	FITTING, elbow, 3/4 npt, sst	1
1b	17K048	TANK, EcoQuip 2, polyethylene	1	1cc	17J343	VALVE, ball, 3/4 npt, brass, nickel	2
1c		BRACKET, sst, tank, lg, EcoQuip 2	1	1dd	190724	NIPPLE, sst	1
1d		BRACKET, sst, tank, sm, EcoQuip 2	1	1ee	EQ7004	FITTING, hose, garden, 3/4 in. mpt	1
1e		BRACKET, sst, tank clamp	2	1ff	17K045	FITTING, bushing	1
1f	128818	BOLT, button hd, 3/8-16 x 2.75	8	1gg	17J956	VALVE, body, float, 1/2 npt	1
1g	128226	NUT, flange, 3/8-16, sst	8	1hh	24W655	ROD, float, 8 in.	1
1h	111384	PLUG, pipe	1	1kk	17K045	FLOAT, round, copper	1
1j	17L310	KIT, seal, o-ring, pressure pot	1	1m-m	128643	FITTING, nipple, reducing, 1 x 1/2, sst	1
1k	17K046	PRESSURE POT, blast media, 6.5 cu ft	1	1nn		MANIFOLD ,dump	1
1m	128819	BOLT, flange hd, serrated, 1/2, ss	4	1pp	17L320	GAUGE, pressure, fluid	1
1n	17H382	PIPE, pop-up	1	1rr	125967	VALVE, safety relief, (200 psi)	1
1p	17F822	SPRING, pop-up, sst	1	1ss	EQ1500	FITTING, elbow. swivel, male. 3/8 in.	1
1r	EQ1475	NUT, lock, nylon insert, 1/2, sst	1	1tt	EQ1012	FITTING, nipple. barb. hose 3/4 in.	1
1s	EQ1152	WASHER, flat, 1/2, sst	1	1vv	17L630	BOLT, hex head, 3/4 x 4 1/2, sst	1
1t	17K343	WASHER, epdm seal, 50 ID, 1.06 OD	1	1xx	17L630	NUT, hex, 3/4-10, sst	1
1u	17L311	SEAL, pop up, machined	1	1yy	128982	TRIM, edge, neoprene, black	6
1v	17L635	BRACKET, pop up, ring	2	1zz	17D790	GASKET, handway, 6 x 8	1
1x	128504	BOLT, flange hd, serrated, 1/4, ss	4				
1y	17L632	HANDLE, T, pop-up, weldment	1				
1aa	17K045	SWIVEL, union	1				

▲ *Replacement Danger and Warning labels are available at no cost.*

EQs2 Parts



1. Apply thread sealant to all non-swivel pipe threads.

EQs2 Parts List

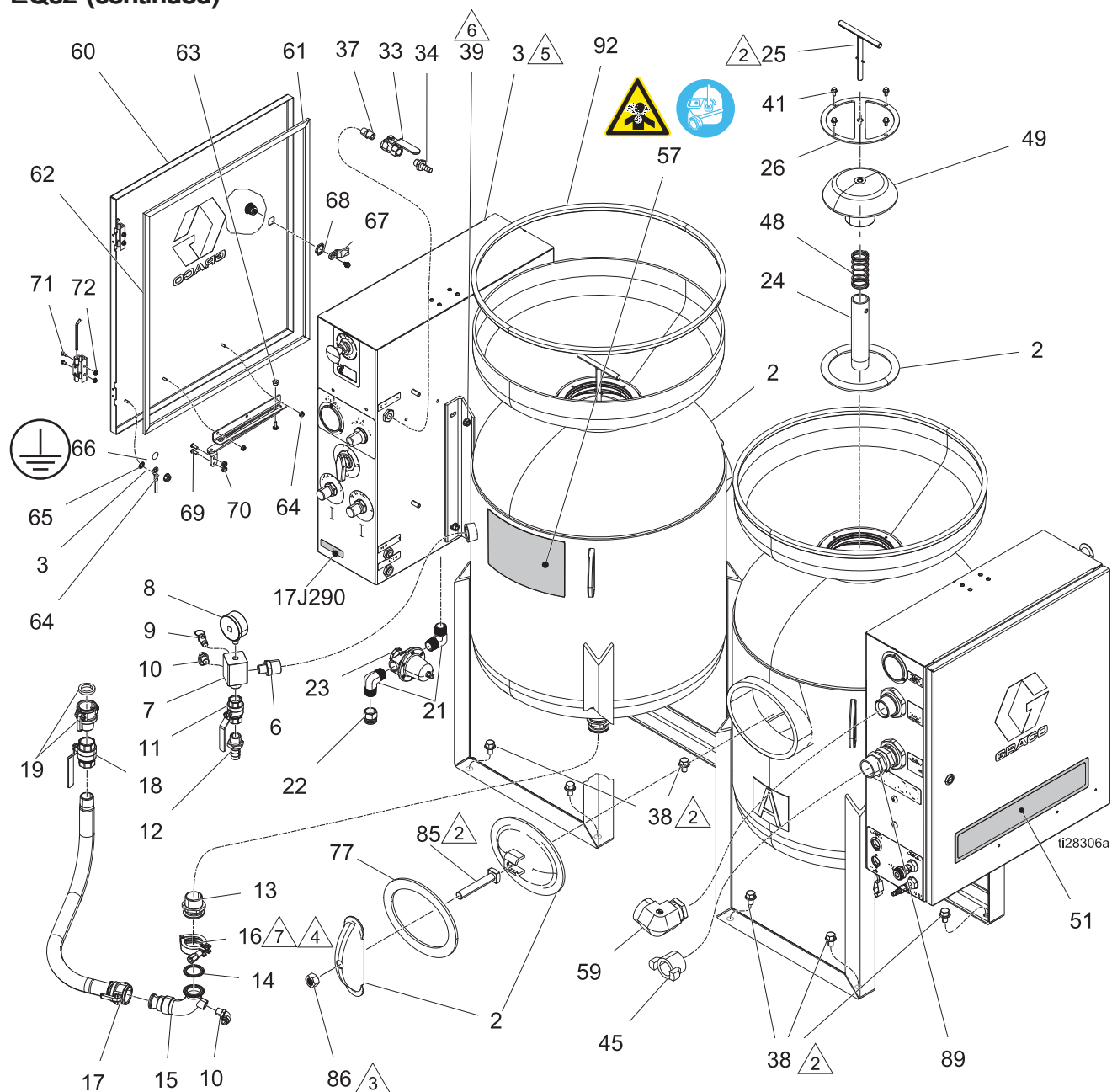
Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		FRAME, EcoQuip 2, dual	1	74	17L078	BRACKET, manifold, dual frame, EQ2	1
4	17K026	COVER, media, fill	2	75	17L119	KIT, nozzle gasket	4
5	17K025	STRAINER, pressure pot	4	76*	128483	GROMMET, pump, EQ2	1
14	680454	GASKET, sanitary fitting	14	82	17J958	TOOL, pressure verification	1
29	EQ5204	KIT, safety, hose, whip checks	3	83	17K875	HOSE, air, dual system, short	1
30	206994	FLUID, TSL 8 oz. bottle	2	84	17K876	HOSE, air, dual system, long	1
31	EQ1829	FITTING, ground boss, spud, 1-1/2 in.	1	87+		BOX, tool, 20 in., black	1
35	EQ1360	HOSE, braided, clear, 3/4 ID	1	88+		INSERT, foam, tool box, EcoQuip	1
39*	128226	NUT, flange, 3/8-16, sst	33	89	113864	UNION, swivel, 1 1/2 npt	4
40	26A014	CABLE, deadman, battery, male (Model 262980 only)	2	94	17D787	PIN, safety item. hose. hair c	4
42*		BRACKET, step	2	95		FUSE, blade, atc, 3a	4
43*		BRACKET, step, single, 20 in. wide	2	96	17J331	GASKET, cam lock, buna, 1.0	4
44*	113956	BOLT, carriage	16	97	502598	GASKET, sanitary (ptfe)	4
50	24Z005	KIT, acc, air inlet, 1-1/2 npt	1	98	17L558	FITTING, 3/4 npt x 3/4 barb, brass	1
53	17L633	TOOL, EQ, wrench, 2-7/8	2				
54		MANIFOLD, air inlet, dual frame, EQ2	1				
56	128818	BOLT, button hd, 3/8-16 x 2.75	10				
59	128934	FITTING, swivel, elbow, 1-1/2 npt, cs	2				

* Included in Step Accessory Kit 26A007

+ Included in Replacement Tool Box Kit 24Z156

▲ Replacement Danger and Warning labels are available at no cost.

EQs2 (continued)



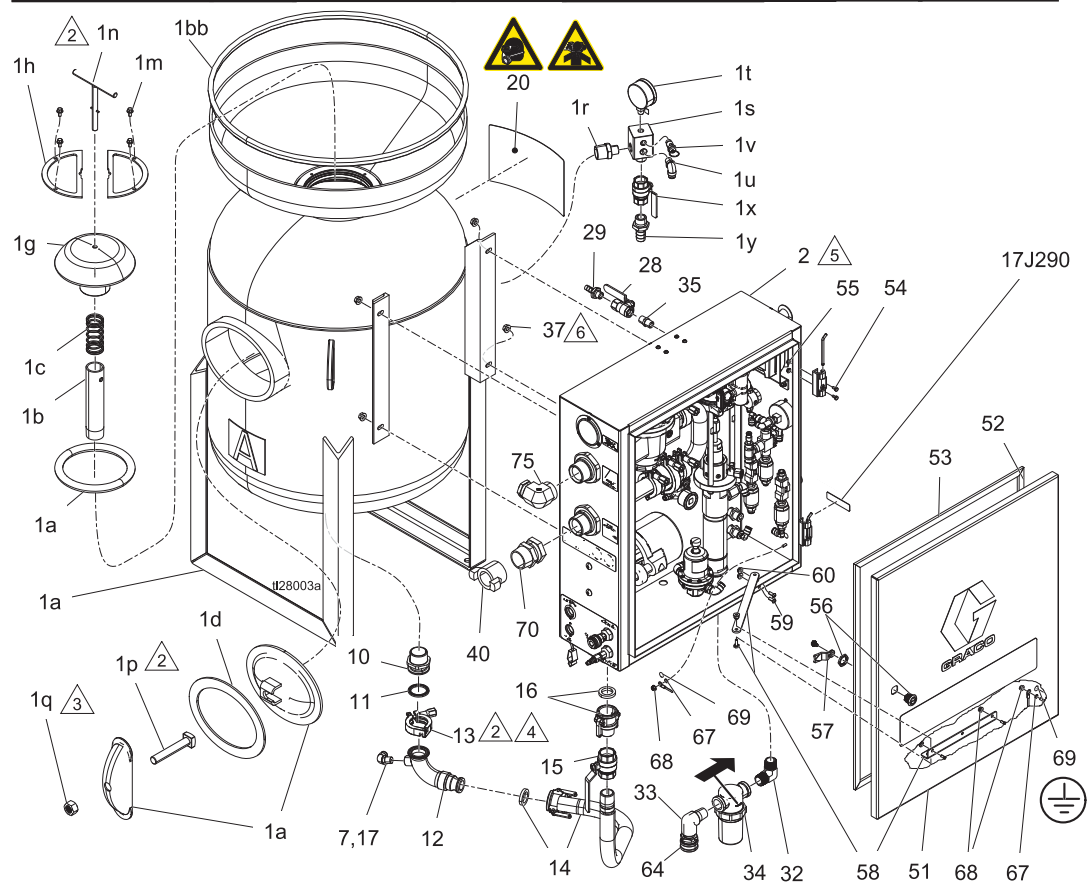
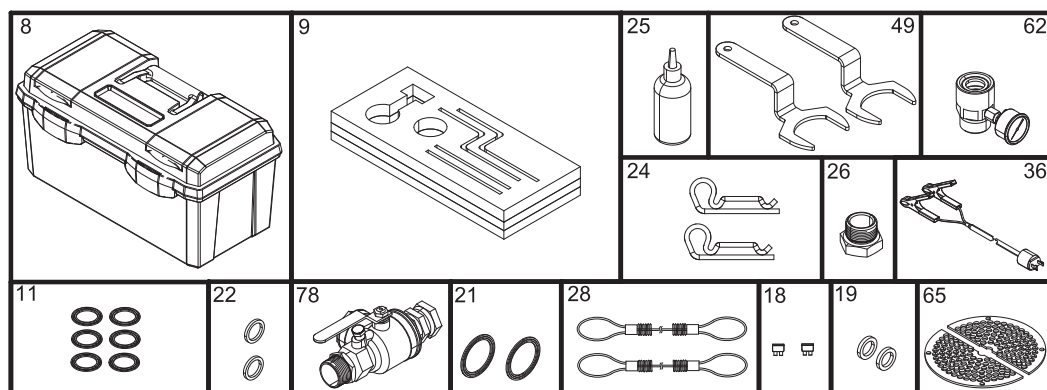
1. Apply thread sealant to all non-swivel pipe threads.

