AVIDITY SCIENCE

Geno™ Range
RO / DI Water System

GENO20 / GENO40

Series 5

Operation

OP-000112

Revision C

March 2021

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Important Safety and Service Information

The customer should comply with their organization's Electrical Safe Practices as recommended by the Occupational Safety and Health Administration (OSHA), or local and national safety codes.

This equipment must be operated by qualified persons who are knowledgeable and trained in its operation, and its associated hazards.

Use caution when operating, or servicing this equipment. It is the user's responsibility to read and understand the content of this manual before operating this equipment.

SAVE THESE INSTRUCTIONS

RoHS/WEEE Statement

Avidity Science water treatment, automated watering, environmental monitoring, and access control systems specified within this manual are manufactured in compliance with the RoHS Directive (EU Directive 2011/65/EU and subsequent amendments).

Hazard and Special Safety Notice Definitions

Below is a list of definitions of hazard symbols used on this product.

WARNING! Risk of electrocution or electrical shock resulting in death or severe personal injury.

WARNING! Could result in death or serious personal injury or equipment damage.

CAUTION! Minor or moderate injury or equipment damage

This manual may contain the following types of special notices.

IMPORTANT: Indicates information that is necessary to understanding a topic or performing a procedure.

NOTE: Indicates information that may be helpful in understanding a topic or performing a procedure.

Product Warnings - Electrical

WARNING! Electric shock. The electrical equipment in this system must be connected to a ground fault interrupting circuit. Failure to do so can cause electrical shock resulting in severe personal injury or property damage.

WARNING! Electrocution. Never stand in water when handling electrical equipment. Water is a conductor of electricity. Standing in water while operating this equipment can cause electrical shock or electrocution resulting in severe personal injury.

WARNING! Electric Shock. Disconnect the main power before servicing any electrical components. Failure to do so can cause electrical shock resulting in personal injury.

Product Warnings - Chemical

WARNING! Severe personal injury. Chlorine tablets are harmful if swallowed. Avoid contact with eyes, skin, and clothing. Wear protective gloves and eye wear when handling the chlorine tablet. Keep chlorine tablets in tightly closed container and away from heat, combustible materials, and hot surfaces. Wash hands thoroughly after handling.
Precautionary Statements: Contact with skin or eyes may cause severe irritation or burns. Ingestion may cause severe burning to mouth, throat, and stomach and may be fatal.
First Aid Procedures: If a chlorine tablet is swallowed, do not induce vomiting. If conscious, give two glasses of water or milk. In case of contact with skin or eyes, immediately flush with plenty of water for at least 15 minutes. In all cases, contact a physician. Consult Safety Data Sheet for further health and safety information.

Product Caution

CAUTION! Equipment damage. Follow all nationally and locally approved electrical codes when installing this equipment. Failure to do so can result in equipment damage.

Contacting Technical Support

For up to one year after your system installation date, you may contact Avidity Science for free technical support. All contact information appears in the tables below.

Europe, Middle East, Africa Support

Phone	E-mail	Web Site
+44 (0) 1844 201142	UK.TechSupport@AviditScience.com	AviditScience.com

Americas Support

Phone	E-mail	Web Site
800 558 5913	US.TechSupport@AviditScience.com	AviditScience.com

Asia - Greater China Support

Phone	E-mail	Web Site
(86) 400 699 2100	CN.TechSupport@AviditScience.com	AviditScience.com

Asia - Japan Support

Phone	E-mail	Web Site
+81 (0)3 6277 8440	JP.Info@AviditScience.com	AviditScience.com

bsi. ISO 9001:2015 Quality Management
Certificate No: FS 558309

Introduction

The Geno RO/DI Water System is a dual water purification system producing Type 2 water (1 to 15 MΩ) at a rate of 20 or 40 litres per hour. Type 2 water is stored in an external storage tank where it can be dispensed as needed, or be connected to a distribution system.

All recorded data, warning messages, and dispensing information is displayed on a screen located on the front panel of the unit.

