Operation, Repair, and Parts

EcoQuip 2[™] Vapor Abrasive Blast

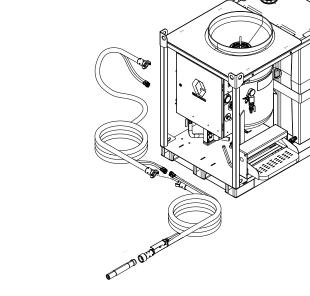
System

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

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
Mahila	262950		CE
Mobile	262954	EcoQuip2 EQm Vapor Blast System	C E (Ex) II 2G c ia IIA T3 X
	273200	EcoQuip2 EQc Vapor Blast System	CE
Custom / OEM	273209	Ecoquipz EQC vapor blast System	C E (E x) II 2G c ia IIA T3 X
Custom / OEM	273204	EcoQuip2 EQc Elite Vapor Blast System	CE
	273210		C E (E x) II 2G c ia IIA T3 X
Standard Skid	262960	EcoQuip2 EQs Vapor Blast System	CE
Standard Skid	262964	EcoQuipz EQS vapor blast System	C E (E x) II 2G c ia IIA T3 X
Elite Skid	262970	Ecoluin: 2 EOo Elito Vanar Plaat Sustam	CE
EIILE SKIU	262974	EcoQuip2 EQs Elite Vapor Blast System	C E (Ex) II 2G c ia IIA T3 X
Twinline	262980		CE
Twinline	262984	EcoQuip2 EQs2 Elite Vapor Blast System	C E (Ex) II 2G c ia IIA T3 X
	262990	EcoQuip2 EQ200T Elite Vapor Blast System	T4i
Trailer	262993		Т3
	262996	EcoQuip2 EQ400T Elite Vapor Blast System	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)				
 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				
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.				
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. 				

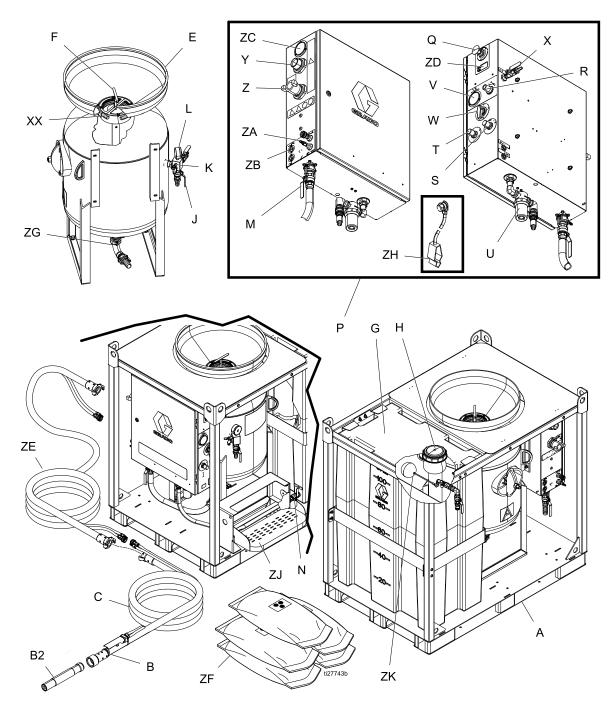
WARNING
EQUIPMENT MISUSE HAZARD
Misuse can cause death or serious injury.
 Do not operate the unit when fatigued or under the influence of drugs or alcohol. Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See Technical Specifications in all equipment 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 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.
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
Flammable fumes, such as solvent, in work area can ignite or explode. To help prevent fire and explosion:
 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
 Moving parts can pinch, cut or amputate fingers and other body parts. 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 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:
 Protective eyewear and hearing protection Protective clothing, shoes, and gloves Properly fit-tested and government approved respirator suitable for the dust conditions
RECOIL HAZARD
Blast nozzle may recoil when triggered. If you are not standing securely, you could fall and be seriously injured.

Notes

Notes

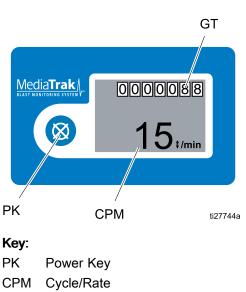
System Component Identification



Key:

- A Frame B Blast Control Switch
- B Blast Control Ow 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

MediaTrak Controls



GT Grand Totalizer

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

Pressure Relief Procedure

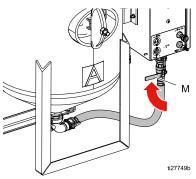


Follow the Pressure Relief Procedure whenever you see this symbol.

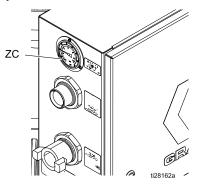


This equipment stays pressurized until pressure is manually relieved. To help prevent serious injury from pressurized fluid, such as splashing fluid, follow the Pressure Relief Procedure when instructed.

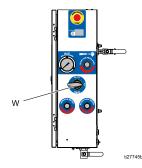
1. Close the abrasive ball valve (M).



- 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.



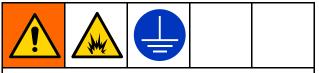
5. Turn the selector valve (W) to OFF.



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



Grounding (ATEX systems only)



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.

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 megaohms, replace the blast hose immediately.

Air compressor: follow manufacturer's recommendations.

Operation

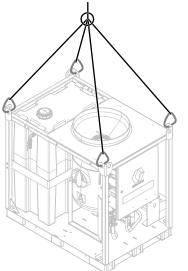
Lifting the System

• Lift the system with a lift apparatus rated appropriately for the weight of the system (see Technical Specifications, page 67).

• Do not lift the system by the handle on the EQm pot.

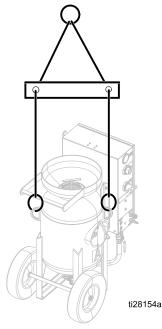
• Lift the system using the lift eyes shown on the appropriate illustration.

EQs, EQs Elite, and EQs2 Elite Models:



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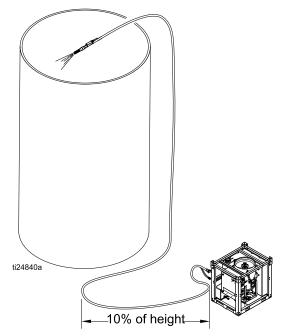
Make sure to use the correct type of blast control. An electric or pneumatic blast control switch can be used with hose lengths less than 150 ft (45 m). Blasting with 150 ft (45 m) or more of blast hose requires the use of an electric blast control switch.

Blasting on Higher Surfaces



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.

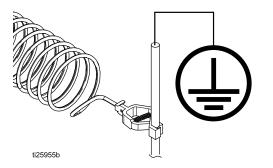
For example: When blasting 50 feet (15 m) straight up, use at least 10 feet (3 m) of blast hose on the ground before the blast hose goes up to the blasting height.



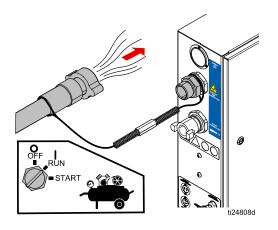
Connecting the Blast Hose and Air Hose



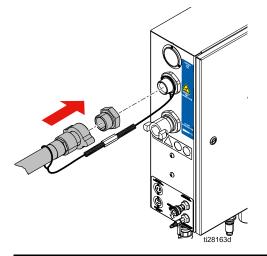
1. **ATEX models only:** Connect the grounding cable to the external ground stud on the enclosure, then connect the clamp to a true earth ground.



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.

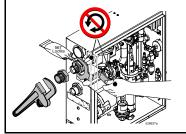


 Connect an appropriately sized air supply hose to the air inlet and install coupler pins. See Technical Specifications, page 67.



NOTICE

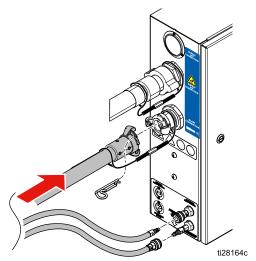
Damage to the tubing connections on the blast control can occur if the blast circuit is allowed to rotate. To avoid damage, use the supplied wrench to hold the blast circuit nut inside the enclosure while installing fittings to the air inlet and blast hose connections.



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

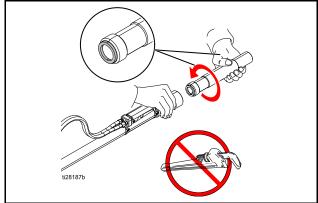
NOTE: Make sure the air supply meets the appropriate air flow requirements (see Technical Specifications, page 67).

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

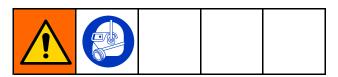


NOTICE

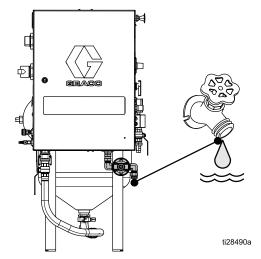
Do not use a wrench when installing the nozzle. Damage to the seal could occur. To avoid seal damage, always hand-tighten the nozzle.



Connecting the Water Hose (EQm and EQs2 Elite only)

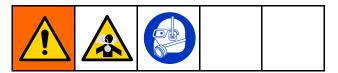


 Connect to a water supply hose with a minimum ID of 3/4 in. (19 mm) to the garden hose connection on the pump inlet.

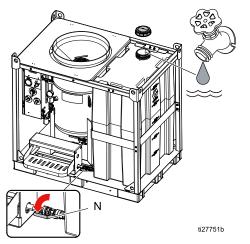


NOTE: The maximum water supply pressure is 100 psi (6.8 bar, 0.68 MPa). The minimum flow requirement is 3 gpm (11 lpm).

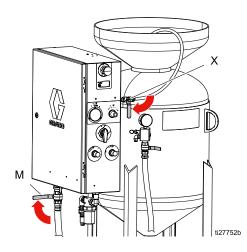
Setting Up the Equipment



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



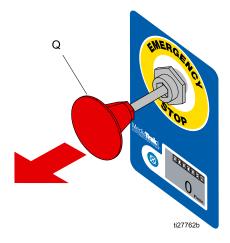
 Close the rinse ball valve (X) and abrasive ball valve (M). Close the water dose meter (S) if equipped.



3. Turn the selector valve to OFF.

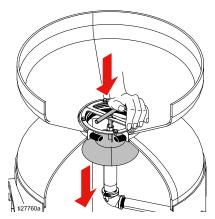


4. Disengage the emergency stop (Q).

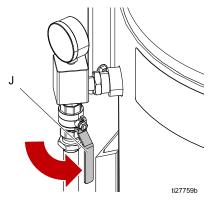


NOTE: The water pump will not work unless the Emergency Stop is disengaged.

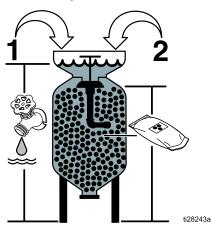
5. Align the pop-up handle with the pin slot, and then firmly push and turn the handle 90° after the pin is below the bracket slot. Proper engagement of the pin will hold the pop-up down until it is released.



6. Open the pot dump valve (J).



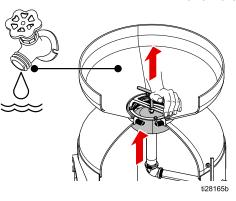
 Add 10 gallons (30 liters) of fresh water to the pot. Add abrasive material (see Technical Specifications, page 67 for capacity information).



- 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.