EQs2 Parts List (continued)

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
2	17L050	PRESSURE POT, blast media, 6.5 cu ft	2	38	128819	BOLT, flange hd, serrated, 1/2, ss	8
3		ENCLOSURE, EcoQuip, elite, non-ATEX (Model 262980 only)	2	39	128226	NUT, flange, 3/8-16, sst	33
		ENCLOSURE, EcoQuip, elite, ATEX (Model 262981 only)	2	41	128504	BOLT, flange hd, serrated, 1/4, ss	8
6	128643	FITTING, nipple, reducing, 1 x 1/2, sst	2	45	EQ1934	COUPLER, sandblast, 1-1/2 npt(f), br	2
7		MANIFOLD, dump	2	48	17F822	SPRING, pop-up, sst	2
8	17L320	GAUGE, pressure, fluid	2	49	17L311	SEAL, pop up, machined	2
9	125967	VALVE, safety relief, (200 psi)	2	51		LABEL, brand, EcoQuip, EQs2, Elite	2
10	EQ1500	FITTING, elbow, swivel, male, 3/8"	4	57▲	17J289	LABEL, instructions	1
11	17J343	VALVE, ball, 3/4 npt, brass, nickel	2	60		DOOR, enclosure, lg, front, sst	2
12	EQ1012	FITTING, nipple, barb, hose, 3/4 in.	2	61	17L625	GASKET, door, horizontal, large	4
13	17H273	ADAPTER, tri-clamp, 1-1/4 npt, sst	2	62	17L625	GASKET, door, vertical	4
14	680454	GASKET, sanitary fitting	14	63	17D686	DOOR, stay	2
15		MANIFOLD, unequal-tee	2	64	127908	NUT, flange, serrated, #10-32, ss	6
16	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	2	65	555629	WASHER, #10 external tooth lock	2
17	17L329	HOSE, inlet media	2	66	186620	LABEL, symbol, ground	2
18	17J332	VALVE, ball, 1 npt, brass, nickel	2	67	17L623	LATCH, cam, door lock	2
19	17J329	COUPLER, cam-lock, sst, 1 nptf	2	68	17L623	LOCK, door, tooled	2
21	17K344	FITTING, elbow, 3/4 npt, sst	4	69	128666	SCREW, cap, button hd, m6 x 16, sst	4
22	EQ7004	FITTING, hose. garden. 3/4 in. mpt x	2	70	15U698	NUT, hex, flange, serrated	4
23	17J372	VALVE, pressure reducing, 3/4 npt	2	71	111639	SCREW, cap, hex hd	8
24	17H382	PIPE, pop-up	2	72	127918	NUT, flange, serrated, m5	8
25	17L632	HANDLE, T, pop-up	2	77	17D790	GASKET, handway, 6 x 8	1
26	17L635	BRACKET, pop up, ring (includes four 128504)	4	85	17L630	BOLT, sq head, 3/4 x 4-1/2, sst	1
27	EQ1475	NUT, lock, nylon insert, 1/2, sst	2	86	17L630	NUT, hex, 3/4-10, sst	2
33	17L642	VALVE, ball, 3/8 npt, sst	2	89	113864	UNION, swivel, 1 1/2 npt	4
34	EQ1627	FITTING, nipple, barb, hose. 3/8 in.	2	91	15Y118	LABEL, Made in the USA	1
37	167702	NIPPLE, pipe	2	92	128982	TRIM, edge, neoprene, black	12.5

▲ Replacement Danger and Warning labels are available at no cost.

EQC Parts



1. Apply thread sealant to all non-swivel pipe threads.



Apply anti-seize to threads.



Torque to 60 +/- 5 ft-lb (81.3 +/- 6.7 N•m) with pot pressurized.



Torque to 15 +/- 2 ft-lb (20.3 +/- 2.7 N•m)



Apply anti-seize to enclosure mounting studs.



Torque to 25–30 ft-lb (34–40.6 N•m)

EQC Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1a	17K046	PRESSURE POT, blast, media, 6.5 cu ft	1	25	206994	FLUID, TSL 8 oz. bottle	1
1b	17H382	PIPE, pop-up	1	26	EQ1829	FITTING, ground boss, spud, 1-1/2 in.	1
1c	17F822	SPRING, pop-up, sst	1	28	EQ1002	VALVE, ball, 3/8 npt, sst	1
1d	17D790	GASKET, hardway	1	29	EQ1627	FITTING, nipple, barb, hose, 3/8 in.	1
1g	17L311	SEAL, pop-up	1	32	17K344	FITTING, elbow, 3/4 npt, sst	1
1h	17L632	BRACKET, pop-up	1	33	115813	FITTING, street elbow, 3/4 npt	1
1j	17L310	O-RING, pot	1	34	17L332	STRAINER, inline, 80 x 80 mesh, 3/4 npt	1
1m	128504	BOLT, flange hd, serrated, 1/4, ss	2	35	166469	NIPPLE, pipe hex	1
1n	17L632	HANDLE, t, pop-up, weldment	4	36	26A014	CABLE, deadman, battery, male	1
1p	129057	BOLT, square head, 3/4 x 4 1/2, sst	1	37	128226	NUT, flange, 3/8-16, sst	4
1q	17K962	NUT, hex, 3/4-10, sst	1	40	EQ1934	COUPLER, sandblast, 1-1/2 npt(f), br	1
1r	128643	FITTING, nipple, reducing, 1 x 1/2, sst	1	49	17L633	TOOL, EQ, wrench, 2-7/8	2
1s		MANIFOLD, dump	1	51		DOOR, enclosure, lg	1
1t	187873	GAUGE, pressure, fluid	1	52+		GASKET, door, vertical	2
1u	EQ1500	FITTING, elbow, swivel, male, 3/8 in.	1	53+		GASKET, door, horizontal, small	2
1v	125967	VALVE, safety relief, (200 psi)	1	54	111639	SCREW, cap, hex hd	4
1x	17J343	VALVE, ball, 3/4 npt, brass, nickel	1	55	127918	NUT, flange, serrated, m5	4
1y	EQ1012	FITTING, nipple, barb, hose, 3/4 in.	1	56□		LOCK, door, tooled	1
1bb	128982	TRIM, edge, neoprene, black	6.25	57□		LATCH, cam, door lock	1
2		ENCLOSURE, EcoQuip	1	58	17B703	DOOR, stay	1
7	EQ1500 □‡⊕	FITTING, elbow, swivel, male, 3/8 in.	1	59	128666	SCREW, cap, button hd, m6 x 16, sst	2
8*		BOX, tool, 20 in., black	1	62	17J958	TOOL, pressure verification	1
9*		INSERT, foam, tool box, EcoQuip	1	64	EQ1846	COUPLER, 3/4 qd(f), 3/4 npt(m), br	1
10	17H273	ADAPTER, tri-clamp, 1-1/4 npt, sst	1	65	17K025 □‡⊕	STRAINER, pressure pot	2
11	680454	GASKET, sanitary fitting	7	67	555629◇⊕	WASHER, #10 external tooth lock	1
12	17L631	MANIFOLD, unequal-tee	1	68	127908 †□‡	NUT, flange, serrated, #10-32, ss	2
13	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	1		127908◇⊕	NUT, flange, serrated, #10-32, ss	3
14	17J355	HOSE, inlet media	1	69▲	186620◇⊕	LABEL, symbol, ground	1
15	17L312	VALVE, ball, 1 npt, brass, nickel	1	70	113864	UNION, swivel, 1 1/2 npt	1
16	17J329	COUPLER, cam-lock, sst, 1 nptf	1				
17	112306†◇	PLUG, pipe, 3/8 npt, sst	1				
18	EQ1844	FUSE, blade, atc, 3A	2				
19	17L309	GASKET, cam lock, buna, 1.0	2				
20▲	17J289	LABEL, instructions	1				
21	502598	GASKET, sanitary (PTFE)	2				
22	EQ1051	GASKET, blast nozzle	2				
24	17D787	PIN, safety item, hose, hair c	2				

† = 273200 Models, ‡ = 273205 Models, □ = 273204 Models, ◇ = 273201 Models, ⊕ = 273207 Models

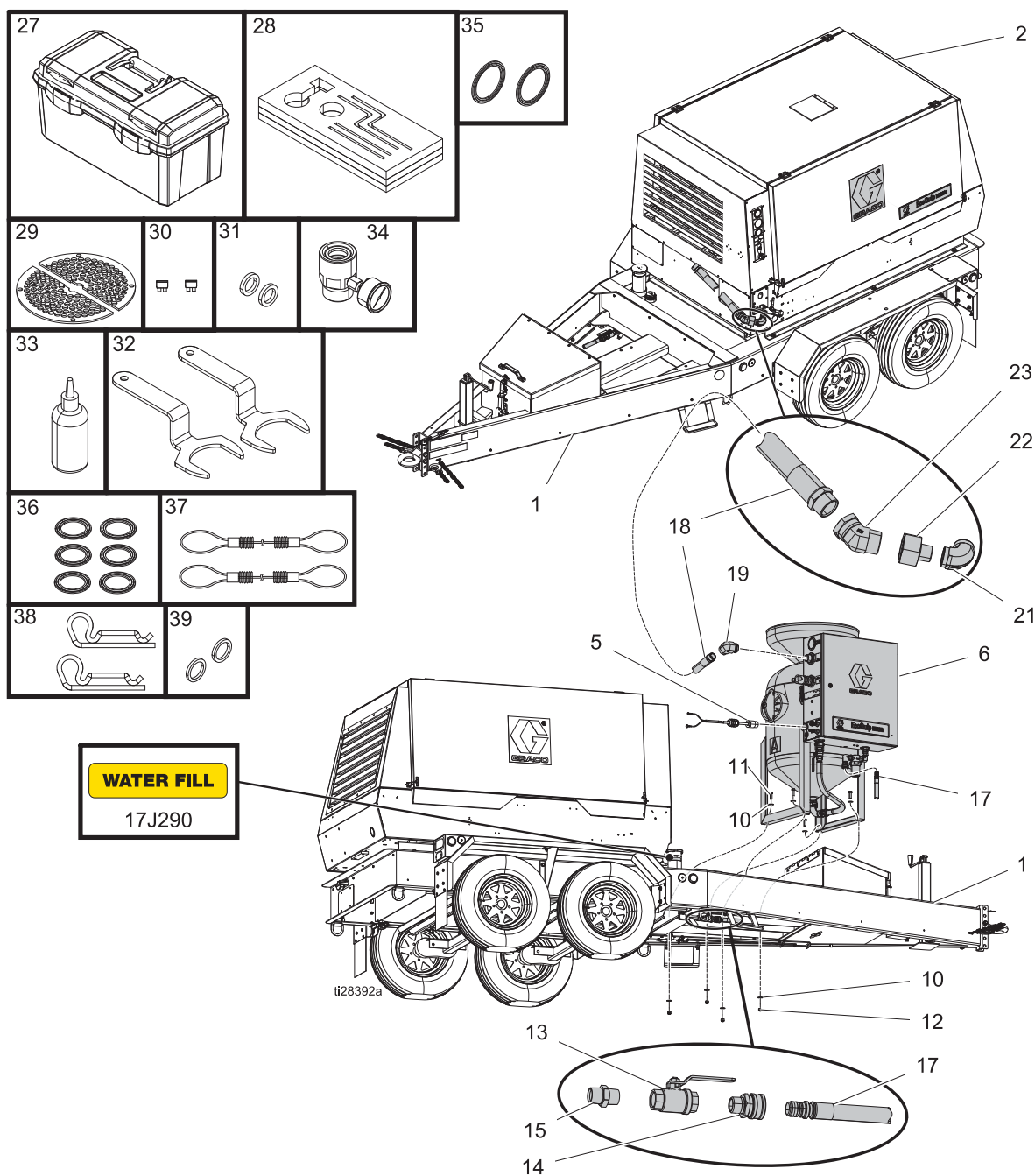
* Included in Replacement Tool Box Kit 24Z156

+ Included in Large Door Gasket Kit 17L625

□ Included in Lock/Hatch Kit 17L623

▲ Replacement Danger and Warning labels are available at no cost.

