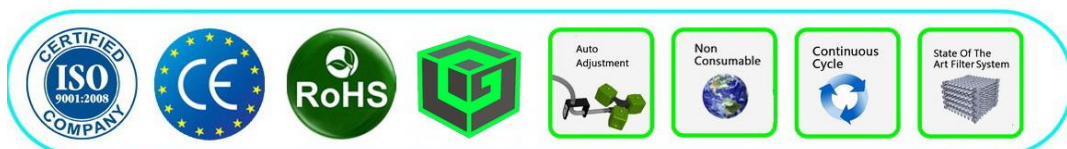
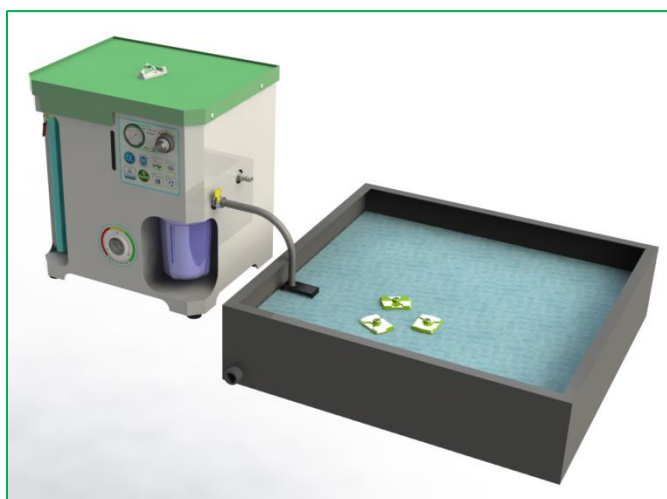




Coolant Purification Systems ULTRA 90
INSTRUCTION MANUAL
(Original Instructions)



GREEN ECO PRO CO;LTD.

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No.12-19, Ln. 183, Sec. 4, Chongde Rd., Tanzi Dist., Taichung City 427, Taiwan

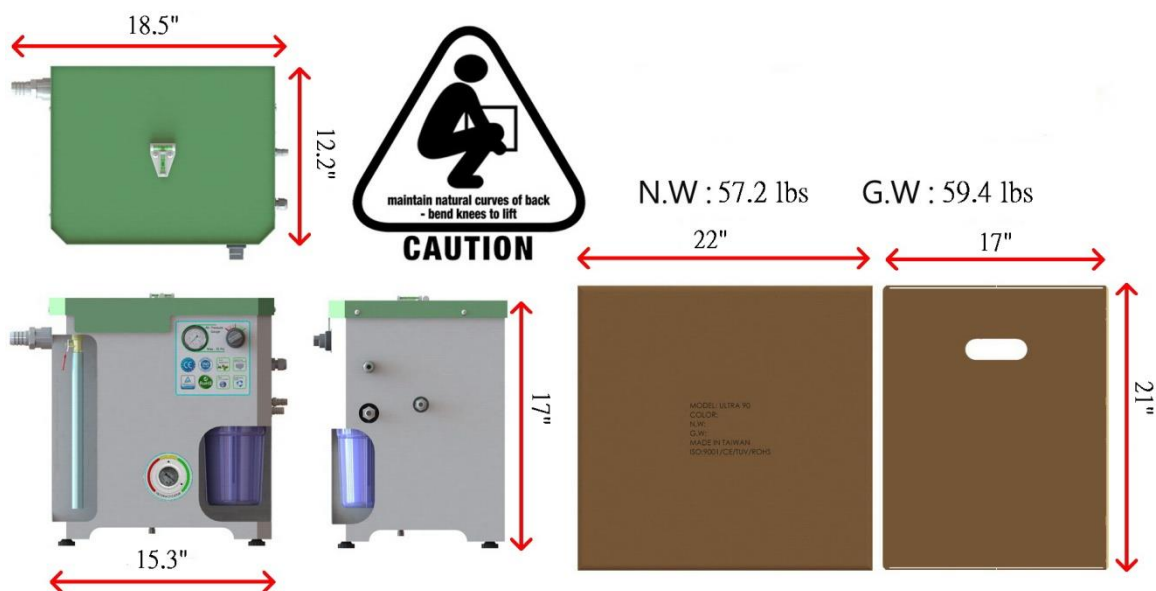
Model:	Ultra 90
Serial No.	
Manufacture Date:	

Revision: E
September 2019



Green Eco Pro
Coolant Purification Systems

Unit Foot Print & Layout



Description of each components



Read this user manual carefully
before you use the appliance.