All components of the system are assembled in a metal chassis and protected by a plastic housing that is designed for bench or wall-mounting. The front panels are secured with magnets and can be removed for easy access to consumables. The back panel is secured on the top and bottom with screws.

Geno Models

The content of this manual applies to these models. Some models include a submersible ultraviolet (**UV**) light for sterilization.

Table 1. Geno Models

Model	Product Water Quality	Product Water Flow Rate
GENO20	Type 2	20 litres/hour [5.3 gal/hour]
GENO40		40 litres/hour [10.6 gal/hour]

Purification Process

In normal operation, feed water enters the system through the inlet solenoid valve (**V3**), engaging the reverse osmosis pump (**P1**). the conductivity of the feed water is measured by the conductivity sensor (**Q1**) before it reaches the pump.

The untreated water is pumped through the carbon-based pre-treatment module (**TC001**) to detain larger particles greater than 20 micron in size and chemicals such as insecticides, pesticides, herbicides, and chlorides. The pre-treatment module is essential to protecting the RO membrane and must be replaced at the stated intervals to retain the integrity of the RO membrane as effectively and efficiently as possible.

After the pre-treatment module, water passes over the RO membrane (**TC026**). The RO membrane rejects almost all bacteria, viruses, heavy metal compounds and organics, as well as removing 98 percent of the salt content from the water. A percentage of the rejected water, referred to as *concentrate*, is sent to drain through flow restrictor (**R1**), while the remaining water re-enters the loop to pass through the RO membrane again, conserving water.

The product water, referred to as *permeate*, is measured through the permeate conductivity sensor (**Q2**) as it leaves the membrane. If the water quality measure within the set limits, then the permeate solenoid valve (**V5**) is opened and the permeate water reaches the next level of purification. If the water quality measure is outside the set limits, the system will display a warning for the user to act accordingly and the permeate is recycled or flushed to drain.

The accepted water is then pushed through the Endure Purification Pack 1 (**TC002**) which contains ion-exchange resins. The de-ionization process occurs and the product water quality is measured by the post-treatment conductivity sensor (**Q3**). If the quality above the set point, valve (**V9**) opens and the permeate water is fed into the required external storage tank (**TANK**) where it is held as Type 2 water. It is recommended that the tank is fitted with the submersible UV light (**TC008**) to maintain bacteria sterilization while the water is stored.

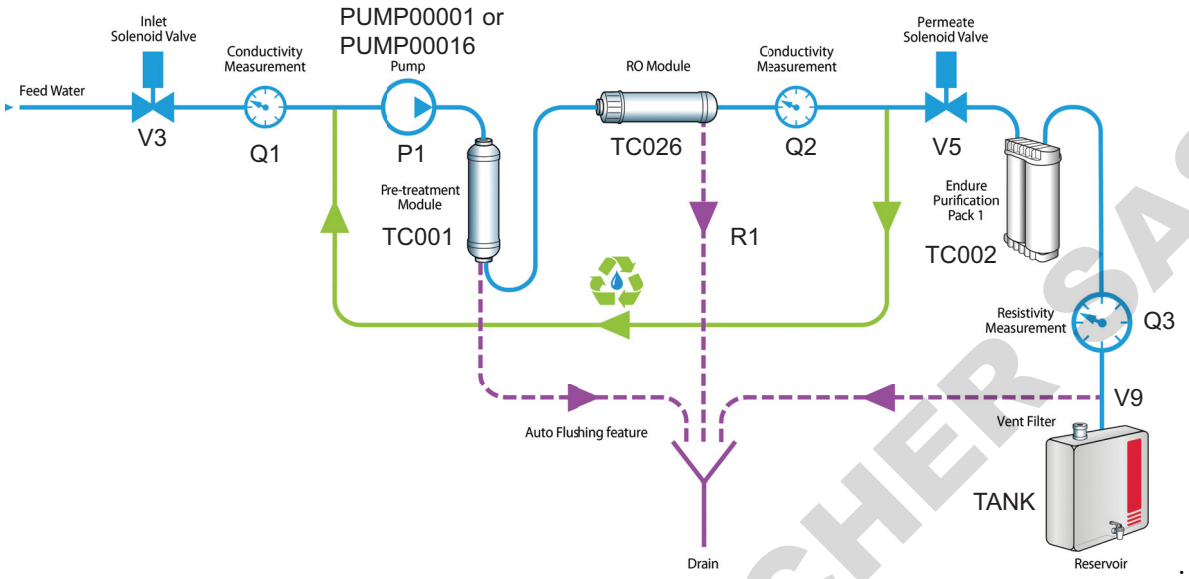


Table 2. Purification Process component descriptions.