EQ200T Parts

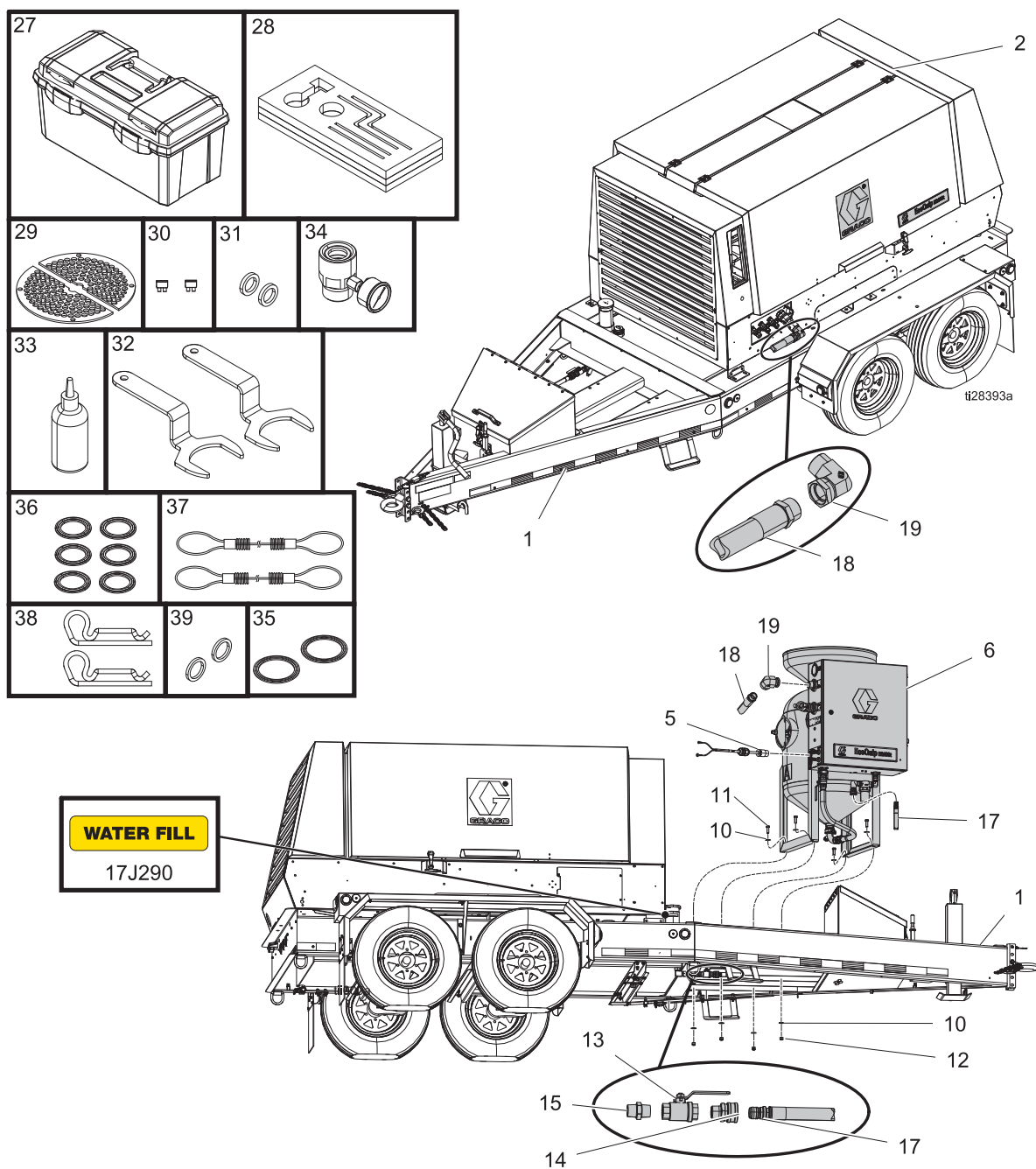


1. Apply thread sealant to all non-swivel pipe threads.

EQ200T Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		TRAILER, GL7, electric brakes	1	23	129010	FITTING, elbow, 45, mx, cs	1
2		COMPRESSOR, 210 cfm, skid mount	1	27	24Z156	KIT, replacement, tool box	1
5	17L039	CABLE, battery, deadman, trailer	1	28	24Z156	INSERT, foam, tool box, EcoQuip	1
6		MODULE, EcoQuip, EQC, elite trailer	1	29	17K025	STRAINER, pressure pot	2
10	EQ1152	WASHER, flat, 1/2, sst	8	30	EQ1844	FUSE, blade, 3A	2
11	EQ1519	BOLT, hex hd, 1/2 X 1-1/2, sst	4	31	17J331	GASKET, cam lock, buna	2
12	EQ1475	NUT, lock, nylon insert, 1/2, sst	4	32	17L633	TOOL, EQ, wrench, 2-7/8	2
13	EQ1003	VALVE, ball, 3/4 npt, sst	1	33	206994	FLUID, TSL 8 oz bottle	1
14	EQ1846	COUPLER, 3/4 qd(f), 3/4 npt(m), br	1	34	17J958	TOOL, pressure verification	1
15	190724	NIPPLE, sst	1	35	502598	GASKET, sanitary (PTFE)	2
17	EQ1848	HOSE, water, EQ2040. 3/4 in. ID	1	36	680454	GASKET, sanitary fitting	6
18	17K877	HOSE, air, trailer system, GL7	1	37	17D786	CABLE, safety item, hose, whip c	4
19	128934	FITTING, swivel, elbow, 1-1/2 npt, cs	1	38	17D787	PIN, safety item, hose, hair c (6 pack)	4
21	129011	FITTING, elbow, 90 ,fx, cs	1	39	EQ1051	GASKET, blast nozzle	2
22	129012	FITTING, reducer, mx, cs	1	▲ Replacement Danger and Warning labels are available at no cost.			

EQ400T3 Parts

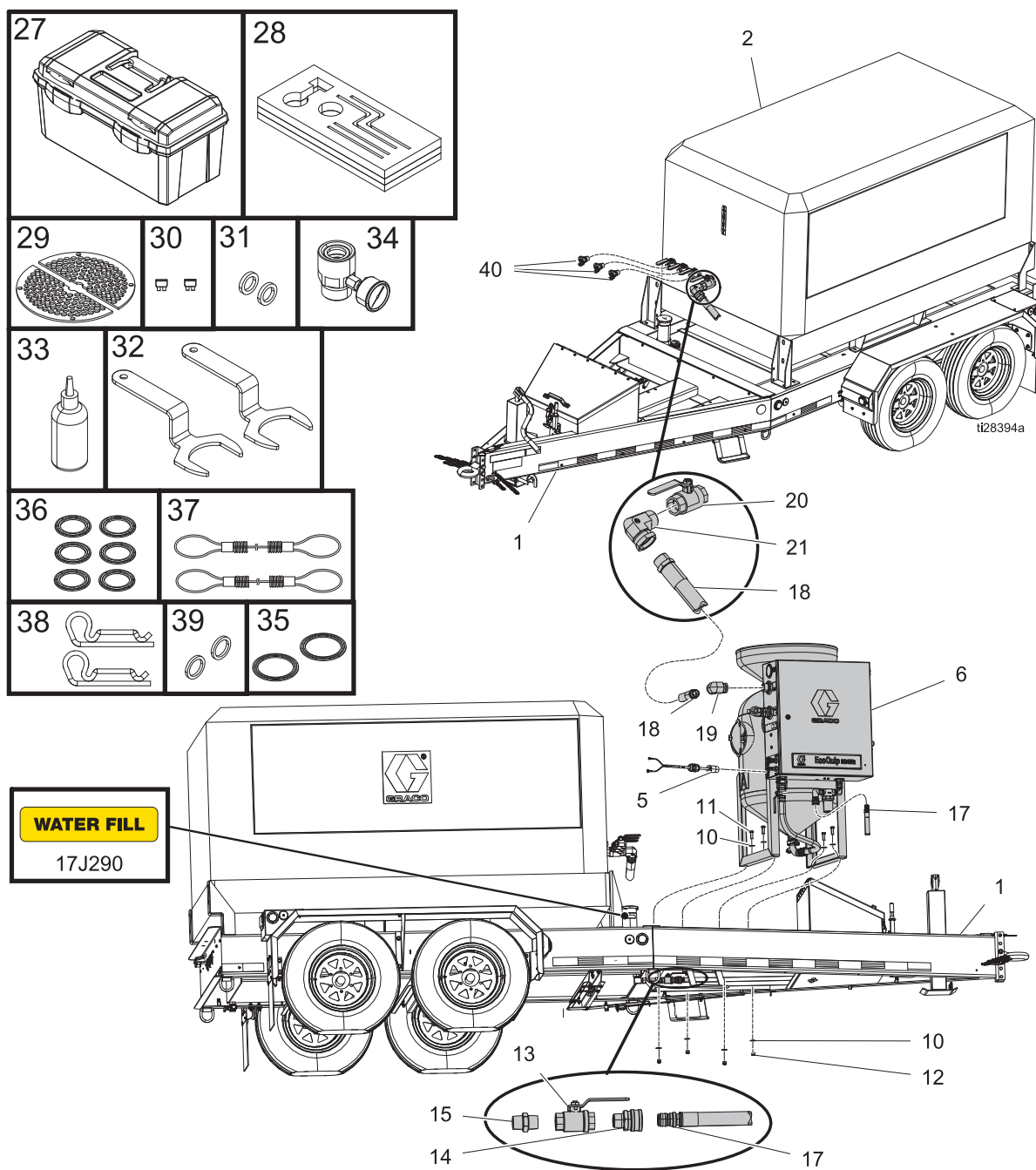


1. Apply thread sealant to all non-swivel pipe threads.

EQ400T3 Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		TRAILER, GL10, electric brakes	1	27	24Z156	KIT, replacement, tool box	1
2		COMPRESSOR, 375 cfm, skid mount	1	28	24Z156	INSERT, foam, tool box, EcoQuip	1
5	17L039	CABLE, battery, deadman, trailer	1	29	17K025	STRAINER, pressure pot	2
6		MODULE, EcoQuip, EQC, elite, trailer	1	30	EQ1844	FUSE, blade, atc, 3A	2
10	EQ1152	WASHER, flat, 1/2, sst	8	31	17J331	GASKET, cam lock, buna, 1.0	2
11	EQ1519	BOLT, hex hd, 1/2 x 1-1/2, sst	4	32	17L633	TOOL, EQ, wrench, 2-7/8	2
12	EQ1475	NUT, lock, nylon insert, 1/2, sst	4	33	206994	FLUID, TSL 8 oz. bottle	1
13	EQ1003	VALVE, ball, 3/4 npt, sst	1	34	17J958	TOOL, pressure verification	1
14	EQ1846	COUPLER, 3/4 qd(f), 3/4 npt(m), br	1	35	502598	GASKET, sanitary (ptfe)	2
15	190724	NIPPLE, sst	1	36	680454	GASKET, sanitary fitting	6
17	EQ1848	HOSE, water, EQ2040, 3/4 in. ID	1	37	17D786	CABLE, safety item, hose, whip-c	4
18	17K878	HOSE, air, trailer system, GL10	1	38	17D787	PIN, safety item, hose, hair c (6 pack)	4
19	128934	FITTING, swivel, elbow, 1-1/2 npt, cs	1	39	EQ1051	GASKET, blast nozzle	2
21	129009	FITTING, elbow, 90, mx, cs	1	▲ <i>Replacement Danger and Warning labels are available at no cost.</i>			

