

PURELAB[®] Pharma Compliance



Operator Manual
MANU41381 Version 1.2 03/23

Product No. VCLSDM1

Contents

	Quick Start Guide	Page 1 - 13
1.	Operator Manual Introduction	Page 14
1.1	Health and Safety	Page 14
1.2	Product Model	Page 14
1.3	Use of this Manual	Page 14
1.4	Installation	Page 14
1.5	Environment	Page 14
1.6	Commissioning	Page 14
1.7	Customer Support	Page 14
2.	Guide to Your PURELAB Pharma Compliance	Page 15 - 16
3.	Main Display Settings and Buttons Operations	Page 17 - 27
4.	Product Consumables and Accessories	Page 28 - 29
5.	Register Your Product	Page 30
6.	Quick Reference Guide	Page 31 - 32
6.1	Manual Dispense	Page 31
6.2	Continuous Dispense	Page 31
6.3	Auto Volume Dispense	Page 31
6.4	Deactivating Auto Volume Dispense	Page 32
6.5	ON / OFF, Menu and Accept	Page 32
7.	Software Application Guide	Page 33 - 45
7.1	Service Engineer - Home Screen	Page 33
7.2	Service Engineer - Actions	Page 33 - 34
7.3	Service Engineer - Alarms	Page 34
7.4	Service Engineer - System	Page 34
7.5	System Administrator - Home Screen	Page 35
7.6	System Administrator - Actions	Page 35 - 36
7.7	System Administrator - Alarms	Page 36
7.8	System Administrator - System	Page 36
7.9	System Administrator - Roles	Page 37
7.10	System Administrator - Users	Page 38

Contents

7.11	System Administrator - Create Button	Page 38
7.12	System Administrator - Update Button	Page 39
7.13	System Administrator - Reset Password Button	Page 40
7.14	System Administrator - Resetting the System Administrator's Password	Page 40
7.15	System Administrator - Toggle Disabled Button	Page 40
7.16	System Administrator - Unlock Locked Button	Page 40
7.17	System Administrator - Downloading the Audit trail (All Users Actions)	Page 41
7.18	Laboratory Manager - Home Screen	Page 42
7.19	Laboratory Manager - Actions	Page 42 - 43
7.20	Laboratory Manager - Alarms	Page 43
7.21	Laboratory Technician - Home Screen	Page 44
7.22	Laboratory Technician - Actions	Page 44 - 45
7.23	Laboratory Technician - Alarms	Page 45
8.	Maintenance	Page 46
8.1	Replacing the LC210 Ultraviolet Lamp	Page 46
8.2	Replacing the LC232, LC244, LC245 and LC246 Purification Packs	Page 47
8.3	Replacing the LC151 Ultra Filtration Module	Page 48
8.4	Cleaning the Feedwater Inlet Mesh Filter	Page 49
8.5	Replacing the LC134 or LC145 or LC197 Point-of-Use Filters	Page 50
8.6	Sanitization Procedures	Page 51
8.7	Suitability Test Chemical Preparation	Page 52 - 53
9.	Troubleshooting	Page 54 - 55
10.	Technical Specifications	Page 56 - 58
11.	Warranty / Conditions of Sale	Page 59
11.1	Lithium Battery Removal	Page 60

The information contained in this document is the property of VWS (UK) Ltd, trading as ELGA LabWater, and is supplied without liability for errors or omissions. No part of this document may be reproduced or used except as authorized by contract or other written permission from VWS (UK) Ltd. The copyright and all restrictions on reproduction and use apply to all media in which this information may be placed. VWS (UK) Ltd. pursue a policy of continual product improvement and reserve the right to alter without notice the specification, design, price or conditions of supply of any product or service. © VWS (UK) Ltd. 2023 – All rights reserved. ELGA® is a registered trademarks of VWS (UK) Ltd.

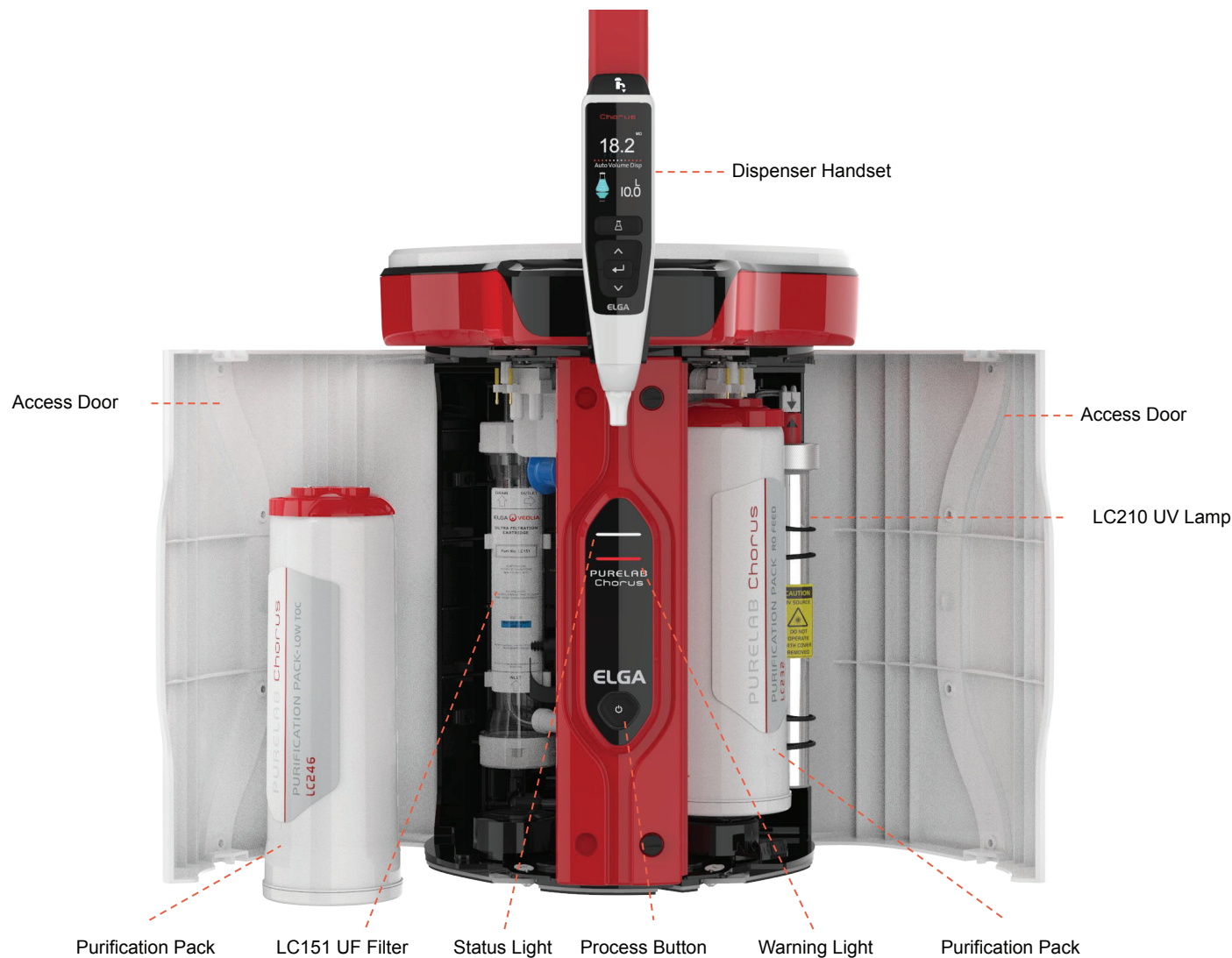
Effersan™ is a registered trademark of Activon Inc.