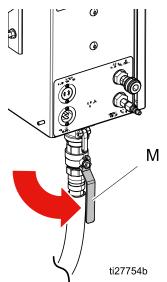
Make sure water is above the pop-up seal and pop-up seal is closed. Failure to do so before pressurizing the pot can result in serious injury to the operator. 10. When the water level is above the pop-up gasket, rotate the handle to release the pop-up pin.



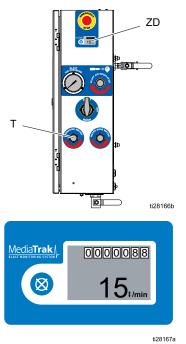
11. Turn the selector valve to BLAST.



- 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).



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.



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.
- 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 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.

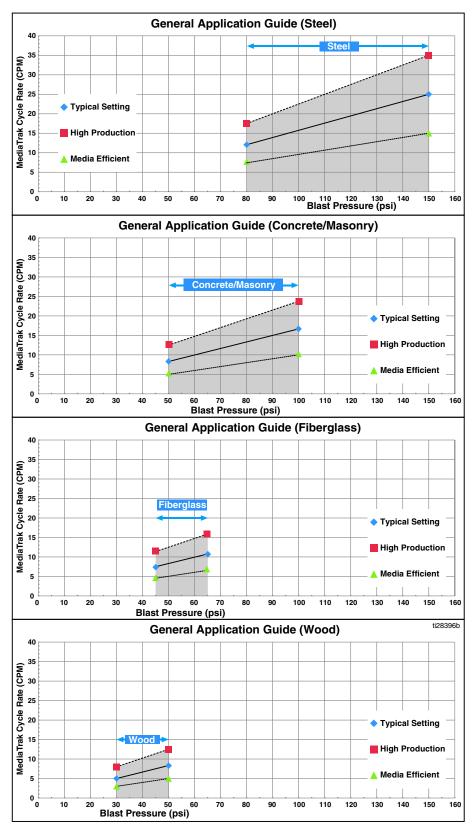
CPM set points near the Media Efficient line will use the lowest amount of media. To minimize cleanup and media usage, use a set point closer to this line. Generally, removal rates will be less than average when setting the CPM according to this line.

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

Legend:

< 185 CFM

> 375 CFM

Using the Wash Feature



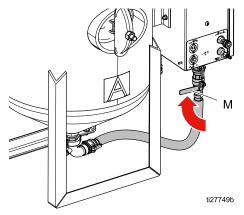
The wash feature uses water (without abrasive) to rinse areas that have been blasted with abrasive. It is also a convenient feature for flushing abrasive from the blast hose.

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

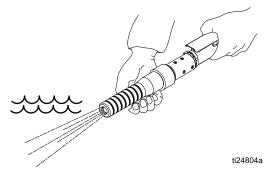
Do not use the wash feature on wood that has been blasted. It could damage the wood and cause the grain to rise. Wait for the wood to dry and then use a broom, brush, or vacuum to remove any residual abrasive. 1. Close the abrasive ball valve (M).



2. Turn the selector valve to WASH.

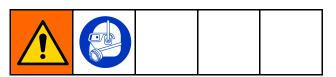


3. Blast 1 – 2 minutes until the abrasive is cleared from the hose.

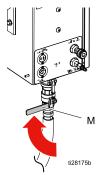


4. The equipment is now ready to wash any previously blasted surfaces.

Refilling the Pot with Abrasive



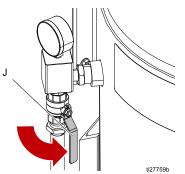
1. Close the abrasive ball valve (M).



2. Turn the selector valve to OFF.

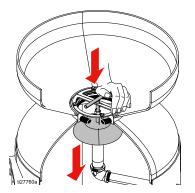


3. Open the pot dump valve (J) to drain water from the pot.



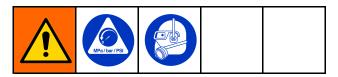
NOTE: Be prepared to capture the water that will be drained from the pot. All disposals must comply with national, state, and local regulations.

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



 Add the abrasive (see Technical Specifications, page 67 for capacity information) and continue to step 8 from Setting Up the Equipment, page 14.

Shutting Down

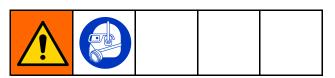


- 1. When you have finished blasting, perform wash until all of the abrasive is flushed from the blast hose. See Using the Wash Feature, page 20.
- 2. Turn the selector valve to OFF, and with the abrasive ball valve closed, continue to blast until water is cleared from the hose. This is to dry the inside of the hose for storage.



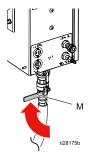
3. Perform Pressure Relief Procedure, page 10.

Draining the Pot

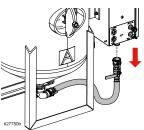


NOTE: Before draining the pot, verify that all step in Setting Up the Equipment, page 14 have been followed. Check the pot pressure gauge to make sure the pot is pressurized.

1. Close the abrasive ball valve (M).



2. 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.



3. 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.

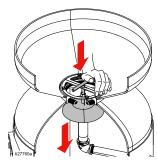
NOTE: Make sure the gasket is clean and in place after the procedure.

4. Turn the selector valve to BLAST. This will pump the abrasive out through the abrasive hose.

5. 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.



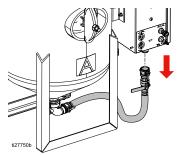
6. Engage the pop-up pin to hold the pop-up open and allow air to enter.



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

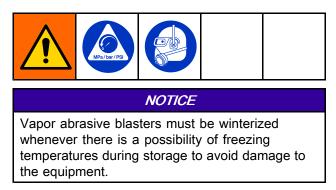


8. Close the pop-up and connect the abrasive hose.



NOTE: The system must be winterized if it will be exposed to temperatures below freezing. See Winterizing the Equipment, page 23.

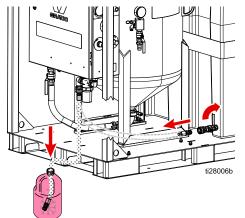
Winterizing the Equipment



- 1. Drain the pot (see Draining the Pot, page 22).
- 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.



 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.

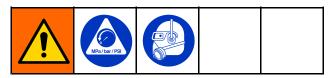
NOTE: All water tubing should be filled with windshield wash for full protection.

- 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.

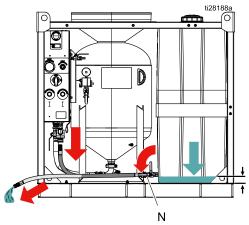
NOTICE

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

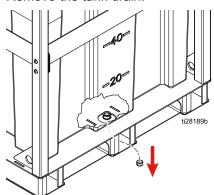
Cleaning the Water Tank



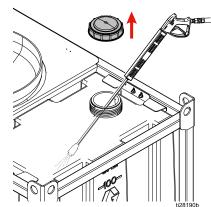
- 1. Perform Pressure Relief Procedure, page 10.
- 2. Disconnect the water inlet hose.



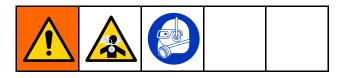
- 3. Open the inlet ball valve (N) and drain.
- 4. Remove the tank drain.



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

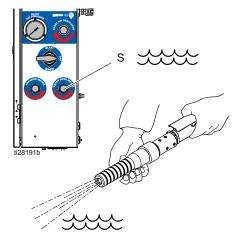


Using the Water Dose Meter



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 14.
- 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 67). 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: Ensure water supply connection is connected and pressurized. Check that water supply meets appropriate pressure and flow requirements, see Setting Up the Equipment, page 14 step 1. Ensure all fitting connections are tight. Check inlet water pressure regulator for proper flow direction installation see EQm Parts, page 34, or EQs2 Parts, page 40. Check inlet water pressure regulator screen filter for debris, clean if possible. Replace regulator if no flow can be passed through regulator.
	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 OFF position. Open rinse valve and ensure pump cycles, and water flows from rinse hose. Close rinse valve and verify that pump stalls. If pump continues to creep 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	The abrasive ball valve was left open during shut down.	See Shutting Down, page 21, step 2.
control switch (B) is engaged. Large slugs of abrasive and water are ejected from nozzle.	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 33.
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	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.	
water pump does cycle while the blast control switch 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 63. 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 52.	
No blast air flow when the blast control switch	The emergency stop (Q) is engaged.	Disengage the emergency stop (Q).	
(B) is engaged. The water pump does not cycle while the blast control switch is engaged.	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 67 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.	Ensure proper 12V DC supply is connected, and at full charge. Inspect cable for damaged or 'open' wiring. Check 3A fuse and replace if necessary. Check for continuity through connectors on the control box and all external cables. Check continuity through the electric blast control switch (B) (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 and twin-line 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, check for signal air at the blast control switch. Replace the pneumatic blast control switch if signal air does not pass through the valve when the handle is depressed. If the switch is functioning, make sure the yellow tubing inside the control box is properly connected and is clear of obstructions. If the tubing is clean, replace the 4-way solenoid valve.	

Problem	Cause	Solution
While in BLAST mode, with the blast control	The abrasive ball valve is closed.	See Setting Up the Equipment, page 14.
switch (B) engaged, air is flowing from the nozzle but little or no	The abrasive metering valve is not properly set.	See Setting Up the Equipment, page 14.
abrasive is flowing from the nozzle.	The pot does not have a sufficient amount of abrasive.	See Refilling the Pot with Abrasive, page 21.
	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, disconnect the orange tubing at the pinch valve. If the pinch valve opens and source air is coming from the orange tubing, confirm that the tubing is correctly routed. If the pinch valve does not open, replace it. If the pinch valve opens and there is no source air coming from the tubing, inspect the mufflers on the 4-way valve for debris. If debris is not present, clean or replace the 4-way valve.
	There is an obstruction inside the pot or inside the abrasive hose between the pot and the enclosure.	Follow Draining the Pot, page 22, 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 33). 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 67). 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 52).
	The electric blast control circuit is malfunctioning.	Unplug the hose cable at the control box. If the blast stops, inspect the hose cable for shorted wiring. Check continuity through the electric blast control switch (B) (the switch is normally open). Check for continuity across connectors of the recessed plugs on the control box (there should be no continuity). If all above items are functional, replace the 4-Way solenoid valve.
	The pneumatic blast control circuit is malfunctioning.	Engage the emergency stop (Q). If blasting stops, check the blast control switch (B) by disconnecting the yellow tube at the enclosure male quick disconnect. There should be no signal air unless you engage the control switch. If the switch is functioning, remove the exhaust mufflers from the 4-way and check for debris, clean 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 <u>Technical Specifications</u> , page 67 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 52).
	The electric blast control circuit is malfunctioning.	Inspect the hose cable for damaged or shorted partially open wiring. Check the 3A fuse and replace if necessary. Check for loose wire connections on the recessed plugs on the control box (P) and all external cables. Check continuity through the electric blast control switch (B) (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 only a little air comes from the fitting, check the twin-line hose for damage or crimping and check the pneumatic blast control filter. If the twin-line and filter are clean, replace the pneumatic blast control switch. If the switch is functioning, make sure the yellow tubing inside the control box is properly connected and clear any obstructions. If all above items are functional, replace the 4-way 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 67). 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 a 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 21.		
	The abrasive metering valve setting is too high for the blast pressure and/or abrasive type.	See Setting the Abrasive Metering Valve, page 17.		
	The pot does not have a sufficient amount of abrasive.	Refill the pot with abrasive (see Refilling the Pot with Abrasive, page 21).		
	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 22, 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 33). 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 24 (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	The water dose valve (S) open too far.	Close the water dose valve (S).		
in BLAST mode.	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 17.		