Green Eco Pro
Coolant Purification Systems

Installation Guide

Before starting this installation, carefully unpack and clean all unit elements. For proper part identification and location, it will be most helpful to study the assembly and parts instructions included in this document.

Important

DO NOT CONNECT TO AN AIR SUPPLY THAT EXCEEDS 145 P.S.I. (10 Bar)

- Disconnect air supply and depressurize all air lines.
- After installation, air and coolant systems should be connected and fully tested for proper function and leaks.
- Please follow the manufacturer's safety guidelines for all power and hand tools used for this installation.
- Installation of this system on any machine other than those listed, voids any and all intended warranties and liabilities by Green Eco Pro Co.



WARNING

Adequate eye protection must be used when servicing this equipment to prevent the possibility of injury.

TOOLS REQUIRED: The installation of this machine can be accomplished with basic machine service tools

Special Tooling: None



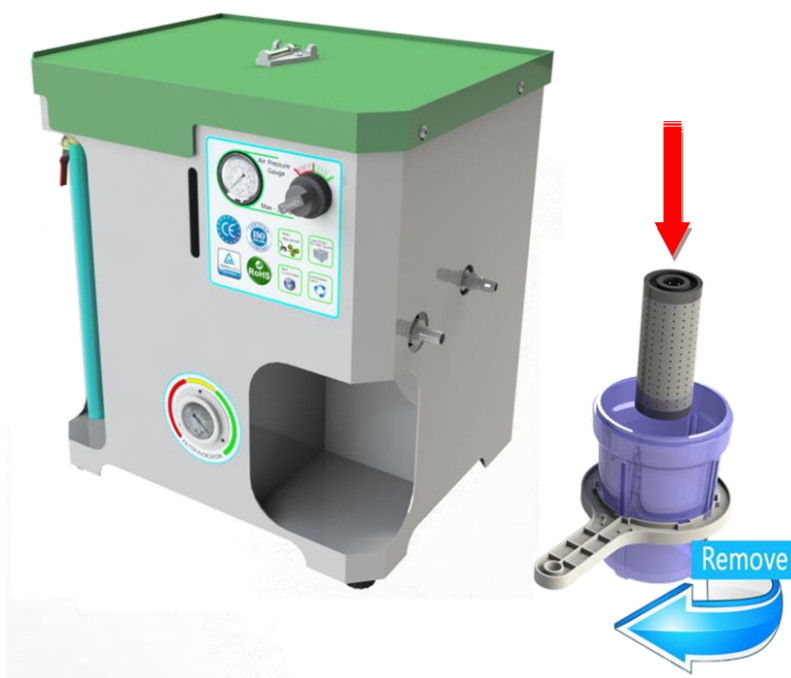
Green Eco Pro
Coolant Purification Systems

Installation Guide – Page 1

1. Please verify all peripheral accessories.



2. An instruction of installation procedure



1.1 Install the filter element, be sure to retain the O-ring

Installation Guide – Page 2



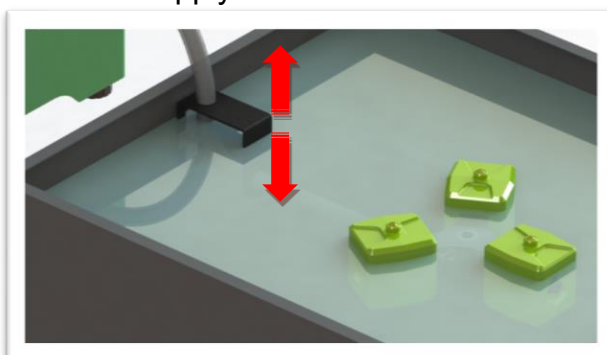
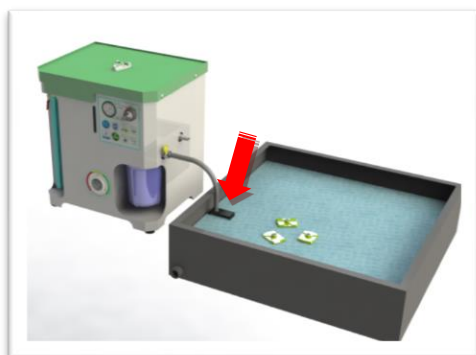
2.1 Connect the 1" Coolant return hose to Coolant Outlet port by using the large hose clamp.