EQ400T4i Parts



1. Apply thread sealant to all non-swivel pipe threads.

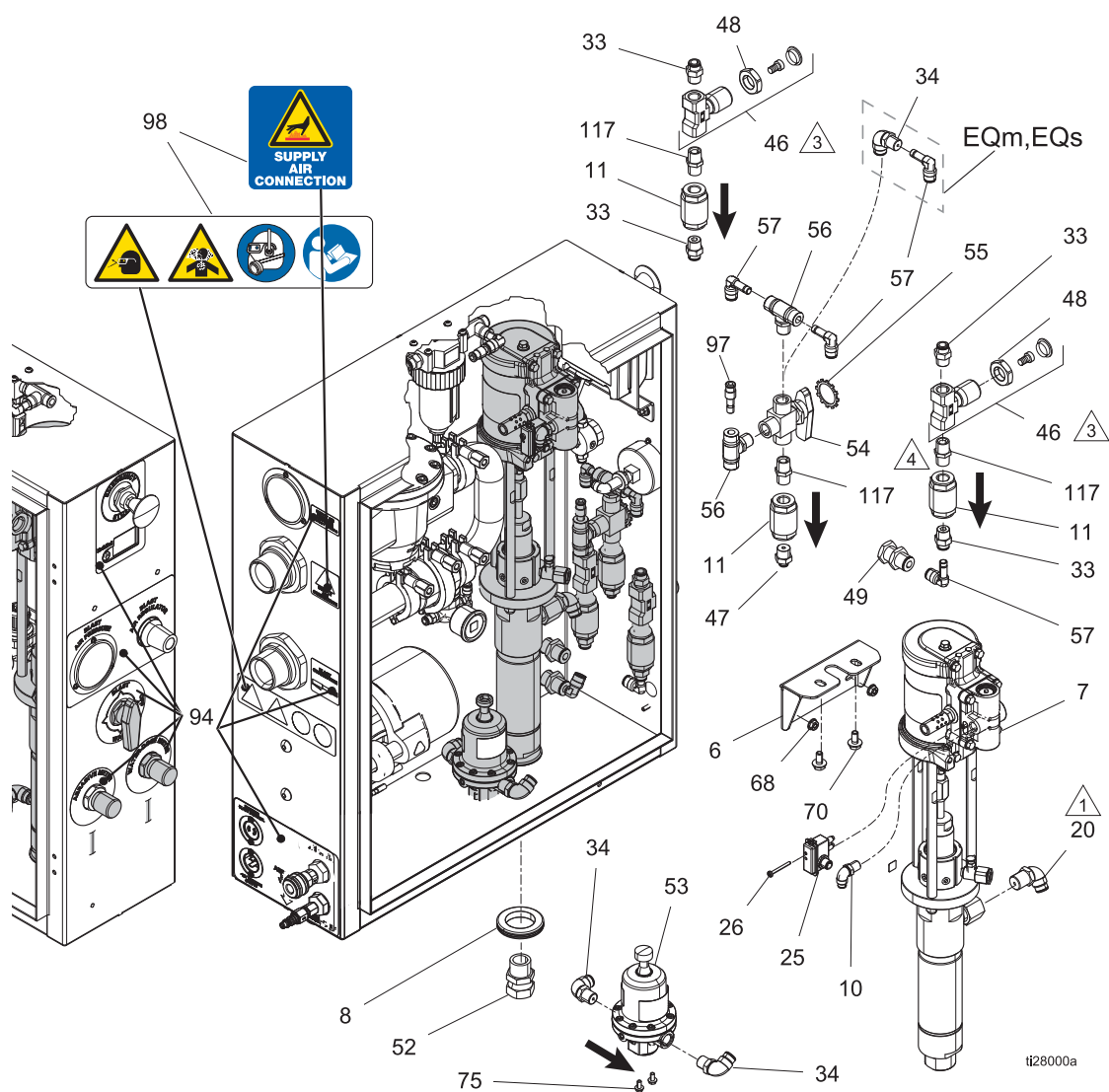
EQ400T4i Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		TRAILER, GL10, electric brakes	1	21	129009	FITTING, elbow, 90, mxf, cs	1
2		COMPRESSOR, 425 cfm, skid mount	1	27	24Z156	KIT, replacement, tool box	1
5	17L039	CABLE, battery, deadman, trailer	1	28	24Z156	INSERT, foam, tool box, EcoQuip	1
6		MODULE, EcoQuip, EQC, elite, trailer	1	29	17K025	STRAINER, pressure pot	2
10	EQ1152	WASHER, flat, 1/2, sst	8	30	EQ1844	FUSE, blade, atc, 3A	2
11	EQ1519	BOLT, hex hd, 1/2 x 1-1/2, sst	4	31	17J331	GASKET, cam lock, buna, 1.0	2
12	EQ1475	NUT, lock, nylon insert, 1/2, sst	4	32	17L633	TOOL, EQ, wrench, 2-7/8	2
13	EQ1003	VALVE, ball, 3/4 npt, sst	1	33	206994	FLUID, TSL 8 oz. bottle	1
14	EQ1846	COUPLER, 3/4 qd(f), 3/4 npt(m), br	1	34	17J958	TOOL, pressure verification	1
15	190724	NIPPLE, sst	1	35	502598	GASKET, sanitary (PTFE)	2
17	EQ1848	HOSE, water. EQ2040, 3/4 in. ID	1	36	680454	GASKET, sanitary fitting	6
18	17K878	HOSE, air, trailer system, GL10	1	37	17D786	CABLE, safety item, hose, whip-c	4
19	128934	FITTING, swivel, elbow, 1-1/2 npt, cs	1	38	17D787	PIN, safety item, hose, hair (6 pack)	4
20	17L644	VALVE, ball, 1-1/4 npt, sst	1	39	EQ1051	GASKET, blast nozzle	2

▲ *Replacement Danger and Warning labels are available at no cost.*

Enclosure Box Parts

Enclosure Parts

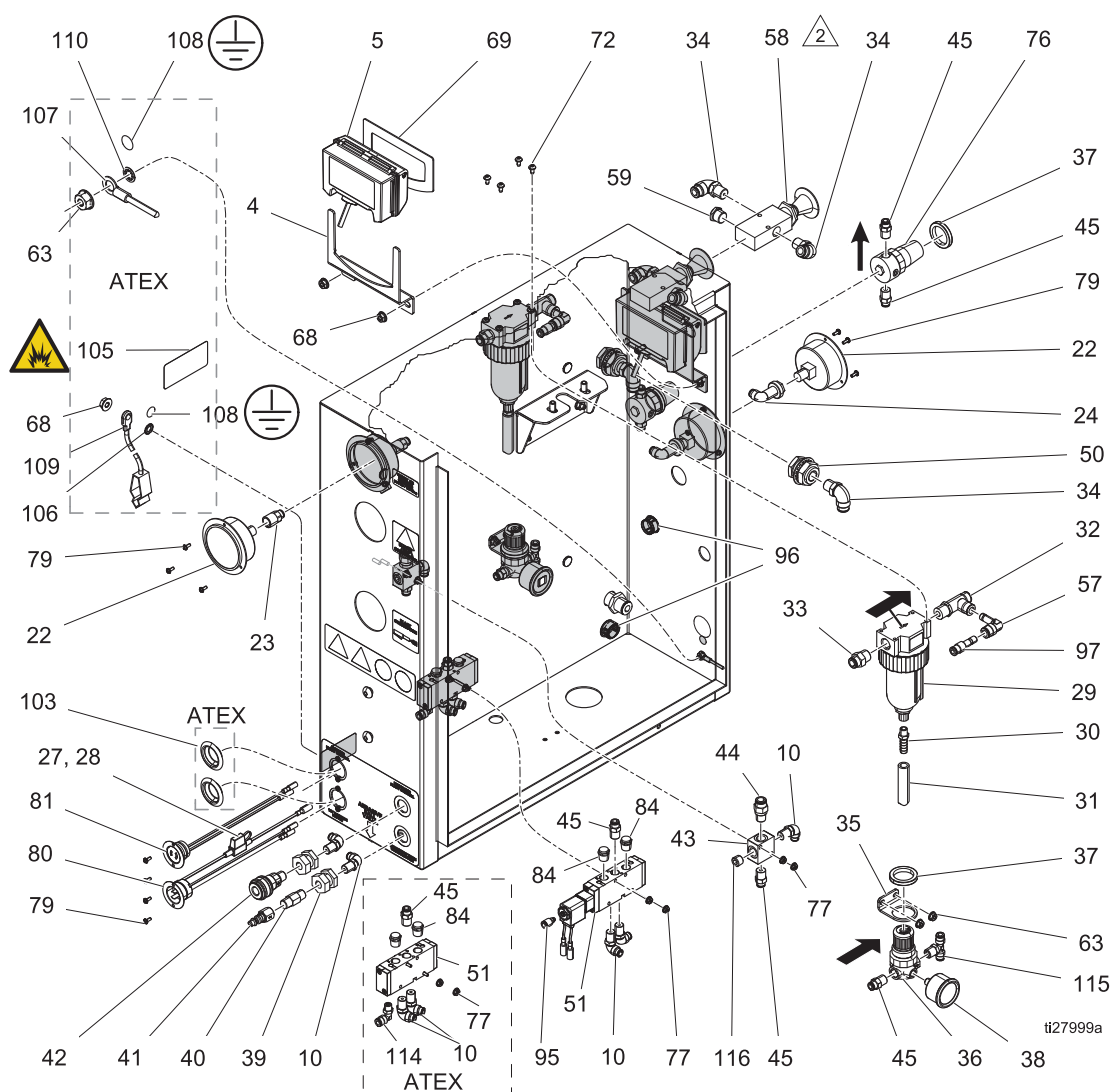



- 1 Torque fitting with pump outlet fitting to 35–40 ft-lb (47.4–54.2 N•m)
- 3 Apply thread sealant to needle valve knob screw when reassembling. Align knob with 'D' facing up when in closed position.
- 4 Apply thread sealant to selector valve handle set screw when reassembling.

Parts

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
6		BRACKET, pump	1	54	17K055	VALVE, selector, 3-way, 3/8 npt, br	1
7	25A531	PUMP, water, sst, 3:1	1	55	118160	WASHER, lock, external	1
8	128483	GROMMET, pump, EQ2	1	56	EQ1832	FITTING, tee, branch, swivel male	2
10	121022	FITTING, elbow, male, 1/4 npt	1	57	EQ1122	FITTING, elbow, stem, 3/8 in.	5
11	EQ1034	VALVE, check, 3/8 in., sst	3	68	127917	NUT, flange, serrated, 1/4-20, ss	4
20	EQ1798	FITTING, ptc, elbow, 1/2 mpt, 3/8 od	1	70	111799	SCREW, cap, hex hd	2
25+		SWITCH, reed assy	1	75	128670	BOLT, flange hd, serrated, m5, sst	2
26+		FASTENER, screw, slot hex, #8-32 tap	1	94	17J290	LABEL, instructions	1
33	128638	FITTING, ptc, straight, 3/8	6	97	EQ1759	FITTING, stem, reducer	2
34	EQ1500	FITTING, elbow, swivel, male, 3/8 in.	6	98▲	17J291	LABEL, safety	1
46*		VALVE, needle, 3/8 npt, brass	2	117	167702	NIPPLE, pipe	3
47	128798	FITTING, ptc, 1/4 tube, 3/8 mpt	1	* Included in Needle Valve Kit 17K056. + Included in Reed Switch Kit 24B659. ▲ <i>Replacement Danger and Warning labels are available at no cost.</i>			
48*	17H280	NUT, m20, needle valve	2				
49	EQ1115	BULKHEAD, connector, union, 3/8 in.	2				
52	112268	SWIVEL, union	1				
53	17L324	REGULATOR, pressure, water, 185 psi	1				

Enclosure Parts (continued)