Repair

Replacing the DataTrak Battery



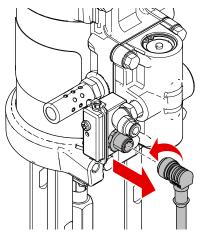
FIRE AND EXPLOSION HAZARD

To reduce the risk of fire and explosion, the battery must be replaced in a non-hazardous location.

Use only an approved replacement battery (see table). Use of an unapproved battery will void Graco's warranty.

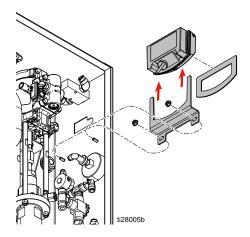
Replace Battery

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



ti24946b

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



- 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



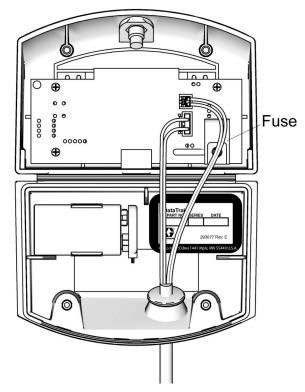
FIRE AND EXPLOSION HAZARD

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	A	24C580				
numbers	B and later	24V216				

Replacing the Pinch Hose

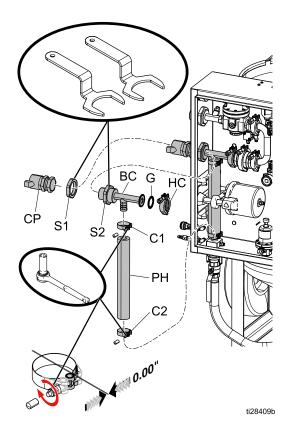
Removing the Pinch Hose



- 1. Perform Pressure Relief Procedure, page 10.
- 2. Remove the claw coupler (CP) at the swivel connection.
- 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 blast circuit (BC) to the check valve.
- 5. Remove the bottom hose clamp (C2) (128642).
- Pull the pinch hose (PH) (17G569) out of the box. NOTE: Use the blast circuit (BC) as a handle, and twist while pulling.
- 7. Loosen the remaining hose clamp and remove the pinch hose from the circuit.

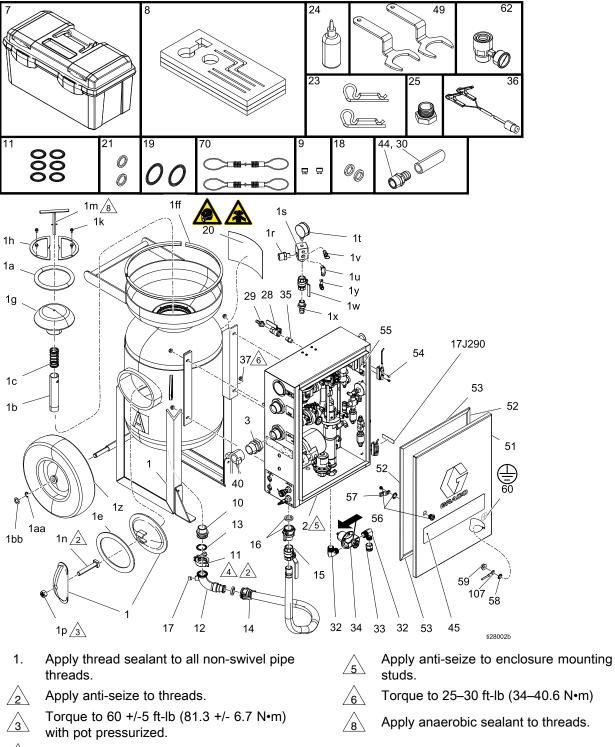
Installing the Pinch Hose

- 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 blast circuit (BC).
- 3. Reinstall the blast circuit (BC) and pinch hose (PH) into the box through the pinch valve.
- Install and tighten the clamp (HC) to 15 ft-lb (20.3 N•m) to connect the blast 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).



Parts

EQm Parts

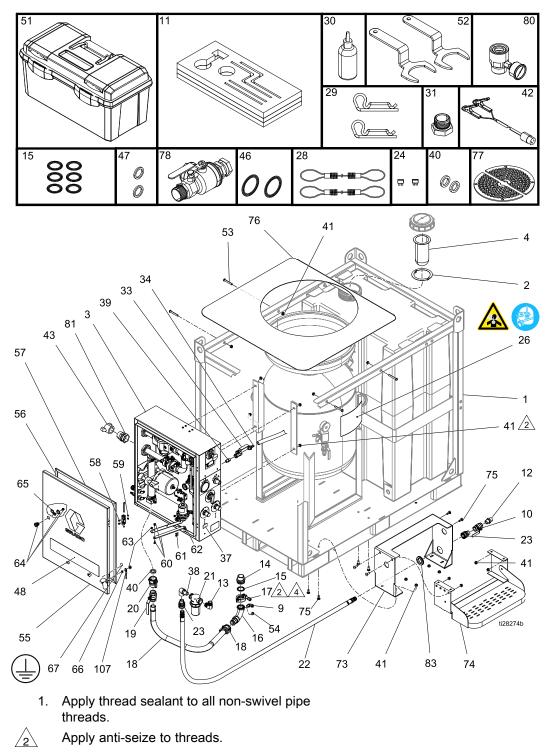


A Torque to 15 +/-2 ft-lb (20.3 +/- 2.7 N•m)

EQm Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.	
1	17L049	PRESSURE POT, blast media,	1	16	17J329	COUPLER, cam-lock, sst, 1 nptf	1	
1a	17L310	3.5 cu ft. SEAL, o-ring	1	17	112306	PLUG, pipe, 3/8 npt, sst	1	
1b	17H382	PIPE, pop-up	1	18	17J331	GASKET, cam lock, buna, 1.0	2	
1c	17F822	SPRING, pop-up, sst	1	19	502598	GASKET, sanitary (PTFE)	2	
1e	17D790	GASKET, handway, 6 x 8	1	20▲	17J289	LABEL, instructions	1	
1g	17L311	SEAL, pop up, EQ2 pot (includes	1	21	EQ1051	GASKET, blast nozzle	2	
1h	17L635	1m) BRACKET, pop up, ring	2	23	17D787	PIN, safety item. hose. hair c (6	1	
		(includes 1k)		24	206994	pack) FLUID, TSL 8 oz. bottle	1	
1k	128504	BOLT, flange hd, serrated, 1/4, ss	4	25	EQ1829	FITTING, ground boss, spud,	1	
1m	17L632	HANDLE, T, pop-up, weldment	1	26		1-1/2 in. SEALANT, pipe, sst	1	
1n	17L630	BOLT, square head, 3/4 x 4 1/2, sst	1	28	EQ1627	FITTING, nipple, barb. hose.	1	
1p	17L630	NUT, hex, 3/4-10, sst	1	30	EQ1360	3/8 in. HOSE, braided, clear, 3/4 ID	3	
1r	128643	FITTING, nipple, reducing, 1 x	1	30 32	17K344			
1s		1/2, sst MANIFOLD, dump	1	32 33	EQ7004	FITTING, elbow, 3/4 npt, sst FITTING, hose. garden. 3/4 in.	1 1	
1t	17L320	GAUGE, pressure, fluid	1			mpt x		
1u	EQ1500	FITTING, elbow, swivel, male,	1	34	17J372	VALVE, pressure reducing, 3/4 npt	1	
1v	125967	3/8 in. VALVE, safety relief, 200 psi	1	35	167702	NIPPLE, pipe hex	1	
1w	17J343	VALVE, ball, 3/4 npt, brass,	1	36	26A014	CABLE, battery	1	
		nickel		37	128226	NUT, flange, 3/8-16, sst	4	
1x	EQ1012	FITTING, nipple, barb, hose, 3/4 in.	1	40	EQ1934	COUPLER, sandblast, 1-1/2 npt(f), br	1	
1y	EQ1122	FITTING, elbow, stem 3/8 in.	1	44	17L558	FITTING, 3/4 npt x 3/4 barb,		
1z	17L645	WHEEL, semi-pneumatic	2	45		brass LABEL, brand, EcoQuip, EQm	1	
1aa	17L645	WASHER	2	49	17L633	TOOL, EQ, wrench, 2-7/8	2	
1bb	17L645	RING, retaining	2	51		DOOR, enclosure, sm, painted	1	
1cc		SEALANT, pipe, sst	1	52	17L624	GASKET, door, vertical	2	
1dd		LUBRICANT, grease	1	53	17L624	GASKET, door, horizontal, small	2	
1ee		LUBRICANT, anti-seize	1	54	111639	SCREW, cap, hex hd	4	
1ff	128982	TRIM, edge, neoprene, black	4.5	55	127918	NUT, flange, serrated, m5	4	
2		ENCLOSURE, EcoQuip, mobile, non-ATEX (Model 262950)	1	56	17L623	LOCK, door, tooled	1	
		ENCLOSURE, EcoQuip, mobile, ATEX (Model 262951)	1	57	17L623	LATCH, cam, door lock	1	
3	113864	UNION, swivel, 1–1/2 npt	1	58	555629	WASHER, #10 external tooth	1	
7	24Z156	KIT, replacement, tool box	1	59	127908	lock (Model 262951 only) NUT, flange, serrated, #10-32,	1	
8	24Z156	INSERT, foam, tool box,	1			ss (Model 262951 only)		
9	EQ1844	EcoQuip FUSE, blade, atc, 3a	2	60 ▲	186620	GND, label	1	
10	17H273	ADAPTER, tri-clamp, 1-1/4 npt,	1	62	17J958	PRESSURE VERIFICATION	1	
11	17L317	sst CLAMP, tri-clamp, 1.5, hex wing		70	17D786	KIT, replacement, whip check	1	
		nut		107	194337	WIRE, grounding, door	1	
12	17L631	MANIFOLD	1	A -		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
13	680454	GASKET, sanitary fitting	7	Replacement Danger and Warning labels are available at no cost.				
14	17L329	HOSE, inlet media	1					
15	17J332	VALVE, ball, 1 npt, brass, nickel	1					