3.1 Connect the Coolant Inlet hose to the Coolant Inlet port using small hose clamp.



4. 1 Connect Air supply hose



5. 1The bracket that holds the float tubes must attach on the edge of coolant tank, in order to keep it away from the existing chips or debris. **If there are any suspended solids or floating debris on the surface of the coolant, be sure to remove them before operating the unit.**

6. 1The Float Tube Inlet must face in the upward position.

7. 1In order to keep the Inlet on the surface of coolant, adjust the bracket that retains

the float inlet accordingly to an appropriate position.

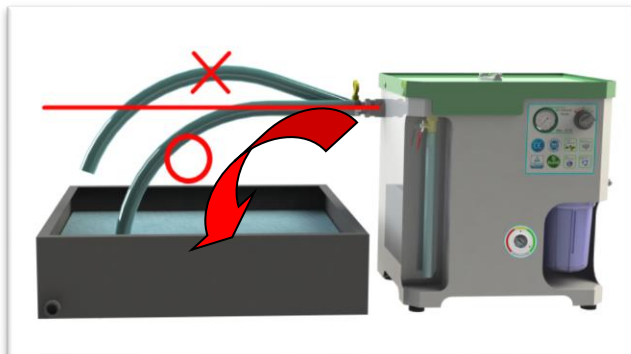
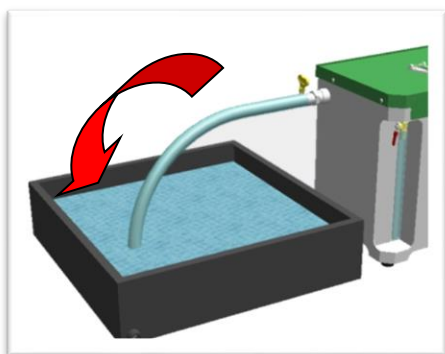
To keep the float tubes balanced, the coolant level must be maintained above 2" if

required, please add coolant.

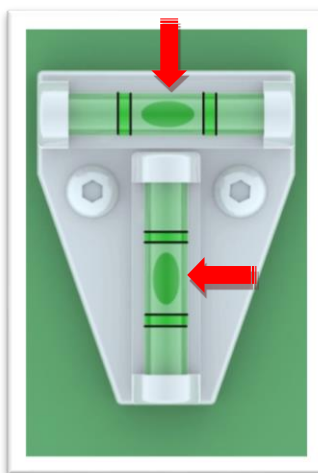


Green Eco Pro
Coolant Purification Systems

Installation Guide – Page 3



8. 1 The above diagrams indicate the position of the Coolant Outlet hose. This is also known as the coolant return hose. Do not jam or bend the hose, gravity will allow the coolant to flow down automatically. The coolant outlet port must be kept above the coolant tank. If required, add a riser block under the leveling support feet. The coolant outlet hose must be kept below the coolant outlet port, as illustrated above.



9. 1 Adjust the machine leveling feet, utilizing the leveling gauge,
Refer to the middle diagram above
10. 1 For Ultra 90, turn the Coolant volume switch to On position,