Component	Description	Component	Description
V3	Inlet Solenoid Valve	**Q2**	Permeate Water Conductivity Sensor
Q1	Feed Water Conductivity Sensor	**V5**	Permeate Water Solenoid Valve
P1	RO Pump	**TC002**	Endure Purification Pack 1
TC001	Pre-Treatment Module	**Q3**	Post-Treatment Water Conductivity Sensor
TC026	RO Module (membrane)	**V9**	Valve
R1	Flow Restrictor	**TANK**	Storage Tank (30 litre, 60 litre, or 100 litre)

Feed Water Requirements

The feed water used must meet these requirements.

Pressure: 0.1 to 6 bar [1.45 to 87 psi]

Feed Water Conductivity: less than 1400 µS per cm

Free Chlorine: less than 0.1 mg per liter

Carbon Dioxide (CO_2): less than 15 mg per liter

Silica: less than 15 mg per liter

Silt Density Index (SDI): less than 3

Langelier Index (LI): less than zero

Iron: less than 0.1 mg per liter

Manganese: less than 0.05 mg per liter

pH: 3 to 9

Temperature: 5 to 35 degrees C [45 to 90 degrees F]

Primary Operation Menus and Sub-menus

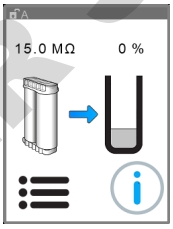
(red)

Access Main menu.

View Active Alarms

Main Menu

password Required



External Storage Tank is Filling

Access information related to the displayed screen.

(green)

Turn off the unit.

Access Main Menu

Access Technician settings. password required.

Change the current language

Sleep mode.

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Operation

User Settings

NOTE: A User password **1111** is required to access the user settings

These are the **User Settings** for the Geno unit.

RO Quality Limit. Set the required water quality of the Type 3 water

Tank Full Limit. Set the Full water level for the external storage tank

Tank Pump Set. Set the 100-litre tank pump pressure set point (if applicable)

DI Quality Limit. Post-treatment water conductivity setting

System Settings

Can only be accessed by qualified technician with a password.

Consumable Timers

Displays the number of hours since the:

- Pre-Treatment Module TC001 was installed,
- Endure Purification Pack 1 TC002 was installed, and
- RO membrane was cleaned (RO Clean)

Alarms (Warnings)

Displays active alarms. Alarms will automatically display as they occur. Touch the alarm name to display details.

Touch to acknowledge the alarm. The alarm will stay in the list until the associated issue has been fixed.

Change Language

Follow this procedure.

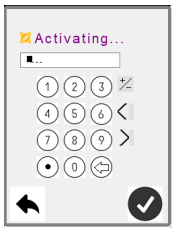
1. On  or  touch , then on  , touch
2. On 

, touch or to select the desired language and touch

Configure User Settings

Follow this procedure.

1. On  or  touch  , then on  , touch 



2. Enter the User password **1111** and touch 

3. Touch the applicable setting and touch  .
4. Touch  or  until the desired value is displayed.
5. Touch 
6. Touch  to return to the **User Settings**.
7. Repeat steps 3 through 6 until all applicable user settings are configured.
8. Touch  to return to the Main menu screen.

Warning Messages

Below are the warning messages and solutions.