Welcome

Thank you for purchasing the PURELAB Pharma Compliance.

PURELAB Pharma Compliance purifies pre-treated RO, SDI or distilled feed water into Type 1 quality water. This product has been specifically designed to comply with the Food and Drug Administration part 11 of title 21 code of Federal Regulations for electronic records and electronic signatures (21 CFR Part 11) and European Commission (EU GMP Annex 11) for Life Science professionals. Using the integrated software application the operator can log in, digitally track and record the purified water output.

PURELAB Pharma Compliance is supplied in a preset commissioning mode which must be completed before purified water can be dispensed. Please follow and complete the step by step instruction in this quick start guide, whilst also referring to the IQ section of the validation support manual.



Please read the Health and Safety notices in this Quick Start Guide before proceeding with the installation, failure to observe these instructions could result in damage to the equipment and associated equipment resulting injury or death.

ELGA VEOLIA
Tel: +44 (0) 203 567 7300
Email: info@elgalabwater.com Website: www.elgalabwater.com
Unit 10 Lane End Industrial Park, Lane End, High Wycombe HP14 3BY

ELGA is the global laboratory water brand name of Veolia. PURELAB is an ELGA trademark and technology. Owing to a policy of continual improvement, we reserve the right to amend the specifications given in this document. 2022 ELGA VEOLIA / VWS (UK) Ltd. All rights reserved.

Quick Start Guide - Health and Safety Notes

Please follow the health and safety information detailed below for this Quick Start Guide and Operator Manual.



WARNING!

WARNINGS ARE GIVEN WHERE FAILING TO OBSERVE THE INSTRUCTIONS COULD RESULT IN INJURY OR FATALITY.



Cautions!

Cautions are given where failure to observe the instructions could result in damage to the equipment, associated equipment and processes.

Environment



Caution!

Clean dry indoor. Temp 5-40°C. Humidity max 80%, non-condensing.



Caution!

PURELAB Pharma Compliance is not designed for use in fume cupboards where chemicals could damage the product.



Caution!

Installed on a flat level worktop,

Electricity

The appliance coupler (mains lead) or power supply connected to the rear of the unit can be removed to isolate the power supply. If access to this is restricted then it is recommended that access to the mains socket is easily available to disconnect the power supply.



WARNING!

ONLY USE THE APPLIANCE COUPLER (MAINS LEAD) AND POWER SUPPLY PROVIDED, USE OF THESE WILL ENSURE ADEQUATE EARTH PROTECTION. DISCONNECT ELECTRICAL MAINS POWER SUPPLY BEFORE ANY MAINTENANCE WORK IS STARTED. IF THE EQUIPMENT IS USED IN A MANNER NOT SPECIFIED BY ELGA VEOLIA, THE PROTECTION PROVIDED BY THE EQUIPMENT MAY BE IMPAIRED.



WARNING!

ALWAYS ENSURE THAT THE ELECTRICAL MAINS POWER SUPPLY IS ISOLATED BEFORE WORKING INSIDE.



WARNING!

ALWAYS ENSURE THAT THE ELECTRICAL MAINS POWER SUPPLY CANNOT COME INTO CONTACT WITH WATER.

Ultraviolet Light



WARNING!

UNDER NO CIRCUMSTANCES SHOULD THE UV LAMP BE CONNECTED AND ACTIVATED WHEN OUTSIDE THE HOUSING. EXPOSURE COULD CAUSE SERIOUS INJURY TO EYES AND SKIN. ENSURE UV LAMP IS DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.

Residual Biostat



WARNING!

DURING THE COMMISSIONING CYCLE TRACE RESIDUAL BIOSTAT ARE FLUSHED FROM THE SYSTEM. COSHH MATERIAL SAFETY DATA SHEET ARE AVAILABLE UPON REQUEST.

Personal Protective Equipment (PPE)



WARNING!

MAINTENANCE MUST BE CARRIED OUT WITH PROPER PROTECTIVE EQUIPMENT THAT INCLUDES STERILE LATEX - NITRILE GLOVES CAT 3 AND SAFETY GLASSES WHEN HANDLING GLASS CONSUMABLES.

Control of Substances Hazardous to Health (COSHH)

Note: Ensure the consumables are disposed of in accordance with local regulations.

Items Not Supplied



Lab Coat



Goggles



Sterile Latex Gloves



LC272 Tablet Bypass
(Used with LC236-M2 Sanitization Pack)

Supplied LA835 Installation Kit

Part Number	Description	Qty
TUBE31957-02	Tube HIPURE 8MM OD Tubing 5M	1X
FTADAC0530	Adaptor Acetal 5/16" OD (1/2 BSPF)	1X
VABLAC0040	Shut Off Valve - Valve Ball 8mm OD	1X
FTBEAC0505	Flow Bend JG 5/16"	6X
CECAGU350982	USB 2.0 Male A to B 3M Cable	1X

Supplied Items

Part Number	Description	Qty
LC232	Purification Pack (DI) - RO FEED	2X
LC233	Bypass Pack (Used with LC236 Sanitization Pack and LC271 Liquid Sanitization Pack)	2X
LC296	Chemical Pack (System Suitability Test - Procedure for confirming suitability of TOC monitor operation)	1X
VSM-VCLSDM	Validation Support Manual	1X
POWE40855	Power Supply 160W 24V	1X
OR		
POWE40855-US	Power Supply and lead for the USA	1X