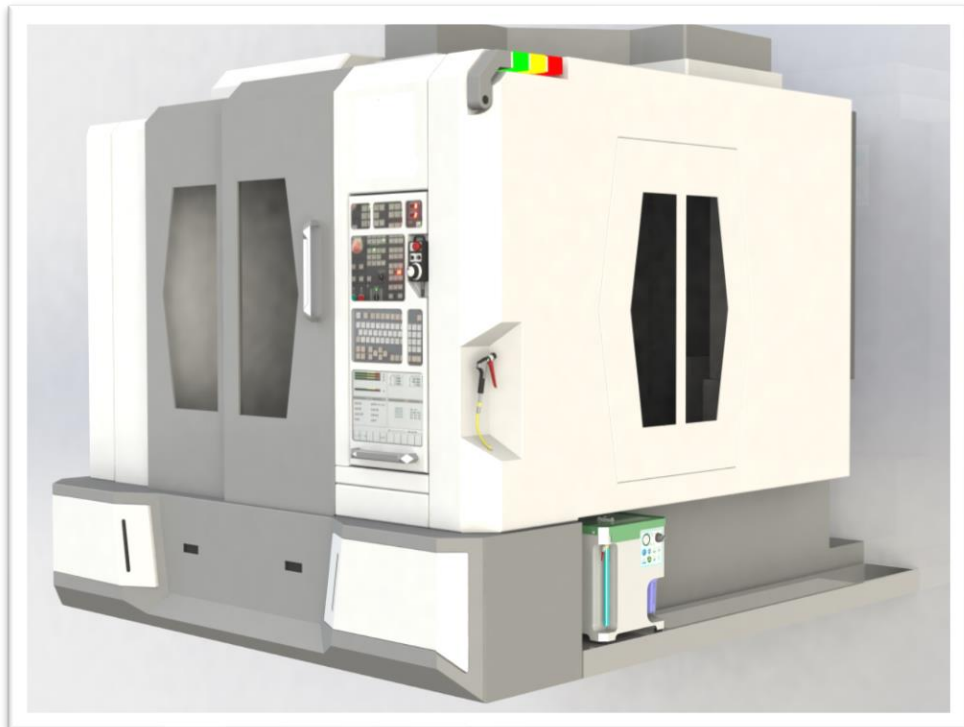


Green Eco Pro
Coolant Purification Systems

Installation Guide – Page 4



11. 1 Connect the drain hose to a recycle tank. A tank is not supplied in the kit. Be sure the oil outlet valve is in the On position



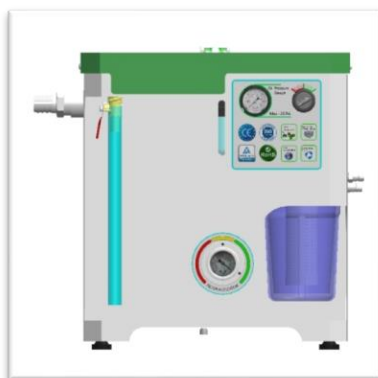
12. In order to obtain the best performance, this coolant purification unit must be installed within 3 Feet from the CNC machine. Once installed, do not remove the unit while in operation.



Green Eco Pro
Coolant Purification Systems

Operating Guide & Safety – Page 1

1. Coolant Volume Adjustment



1.1 With switch in the Off position, connect the air supply hose. Check the incoming air pressure by reading the gauge. Factory default setting at 35 P.S.I. If the actual air pressure is above/below the factory recommended value, adjust accordingly. The air pressure regulator is located under the top cover. To adjust the air pressure, pull the cap in the upward position. See the illustration above. Lowering the air pressure will cause the flow of coolant to stop as well as the pump to malfunction.

NOTE: To get a proper reading of air pressure gauge please turn the coolant volume switch On/off then on again.

2.1 In the event of the pump clogging up or if the unit is sitting idle for a period of time, this may cause the pump to malfunction. You may have to adjust the air pressure above 35 P.S.I. Once the pump resumes operation, readjust the air pressure to the factory recommended value of 35 P.S.I.



2. The relocation of unit

1. In case a relocation is required, be sure to shut off the oil outlet valve. Once it is moved to a desired location, please relevel this unit. When foam or bubbles occurred in the coolant, please stop operation of this unit or turn the coolant volume adjustment down.



Green Eco Pro
Coolant Purification Systems

Operating Guide & Safety – Page 2

Filter Indicator



Under normal condition/operation the filter indicator will read between the Green to Yellow zone.



When processing a higher viscosity of way lube oil, the filter indicator may reach the Red zone. Please verify the operation of the float tubes.



If the filter indicator stays in red zone, check the condition of float tube hose for obstruction.

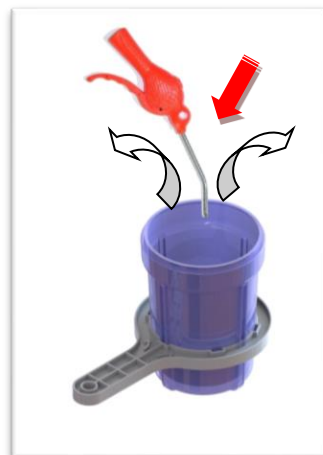
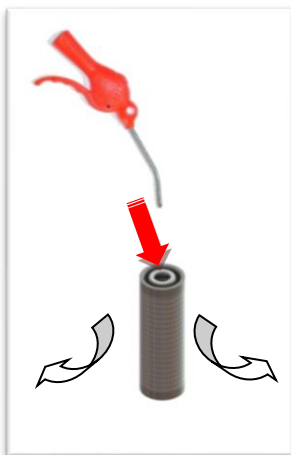
Please refer to the instructions in the maintenance guide for recovery procedure.