Description	Error Number	Solution
Water leak (system shuts down)	**60**	Fix the leak. Dry the leak sensor located on the bottom of the cabinet. Contact Technical Support as necessary.
Permeate [a]	**40**	Contact Technical Support.
DI Quality Low[b]	**41**	Follow on-screen instructions.
Loop Resistivity[c]	**42**	Follow on-screen instructions.
Loop Temperature	**43**	Follow on-screen instructions.
Tank Empty	**50**	Follow on-screen instructions.
Tank Low	**51**	Tank level is 30 percent or less. If tank water level displays **-71%**, check all connections to the storage tank and the machine.
DI Quality Sensor Fault: LOW	**62**	Follow on-screen instructions.
Loop Conductivity Sensor Fault	**63**	Follow on-screen instructions.
Temperature Sensor: HIGH	**64**	Allow system to flush.
Temperature Sensor: LOW	**65**	Check incoming water temperature.
Level Sensor Fault: HIGH	**67**	Contact Technical Support.
Level Sensor Fault: LOW	**68**	Contact Technical Support.
Tank UV Lamp Run Time Expired	**5**	Contact Technical Support
Pretreatment Module TC001 time expired	**1**	Replace.
Endure Purification Pack 1 TC002 time expired	**2**	Replace.
Inlet Conductivity: HIGH	**24**	Check conductivity in Feed Water.
Pressure Sensor Fault: HIGH	**69**	100-litre storage tank with pump pressure sensor Contact Technical Support
Pressure Sensor Fault: LOW	**70**	100-litre storage tank with pump pressure sensor. Contact Technical Support
Pressure: HIGH	**71**	Geno pressure sensor. Follow instructions on the screen. Contact Technical Support if necessary.

a. When RO pump is ON
b. When Permeate is ON
c. When circulation pump is active

Routine Maintenance

Below is a schedule of routing maintenance intervals required to keep the Geno Water System operating.

Table 3. Schedule of Routine Maintenance

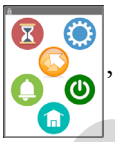
Maintenance Required	Frequency
Preventive maintenance by an Authorized Technician	6 months
Replace Pre-Treatment Module	6 months[a]
Replace Endure Purification Pack 2	6 months[a]
Replace RO membrane	On recommendation from an Authorized Technician
Replace Air Filter on Storage Tank	12 months
Sanitise RO membrane (RO Clean 1)	12 months or as needed based on bacterial growth.

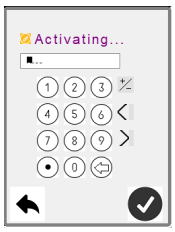
a. Recommended frequency depends on usage and applies to the stated model only, without modification.

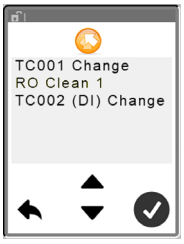
Replace Pre-Treatment Module

The pre-treatment module should be replaced every 3 to 6 months depending on the quality of the supply water. The module is located behind the front panel of the RO machine. You will need **Pre-Treatment Module TC001**.

Follow this procedure.

1. Lift the left front panel and remove.
2. On  , select  .



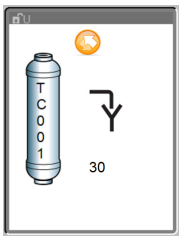
3. Enter the User passcode **1111** and touch 
4. On 

, touch **TC001 Change** and touch  .

5. On 

, touch ✓

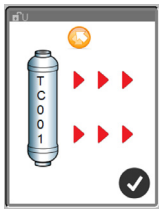
- The permeate valve closes, the flush valve opens, and the system depressurizes for 30 seconds as shown below.



6. When the pressure screen shown below appears, observe the pressure gauge to verify the system has depressurized.

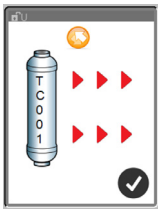
NOTE: The system does not measure the pressure, so it is essential that the user verify that there is zero pressure before continuing.

7. When the system has been confirmed to be depressurized, touch ✓. The flush valve closes.

8. When 

appears, lift the left front panel and remove the Pretreatment module **TC001** from it's brackets and disconnect the elbow fitting at each end.