Quick Start Guide - System Configurations

Example 1: 1 X PURELAB Pharma Compliance - 1 X 15L Reservoir or 25L Reservoir

- PURELAB Pharma Compliance Port 1: Feedwater Inlet

PURELAB Pharma Compliance Port 3: Drain

PURELAB Pharma Compliance Port : USB

PURELAB Pharma Compliance Port 6: Power In 1
- Reservoir : Outlet

Reservoir : Overflow

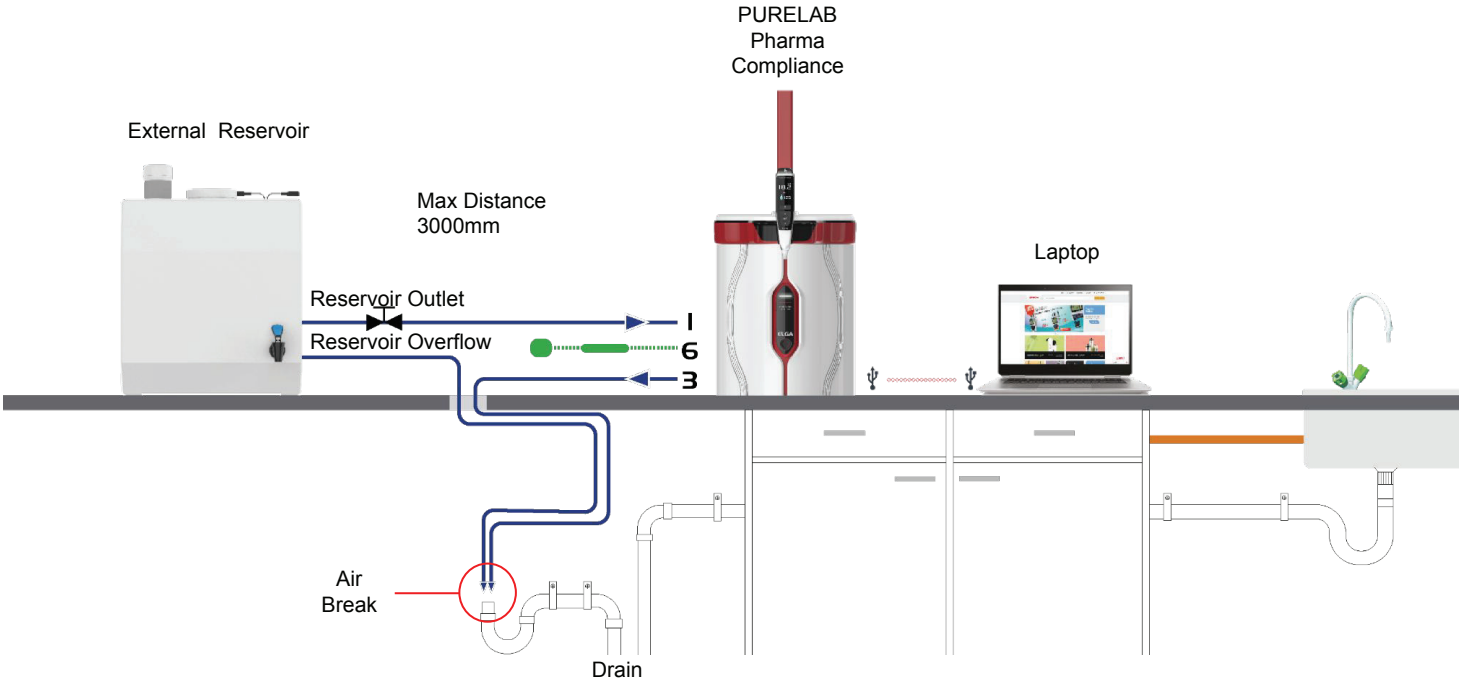
An external reservoir with pre-treated RO, SDI or distilled feed water is feeding a PURELAB Pharma Compliance to produce Ultrapure Type 1 quality water.

New system configuration:

1. Open the manual valve on the reservoir outlet to the PURELAB Pharma Compliance port 1: Feed water inlet and continue to commission.
2. PURELAB Pharma Compliance is set in pre-commissioning mode and will automatically direct water to drain during this procedure.

Please follow the commissioning procedure instructions.

Key	
COMMS	
Power Cable	
Power Supply	
Water	
Pressure Regulator LA652	
8mm Flow Bend	
Manual 8mm shut off Valve	
Non-Return-Valve	
USB Cable	



Quick Start Guide - System Configurations

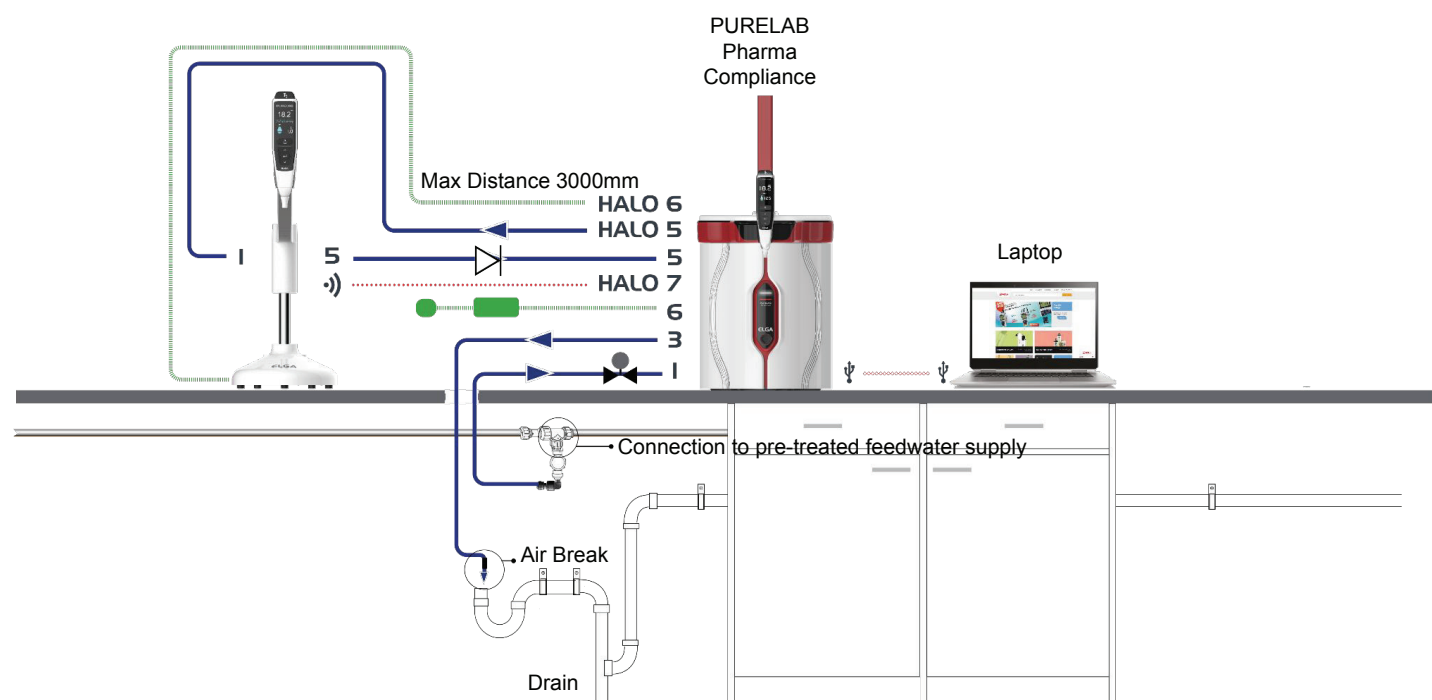
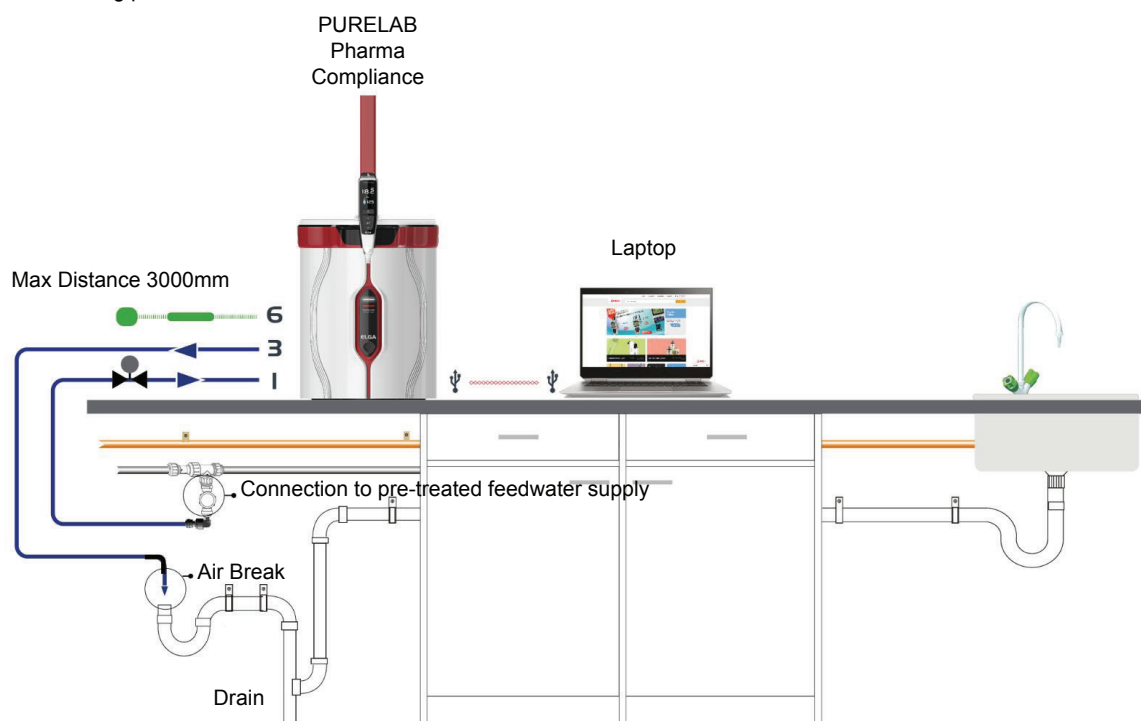
Example 2: 1 X PURELAB Pharma Compliance