Green Eco Pro
Coolant Purification Systems

Maintenance Guide – Page 1

1. Clean the Filter element



1. 1 Be sure to turn off the unit by disconnecting the Air supply hose.
- 2.1 Use the filter wrench to remove the filter canister, turning the filter as indicated .
- 3.1 Clean the filter element and the canister by applying high pressure air, as illustrated above.
- 4.1 Remove, clean, and replace the O-ring.
- 5.1 Reassembly the filter element and the canister and install it on the unit.
Be sure not to over tighten. Apply appropriate force to lock the filter canister
A missing O-ring may cause the disruption of proper operation.

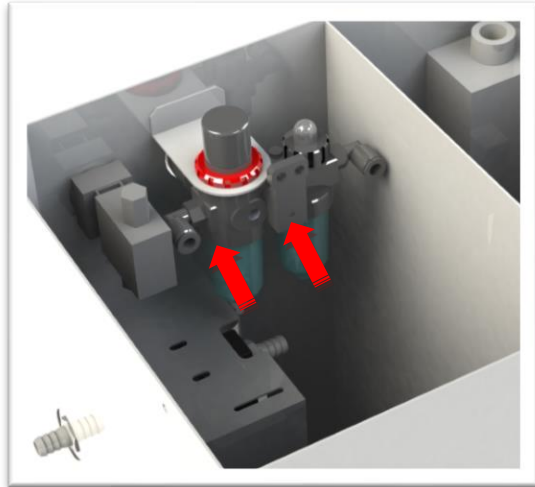
2 Clean the oil and coolant ports



Once the filter is maintenance is completed, be sure to check all of the coolant and oil ports as well as the float tubes for obstructions. See above illustration

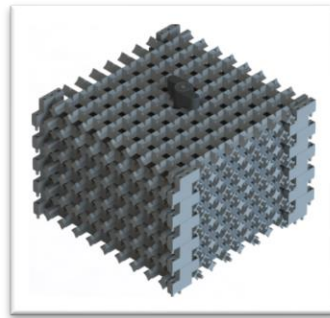
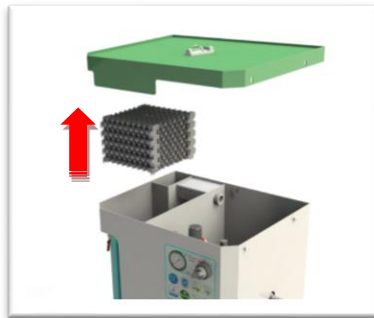
Maintenance Guide – Page 2

3. The location of Oil Lubrication & Filtration



1. 1 Check the level of oil lube on the air regulator unit by removing the top cover, if required please refill with O.E.M recommended oil -TURBINE OIL ISO VG32.
2. 1 While disconnecting the air supply hose, the air regulator will drain some mist automatically, be sure to check the incoming air supply. The supplied air should be dry and free from contamination.
- 3.1. Do not connect an air supply That Excesses 145 P.S.I. (10 bar)

4 Clean the coolant reservoir and the S.T.P.M module



- 1.1 To maintain a high performance of the unit, seasonal maintenance is recommended. Remove the top cover to drain any residual coolant.
- 2.1 With the top cover removed, loosen the bolt to separate the STPM module. Keep the STPM in one piece and then rise with clean water or high pressure air to remove dust. Once completed, apply the same procedure on coolant reservoir before reinstalling the STPM module.
- 3.1 Do not apply any chemical products or water with a temperature that exceeds 194 degrees (F) to STPM module.



Green Eco Pro
Coolant Purification Systems

Faulty Recovery Procedure – Page 1

The location of Pump Reset button



1. In the event of pump clogging, such as sludge, temporarily set the air pressure higher and reset the pump. See the illustration above. Once the fault recovery is completed, readjust the air pressure to recommended value of 35 P.S.I.
2. Lack of oil lubrication may cause the pump to malfunction intermittently. Add the recommended oil, TURBINE OIL ISO VG32, and press pump reset button.