EQs Parts

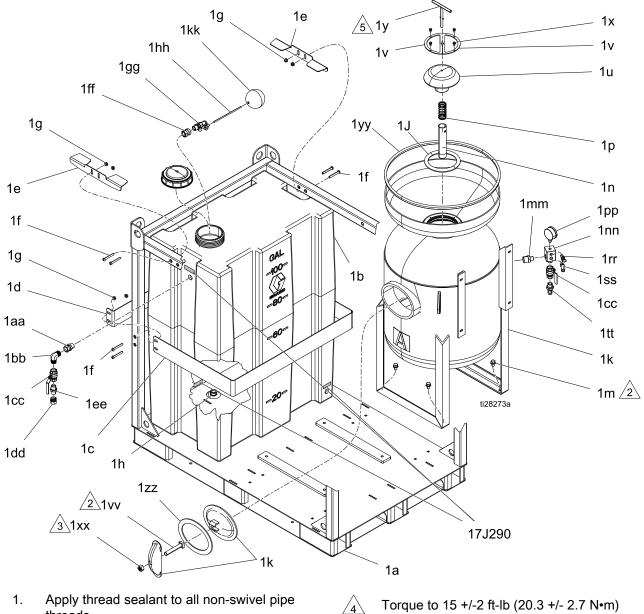


EQs Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		BASE, standard, frame, tank	1	44	190774	BLANK, label, kit	1
		BASE, elite, frame, tank	1	46	502598	GASKET, sanitary (PTFE)	2
2	17L027	RING, adapter, filter	1	47	EQ1051	GASKET, blast nozzle	2
3		ENCLOSURE, EcoQuip,	1	48		LABEL, brand, EcoQuip, EQs	1
		standard, non-ATEX ENCLOSURE, EcoQuip,	1			LABEL, brand, EcoQuip, EQs,	1
		standard, ATEX ENCLOSURE, EcoQuip, elite,	1	51	24Z156	elite KIT, replacement, tool box	1
		non-ATEX		52	17L633	TOOL, EQ, wrench, 2-7/8	2
		ENCLOSURE, EcoQuip, elite,	1	53	17K026‡◊	BOLT, button hd, 3/8-16 x 2.75	4
4	26A093	FILTER, element, water tank	1	54	112306†□	PLUG, pipe, 3/8 npt, sst	1
9	EQ1500‡◊	FITTING, elbow, swivel, male, 3/8 in.	1	55		DOOR, enclosure, lg, painted	1
10	17J343	VALVE,ball,3/4 npt,brass,nickel	1			DOOR, enclosure, lg, front, sst	2
11	24Z156	INSERT, foam, tool box, EcoQuip	1	56	17L625	GASKET, door, vertical	2
12	190724	NIPPLE, sst	1	57	17L625	GASKET, door, horizontal, large	2
13	17K344	FITTING, elbow, 3/4 npt, sst	1	58	111639	SCREW, cap, hex hd	4
14	17H273	ADAPTER, tri-clamp, 1-1/4 npt,	1	59	127918	NUT, flange, serrated, M5	4
15	680454	sst GASKET, sanitary fitting	7	60	17B703	DOOR, stay	1
16	17L631	WIRE, grounding, door	1	61	128666	SCREW, cap, button hd, m6 x	2
17	17L317	CLAMP, tri-clamp, 1.5, hex wing	1	62	15U698	16, sst NUT, hex, flange, serrated	2
18	17L329	nut HOSE, inlet media	1	63	127908†‡	NUT, flange, serrated, #10-32, ss	2
19	17J332	VALVE, ball, 1 npt, brass, nickel	1		127908□◊	NUT, flange, serrated, #10-32, ss	3
20	17J329	COUPLER, cam-lock, sst, 1 nptf	1	64	17L623	LOCK, door, tooled	1
21	17L332	STRAINER, in line, 80x80 mesh,	1	65	17L623	LATCH, cam, door lock	1
22	17J795	3/4 npt HOSE, inlet, water	1	66	555629□◊	WASHER, #10 external tooth	1
23	EQ1846	COUPLER, 3/4 qd(f), 3/4 npt(m)	2	67▲	186620□◊	lock LABEL, symbol, ground	1
24	EQ1844	FUSE, ATM, blasé type, 3 amp	2	73	26A007‡◊	BRACKET, step	1
26▲	17J289	LABEL, instructions	1	74	26A007‡◊	BRACKET, step, single, 20 in.	1
28	17D786	CABLE, safety item, hose, whip-c	2	75	26A007‡◊	wide BOLT, carriage	8
29	17D787	PIN, safety item, hose, hair c	2	76	17K026‡◊	COVER, media, fill	1
30	206994	FLUID, TSL 8 oz. bottle	1	77	17J791‡◊	STRAINER, pressure pot	2
31	EQ1829	FITTING, ground boss, spud,	1	78	24Z005‡◊	KIT, acc, air inlet, 1-1/2 npt	1
33	EQ1002	1-1/2 in. VALVE, ball, 3/8 npt, sst	1	79	070632	LUBRICANT, anti-seize	1
34	EQ1627	FITTING, nipple, barb, hose, 3/8	1	80	17J958	TOOL, pressure verification	1
37	15Y118	in. LABEL, Made in the USA	1	81	113864	UNION, swivel, 1 1/2 npt	1
38	115813	FITTING, street elbow, 3/4 npt	1	83	26A007	GROMMET, pump, EQ2	1
39	167702	NIPPLE, pipe	1				
40	17J331	GASKET, cam lock, buna, 1.0	2	107	194337	WIRE, grounding, door	1
41	128226†□	NUT, flange, 3/8-16, sst	4	† = 26	2960 Models.	‡ = 262970 Models,	
	128226‡◊	NUT, flange, 3/8-16, sst	16	•		◊ = 262971 Models	
42	26A014	CABLE, deadman, battery, male	1	▲ Re	placement Dar	nger and Warning labels are available	at ?
43	EQ1934	COUPLER, sandblast, 1-1/2 npt(f)	1	no co	st.		

Parts

EQs (continued)



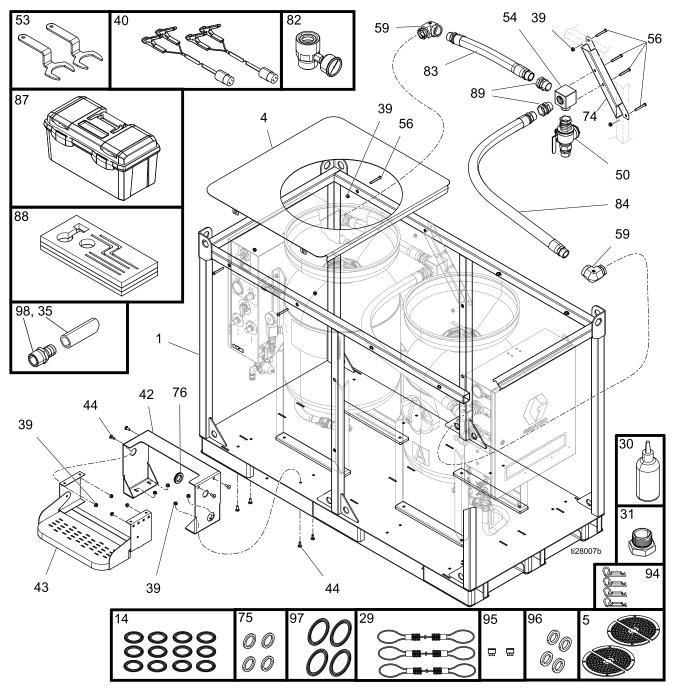
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- threads.
- Apply anti-seize to threads. 2
- Torque to 60 +/-5 ft-lb (81.3 +/- 6.7 N•m) 3 with the pot pressurized.
- Apply anaerobic sealant to threads.

EQs Parts List (continued)

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1a		FRAME, EcoQuip 2	1	1aa	17K045	SWIVEL, union	1
1b	17K048	TANK, EcoQuip 2, polyethylene	1	1bb	17K045	FITTING, elbow, 3/4 npt, sst	1
1c	17L636*	BRACKET, sst, tank, lg, EcoQuip 2	1	1cc	17J343	VALVE, ball, 3/4 npt, brass, nickel	2
	17L639+	BRACKET, painted, tank, lg, EcoQuip 2	1	1dd	EQ7004	FITTING, hose, garden, 3/4 in. mpt	1
1d	17L637*	BRACKET, sst, tank,	1	1ee	190724	NIPPLE, sst	1
	471.040	sm, EcoQuip 2		1ff	17K045	FITTING, bushing	1
	17L640+	BRACKET, painted, tank, sm, EcoQuip 2	1	1gg	17J956	VALVE, body, float, 1/2 npt	1
1e	17L638*	BRACKET, sst, tank clamp	2	1hh	24W655	ROD, float, 8 in.	1
	17L641+	BRACKET, painted,	2	1kk	17K045	FLOAT, round, copper	1
		tank, clamp		1mm	128643	FITTING, nipple,	1
1f	128818	BOLT, button hd, 3/8-16 x 2.75	8			reducing, 1 x 1/2, sst	
1g	128226	NUT, flange, 3/8-16, sst	8	1nn		MANIFOLD ,dump	1
1h	111384	PLUG, pipe	1	1pp	17L320	GAUGE, pressure, fluid	1
1j	17L310	KIT, seal, o-ring, pressure pot	1	1rr	125967	VALVE, safety relief, (200 psi)	1
1k	17K046	PRESSURE POT, blast media, 6.5 cu ft	1	1ss	EQ1500	FITTING, elbow. swivel, male. 3/8 in.	1
1m	128819	BOLT, flange hd, serrated, 1/2, ss	4	1tt	EQ1012	FITTING, nipple. barb. hose 3/4 in.	1
1n	17H382	PIPE, pop-up	1	1vv	17L630	BOLT, hex head, 3/4 x	1
1p	17F822	SPRING, pop-up, sst	1		471.000	4 1/2, sst	
1r	EQ1475	NUT, lock, nylon insert,	1	1xx	17L630	NUT, hex, 3/4-10, sst	1
		1/2, sst		1yy	128982	TRIM, edge, neoprene, black	6
1s	EQ1152	WASHER, flat, 1/2, sst	1	1zz	17D790	GASKET, handway, 6 x 8	1
1t	17K343	WASHER, epdm seal, 50 ID, 1.06 OD	1				·
1u	17L311	SEAL, pop up,	1	* EQs	Elite models	only	
	471.005	machined	0	+ EQs	models only		
1v	17L635	BRACKET, pop up, ring	2			Danger and Warning labels a	are
1x	128504	BOLT, flange hd, serrated, 1/4, ss	4	availa	ble at no co	ost.	
1y	17L632	HANDLE, T, pop-up, weldment	1				

EQs2 Parts



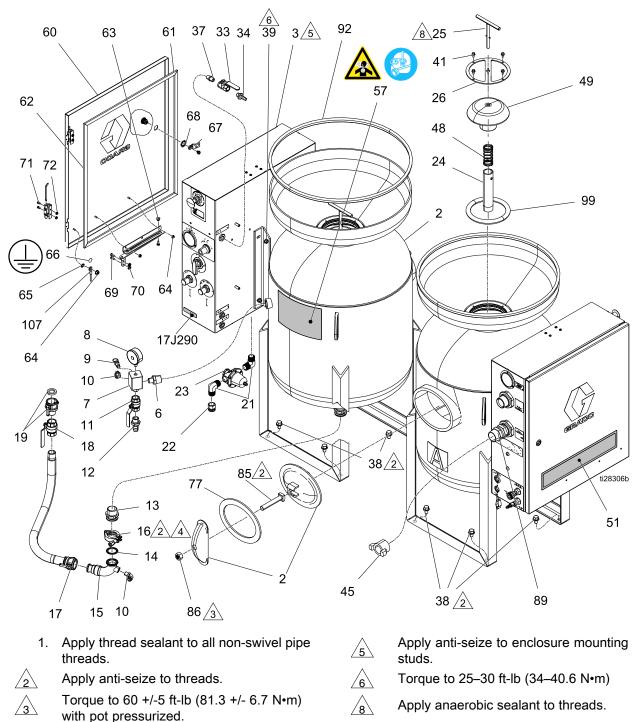
1. Apply thread sealant to all non-swivel pipe threads.