Pre-treated RO, SDI or distilled feed water is feeding a PURELAB Pharma Compliance to produce Ultrapure Type 1 quality water.

New system configuration:

1. Open the pressure regulator to 0.7bar PURELAB Pharma Compliance port 1: Feed water inlet and continue to commission.
2. PURELAB Pharma Compliance is set in pre-commissioning mode and will automatically direct water to drain during this procedure.

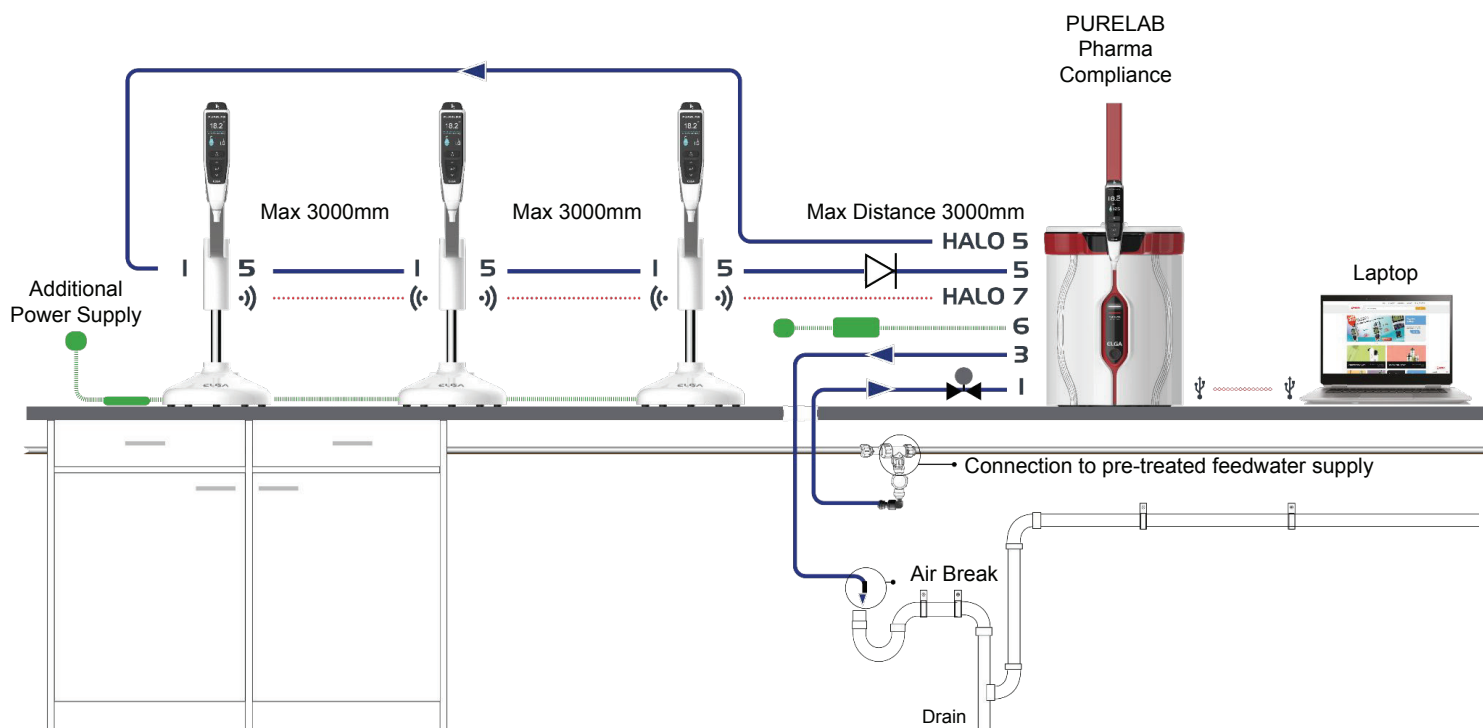
Please follow the commissioning procedure instructions.



Quick Start Guide - System Configurations

Example 4: 1 X PURELAB Pharma Compliance - 2 or 3 X LA837 PURELAB Pharma Dispensers

Pre-treated RO, SDI or distilled feed water is feeding a PURELAB Pharma Compliance to produce Ultrapure Type 1 quality water.



* An additional POWE40855 or POWE40855-US supply will be required for this configuration. LA837 only comes with a 5M External Power Cable LEAD4017.

Quick Start Guide - Set Up / Commissioning

1. POSITIONING PURELAB Pharma Compliance

PURELAB Pharma Compliance should be installed on a flat, level surface, in a clean dry environment recommend 15 - 25 °C.