Green Eco Pro
Coolant Purification Systems

Self inspection sheet-Page 1

	Maintenance Check Items	Maintain & Recovery Procedure	Weekly	Monthly	quarterly
Filtration System	Clean filter element, canister and O- Ring	Apply high pressure purified air thru or clean it with soap and water	●		
	Float Tube hose check	Check if cracks or physical damage have occurred	●		
	Float Tube unit check	Check if cracks or physical damage have occurred	●		
	Check STPM Module	Apply high pressure purified air thru or flush with clean water			●
Pneumatic & Coolant circulating System	Air pressure leak check	Check air inlet hose if cracks or physical damage have occurred			●
	Check pump oil level	Add oil if needed. Recommended Oil: TUBINE OIL ISO VG 32		●	
	Air filtration system	Check if there is water In the reservoir bowl			●
	Check connecting hose	Check coolant inlet hose, coolant return hose, and floatation inlet hose for cracking/leaking or deterioration			●
	Check Air pressure gauge	Readjust air pressure to 35 P.S.I			●



Green Eco Pro
Coolant Purification Systems

Self inspection sheet- Page 2

	Maintenance Check Items	Maintenance & Recovery Procedure	Weekly	Monthly	Quarterly
Unit interior & exterior	Check unit exterior	Clean the exterior of the unit with towel		●	
	Check the window glass	Clean with towel		●	
	Oil recycling reservoir	clean with towel, replacement is required if cracks occurred			●





Green Eco Pro
Coolant Purification Systems

WARRANTY STATEMENT

Terms & Conditions

In the event that a fault occurs with the machine or any parts supplied with it due to workmanship or defective materials, Green Eco Pro will replace any faulty components (other than consumable components) for a period of 12 months from the date of installation.

Provide that:

1. You have notified us of the relevant fault within 7 days of discovering it.
2. The machine has been used in accordance with our instructions.
3. The fault is not due to reasonable wear and tear and does not relate to consumable components (including, without limitation, filters, filter element, hand tool, O-ring).
4. Should the machine require relocation, make sure that the oil outlet valve is in the Off position. Relocate and level the unit. Otherwise, while cycling, the coolant purification unit shall not be removed.
5. We shall be entitled to have returned any components replaced by us under this warranty.
6. The warranty shall be deemed void if the customer or a third party modifies or repairs the equipment without having Green Eco Pro's previous approval.

The warranty offered on these products provides coverage against defective parts or faulty workmanship subjected to all routine maintenance and run up procedures being observed and carried out within these periods as detailed by Green Eco Pro Co.

The warranty does not cover for replacements in the event of accidental such as natural disasters or malicious damage or damage caused by misuse of the product.