EQs2 Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		FRAME, EcoQuip 2, dual	1	74	17L078	BRACKET, manifold, dual	1
4	17K026	COVER, media, fill	2			frame, EQ2	
5	17K025	STRAINER, pressure pot	4	75	17L119	KIT, nozzle gasket	4
14	680454	GASKET, sanitary fitting	14	76*	128483	GROMMET, pump, EQ2	1
29	EQ5204	KIT, safety, hose, whip checks	3	82	17J958	TOOL, pressure verification	1
30	206994	FLUID, TSL 8 oz. bottle	2	83	17K875	HOSE, air, dual system, short	1
31	EQ1829	FITTING, ground boss, spud,	1	84	17K876	HOSE, air, dual system, long	1
01	EGIOLO	1-1/2 in.	•	87+		BOX, tool, 20 in., black	1
35	EQ1360	HOSE, braided, clear, 3/4 ID	1	88+		INSERT, foam, tool box,	1
39*	128226	NUT, flange, 3/8-16, sst	33			EcoQuip	
40	26A014	CABLE, deadman, battery, male	2	89	113864	UNION, swivel,1 1/2 npt	4
		(Model 262980 only)		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.	2	96	17J331	GASKET, cam lock, buna, 1.0	4
		wide		97	502598	GASKET, sanitary (ptfe)	4
44*	113956	BOLT, carriage	16	98	17L558	FITTING, 3/4 npt x 3/4 barb,	1
50	24Z005	KIT, acc, air inlet, 1-1/2 npt	1			brass	
53	17L633	TOOL, EQ, wrench, 2-7/8	2				
54		MANIFOLD, air inlet, dual frame,	1	* Incl	uded in Ste	p Accessory Kit 26A007	
		EQ2		+ Inc	luded in Re	placement Tool Box Kit 24Z156	
56	128818	BOLT, button hd, 3/8-16 x 2.75	10	▲ Re	nlacement D	anger and Warning labels are available	at
59	128934	FITTING, swivel, elbow, 1-1/2 npt, cs	2	no co			

Parts

EQs2 (continued)



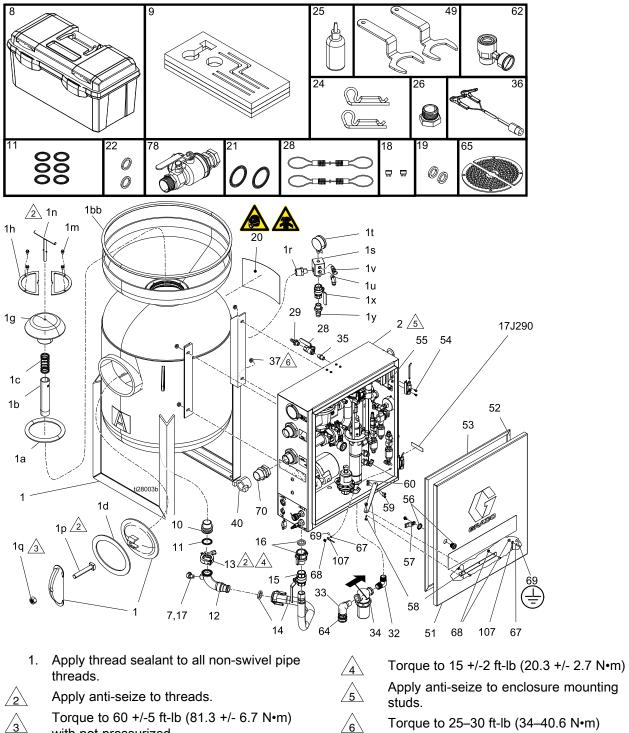
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Torque to 15 +/-2 ft-lb (20.3 +/- 2.7 N•m)

EQs2 Parts List (continued)

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
2	17L050	PRESSURE POT, blast media,	2	39	128226	NUT, flange, 3/8-16, sst	33
3		6.5 cu ft ENCLOSURE, EcoQuip, elite, non-ATEX (Model 262980 only)	2	41	128504	BOLT, flange hd, serrated, 1/4, ss	8
		ENCLOSURE, EcoQuip, elite,	2	45	EQ1934	COUPLER, sandblast, 1-1/2 npt(f), br	2
•	400040	ATEX (Model 262981 only)	0	48	17F822	SPRING, pop-up, sst	2
6	128643	FITTING, nipple, reducing, 1 x 1/2, sst	2	49	17L311	SEAL, pop up, machined	2
7		MANIFOLD, dump	2	51		LABEL, brand, EcoQuip, EQs2, Elite	2
8	17L320	GAUGE, pressure, fluid	2	57▲	17J289	LABEL, instructions	1
9	125967	VALVE, safety relief, (200 psi)	2	60	110200	DOOR, enclosure, lg, front, sst	2
10	EQ1500	FITTING, elbow, swivel, male, 3/8"	4	61	17L625	GASKET, door, horizontal, large	4
11	17J343	VALVE, ball, 3/4 npt, brass,	2	62	17L625	GASKET, door, vertical	4
	175545	nickel	2	63	17D686	DOOR, stay	2
12	EQ1012	FITTING, nipple, barb, hose, 3/4 in.	2	64	127908	NUT, flange, serrated, #10-32, ss	6
13	17H273	ADAPTER, tri-clamp, 1-1/4 npt, sst	2	65	555629	WASHER, #10 external tooth lock	2
14	680454	GASKET, sanitary fitting	14	66▲	186620	LABEL, symbol, ground	2
15	17L631	MANIFOLD, unequal-tee	2	67	17L623	LATCH, cam, door lock	2
16	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	2	68	17L623	LOCK, door, tooled	2
17	17L329	HOSE, inlet media	2	69	128666	SCREW, cap, button hd, m6 x 16, sst	4
18	17J332	VALVE, ball, 1 npt, brass, nickel	2	70	15U698	NUT, hex, flange, serrated	4
19	17J329	COUPLER, cam-lock, sst, 1 nptf	2	71	111639	SCREW, cap, hex hd	8
21	17K344	FITTING, elbow, 3/4 npt, sst	4	72	127918	NUT, flange, serrated, m5	8
22	EQ7004	FITTING, hose. garden. 3/4 in. mpt x	2	77	17D790	GASKET, handway, 6 x 8	1
23	17J372	VALVE, pressure reducing, 3/4	2	85	17L630	BOLT, sq head, 3/4 x 4–1/2, sst	1
		npt		86	17L630	NUT, hex, 3/4-10, sst	2
24	17H382	PIPE, pop-up	2	89	113864	UNION, swivel,1 1/2 npt	4
25	17L632	HANDLE, T, pop-up	2	91	15Y118	LABEL, Made in the USA	1
26	17L635	BRACKET, pop up, ring (includes four 128504)	4	92	128982	TRIM, edge, neoprene, black	12.5
27	EQ1475	NUT, lock, nylon insert, 1/2, sst	2	92	128982	TRIM, edge, neoprene, black	12.5
33	17L642	VALVE, ball, 3/8 npt, sst	2	99	17L310	KIT, seal o-ring, pressure pot	1
34	EQ1627	FITTING, nipple, barb, hose. 3/8 in.	2	107	194337	WIRE, grounding, door	1
37	167702	NIPPLE, pipe	2	▲ R€	eplacement	Danger and Warning labels are av	ailable
38	128819	BOLT, flange hd, serrated, 1/2, ss	8	at no	o cost.		

EQ200T and EQ400T Parts

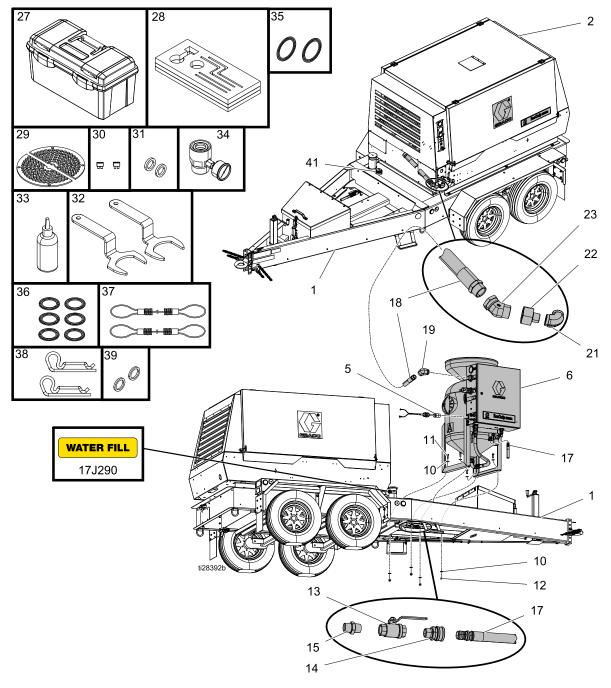


Torque to 25-30 ft-lb (34-40.6 N•m)

EQ200T and EQ400T Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1a	17L310	SEAL, o-ring	1	25	206994	FLUID, TSL 8 oz. bottle	1
1b	17H382	PIPE, pop-up	1	26	EQ1829	FITTING, ground boss, spud,	1
1c	17F822	SPRING, pop-up, sst	1	28	EQ1002	1-1/2 in. VALVE, ball, 3/8 npt, sst	1
1d	17D790	GASKET, hardway	1	29	EQ1627	FITTING, nipple, barb, hose, 3/8	1
1g	17L311	SEAL, pop-up	1	32	17K344	in. 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	1
1m	128504	BOLT, flange hd, serrated, 1/4,	2	35	166469	mesh, 3/4 npt NIPPLE, pipe hex	1
1n	17L632	ss HANDLE, t, pop-up, weldment	4	36	26A014	CABLE, deadman, battery, male	1
1p	129057	BOLT, square head, 3/4 x 4 1/2,	1	37	128226	NUT, flange, 3/8-16, sst	4
1q	17K962	sst NUT, hex, 3/4-10, sst	1	40	EQ1934	COUPLER, sandblast, 1-1/2	4
1r	128643	FITTING, nipple, reducing, 1 x	1			npt(f), br	
1s		1/2, sst MANIFOLD, dump	1	49	17L633	TOOL, EQ, wrench, 2-7/8	2
13 1t	187873	GAUGE, pressure, fluid	1	51		DOOR, enclosure, lg	1
1u	EQ1500	FITTING, elbow, swivel, male,	1	52+		GASKET, door, vertical	2
		3/8 in.		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,	1	59	128666	SCREW, cap, button hd, m6 x 16, sst	2
8*	□‡☆	3/8 in. BOX, tool, 20 in., black	1	62	17J958	TOOL, pressure verification	1
9*		INSERT, foam, tool box,	1	64	EQ1846	COUPLER, 3/4 qd(f), 3/4 npt(m),	1
10	17H273	EcoQuip ADAPTER, tri-clamp, 1-1/4 npt,	1	65	17K025 □‡☆	or STRAINER, pressure pot	2
11	680454	sst GASKET, sanitary fitting	7	67	555629 ¢ ¢	WASHER, #10 external tooth	1
12	17L631	MANIFOLD, unequal-tee	1	68	127908	lock NUT, flange, serrated, #10-32,	2
13	17L317	CLAMP, tri-clamp, 1.5, hex wing	1		†□‡ 127908◊☆	ss NUT, flange, serrated, #10-32,	3
14	17J355	nut HOSE, inlet media	1	69▲	186620◊≎	ss 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	78	242005	CORD SET, adapter, Australia	1
17	112306†◊	PLUG, pipe, 3/8 npt, sst	1	107	194337	WIRE, grounding, door	1
18	EQ1844	FUSE, blade, atc, 3A	2			, ‡ = 273205 Models, □ = 273204 Model	
19	17L309	GASKET, cam lock, buna,1.0	2	◊ = 2	73201 Models	, ⇔ = 273207 Models cement Tool Box Kit 24Z156	,
20▲	17J289	LABEL, instructions	1			Door Gasket Kit 17L625	
21	502598	GASKET, sanitary (PTFE)	2		-	Hatch Kit 17L623	
22	EQ1051	GASKET, blast nozzle	2				at
24	17D787	PIN, safety item, hose, hair c	2	no co		anger and Warning labels are available	al