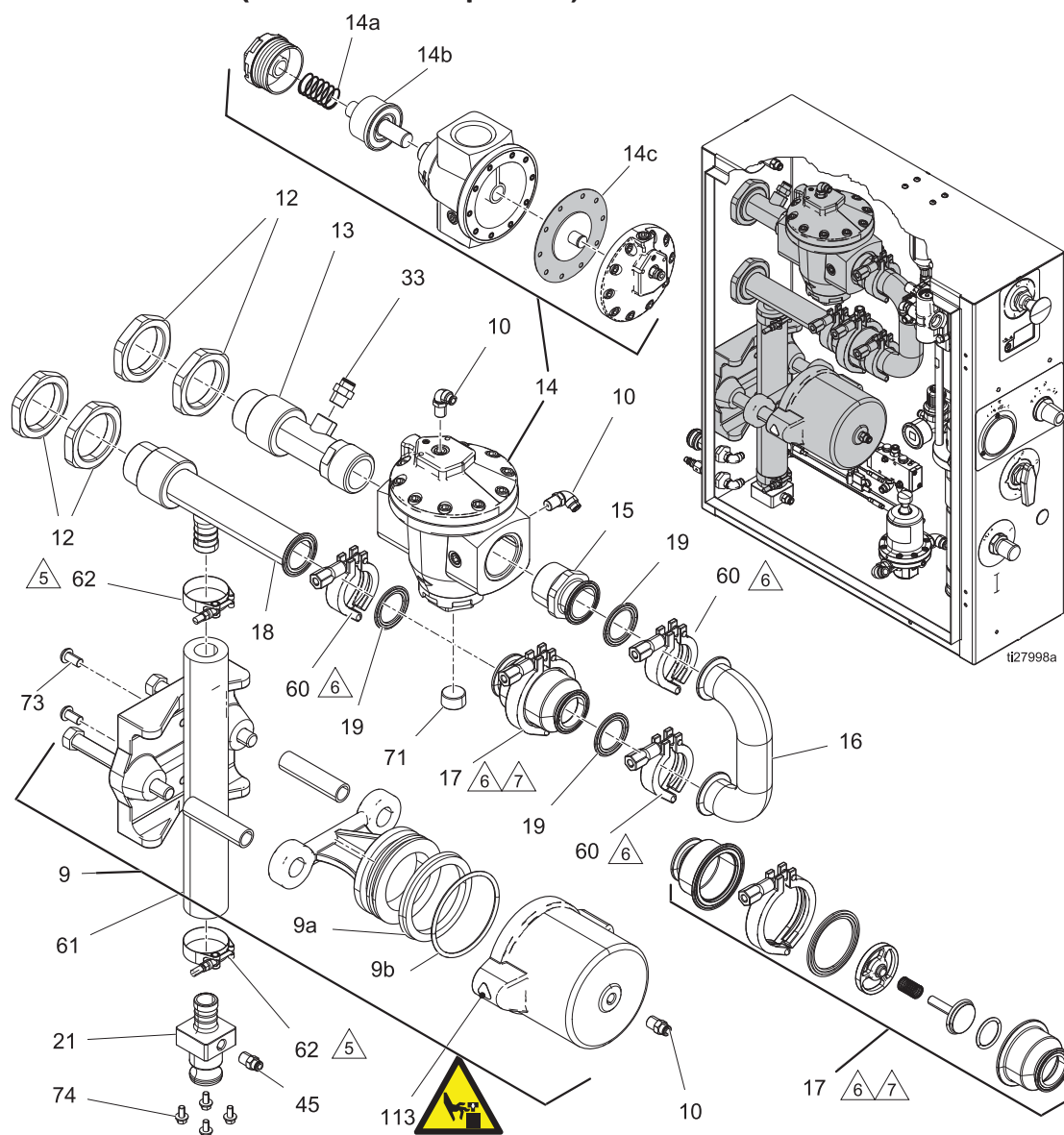
 Apply thread sealant to emergency stop valve stem when reassembling the red knob.

Parts

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
4		BRACKET, EcoQuip, DataTrak	1	57	EQ1122	FITTING, elbow, stem, 3/8 in.	3
5	17K057	ENCLOSURE, DataTrak, EcoQuip	1	58	EQ5108	VALVE, 3-way. e-stop, 3/8 in. fpt 3	1
10	121022	FITTING, elbow, male, 1/4 npt	5	59	EQ1438	VENT, breather, 3/8 npt	1
22	17L319	GAUGE, flange mount, 2.5", 200 psi	2	63	127908	NUT, flange, serrated, #10-32, ss	2
23	128725	FITTING, ptc, 1/4 tube, 1/4 npt	1	68	127917	NUT, flange, serrated, 1/4-20, ss	5
24	EQ1113	FITTING, elbow, swivel, female	1	69	17C001	GASKET, EcoQuip, DataTrak	1
27	17J363	HOLDER, fuse, assy	1	72	128502	SCREW, pan, type f, #10-24, 3/8, sst	4
28	EQ1844	FUSE, blade, atc, 3a	1	76	110318	REGULATOR, air, 1/4 in. npt	1
29	106148	FILTER, air, 3/8 npt	1	77	128672	NUT, serrated flange, #6-32, sst	4
30	128273	FITTING, barb x npt, brass	1	79	127929	SCREW, sems, #6-32, 3/8 in., sst	10
31	EQ1840	HOSE, braided, clear, 3/8 id	2	80	17L325	PLUG, flanged, twist-lok, m, assy	1
32	128634	FITTING, ptc, tee, run, 3/8 in.	1	81	17L326	PLUG, flanged, twist-lok, f, assy	1
33	128638	FITTING, ptc, straight, 3/8 in.	4	84	121021	MUFFLER, 1/4 npt	2
34	EQ1500	FITTING, elbow, swivel, male, 3/8 in.	5	95	128888	FITTING, ptc, 1/4 tube, m5	1
35	17G567	BRACKET, regulator, EQ2	1	96	128500	PLUG, hole, snap-in, black, 22 mm	2
36	17L322	REGULATOR, air, adj, 100 psi	1	97	EQ1759	FITTING, stem, reducer	2
37	115244	NUT, regulator	2	103	128892	PLUG, hole, black	2
38	17L323	GAUGE, pressure, 1.5 in., 160 psi	1	105▲	16P265	LABEL, safety, warning, explosion	1
39	123390	FITTING, fitting, 1/4 npt, brs	2	106	100985	WASHER, lock ext	1
40	EQ1814	FILTER, in-line, 1/4 npt(m)	1	107	194337	WIRE, grounding, door	1
41	EQ1421	COUPLER, air, 1/4 qd(m), 1/4 npt(f), br	1	108▲	186620	LABEL, symbol, ground	2
42	EQ1813	COUPLER, air, 1/4 qd(f), 1/4 npt(m), br	1	109	237686	WIRE, ground assembly w/ clamp	1
43	128479	MANIFOLD, 4-port, 1/4 npt	1	110	555629	WASHER, #10 external tooth lock	1
44	128636	FITTING, ptc, 3/8 tube, 1/4 npt	1	114	128863	FITTING, ptc, elbow, 1/4 od, 1/8 npt	1
45	128637	FITTING, ptc, straight, 1/4	7	115	128864	FITTING, ptc, tee, branch, 1/4 od/npt	1
50	16N177	FITTING, bulkhead, brass, 3/8	1	116	101970	PLUG, pipe, hdls	1
51	17K053	VALVE, solenoid, elec/pneu, assy	1				
51	17K054	VALVE, pilot, 4-way	1				
51	17K053	KIT, solenoid, electric, pneu	1				

▲ Replacement Danger and Warning labels are available at no cost.

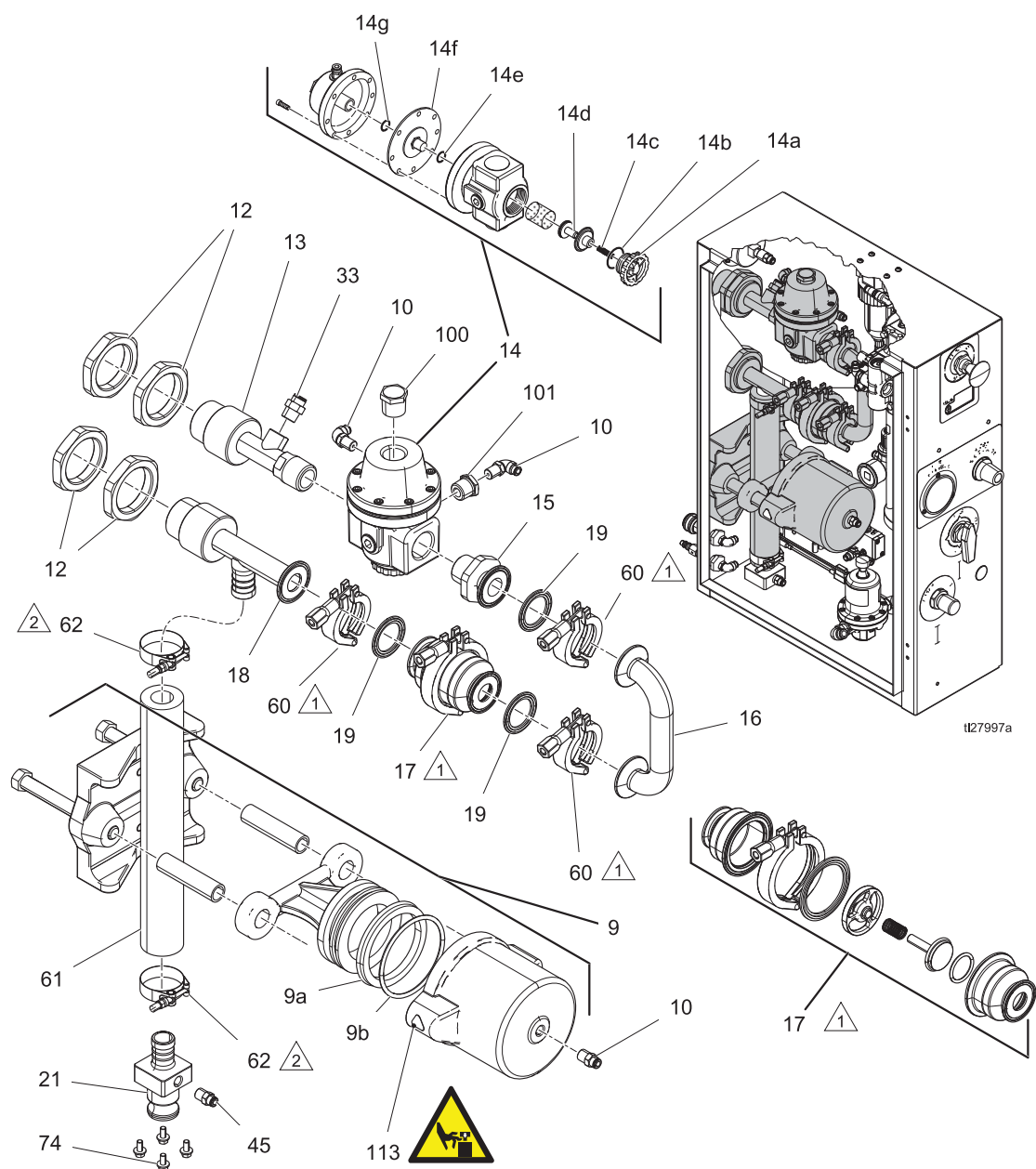
Enclosure Parts (All models except EQm)



Parts

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
9	128720	VALVE, pinch	1	21		MANIFOLD, slurry, barb/cam-lock	1
9a		SEAL, wiper	1	33	128638	FITTING, ptc, straight, 3/8	1
9b		SEAL, o-ring	1	45	128637	FITTING, ptc, straight, 1/4	1
10	121022	FITTING, elbow, male, 1/4 npt	3	60	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	3
12	17G574	NUT, bulkhead, 2-1/4, sst	4	61	17K051	HOSE, pinch	1
13		MANIFOLD, blast circuit, 1.5, top	1	62	128642	CLAMP, hose, t-bolt, 1.75-2.00, sst	2
14		REGULATOR, main air non-relieving	1	73	128787	BOLT, button hd, 3/8-16 x 3/4, ss	2
15	17G576	ADAPTER, tri-clamp, 1-1/2 npt, sst	1	74	128504	BOLT, flange hd, serrated, 1/4, ss	4
16		MANIFOLD, blast circuit, 1.5, bend	1	113▲	15F744	LABEL, warning, iso pinch hazard	1
17		VALVE, check, sanitary, 1.5 inch	1	▲ Replacement Danger and Warning labels are available at no cost.			
18		MANIFOLD, blast circuit, 1.5, bottom	1				
19	680454	GASKET, sanitary fitting	3				

Enclosure Parts (EQm only)



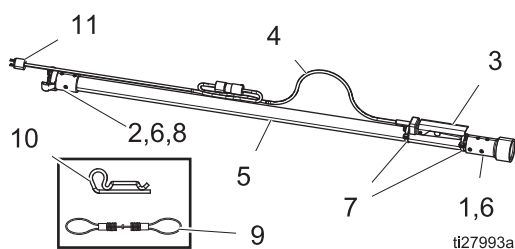
Parts

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
9	128720	VALVE, pinch	1	33	128638	FITTING, ptc, straight, 3/8	1
9a		SEAL, wiper	1	45	128637	FITTING, ptc, straight, 1/4	1
9b		SEAL, o-ring	1	60	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	3
10	121022	FITTING, elbow, male, 1/4 npt	3	61	17K051	HOSE, pinch	1
12	17G574	NUT, bulkhead, 2-1/4, sst	4	62	128642	CLAMP, hose, t-bolt, 1.75-2.00, sst	2
13		MANIFOLD, blast circuit, 1.0, top	1	73	128787	BOLT, button hd, 3/8-16 x 3/4, ss	2
14		REGULATOR, 1 in. pilot operated air	1	74	128504	BOLT, flange hd, serrated, 1/4, ss	4
15	17F440	ADAPTER, tri-clamp, 1 npt, sst	1	101	128820	FITTING, bushing, 1/2 x 1/4 npt, br	1
16		MANIFOLD, blast circuit, 1.0, bend	1	113▲	15F744	LABEL, warning, iso pinch hazard	1
17		VALVE, check, sanitary, 1 in.	1				
18		MANIFOLD, blast circuit, 1.0, bottom	1				
19	680454	GASKET, sanitary fitting	3				
21		MANIFOLD, slurry, barb/cam-lock	1				

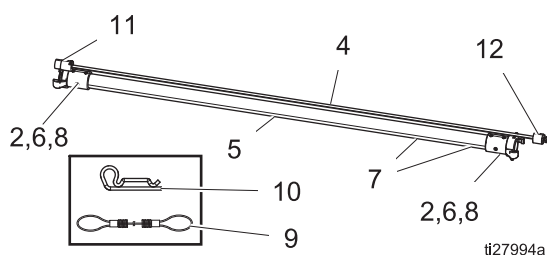
▲ *Replacement Danger and Warning labels are available at no cost.*

Blast Hoses

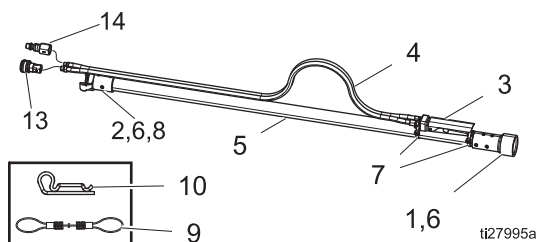
26A024 (1.25 in.), 26A074 (1.0 in.)