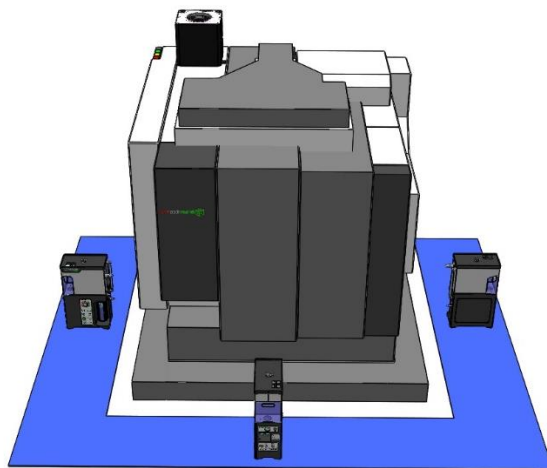
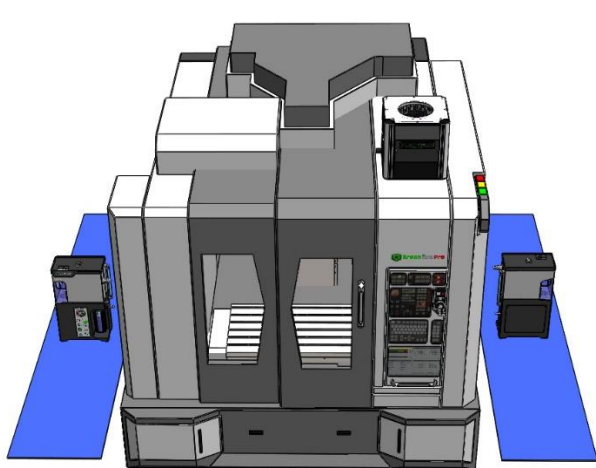
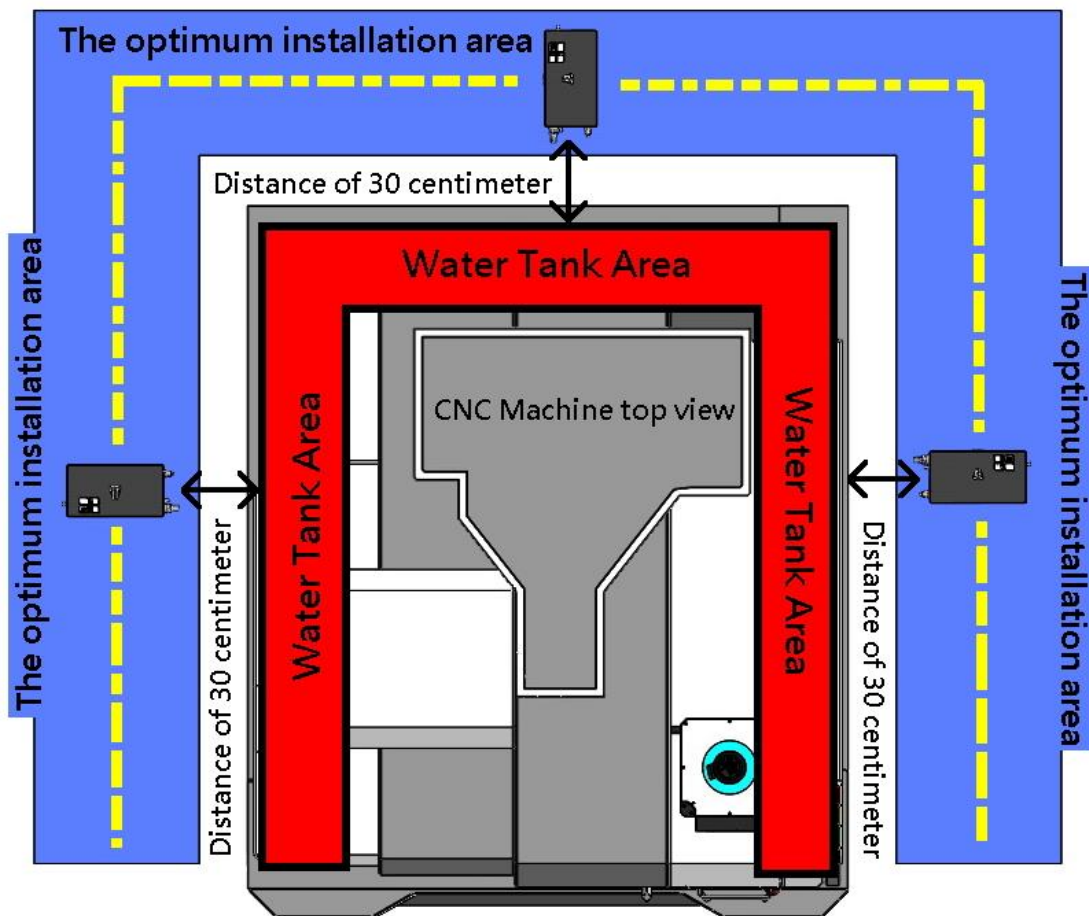
Part Warranty

With the exception of easily worn parts mentioned above, all other repair parts, when replaced, shall have a 6- month factory warranty period on the part itself regardless of the machine warranty term.

Safety information

The machine is peripheral products of CNC machine; no part of other area may be used.