9. Place the cartridge is a safe location for disposal later.

10. On 

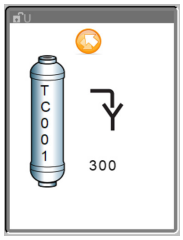
, touch ✓. The consumable timer for **TC001** will reset.

11. When 

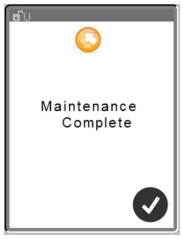
appears, reconnect the Pretreatment Module (**TC001**).

12. When the Pretreatment Module is reconnected, touch ✓

- The Pretreatment Module is flushed for 300 seconds (5 minutes)



- At the conclusion of the flush, the Pretreatment Module replacement is complete.



13. Touch ✓ to return to the main menu.

14. Replace the left front panel.

15. Dispose of the used module following local environmental disposal guideline.

Replace Endure Purification Pack

Follow this procedure to replace the **Endure Purification Pack TC002**.

1. If you have not already done so, remove the left front panel.
2. On  , select  .

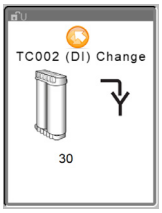
3. Enter the User password and touch 
4. On 

, touch **TC002 (DI) Change**.

5. On 

, touch .

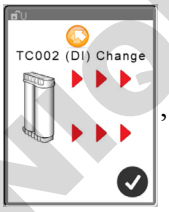
- permeate valve closes, the flush valve and the DI valve open, and the system depressurizes for 30 seconds as shown below.



6. When the pressure screen shown below appears, observe the pressure gauge to verify the system has depressurized.

NOTE: The system does not measure the pressure, so it is essential that the user verify that there is zero pressure before continuing.

7. When the system has been confirmed to be depressurized, touch . The flush valve closes.

8. When 

, remove the existing TC002 cartridge.

9. Place the cartridge is a safe location for disposal later.

10. Remove the packaging from the applicable **Endure Purification Pack**.

11. Remove the covers from the receptacles on the back of the pack shown below.

12. Place the applicable purification pack in its defined location.

13. Lift up on the back of the pack to slide the receptacles over the tubes on the back wall.

14. Be sure the pack is resting against the inside lip of the bracket and not on top of it as shown above.

15. On 

, touch ✓. The consumable timer for **TC002** will reset

16. On 

, touch ✓

17. When 

appears, the system pressurizes and flushes for 400 seconds (6 minutes and 40 seconds).

18. When 

is displayed, touch ✓ to return to the main menu.

19. Replace the left front panel.

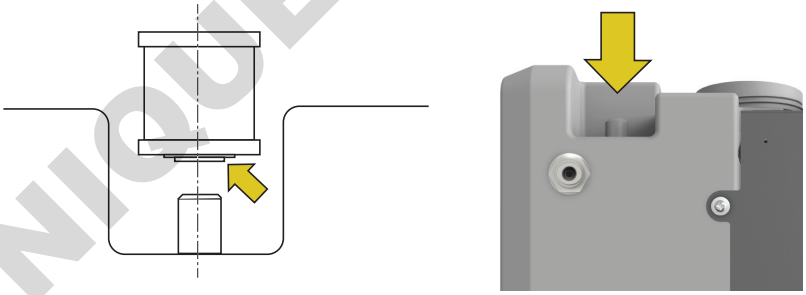
20. Dispose of the used purification pack following your site requirements for disposal.

Replace Air Filter on External Storage Tank

All tanks use air filter (**TC005**). The air filter connects to the top of the storage tank.

Follow this procedure.

1. Remove the new air filter from its packaging.
2. Pull the existing filter off the top of the tank.
3. Turn the new filter so the flange-end faces down toward the filter-connection tube as shown below.
4. Place the filter over the tube on the tank. and press down.



Sanitise RO Membrane (RO Clean)

The RO Clean command initiates a process to sanitise the RO membrane(s). An RO Clean should be performed every 12 months or as bacterial growth dictates.

View Number of Hours Since Last RO Clean

Follow this procedure.