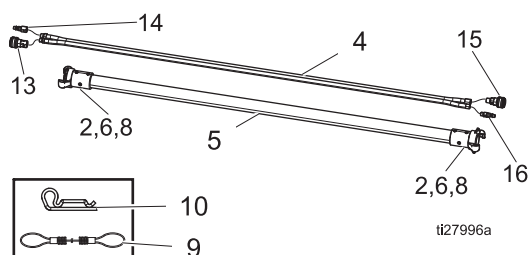
26A026 (1.25 in.), 26A076 (1.0 in.)



26A025 (1.25 in.), 26A075 (1.0 in.)



26A027 (1.25 in.), 26A077 (1.0 in.)



Ref.	Part	Description	Qty.
1	17L274	HOLDER, 1.25 in.	1
	17L276	HOLDER, 1.0 in.	1
2	17L273	COUPLER, 1.25 in.	1
	17L275	COUPLER, 1.0 in.	1
3	17L331	HANDLE, blast, control switch. electric	1
4	24X746	HOSE, pneumatic, control, blast	1
	24X744	HOSE, pneumatic, control, extension	1
	17L471	CABLE, blast control	1
5	17L472	HOSE, blast, 1.25 in. ID	1
	17L473	HOSE, extension, 1.25 in. ID	1
	17L474	HOSE, blast, 1.0 in. ID	1
	17L475	HOSE, extension, 1.0 in. ID	1
6	17L476	KIT, screws, fh, sst, 8 pk	1
7	17H240	KIT, cable ties, 6 pk	1
8	17C124	GASKET, brass blast coupler	1
9	17D786	KIT, replacement, whipcheck	1
10	17D787	KIT, replacement, hairpin, hose	1
11	17L327	CONNECTOR, twist-lock, m	1
12	17L328	CONNECTOR, twist-lock, f	1
13	EQ1336	1/4 QD(f), 1/8 npt(f)	1
14	EQ1421	1/4 QD(m), 1/4 npt(f)	1
15	EQ1813	1/4 QD(f), 1/4 npt(m)	1
16	EQ1823	1/4 QD(m), 1/8 npt(m)	1

Vapor Abrasive Blast Systems and Accessories

Blast Hoses with Control Hose/Cables

Part	ID	Blast Control	Coupler 1	Coupler 2	Length	ATEX Approved
26A077	1.0 in.	Pneumatic	2-Prong coupler, brass	2-Prong coupler, brass	15 m (50 ft)	Yes
26A076	1.0 in.	Electric	2-Prong coupler, brass			No
26A075	1.0 in.	Pneumatic	Nozzle holder, brass			Yes
26A074	1.0 in.	Electric	Nozzle holder, brass			No
26A026	1.25 in.	Electric	2-Prong coupler, brass			No
26A027	1.25 in.	Pneumatic	2-Prong coupler, brass			Yes
26A025	1.25 in.	Pneumatic	Nozzle holder, brass			Yes
26A024	1.25 in.	Electric	Nozzle holder, brass			No

Blast Hoses without Control Hose/Cables

Part	ID	Blast Control	Coupler 1	Coupler 2	Length	ATEX Approved
17L474	1.0 in.	None	Nozzle holder, brass	2-Prong coupler, brass	15 m (50 ft)	Yes
17L475	1.0 in.		2-Prong coupler, brass			
17L472	1.25 in.		Nozzle holder, brass			
17L473	1.25 in.		2-Prong coupler, brass			

Blast Control Hoses/Cables

Part	Description
24X746	Blast control hose, pneumatic twinline, 55 ft, ATEX approved
24X744	Blast control hose, pneumatic twinline, 55 ft. extension, ATEX approved
17L471	Blast control cable, electric, 55 ft

Nozzles

Part	Description	Length	Thread Size
17J859	Nozzle, #7 standard	7.8 in	50 MM Contractor Thread (2 in 4-1/2 UNC-2A)
17J860	Nozzle, #8 standard	8.8 in	
17J861	Nozzle, #10 standard	9.0 in	
17J862	Nozzle, #12 standard	9.0 in	
17K898	Nozzle, #6 high performance	12.0 in	
17J855	Nozzle, #7 high performance	12.0 in	
17J856	Nozzle, #8 high performance	12.0 in	
17J858	Nozzle, #10 high performance	12.0 in	

**Performance nozzles require 100 psi (7 bar, 0.7 MPa) or more air pressure at nozzle.*

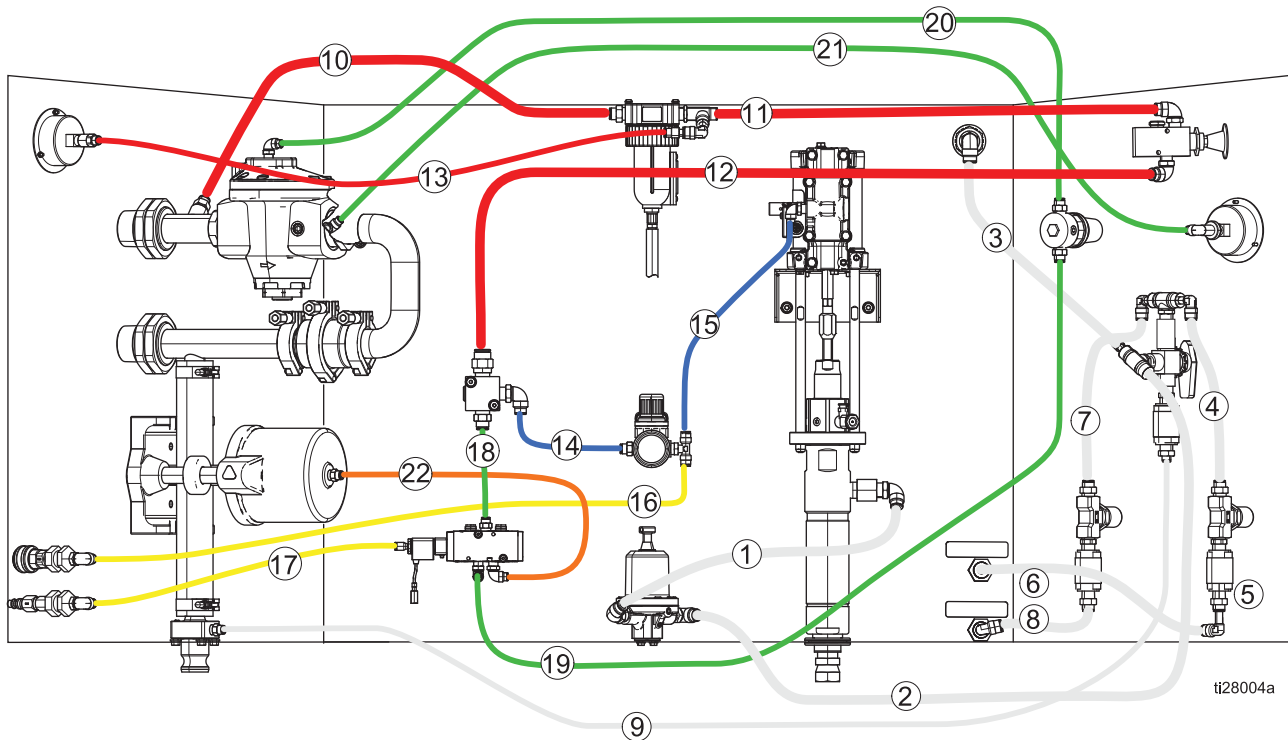
Other Accessories

Part	Description
17L119	Kit, nozzle gasket (pack of 5)
EQ5166	Kit, nozzle extension, 24 in (.6 m)
26A029	Kit, nozzle extension, 24 in (.6 m), with handles
17J958	Kit, nozzle pressure verification tool
17G833	Kit, hose rack, SST, skid units
256263	Kit, hose rack, painted,silver, skid units
17K025	Kit, pot strainer
17K026	Kit, bag shelf, SST, skid units
17K045	Kit, water tank inlet with float valve
26A007	Kit, step, skid units
26A022	Kit, water tank, 25 gal (95 l), EQm
17K058	Kit, water dose upgrade
17L316	Kit, Garden hose inlet and pressure regulator
24Z005	Kit, inlet ball valve/strainer kit, EQ2 units
25A253	Kit, Bull Hose, 25'
25A254	Kit, Bull Hose, 50'

Common Spare Parts

Part	Description
17D786	Hose restraint / Whip check
17D787	Blast hose coupler pin kit (6 pack)
17C124	Grommet, hose coupler. Fits either 1.0 in. or 1.25 in. dia. hose
17L309	Gasket, abrasive hose cam lock (10 pack)
17L119	Gasket, blast nozzle (5 pack)
17L313	Blast circuit gasket kit (10 pack)
26A093	Water tank filter w/adapter (5 pack).
206994	Throat seal liquid (TSL)
17B186	Pump repair, lower
17C129	Main air regulator repair kit (mobile unit)
17L412	Main air regulator o-rings kit (mobile)
17C131	Main air regulator diaphragm repair kit (skid or trailer units)
17F535	Air Regulator piston repair kit (skid or trailer units)
17F536	Air Regulator o-ring repair kit (skid or trailer units)
17L310	O-Ring, Pop-up
17D790	Gasket, Hand-way
17L333	pump inlet filter replacement
EQ1818	Air filter, replacement, inside enclosure
17K051	Pinch hose replacement kit
17J332	Abrasive Ball Valve Replacement