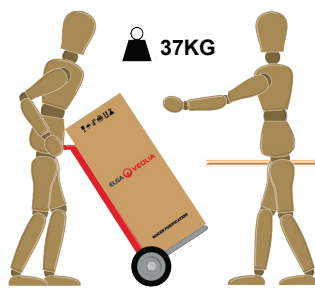


Fig.1

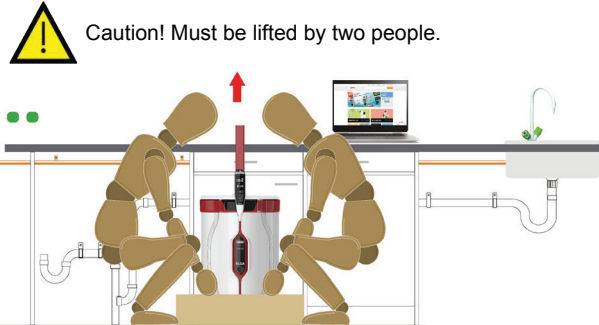


Fig.2

(Guidance from Health and Safety Executive, INDG143 (REV 3), Open Government License).

2 . RECOMMENDED FEEDWATER CONNECTIONS

For system configurations examples 2,3 and 4 a direct pre-treated RO, SDI or distilled feed water supply to a PURELAB Pharma Compliance (VCLSDM), regulate the feedwater to 0.7 bar using LA652.

FEEDWATER CONNECTION INSTALLED BY A COMPETENT PERSON ONLY. SERVICE ENGINEER OR FACILITIES MANAGER.

- Isolate the water supply.
- Cut the 15mm white plastic pre-treated RO, SDI or distilled feed water supply pipe with a suitable 15mm tube cutter.

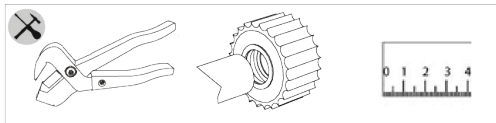


Fig.3

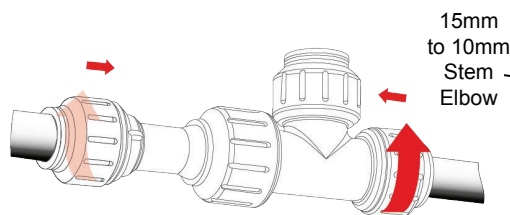


Fig.4

- CONNECT a 15mm John Guest Slip Tee Connector to both ends of the cut pipe, ensuring that it is fully connected. push until it stops (Fig.3).

- LOCKING, twist the screw cap until the cap meets the body of the Slip Tee Connector. Pull to check the connection is secure. (Fig.4).

- ASSEMBLE these parts this will be for a feed water connection. (Fig.5).

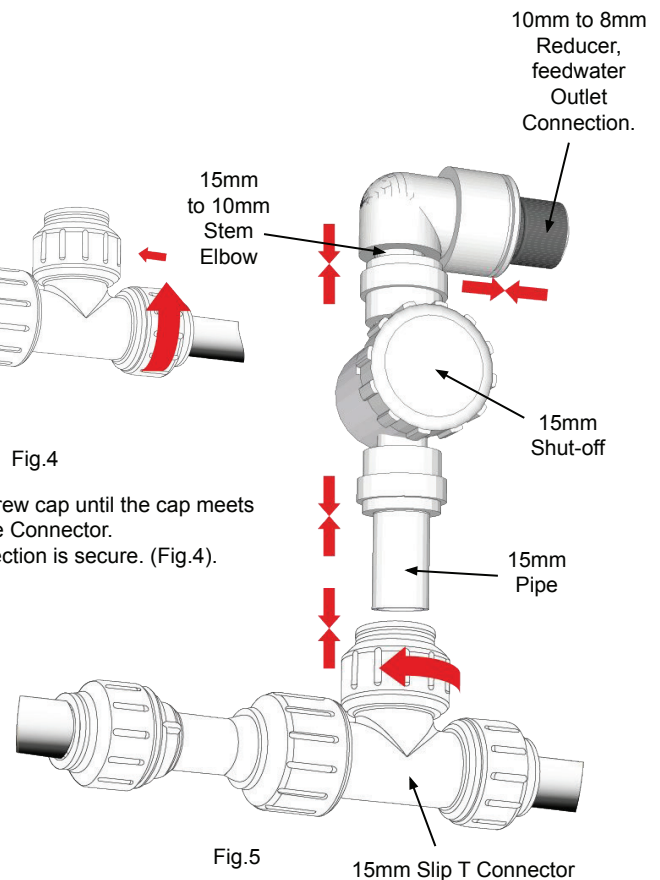


Fig.5

Quick Start Guide - Set Up / Commissioning

3. RECOMMENDED DRAIN AND OVERFLOW CONNECTIONS

The drain and overflow tubes will require a drain or a sink capable of handling at least 90L/hr with a gravity fall below the level of the unit. Any connections directed to drain or sink should have an air break fitted, see below for details.

Please check your system configuration in the front of the quick start guide.

a. Use 6 X flow bends.

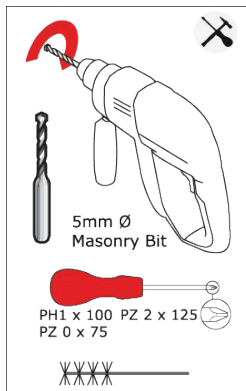


Fig.6

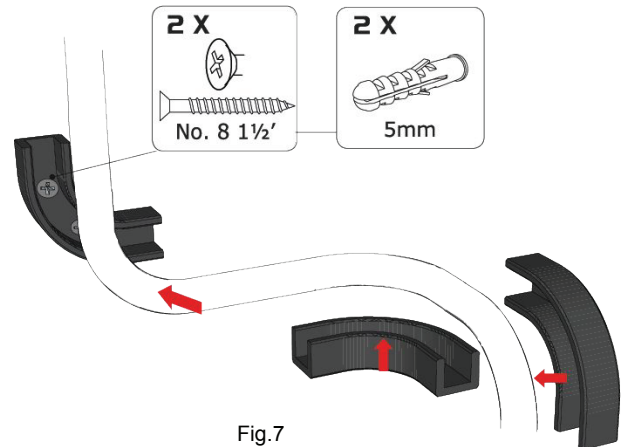
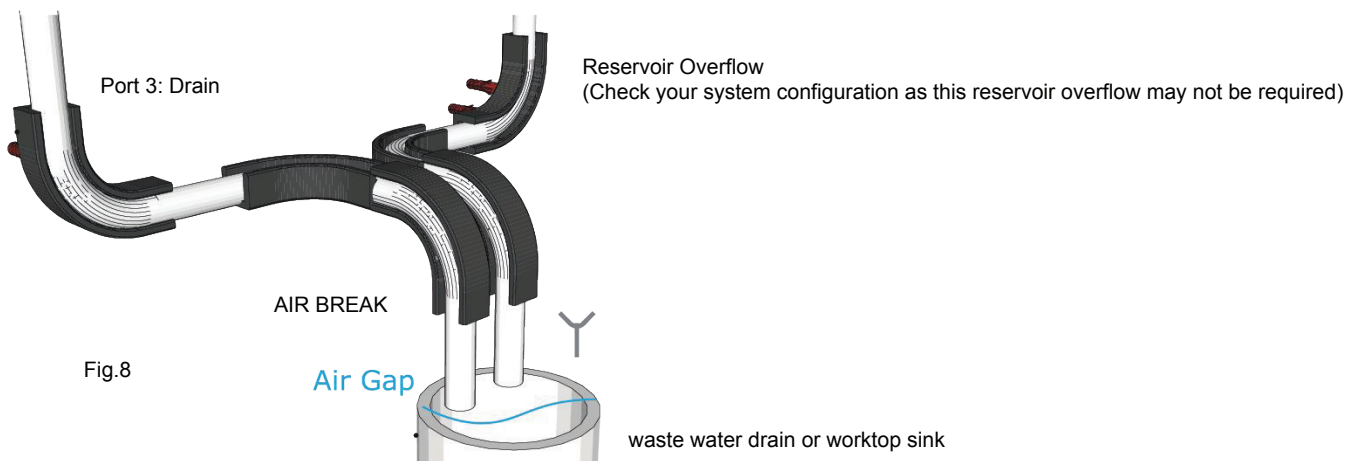