1. On  or  , select 
2. On 

, **Last RO Clean shows** the total number of hours

Required Equipment

You will need this equipment for this process:

- Protective gloves and eye wear
- CT-1 Chlorine Tablets, TC084 7120-0100-205
- Strainer AV034
- Pre-Treatment Module TC001 7120-2200-101

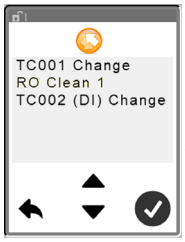
Perform RO Clean

Take one of these actions.

1. Take one of these actions.
   - From  , touch  , then on  touch 

   or

   - From  , touch 

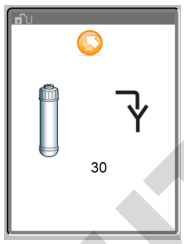
2. On 

, touch **RO Clean 1** and touch ✓

3. On 

, touch ✓.

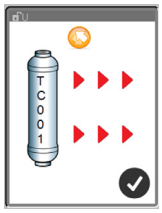
The flush valve opens and the system depressurizes for 30 seconds as shown below.



4. When the pressure screen shown below appears, observe the pressure gauge to verify the system has depressurized.

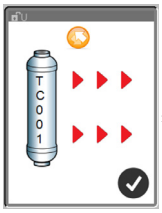
NOTE: The system does not measure the pressure, so it is essential that the user verify that there is zero pressure before continuing.

5. When the system has been confirmed to be depressurized, touch ✓. The flush valve closes.

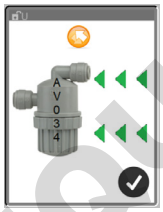
6. When 

appears, lift the left front panel and remove the Pretreatment module **TC001** from it's brackets and disconnect the elbow fitting at each end.

7. Place the cartridge is a safe location. It will be reconnected after the cleaning process.

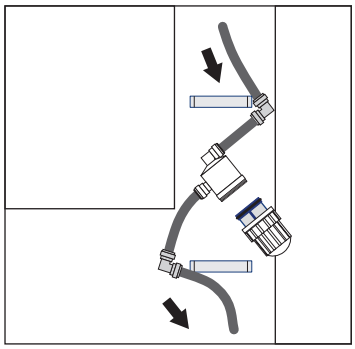
8. On 

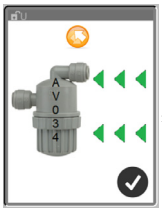
, touch ✓

9. When 

appears, connect Strainer **AV034** as shown below.

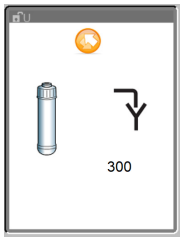
NOTE: Direction of the arrows on the strainer housing must match the water direction arrows shown below.



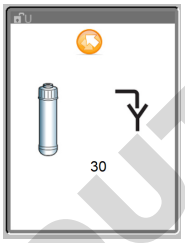
10. On 

, touch ✓

- The RO flush operation starts and a 300 second (5 minute) countdown begins.



- The flush valve opens and the system depressurizes for 30 seconds as shown below



11. When the pressure screen shown below appears, observe the pressure gauge to verify the system has depressurized.

NOTE: The system does not measure the pressure, so it is essential that the user verify that there is zero pressure before continuing.

12. When the system has been confirmed to be depressurized, touch ✓. The flush valve closes.

13. When 

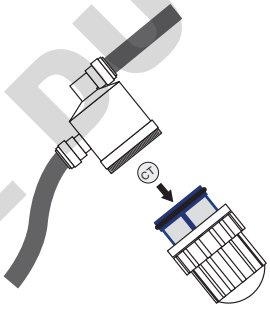
appears, unscrew the cap from the strainer housing.

WARNING! Severe personal injury. Chlorine tablets are harmful if swallowed. Avoid contact with eyes, skin, and clothing. Wear protective gloves and eye wear when handling the chlorine tablet. Keep chlorine tablets in tightly closed container and away from heat, combustible materials, and hot surfaces. Wash hands thoroughly after handling.