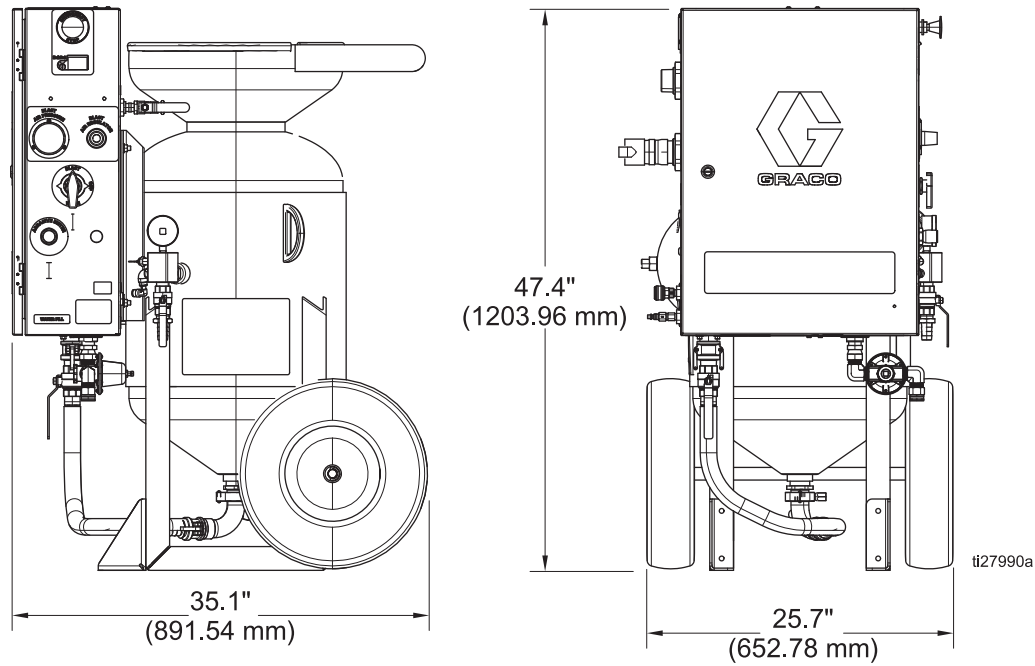
Tubing Schematic



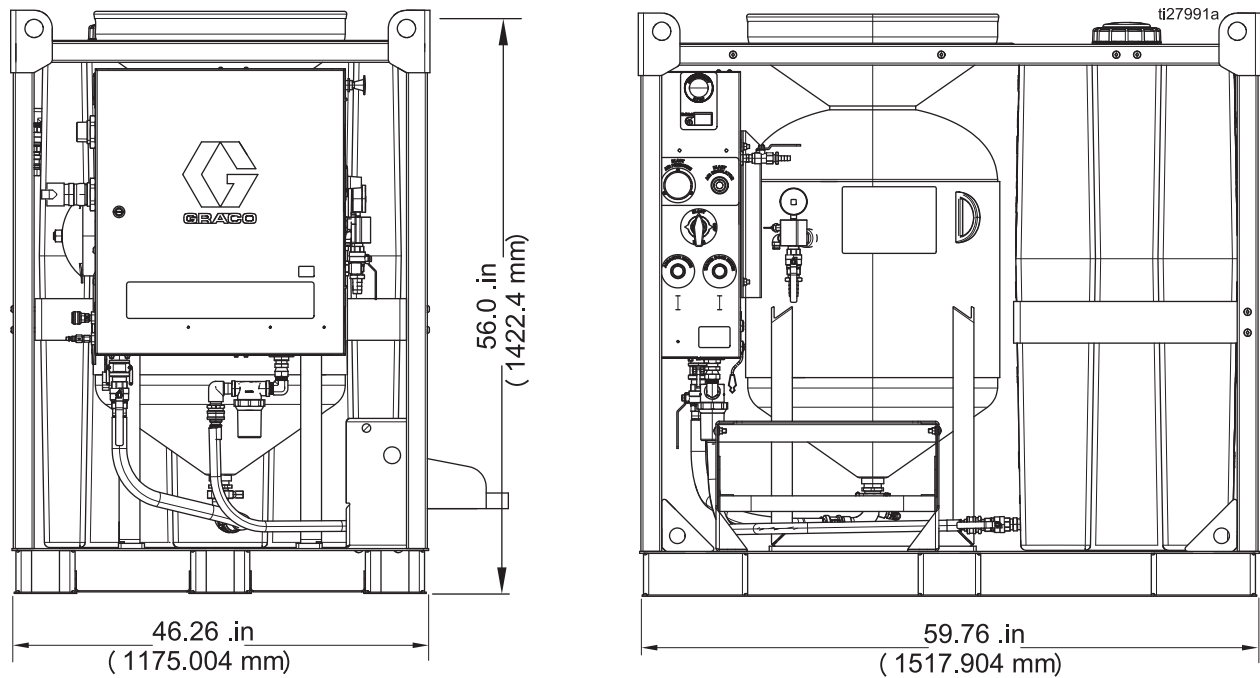
Ref.	Part	Color, Tube Size	Cut Length inches (mm)		
			EQ2M	EQ2S	EQ2S Elite
1	EQ1273	Natural, 3/8 in OD	12.25 (311)	12.25 (311)	12.25 (311)
2	EQ1273	Natural, 3/8 in OD	15.5 (394)	17 (432)	17 (432)
3	EQ1273	Natural, 3/8 in OD	7.25 (184)	7.25 (184)	7.25 (184)
4	EQ1273	Natural, 3/8 in OD	5.25 (133)	5.25 (133)	5.25 (133)
5	EQ1273	Natural, 3/8 in OD	2.25 (57)	2.25 (57)	2.25 (57)
6	EQ1273	Natural, 3/8 in OD	6 (152)	6 (152)	6 (152)
7	EQ1273	Natural, 3/8 in OD	-	-	5.25 (133)
8	EQ1273	Natural, 3/8 in OD	-	-	4.5 (114)
9	EQ1881	Natural, 1/4 in OD	24 (610)	27 (686)	27 (686)
10	EQ1297	Red, 3/8 in OD	10.5 (267)	13.5 (343)	13.5 (343)
11	EQ1297	Red, 3/8 in OD	6.25 (159)	7.25 (184)	7.25 (184)
12	EQ1297	Red, 3/8 in OD	18.75 (476)	27 (686)	27 (686)
13	EQ1882	Red, 1/4 in OD	9.5 (241)	12.5 (318)	12.5 (318)
14	EQ1883	Blue, 1/4 in OD	7.5 (191)	7.5 (191)	7.5 (191)
15	EQ1883	Blue, 1/4 in OD	21.5 (546)	21.5 (546)	21.5 (546)
16	EQ1885	Yellow, 1/4 in OD	22.5 (572)	22.5 (572)	22.5 (572)
17	EQ1885	Yellow, 1/4 in OD	9.25 (235)	9.25 (235)	9.25 (235)
18	EQ1884	Green, 1/4 in OD	12.5 (318)	8.25 (210)	8.25 (210)
19	EQ1884	Green, 1/4 in OD	23 (584)	23 (584)	23 (584)
20	EQ1884	Green, 1/4 in OD	23 (584)	23 (584)	23 (584)
21	EQ1884	Green, 1/4 in OD	18 (457)	18 (457)	18 (457)
22	EQ1296	Orange, 1/4 in OD	13 (330)	13 (330)	13 (330)

Dimensions

EQm Models:

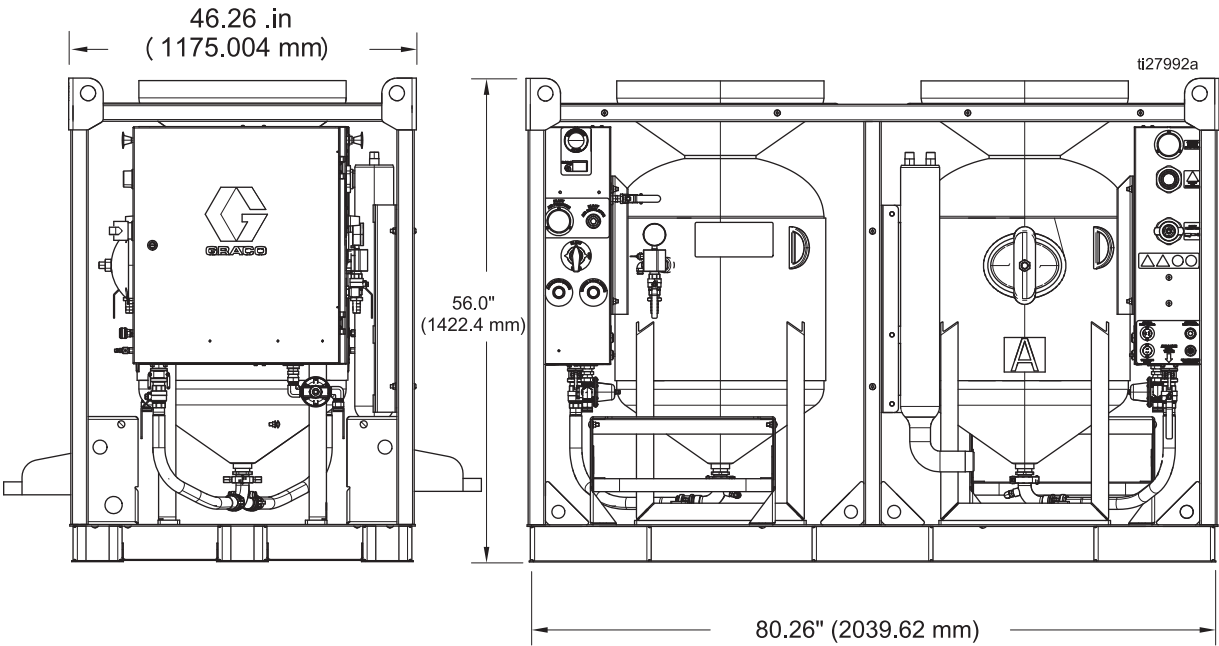


EQs and EQs Elite Models:

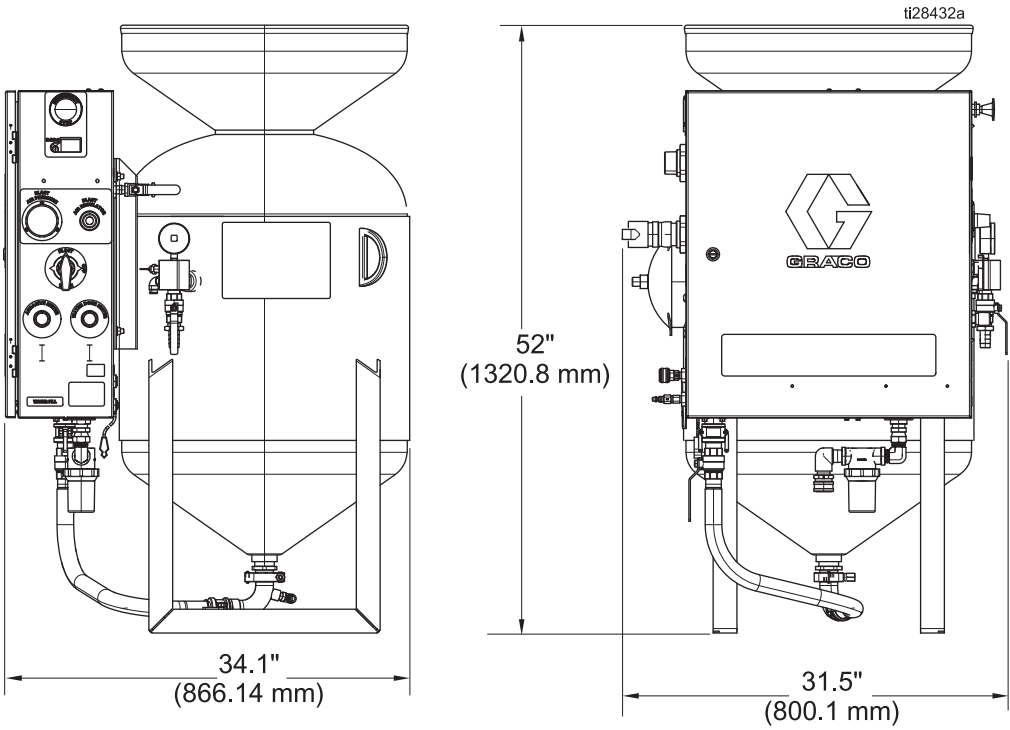


Dimensions

EQs2 Elite Models:

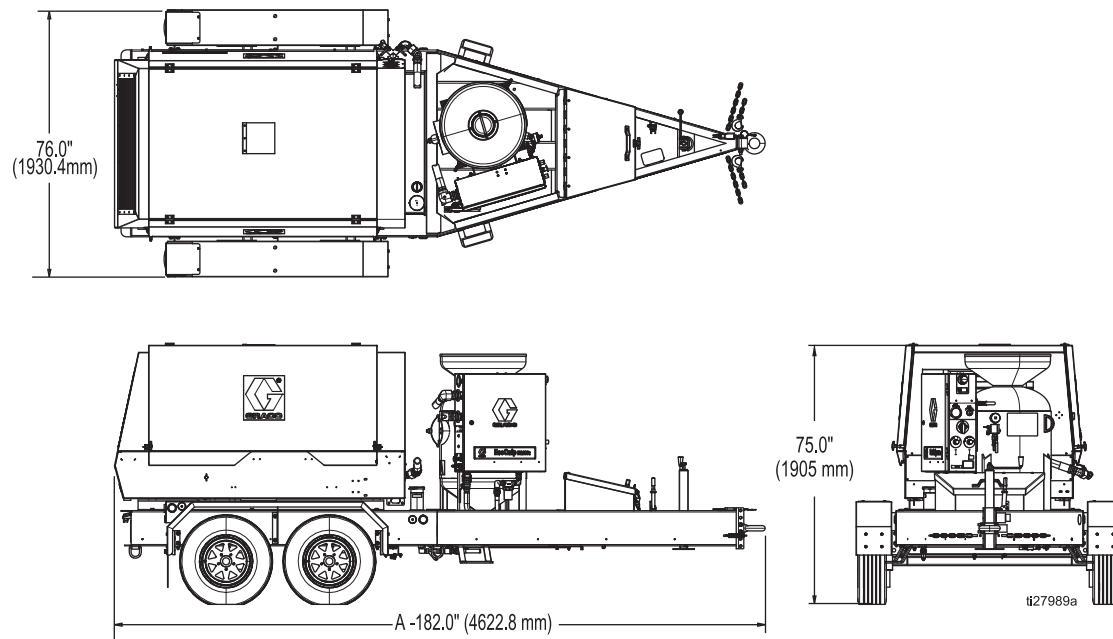


EQc Models:

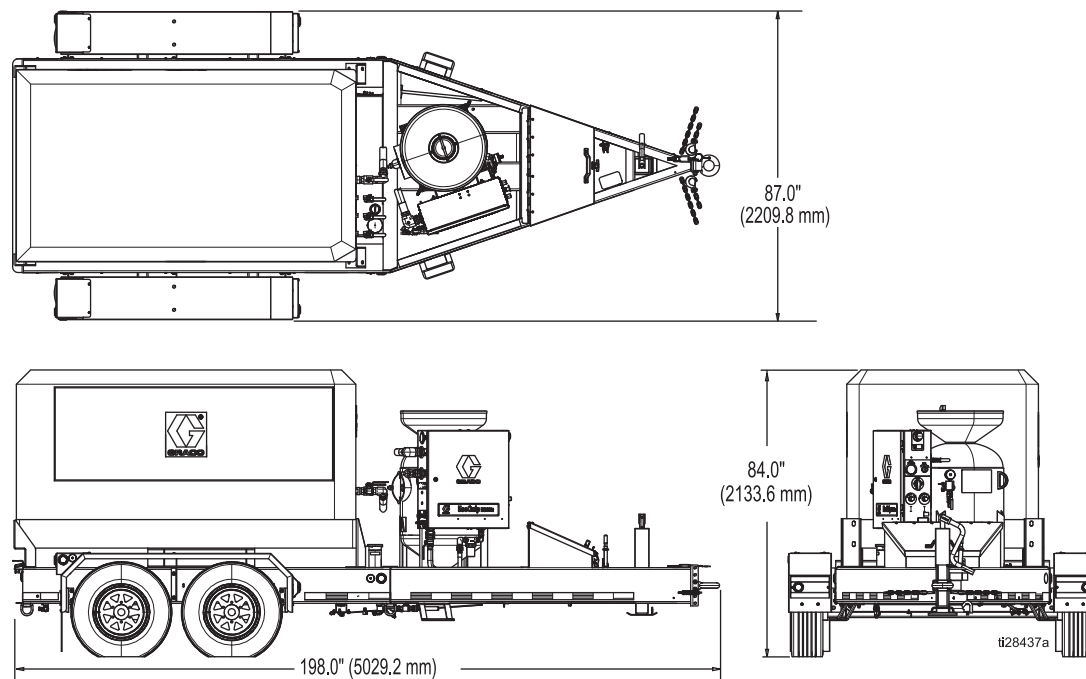


EQ Trailer Models:

EQ200T



EQ400T



Technical Specifications

EQm		
	U.S.	Metric
Maximum Fluid Working Pressure	175 psi	12.1 bar, 1.21 MPa
Operating Temperature	35° - 110° F	1.6° - 43.3° C
Recommended Compressor Size	185–600 CFM	5.3-17 m ³ /min
Blast Hose Size	1.25 in. ID	31.75 mm ID
Abrasive Capacity*	440 lb.	200 kg
Dry Weight	370 lb.	168 kg
Wet Weight*	900 lb.	408 kg
Pressure Pot Volume	3.5 cubic feet	184 liters
Water Inlet Connection	3/4 in. garden hose connection	19 mm garden hose connection
* Abrasive capacity and wet weight was found using 80 grit garnet. Using coarser media or less dense media will decrease weight.		
Air Supply Hose Minimum ID		
185–600 CFM compressor and less than 100 ft. hose length	1.5 in. ID	38 mm ID
Over 600 CFM compressor or greater than 100 ft. hose length	2 in. ID	51 mm ID
Sound Data**		
Sound Pressure Level	133 dB(A)	133 dB(A)
Sound Power Level	139 dB(A)	139 dB(A)
Instantaneous Sound Pressure Level	131 dB(C)	131 dB(C)
** All readings were taken at the maximum system blast pressure 150 psi (10.3 bar, 1.03 MPa) from the operator position. The abrasive used was garnet and the substrate was steel. Tested in accordance with ISO 9614-2.		

EQs and EQs Elite		
	U.S.	Metric
Maximum Fluid Working Pressure	175 psi	12.1 bar, 1.21 MPa
Operating Temperature	35° - 110° F	1.6° - 43.3° C
Recommended Compressor Size	375-900 CFM	10.6-25.5 m ³ /min
Blast Hose Size	1.25 in. ID	31.75 mm ID
Abrasive Capacity*	880 lb.	400 kg
Dry Weight	1070 lb.	485 kg
Wet Weight*	3120 lb.	1415 kg
Pressure Pot Volume	6.5 cubic feet	184 liters
Water Tank Volume	115 gallon	435 liters
* Abrasive capacity and wet weight was found using 80 grit garnet. Using coarser media or less dense media will decrease weight.		
Air Supply Hose Minimum ID		
185–600 CFM compressor and less than 100 ft. hose length	1.5 in. ID	38 mm ID
Over 600 CFM compressor or greater than 100 ft. hose length	2 in. ID	51 mm ID
Sound Data**		
Sound Pressure Level	133 dB(A)	133 dB(A)
Sound Power Level	139 dB(A)	139 dB(A)
Instantaneous Sound Pressure Level	131 dB(C)	131 dB(C)
** All readings were taken at the maximum system blast pressure 150 psi (10.3 bar, 1.03 MPa) from the operator position. The abrasive used was garnet and the substrate was steel. Tested in accordance with ISO 9614-2.		

EQs2 Elite		
	U.S.	Metric
Maximum Fluid Working Pressure	175 psi	12.1 bar, 1.21 MPa
Operating Temperature	35° - 110° F	1.6° - 43.3° C
Recommended Compressor Size	375-1600 CFM	10.6-45.3 m ³ /min
Blast Hose Size	1.25 in. ID	31.75 mm ID
Abrasive Capacity*	1760 lb.	798 kg
Dry Weight	1560 lb.	707.6 kg
Wet Weight*	3650 lb.	1655.6 kg
Pressure Pot Volume	6.5 cubic feet	184 liters
Water Tank Volume	NA	NA
* Abrasive capacity and wet weight was found using 80 grit garnet. Using coarser media or less dense media will decrease weight.		
Air Supply Hose Minimum ID		
185–600 CFM compressor and less than 100 ft. hose length	1.5 in. ID	38 mm ID
Over 600 CFM compressor or greater than 100 ft. hose length	2 in. ID	51 mm ID
Sound Data**		
Sound Pressure Level	133 dB(A)	133 dB(A)
Sound Power Level	139 dB(A)	139 dB(A)
Instantaneous Sound Pressure Level	131 dB(C)	131 dB(C)
** All readings were taken at the maximum system blast pressure 150 psi (10.3 bar, 1.03 MPa) from the operator position. The abrasive used was garnet and the substrate was steel. Tested in accordance with ISO 9614-2.		

EQc and EQc Elite		
	U.S.	Metric
Maximum Fluid Working Pressure	175 psi	12.1 bar, 1.21 MPa
Operating Temperature	35° - 110° F	1.6° - 43.3° C
Recommended Compressor Size	375-900 CFM	10.6-25.5 m ³ /min
Blast Hose Size	1.25 in. ID	31.75 mm ID
Abrasive Capacity*	880 lb.	400 kg
Dry Weight	450 lb.	204 kg
Wet Weight*	1500 lb.	680 kg
Pressure Pot Volume	6.5 cubic feet	184 liters
Water Tank Volume	NA	NA
Pump Inlet Fitting	Dixon 6EM6-B quick disconnect interchange included (3/4 in. NPT also on pump)	
Minimum Inlet Hose ID	3/4 in.	1.9 cm
Maximum Recommended Pump Inlet Hose Length	5 ft	4.5 m
Maximum Recommended Rise from Water Tank Outlet to Pump Inlet	16 in.	41 cm
* Abrasive capacity and wet weight was found using 80 grit garnet. Using coarser media or less dense media will decrease weight.		
Air Supply Hose Minimum ID		
185–600 CFM compressor and less than 100 ft. hose length	1.5 in. ID	38 mm ID
Over 600 CFM compressor or greater than 100 ft. hose length	2 in. ID	51 mm ID
Sound Data**		
Sound Pressure Level	133 dB(A)	133 dB(A)
Sound Power Level	139 dB(A)	139 dB(A)
Instantaneous Sound Pressure Level	131 dB(C)	131 dB(C)
** All readings were taken at the maximum system blast pressure 175 psi (12.1 bar, 1.21 MPa) from the operator position. The abrasive used was garnet and the substrate was steel. Tested in accordance with ISO 9614-2.		

EQ200T Elite		
	U.S.	Metric
Maximum Working Pressure	125 psi	8.61 bar, 0.86 MPa
Operating Temperature	35° - 110° F	1.6° - 43.3° C
Blast Hose Size	1.25 in. ID	31.75 mm ID
Abrasive Capacity*	880 lb.	400 kg
Dry Weight	4000 lb.	1814 kg
Wet Weight*	6000 lb.	2721 kg
Pressure Pot Volume	6.5 cubic feet	184 liters
Water Tank Volume	100 gallon	378 liters
Air Consumption	210 CFM	5.9 m^3/min
* Abrasive capacity and wet weight was found using 80 grit garnet. Using coarser media or less dense media will decrease weight.		
Trailer Connections		
Hitch Size	3 in. Lunette Ring (Pintel Eye)	
Electrical Connector	7-way Flat Pin	
Sound Data**		
Sound Pressure Level	133 dB(A)	133 dB(A)
Sound Power Level	139 dB(A)	139 dB(A)
Instantaneous Sound Pressure Level	131 dB(C)	131 dB(C)
** All readings were taken at the maximum system blast pressure 150 psi (10.3 bar, 1.03 MPa) from the operator position. The abrasive used was garnet and the substrate was steel. Tested in accordance with ISO 9614-2.		

EQ400T Elite		
	U.S.	Metric
Operating Temperature	35° - 110° F	1.6° - 43.3° C
Blast Hose Size	1.25 in. ID	31.75 mm ID
Abrasive Capacity*	880 lb.	400 kg
Pressure Pot Volume	6.5 cubic feet	184 liters
Water Tank Volume	130 gallon	492 liters
Tier 3		
Maximum Working Pressure	125 psi	8.61 bar, 0.86 MPa
Dry Weight	6000 lb.	2721 kg
Wet Weight*	8000 lb.	3628 kg
Air Capacity	375 CFM	10.6 m^3/min
Tier 4		
Maximum Working Pressure	175 psi	12.1 bar, 1.21 MPa
Dry Weight	7400 lb.	3356 kg
Wet Weight*	9400 lb.	4263 kg
Air Capacity	425 CFM	12 m^3/min
* Abrasive capacity and wet weight was found using 80 grit garnet. Using coarser media or less dense media will decrease weight.		
Trailer Connections		
Hitch Size	3 in. Lunette Ring (Pintel Eye)	
Electrical Connector	7-way Flat Pin	
Sound Data**		
Sound Pressure Level	133 dB(A)	133 dB(A)
Sound Power Level	139 dB(A)	139 dB(A)
Instantaneous Sound Pressure Level	131 dB(C)	131 dB(C)
** All readings were taken at the maximum system blast pressure 150 psi (10.3 bar, 1.03 MPa) from the operator position. The abrasive used was garnet and the substrate was steel. Tested in accordance with ISO 9614-2.		

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Original Instructions. This manual contains English. MM **3A3489**

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