EQ200T Parts



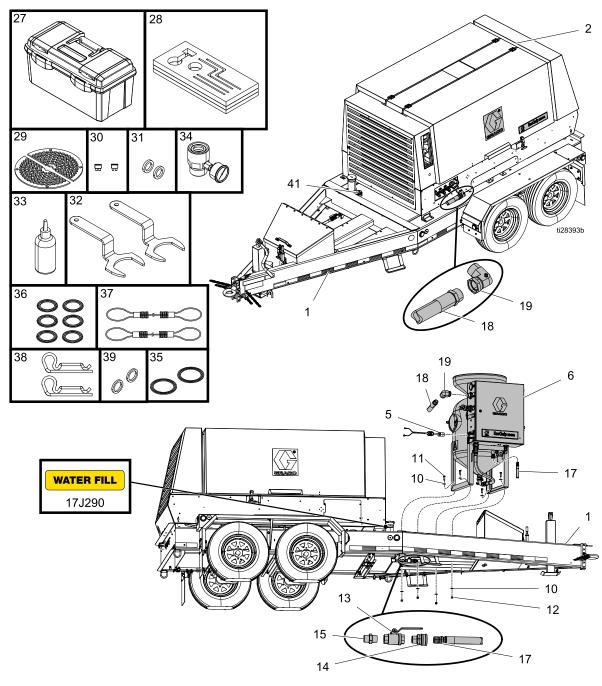
1. Apply thread sealant to all non-swivel pipe threads.

EQ200T Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		TRAILER, GL7, electric brakes	1	27	24Z156	KIT, replacement, tool box	1
2		COMPRESSOR, 210 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,	1	30	EQ1844	FUSE, blade, 3A	2
40	504450	EQC, elite trailer	0	31	17J331	GASKET, cam lock,	2
10	EQ1152	WASHER, flat, 1/2, sst	8	00	471.000	buna	0
11	EQ1519	BOLT, hex hd, 1/2 X	4	32	17L633	TOOL, EQ, wrench, 2-7/8	2
		1-1/2, sst		33	206994	FLUID, TSL 8 oz	1
12	EQ1475	NUT, lock, nylon	4			bottle	
40	504000	insert, 1/2, sst	4	34	17J958	TOOL, pressure	1
13	EQ1003	VALVE, ball, 3/4 npt, sst	1	25	500500		0
14	EQ1846	COUPLER, 3/4 qd(f),	1	35	502598	GASKET, sanitary (PTFE)	2
		3/4 npt(m), br		36	680454	GASKET, sanitary	6
15	190724	NIPPLE, sst	1			fitting	
17	EQ1848	HOSE, water, EQ2040. 3/4 in.	1	37	17D786	CABLE, safety item, hose, whip c	4
4.0	4714077			38	17D787	PIN, safety item,	4
18	17K877	HOSE, air, trailer system, GL7	1	00	504054	hose, hair c (6 pack)	0
19	128934	FITTING, swivel,	1	39	EQ1051	GASKET, blast nozzle	2
		elbow, 1-1/2 npt, cs		41	128734	GAUGE, float	1
21	129011	FITTING, elbow, 90, fxf, cs	1		placement Da ble at no cos	anger and Warning labels .	are
22	129012	FITTING, reducer, mxf, cs	1	avalla	Die al NU COS	<i>.</i>	
23	129010	FITTING, elbow, 45, mxf, cs	1				

NOTE: For information regarding KAESER compressors or compressor engines see the KAESER compressor manual, which is included with EcoQuip 2 Trailer Systems (or visit us.kaeser.com).

EQ400T3 Parts



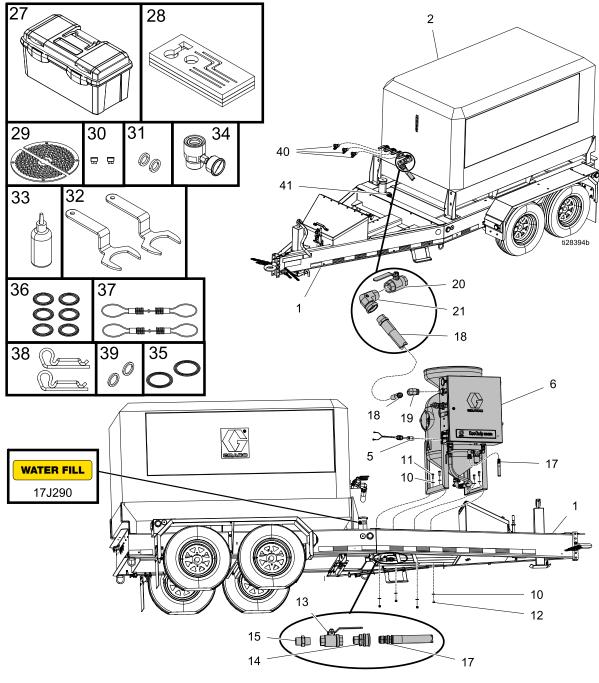
1. Apply thread sealant to all non-swivel pipe threads.

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,	1	29	17K025	STRAINER, pressure pot	2
		deadman, trailer		30	EQ1844	FUSE, blade, atc, 3A	2
6		MODULE, EcoQuip, EQC, elite, trailer	1	31	17J331	GASKET, cam lock, buna, 1.0	2
10	EQ1152	WASHER, flat, 1/2, sst	8	32	17L633	TOOL, EQ, wrench, 2-7/8	2
11	EQ1519	BOLT, hex hd, 1/2 x 1-1/2, sst	4	33	206994	FLUID, TSL 8 oz. bottle	1
12	EQ1475	NUT, lock, nylon insert, 1/2, sst	4	34	17J958	TOOL, pressure verification	1
13	EQ1003	VALVE, ball, 3/4 npt, sst	1	35	502598	GASKET, sanitary (ptfe)	2
14	EQ1846	COUPLER, 3/4 qd(f), 3/4	1	36	680454	GASKET, sanitary fitting	6
14		npt(m), br	ľ	37	17D786	CABLE, safety item, hose, whip-c	4
15	190724	NIPPLE, sst	1	00	470707		
17	EQ1848	HOSE, water, EQ2040, 3/4 in. ID	1	38	17D787	PIN, safety item, hose, hair c (6 pack)	4
18	17K878	HOSE, air, trailer system,	1	39	EQ1051	GASKET, blast nozzle	2
10		GL10	·	41	128734	GAUGE, float	1
19	128934	FITTING, swivel, elbow, 1-1/2 npt, cs	1	▲ Re	eplacement	t Danger and Warning labels a	are
21	129009	FITTING, elbow, 90, mxf, cs	1		iable at no		

NOTE: For information regarding KAESER compressors or compressor engines see the KAESER compressor manual, which is included with EcoQuip 2 Trailer Systems (or visit us.kaeser.com).

EQ400T4i Parts



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

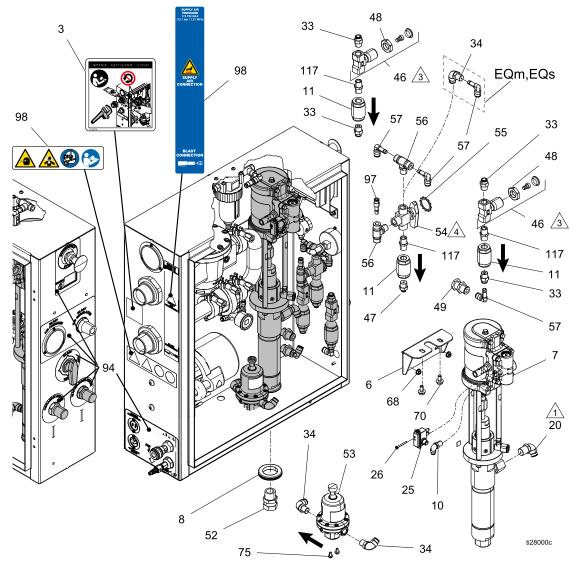
EQ400T4i Parts List

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
1		TRAILER, GL10, electric brakes	1	27	24Z156	KIT, replacement, tool box	1
2		COMPRESSOR, 425 cfm, skid mount	1	28	24Z156	INSERT, foam, tool box, EcoQuip	1
3	17L807	LABEL, instruction	1	29	17K025	STRAINER, pressure pot	2
5	17L039	CABLE, battery,	1	30	EQ1844	FUSE, blade, atc, 3A	2
6		deadman, trailer MODULE, EcoQuip,	1	31	17J331	GASKET, cam lock, buna, 1.0	2
		EQC, elite, trailer		32	17L633	TOOL, EQ, wrench, 2-7/8	2
10	EQ1152	WASHER, flat, 1/2, sst	8	33	206994	FLUID, TSL 8 oz. bottle	1
11	EQ1519	BOLT, hex hd, 1/2 x 1-1/2, sst	4	34	17J958	TOOL, pressure verification	1
12	EQ1475	NUT, lock, nylon insert, 1/2, sst	4	35	502598	GASKET, sanitary (PTFE)	2
13	EQ1003	VALVE, ball, 3/4 npt, sst	1	36	680454	GASKET, sanitary fitting	6
14	EQ1846	COUPLER, 3/4 qd(f), 3/4 npt(m), br	1	37	17D786	CABLE, safety item, hose, whip-c	4
15	190724	NIPPLE, sst	1	38	17D787	PIN, safety item, hose, hair (6 pack)	4
17	EQ1848	HOSE, water. EQ2040, 3/4 in. ID	1	39	EQ1051	GASKET, blast nozzle	2
18	17K878	HOSE, air, trailer system, GL10	1	40	128310	FITTING, nipple, 3/4 nptx 3.0, m, s	1
19	128934	FITTING, swivel, elbow, 1-1/2 npt, cs	1	41	128734	GAUGE, float	1
20	17L644	VALVE, ball, 1-1/4 npt, sst	1		eplacement lable at no	t Danger and Warning labels a cost.	are
21	129009	FITTING, elbow, 90, mxf, cs	1				

NOTE: For information regarding the Doosan compressor or compressor engine see the Doosan compressor manual, which is included with EcoQuip 2 Trailer Systems (or visit www.doosanportablepower.com). For information regarding trailer parts see the MGS parts manual, which is included with EcoQuip 2 Trailer Systems.

Enclosure Box Parts

Enclosure Parts



Torque fitting with pump outlet fitting to 35-40 ft-lb (47.4-54.2 N·m)

3

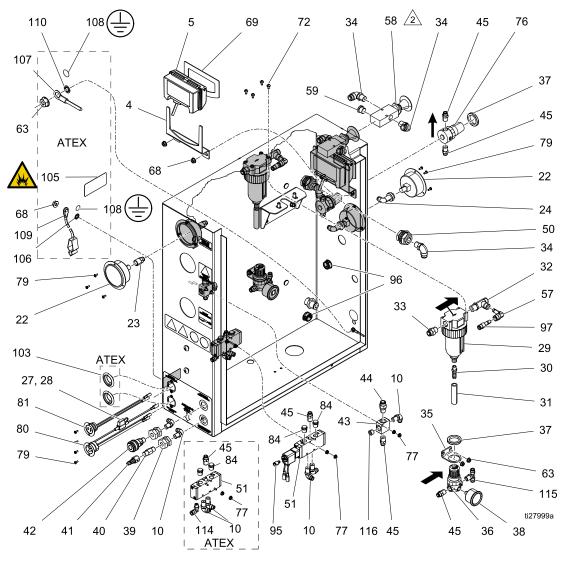
Apply thread sealant to needle valve knob screw when reassembling. Align knob with 'D' facing up when in closed position.