Precautionary Statements: Contact with skin or eyes may cause severe irritation or burns. Ingestion may cause severe burning to mouth, throat, and stomach and may be fatal.

First Aid Procedures: If a chlorine tablet is swallowed, do not induce vomiting. If conscious, give two glasses of water or milk. In case of contact with skin or eyes, immediately flush with plenty of water for at least 15 minutes. In all cases, contact a physician. Consult Safety Data Sheet for further health and safety information.

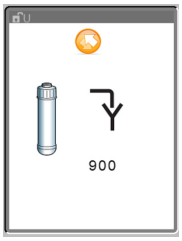
14. Wearing protective gloves and eye wear, insert one CT chlorine tablet into the strainer and secure the cap to the housing.



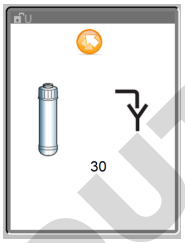
15. On 

, touch ✓.

- The RO Clean and flush operation starts and a 900 second (15 minute) countdown begins.



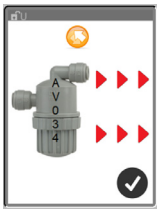
- The flush valve opens and the system depressurizes for 30 seconds as shown below

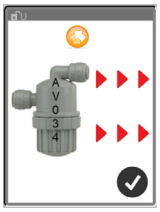


16. When the pressure screen shown below appears, observe the pressure gauge to verify the system has depressurized.

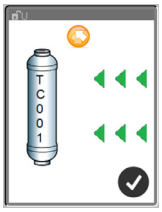
NOTE: The system does not measure the pressure, so it is essential that the user verify that there is zero pressure before continuing.

17. When the system has been confirmed to be depressurized, touch ✓. The flush valve closes.

18. When  appears, disconnect the strainer from the pretreatment module connections.

19. On 

, touch ✓

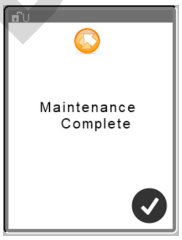
20. When 

appears, reconnect the Pretreatment Module (**TC001**).

21. When the Pretreatment Module is reconnected, touch ✓

- The Pretreatment Module is flushed for 300 seconds (5 minutes)

- At the conclusion of the flush, the RO clean process is complete.



22. Touch ✓ to return to the main menu.

Consumables and Replacement Parts

These are the consumables and parts for replacement on the Geno unit.

Consumables

Below is a list of items that regular replacement.

Table 4. Consumable items.

US Part Number	European Part Number	Description	Recommended Stock Quantity
7120-3500-101	TC002	Endure Purification Pack 1	---
7120-2200-101	TC001	Pre-Treatment Module	---
8100-5000-018	TC026	RO Membrane	1 (GENO 20) 2 (GENO40)
2200-7120-010	TC008	UV Lamp, External Storage Tank	---
7120-3500-102	TC005	Air Filter, External Storage Tank	1
7120-0100-205	TC086	Chlorine Tablets, CT-1	1

Replacement Parts

Below are the replacement parts that are available. Parts will be replaced by an Authorized Technician as necessary or as part of a Preventive Maintenance program.

Table 5. Replacement parts.

US Part Number	European Part Number	Description	Recommended Stock Quantity
7120-3000-111	SENS00003	Post-Treatment Conductivity Sensor	1
7120-3500-103	SENS00002	Temperature Sensor	1
7120-2200-107	VALV00004	Ring main Solenoid Valve	1
		Inlet Solenoid Valve	1
7120-4000-114	VALV00005	Pressure Control Valve	1
7120-2200-113	VALV00008	Check Valve, 10 psi	1
7120-2200-118	CONT00001	Main Control Board	1
7120-2200-119	BATT00001	Main Control Board Battery (CR2430, 3V Lithium)	1
7120-2200-120	CONT00002	Display Controller	1
7120-3500-104	SENS00007	Leak Detector	1
7120-2200-126	ADAP00002	Power Supply Unit	1
7120-2200-105	VALV00003	Pressure Reducing Valve	1
7120-2200-106	VALV00002	Inlet Check Valve	1
		Pulsation Dampener Check Valve	1