The optimum installation area



CE regulations and standards

We GREEN ECO PRO CO., LTD. (No.12-19, Ln. 183, Sec. 4, Chongde Rd., Tanzi Dist., Taichung City 427, Taiwan)

declare under our sole responsibility that the products Coolant Purification Systems, model ULTRA 360 series described under this manual is in conformity with the following Directives/ or standardization documents:

☞ Machinery Directive 2006/42/EC

☞ EN ISO 12100

☞ EN ISO 4414

Ambient Noise Information

Equivalent A-weighted Sound pressure level according to EN ISO 3746: 75.32 dB(A)
Uncertainty, K in decibels: 4.0 dB (A) according to EN ISO 4871

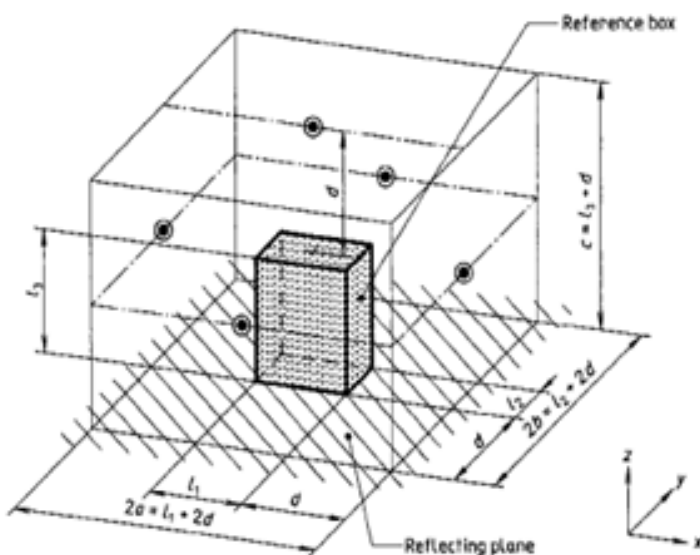
The figure quoted is emission levels and are not necessarily safe working levels.

Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required.

Factors that influence the actual level of exposure of the workforce include characteristics of the work room, the other sources of noise, etc. i.e. the number of machines and other adjacent processes.

Also the permissible exposure level can vary from country to country, This information,

However, it will enable the user of the machine to make a better evaluation of the hazard and risk.





SGS Reference No: RA/2018/50007C

Page 1 of 1

VERIFICATION OF COMPLIANCE
to the requirements of
Machinery Directive 2006/42/EC

Verification Report No. : RA/2018/50007C
Representative Model : ULTRA 360
Series Model(s) : ULTRA 90, ULTRA 90S, ULTRA 1200
Product Name : Coolant Purification Systems
Applicant : GREEN ECO PRO CO., LTD.
Address of Applicant : No.12-19, Ln. 183, Sec. 4, Chongde Rd., Tanzi Dist., Taichung City
427, Taiwan
TCF Number : TR18050901
Date of Issue : June 04, 2018
Date of Expiry : June 04, 2023
Applicable Standard(s) : EN ISO 12100 :2010, EN ISO 4414:2010

Conclusion

Based upon a review of the Technical Construction File, the apparatus is deemed to meet the requirements of the above standard(s) and hence fulfill the requirements of:

Machinery Directive 2006/42/EC

Note : This verification is only valid for the apparatus and configuration described and in conjunction with the technical data detailed above.

The CE mark as shown below can be used, under the responsibility of the manufacture, after completion an EC Declaration of Conformity and compliances with all relevant EC Directives.

Authorized Signatory:

SGS TAIWAN LTD.
Jason Lin
Technical Manager



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GREEN ECO PRO CO., LTD.

Confirmation

6/4/2018

We, **GREEN ECO PRO CO., LTD.** confirm that

The Product name: Coolant Purification Systems

The Representative type/model: ULTRA 360

The Series type/model: ULTRA 90, ULTRA 90S, ULTRA 1200

We, the manufacturer, will follow new machinery 2006/42/EC directive in Annex VIII and Annex VII for mass production according to CE rules. The series type/model will use the same mechanical structure, mechanical functions, electronic circuit diagram, electronics and control system as the representative type/model: ULTRA 360

We take full responsibility of the Representative and Series type/model in the CE market.

我們製造商確認會根據歐洲CE機械指令在附件七及附件八的要求確實作到量產品的機器與原認證的機械型號在機械結構，機械功能，安全保護蓋及安全電路和其他相關元件與迴路都同於原認證主型號: ULTRA 360作生產管控。我們也確認對我們公司的量產品機器對CE市場負完全的責任。

Company Stamp



Authorized Signature and Date

A handwritten signature in black ink, followed by the date '2018'.