Apply thread sealant to selector valve handle set screw when reassembling.

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
3▲	17L807	LABEL, notice	1	53	17L324	REGULATOR, pressure,	1
6		BRACKET, pump	1			water,185 psi	
7	25A531	PUMP, water, sst, 3:1	1	54	17K055	VALVE, selector, 3-way, 3/8 npt, br	1
8	128483	GROMMET, pump, EQ2	1	55	118160	WASHER, lock, external	1
10	121022	FITTING, elbow, male, 1/4 npt	1	56	EQ1832	FITTING, tee, branch, swivel male	2
11	EQ1034	VALVE, check, 3/8 in., sst	3	57	EQ1122	FITTING, elbow, stem,	5
20	EQ1798	FITTING, ptc, elbow, 1/2	1	0.	LQTILL	3/8 in.	U
		mpt, 3/8 od		68	127917	NUT, flange, serrated,	4
25+		SWITCH, reed assy	1			1/4-20, ss	
26+		FASTENER, screw, slot	1	70	111799	SCREW, cap, hex hd	2
		hex, #8-32 tap		75	128670	BOLT, flange hd,	2
33	128638	FITTING, ptc, straight, 3/8	6			serrated, m5, sst	
24	504500		0	94	17J290	LABEL, instructions	1
34	EQ1500	FITTING, elbow, swivel, male, 3/8 in.	6	97	EQ1759	FITTING, stem, reducer	2
46*		VALVE, needle, 3/8 npt,	2	98▲	17J291	LABEL, safety	1
10		brass	2	117	167702	NIPPLE, pipe	3
47	128798	FITTING, ptc, 1/4 tube,	1				
		3/8 mpt		* Incl	uded in Nee	edle Valve Kit 17K056.	
48*	17H280	NUT, m20, needle valve	2	+ Inc	uded in Re	ed Switch Kit 24B659.	
49	EQ1115	BULKHEAD, connector, union, 3/8 in.	2		placement able at no c	Danger and Warning labels a post.	are
52	112268	SWIVEL, union	1				

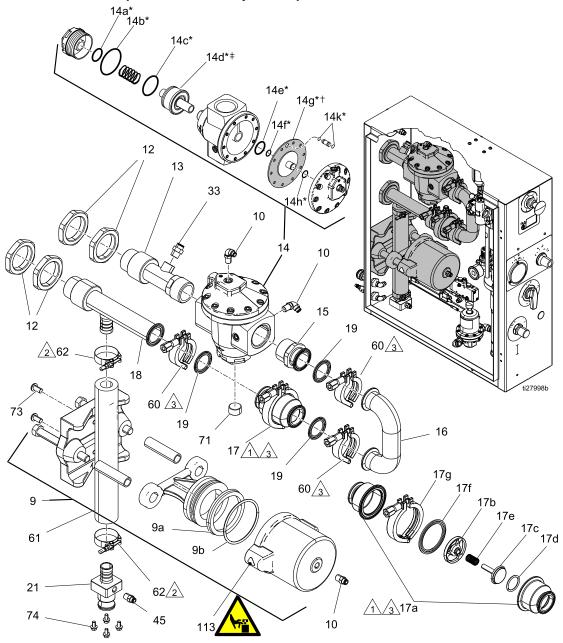
Parts

Enclosure Parts (continued)



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

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
4		BRACKET, EcoQuip, DataTrak	1	58	EQ5108	VALVE, 3-way. e-stop, 3/8 in. fpt 3	1
5	17K057	ENCLOSURE, DataTrak,	1	59	EQ1438	VENT, breather, 3/8 npt	1
10	121022	EcoQuip FITTING, elbow, male, 1/4	5	63	127908	NUT, flange, serrated, #10-32, ss	2
22	17L319	npt GAUGE, flange mount,	2	68	127917	NUT, flange, serrated, 1/4-20, ss	5
23	128725	2.5", 200 psi FITTING, ptc, 1/4 tube, 1/4	1	69	17C001	GASKET, EcoQuip, DataTrak	1
24	EQ1113	npt FITTING, elbow, swivel,	1	72	128502	SCREW, pan, type f, #10-24, 3/8, sst	4
27	17J363	female HOLDER, fuse, assy	1	76	110318	REGULATOR, air, 1/4 in. npt	1
28	EQ1844	FUSE, blade, atc, 3a	1	77	128672	NUT, serrated flange, #6-32, sst	4
29* 30	106148 128273	FILTER, air, 3/8 npt FITTING, barb x npt, brass	1 1	79	127929	#0-32, sst 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	4	84	121021	MUFFLER, 1/4 npt	2
34	EQ1500	in. FITTING, elbow, swivel,	5	95	128888	FITTING, ptc, 1/4 tube, m5	1
		male, 3/8 in.	-	96	128500	PLUG, hole, snap-in, black, 22 mm	2
35	17G567	BRACKET, regulator, EQ2	1	97	EQ1759	FITTING, stem, reducer	2
36	17L322	REGULATOR, air, adj, 100 psi	1	103	128892	PLUG, hole, black	2
37	115244	NUT, regulator	2	105▲	16P265	LABEL, safety, warning,	1
38	17L323	GAUGE, pressure, 1.5 in.,	1	106	100985	explosion WASHER, lock ext	1
39	123390	160 psi FITTING, fitting, 1/4 npt,	2	100	194337	WIRE, grounding, door	1
59	120000	brs	2		186620		2
40	EQ1814	FILTER, in-line, 1/4 npt(m)	1	108▲ 100		LABEL, symbol, ground	
41	EQ1421	COUPLER, air, 1/4 qd(m),	1	109	237686	WIRE, ground assembly w/ clamp	1
42	EQ1813	1/4 npt(f), br COUPLER, air, 1/4 qd(f),	1	110	555629	WASHER, #10 external tooth lock	1
43	128479	1/4 npt(m), br MANIFOLD, 4-port, 1/4 npt	1	114	128863	FITTING, ptc, elbow, 1/4 od, 1/8 npt	1
44	128636	FITTING, ptc, 3/8 tube, 1/4 npt	1	115	128864	FITTING, ptc, tee, branch, 1/4 od/npt	1
45	128637	FITTING, ptc, straight, 1/4	7	116	101970	PLUG, pipe, hdls	1
50	16N177	FITTING, bulkhead, brass, 3/8	1	* 0 (4
51	17K053	VALVE, solenoid, elec/pneu, assy	1	filter el	ement.	are Parts, page 62 for replacem	
	17K054	VALVE, solenoid, pneu, ATEX	1	▲ Rep. at no c		nger and Warning labels are ava	aiiadie
57	EQ1122	FITTING, elbow, stem, 3/8 in.	3				



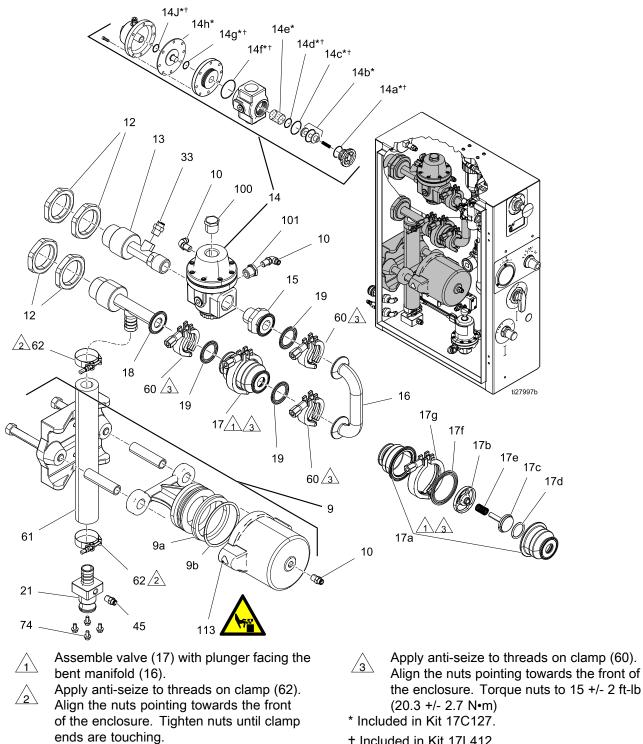
Enclosure Parts (All models except EQm)

Assemble valve (17) with plunger facing the bent manifold (16).

- Apply anti-seize to threads on clamp (62). Align the nuts pointing towards the front of the enclosure. Tighten nuts until clamp ends are touching.
- Apply anti-seize to threads on clamp (60). Align the nuts pointing towards the front of the enclosure. Torque nuts to 15 +/- 2 ft-lb (20.3 +/- 2.7 N•m)
- * Included in Kit 17F536.
- † Included in Kit 17C131.
- ‡ Included in Kit 17F535.

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
9	128720	VALVE, pinch	1	18		MANIFOLD, blast	1
9a		SEAL, wiper	1			circuit, 1.5, bottom	
9b		SEAL, o-ring	1	19	680454	GASKET, sanitary fitting	3
10*	121022	FITTING, elbow, male, 1/4 npt	3	21		MANIFOLD, slurry, barb/cam-lock	1
12	17G574	NUT, bulkhead, 2-1/4, sst	4	33*	128638	FITTING, ptc, straight, 3/8	1
13*		MANIFOLD, blast circuit, 1.5, top	1	45	128637	FITTING, ptc, straight, 1/4	1
14*		REGULATOR, main air non-relieving	1	60	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	3
15*	17G576	ADAPTER, tri-clamp,	1	61	17K051	HOSE, pinch	1
10		1-1/2 npt, sst	·	62	128642	CLAMP, hose, t-bolt, 1.75-2.00, sst	2
16		MANIFOLD, blast	1	74+	444004	·	
		circuit, 1.5, bend		71*	111384	PLUG, pipe	1
17		VALVE, check, sanitary, 1.5 inch	1	73	128787	BOLT, button hd, 3/8-16 x 3/4, ss	2
17a	17K049	VALVE, check, housing	1	74	128504	BOLT, flange hd,	4
17b	17L376	VALVE, check, guide	1			serrated, 1/4, ss	
17c	17L377	VALVE, check, piston	1	113▲	15F744	LABEL, warning, iso pinch hazard	1
17d	17L378	VALVE, check, o-rin, 5–pack	1				
17e	17L375	VALVE, check, spring	1		ided in Kit		
17f	17L313	GASKET, sanitary, 2–1/2 in.	1	Replacement Danger and Warning labels as available at no cost.			
17g	17L318	TRI-CLAMP, 2.5 in.	1				

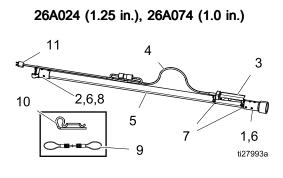
Enclosure Parts (EQm only)



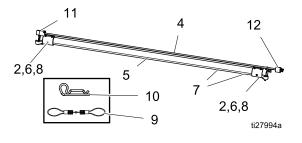
† Included in Kit 17L412.