Table 5. Replacement parts. (Continued)

US Part Number	European Part Number	Description	Recommended Stock Quantity
7120-2200-111	SENS00005	Inlet Conductivity Sensor	1
		RO Permeate Conductivity Sensor	1
7120-2200-108	PUMP00001	RO Pump (GENO20)	1
8100-5000-020	PUMP00016	RO Pump (GENO40)	1
7120-2200-112	GAUG00001	Pressure Gauge	
7120-2200-110	DAMP00001	Pulsation Dampener	1
		RO Housing	1
7120-2200-115	REST00002	Flow Restrictor (green), *GENO20*[a]	1
7120-2200-116	REST00003	Flow Restrictor (blue), *GENO20*	1
7120-2200-117	REST00004	Flow Restrictor (white), *GENO40*	1
7120-4000-210	SENS00008	Pressure Sensor	1
7120-2200-121	DISP00006	Display Touchscreen	1
1600-3000-002	TUBE00002	Tube 1/4-inch, white (1-metre section)	2
1600-3000-001	TUBE00001	Tube 5/16-inch, white (1-metre section)	2
1600-3000-003	TUBE00003	Tube 3/8-inch white (1-metre section)	2
7120-2200-124	WIRE00014	Power-In Cable	---
7120-2200-128	LEAD00001	Power Cord (UK)	---
7120-2200-129	LEAD00003	Power Cord (EU)	---
7120-2200-127	LEAD00004	Power Cord (US)	---
7120-2200-131	LEAD00005	Power Cord (China)	---
7120-3500-105	LOOM00005	Wiring Loom for Solenoids	---
7120-3500-106	LOOM00006	Wiring Loom for Sensors	---

a. For soft water (less than 100 ppm)

External Storage Tank Replacement Parts

Below are the available external storage tanks for replacement.

Table 6. Storage Tank Replacement Parts.

US Part Number	European Part Number	Description	Recommended Stock Quantity
2311-7120-030	TANK30	Tank, 30 litre	---
2311-7120-060	TANK60	Tank, 60 litre	---
2311-7120-100	TANK100	Tank, 100 litre	---
2311-7120-102	TANK100P-01	Tank, 100 litre with integral pump, 230V	---
2311-7120-101	TANK100P-02	Tank, 100 litre with integral pump, 115V	---
6830-2311-102	CONT00003	Controller (power converter) for 230V pump	---
6830-2311-101	CONT00005	Controller (power converter) for 115V pump	---
2300-2311-101	PUMP00005	Pump, 100-litre tank	---
7120-2200-129	LEAD00002	Power cord for 100-litre Tank with pump (EU)	---
7120-2200-128	LEAD00001	Power Cord for 100-litre Tank with pump (UK)	---
7120-2200-127	LEAD00004	Power Cord for 100-litre Tank with pump (US)	---
7120-2200-131	LEAD00005	Power Cord for 100-litre Tank with pump (China)	---
2311-3000-002	LIDS00001	Storage Tank Lid	---
7120-2200-130	SENS00016	Water Level Sensor	1
2400-2311-101	SENS00009	Pressure Sensor, 100-litre Tank with pump	1
6700-2311-102	FUSE00002	Fuse, 100-litre Tank with 230V pump	1
6700-2311-101	FUSE00003	Fuse, 100-litre Tank with 115V pump	1
6420-2311-102	LOOM00014	Pressure Sensor Wiring Harness for 100-litre tank with Pump (Port A)	---
8100-4500-211	LOOM00016	UV Lamp Cable	---
8100-4000-262	LOOM00017	Water Level Sensor Connection Cable. 10 metres (optional)	--
6420-2311-101	LOOM00019	Internal Wiring Harness for 100-litre Tank with pump	---
2200-7120-001	AV012	UV Lamp Assembly (includes transformer and UV lamp) **NOTE:** See *Consumables* on page 27 for UV lamp part number.	---
4230-2311-101	LABL00043	Label for 100-litre Tank	---

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