Fig.7

b. Fix 8mm flow bends to the wall if required. (Fig.6)

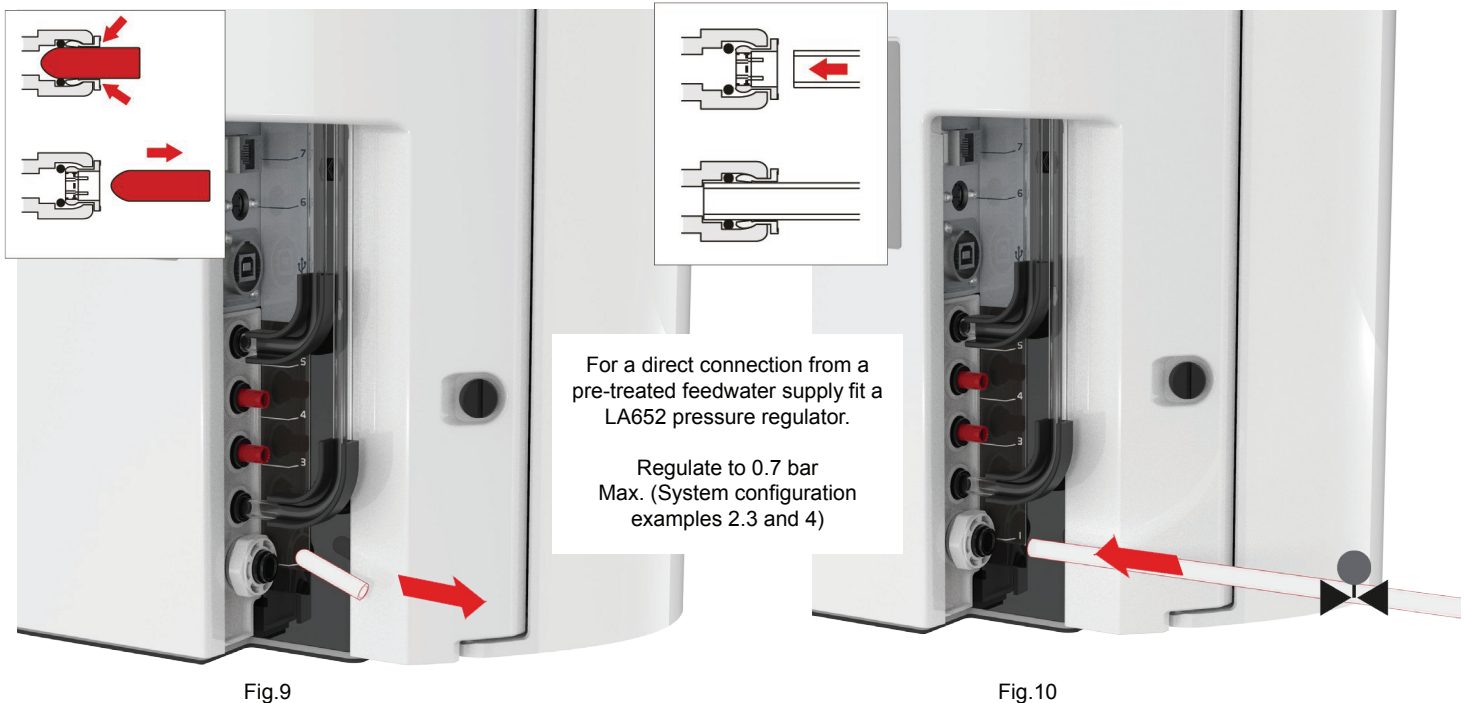
c. Clip in the 8mm pipe. (Fig.7)



d. Completed. (Fig.8)

Quick Start Guide - Set Up / Commissioning

4. CONNECT THE FEEDWATER INLET (PORT 1)

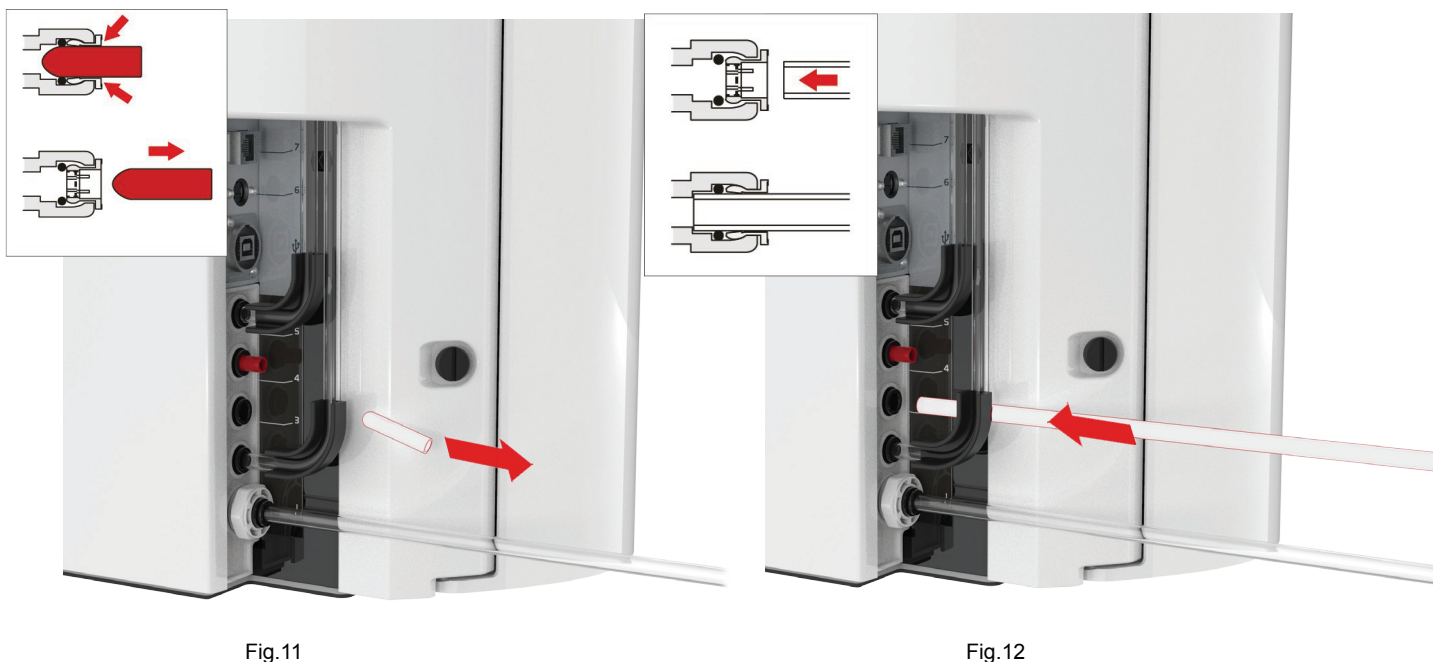


a. Remove the transit plug from the water inlet connection.(Fig.9)

b. Using the 8mm tube supplied, firmly push one end securely into the water inlet connection. (Fig.10)