Ref.	Part	Description	Qty.	Ref.	Part	Description	Qty.
9	128720	VALVE, pinch	1	18		MANIFOLD, blast circuit,	1
9a		SEAL, wiper	1			1.0, bottom	
9b		SEAL, o-ring	1	19	680454	GASKET, sanitary fitting	3
10*	121022	FITTING, elbow, male, 1/4 npt	3	21		MANIFOLD, slurry, barb/cam-lock	1
12	17G574	NUT, bulkhead, 2-1/4, sst	4	33*	128638	FITTING, ptc, straight, 3/8	1
13*		MANIFOLD, blast circuit, 1.0, top	1	45	128637	FITTING, ptc, straight, 1/4	1
14*		REGULATOR, 1 in. pilot operated air	1	60	17L317	CLAMP, tri-clamp, 1.5, hex wing nut	3
15*	17F440	ADAPTER, tri-clamp, 1 npt, sst	1	61	17K051	HOSE, pinch	1
16		MANIFOLD, blast circuit, 1.0, bend	1	62	128642	CLAMP, hose, t-bolt, 1.75-2.00, sst	2
17		VALVE, check, sanitary, 1 in.	1	73	128787	BOLT, button hd, 3/8-16 x 3/4, ss	2
17a	17K050	VALVE, check, 1.0 in., housing	1	74	128504	BOLT, flange hd, serrated, 1/4, ss	4
17b	17L376	VALVE, check, guide	1	101	128820	FITTING, bushing, 1/2 x 1/4 npt, br	1
17c	17L377	VALVE, check, piston	1	113▲	15F744	LABEL, warning, iso	1
17d	17L378	VALVE, check, o-rin, 5–pack	1	115	101777	pinch hazard	I
17e	17L375	VALVE, check, spring	1	* Inclu	ided in Kit	171.315	
17f	17L313	GASKET, sanitary, 2–1/2 in.	1	▲ Rep		Danger and Warning labels a	are
17g	17L318	TRI-CLAMP, 2.5 in.	1				

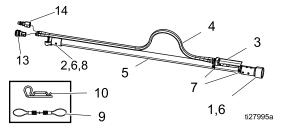
Blast Hoses



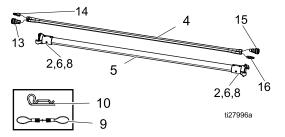
26A026 (1.25 in.), 26A076 (1.0 in.)



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	17D788	HANDLE, blast, control switch. pneumatic	1
	17L331	HANDLE, 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

Part	ID	Blast Control	Coupler 1	Coupler 2	Length	ATEX Approved
26A077	1.0 in.	Pneumatic	2–Prong coupler, brass			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		45 m (50 ft)	No
26A026	1.25 in.	Electric	2–Prong coupler, brass	2–Prong coupler, brass	15 m (50 ft)	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 with Control Hose/Cables

Blast Hoses without Control Hose/Cables

Part	ID	Blast Control	Coupler 1	Coupler 2	Length	ATEX Approved
17L474	1.0 in.		Nozzle holder, brass			
17L475	1.0 in.		2–Prong coupler, brass	2 Drawn counter broos	45 m (50 ft)	Vaa
17L472	1.25 in.	None	Nozzle holder, brass	2–Prong coupler, brass	15 m (50 ft)	Yes
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	
17J860	Nozzle, #8 standard	8.8 in	
17J861	Nozzle, #10 standard	9.0 in	
17J862	Nozzle, #12 standard	9.0 in	50 MM Contractor Thread
17K898	Nozzle, #6 high performance	12.0 in	(2 in 4-1/2 UNC-2A)
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.

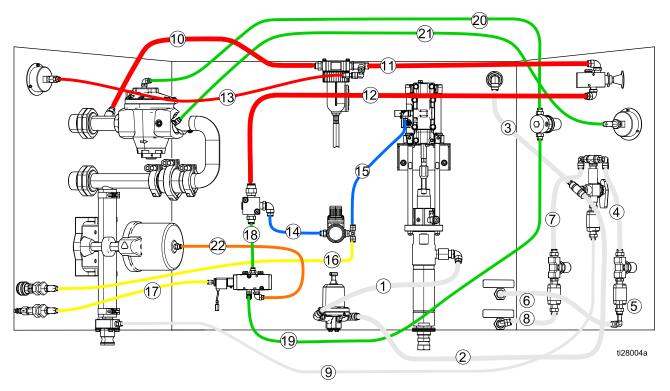
Other Accessories

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

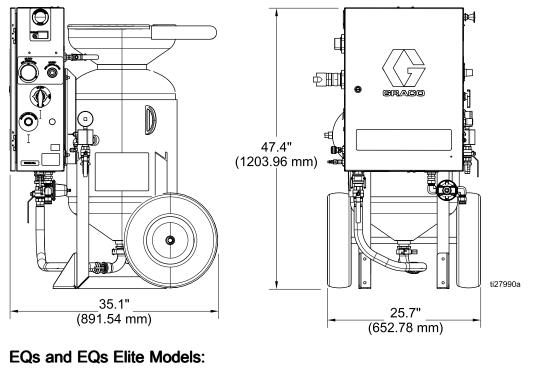
Tubing Schematic

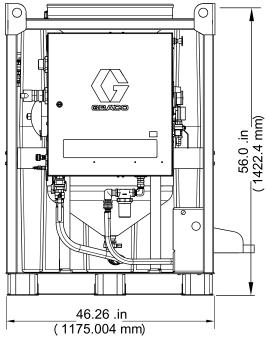


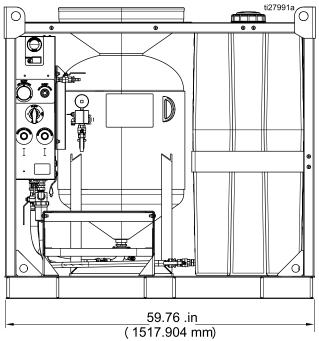
Ref. Part	Color, Tube Size		Cut Length inches (mm)		
Rei.	Fait		EQ2M	EQ2S	EQ2S Elite
1	EQ1273	Natural, 3/8 in OD	12.25 (311)	12.25 (311)	12.25 (311)
2	EQ1273	Natural, 3/8 in OD	15.5 (394)	17 (432)	17 (432)
3	EQ1273	Natural, 3/8 in OD	7.25 (184)	7.25 (184)	7.25 (184)
4	EQ1273	Natural, 3/8 in OD	5.25 (133)	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

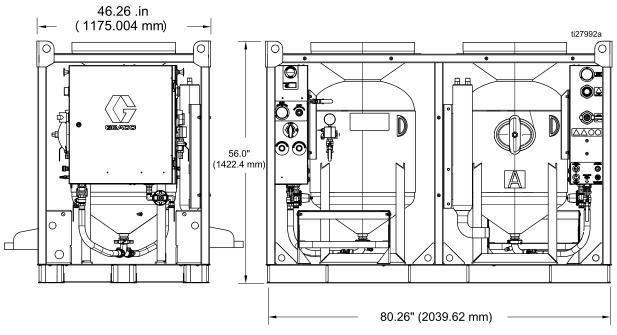
EQm Models:



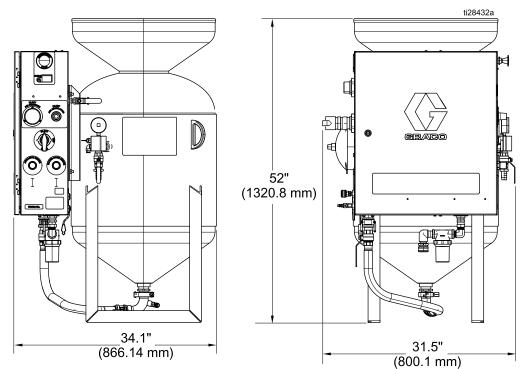




EQs2 Elite Models:

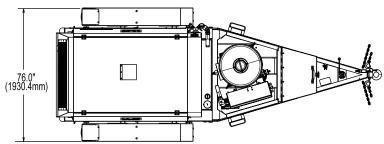


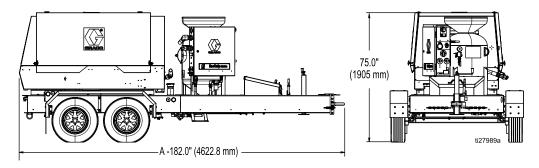
EQc Models:



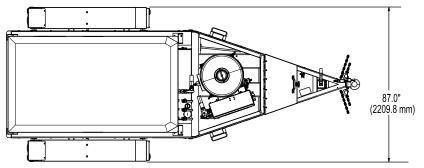
EQ Trailer Models:

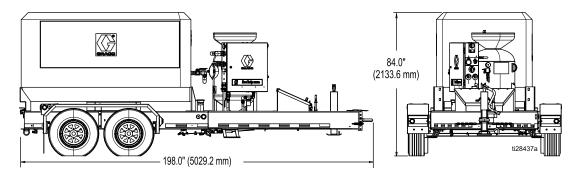






EQ400T





Technical Specifications

EQm

EcoQuip 2 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 (supplied)	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
Air Inlet Connection†	1–1/2 npt	
Water Inlet Connection	3/4 in. garden hose connection	19 mm garden hose connection
* Abrasive capacity and wet weight was found usin media will decrease weight.	ng 80 grit garnet. Using coar	ser media or less dense
† 2 in. ground boss adapter included in tool box (s	ee Parts section of the EcoQ	uip 2 manual for more deta
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 operator position. The abrasive used was garnet a		

compressor pressure and flow output specifications.

EQs Elite

EcoQuip 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+	185-900 CFM	5.24-25.5 m^3/min		
Blast Hose Size (supplied)	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		
Air Inlet Connection†	1–1/2 npt			
* Abrasive capacity and wet weight was found usin media will decrease weight.				
† 2 in. ground boss adapter included in tool box (s detail).	ee the Parts section of the E	coQuip 2 manual for more		
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 operator position. The abrasive used was garnet a ISO 9614-2.				
+ See the Nozzle Selection Guide for information of compressor pressure and flow output specification		e blast nozzle based on		

EQs2 Elite

EcoQuip 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	
Air Inlet Connection†	1–1/2 npt		
* Abrasive capacity and wet weight was found usin media will decrease weight.	ng 80 grit garnet. Using coars	ser media or less dense	
† 2 in. ground boss adapter included in tool box (se	ee Parts section of the EcoQu	uip 2 manual for more detail).	
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 operator position. The abrasive used was garnet a 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+	185–900 CFM	5.2-25.5 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
Air Inlet Connection†	1–1/2 npt	
Pump Inlet Fitting	Dixon 6EM6–B quick disco (3/4 in. NPT	nnect interchange included also on pump)
Minimum Inlet Hose ID	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 usin media will decrease weight.	ng 80 grit garnet. Using coars	ser media or less dense
† 2 in. ground boss adapter included in tool box (s detail)	see the Parts section of the E	coQuip 2 manual for more
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)
nstantaneous Sound Pressure Level	131 dB(C)	131 dB(C)
** All readings were taken at the maximum system	n blast pressure 175 psi (12.1	bar, 1.21 MPa) from the

compressor pressure and flow output specifications.

EQ200T Elite

EcoQuip 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 us media will decrease weight.	ing 80 grit garnet. Using coars	ser media or less dense	
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 syster operator position. The abrasive used was garnet ISO 9614-2.	• • • •		

EQ400T Elite

EcoQuip 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 us media will decrease weight.	ing 80 grit garnet. Using coars	ser media or less dense	
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 operator position. The abrasive used was garnet ISO 9614-2.			

Notes

Notes

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

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This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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