5. CONNECT THE DRAIN (PORT 3)

Connect the other end of the drain tube to a sink or suitable drain capable of handling at least 90L/hr. The drain point should have a gravity fall below the level of the unit and any connections directed to drain should have an air break. (See Quick Start Guide - Section 3 for details)



a. Remove the transit plug from the drain connection. (Fig.11)

b. Using the 8mm tube supplied, firmly push one end securely into the drain connection. (Fig.12)

c. Turn on the water supply (maximum pressure 0.7bar) .

Quick Start Guide - Set Up / Commissioning

6. CONNECT THE POWER (PORT 6)



WARNING!
CAREFULLY POSITION THE POWER SUPPLY, AVOIDING WATER CONTACT.

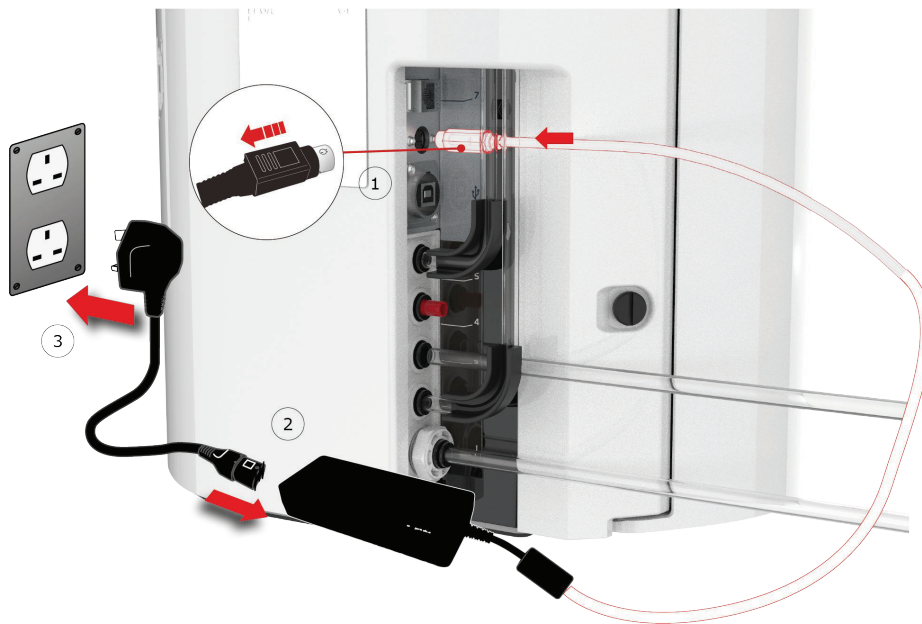


Fig.13

- Connect the power cable as shown 1-2-3. (Fig.13)
- Only use the power supply supplied by ELGA® (The power supply must be earthed).
- Switch on the power supply.

7. CONNECT THE LAPTOP



WARNING!
CAREFULLY POSITION THE LAPTOP, AVOIDING WATER CONTACT.



Fig.14



Fig.15

- Insert the USB stick provided from the operator manual into the laptop. (Fig.14)

- Install the RNDIS drivers from the USB on the laptop only. Double click on the RNDIS drivers icon and select run to install. (The Pharma Compliance software is pre-installed onto the Pharma Compliance and Pharma Dispenser). (Fig.15)

Quick Start Guide - Set Up / Commissioning



Fig.16



Fig.17

c. Connect the supplied USB 2.0 A to B cable into the rear port of PURELAB Pharma Compliance. (Fig.16)

d. Connect the other end of the USB 2.0 A to B cable into the laptop. (Fig.17)

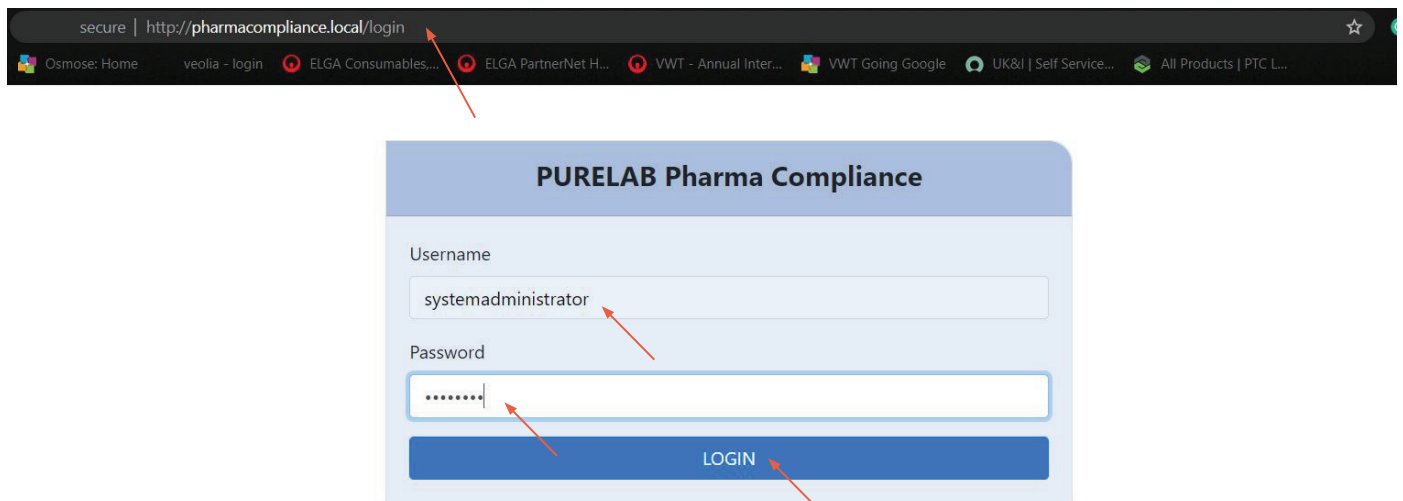


Fig.18

e. System Administrator now enters <http://pharmacompliance.local> into the web browser on the connected laptop adding the default username and password into the blank fields (Default Username: systemadministrator Default Password: ELGA1234) and selects LOGIN. (Fig.18)

System Administrator - Home Screen



Fig.19

f. System Administrator home screen appears with the six options **Home**, **Actions**, **Alarms**, **System**, **Roles** and **Users**.

The default System Administrator now creates two new users a System Administrator and a Service Engineer by selecting the create button within **users** option.

Note: Please deactivate the default System Administrator once you have set up both new users by selecting the default System Administrator Username within Users and pressing the 'Toggled Disabled' button once this will require a sign off.

For more information about signing off actions or creating new users or deactivating a user see the Software Application Guide sections 7.6, 7.10, 7.11 and 7.15.

g. Log Out as the default System Administrator by pressing the Account tab. (Fig.19)

Quick Start Guide - Set Up / Commissioning

8. FOLLOW THE ON SCREEN INSTRUCTIONS

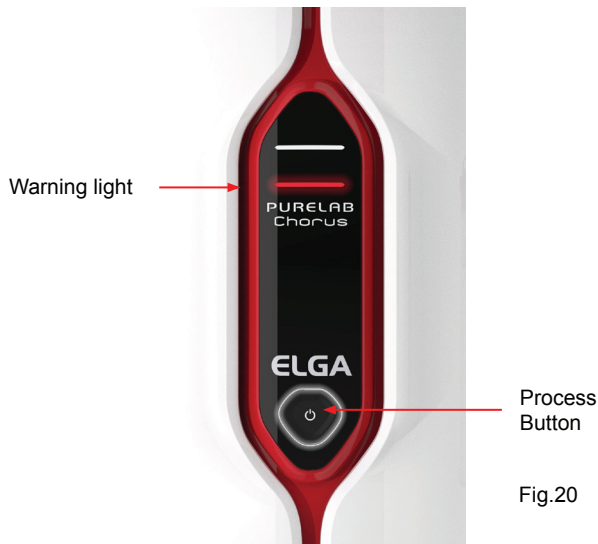


Fig.20



Fig.21

- a. Press the process button once to start commissioning the red warning light and halo will be flashing until cycle has ended (approx 110 minutes).

Please log in as the newly created Service Engineer to allow the commissioning procedure to begin.

Note: PURELAB Pharma Compliance is set in pre-commissioning mode and will automatically direct water to drain during this procedure. (Fig.20)

- b. Scroll to find your language and press the accept button to confirm. Note: An authorization (Signature) is required.

Place a 5L container under dispense nozzle and continue to follow the on screen instructions. (Fig.21)



Fig.22



Fig.23



Fig.24

- c. Open right hand door, remove any transit tape covering the pack handle in position 1 and LC233 Bypass Pack if fitted. (Fig.22)

- d. Remove LC232 Purification Pack transit plugs. (Fig.23)

- e. When prompted insert LC232 Purification Pack into position 1 and turn handle. Making sure the Purification Pack in position 1 is secure. (Fig.24)

Quick Start Guide - Set Up / Commissioning



Fig.25



Fig.26



Fig.27

f. Open left hand door, remove any transit tape covering the pack handle in position 2 and LC233 Bypass Pack if fitted. (Fig.25)

g. Remove LC232 Purification Pack transit plugs. (Fig.26)

h. When prompted insert LC232 Purification Pack into position 2 and turn handle. Making sure the pack in position 2 is secure. (Fig.27)



Fig.28



Fig.29



Fig.30

i. Follow the on screen instructions to complete the commissioning procedure. (Fig.28)

j. Note: An authorization (Signature) is required in the software application once commissioning is complete. For more details on authorization signatures see the Software Application Guide section 7.6 in the operator manual. (Fig.29)

k. Note: Once commissioning is complete, please select your feedwater type within the main menu option tabs as this is important for flush times and Auto Volume accuracy. This will also require an authorization (Signature).

To enter the main menu options tabs hold down the accept button for 2 seconds. Scroll up and down and select 'Feedwater Selection' by pressing the accept button to confirm. (Fig.30)

1. Operator Manual Introduction

1.1 Health & Safety

Please ensure you read the health & safety notes in the front of the Quick Start Guide.

1.2 Product Model

This operator manual has been prepared for PURELAB Pharma Compliance product model:

- PURELAB Pharma Compliance VCLSDM1

PURELAB Pharma Compliance purifies pre-treated RO, SDI or distilled feed water into type 1 quality water. This product has been specifically designed to comply with the Food and Drug Administration part 11 of title 21 code of Federal Regulations for electronic records and electronic signatures (21 CFR Part 11) and European Commission (EU GMP Annex 11) for Life Science professionals. Using the integrated software application the operator can log in, digitally track and record the purified water output.

1.3 Use of this Manual

This operator manual guides you through the operation and maintenance of PURELAB Pharma Compliance allowing you to obtain a guaranteed supply of purified water to meet your requirements.

1.4 Installation

PURELAB Pharma Compliance has a 'Quick Start Guide' and 'Quick Reference Guide'.

'Quick Start Guide' shows you how to install and commission the PURELAB Pharma Compliance, without having to refer to the operator manual for instructions.

'Quick Reference Guide' shows you how to perform day to day functions in order to get the most from your PURELAB Pharma Compliance.

1.5 Environment

PURELAB Pharma Compliance unit should be installed on a flat, level surface, in a clean, dry environment.

1.6 Commissioning

PURELAB Pharma Compliance is supplied in a preset commissioning mode which must be completed before purified water can be dispensed, see Quick Start Guide to complete this procedure.

1.7 Customer Support

If you need help with your PURELAB Pharma Compliance, please call your local ELGA VEOLIA representative.

For the address of the nearest ELGA VEOLIA Sales and Service office visit our website:
www.elgalabwater.com or contact ELGA VEOLIA at: Email: techsupport@elgalabwater.com

2. Guide to Your PURELAB Pharma Compliance



2. Guide to Your PURELAB Pharma Compliance



3. Main Display Settings and Buttons Operations

Water Purity

Scrolling
Information
Bar



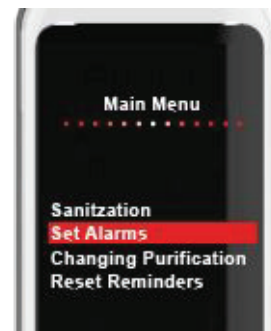
Main Display








Handset Buttons



Sleep Mode



Example: Main Menu Options

Main Display		
Water Purity	Megohm - 1 to 18.2 MΩ (When the water purity falls below the default setting the numbers will flash in red indicating that the purity alarm has been activated)	10.0 ← 18.2
Water Purity	Micro Siemens (This feature can be activated in the main menu options)	0.055
Scrolling Information Bar	Alarms and product information are displayed in this scroll bar.	System OK -
Auto Volume Dispense	This feature is activated by pressing the Auto Volume Dispense button, volumes are displayed in incremental order and changed when the up and down buttons are pressed.	^ 100L v 100ml 
Process Symbol	Shows that the product is performing an operation.	
Button Operations		
Scroll Up Button	Press to scroll up on a menu or volume increments increase in a feature.	^
Scroll Down Button	Press to scroll down on a menu or volume increments decrease in a feature.	v
Dispense Button	Press for manual dispense.	
Auto Volume Dispense Button	Press once to activate and again to deactivate the Auto Volume Dispense feature.	
Accept Button	Press the accept button to enter. Press and hold the accept button to enter the main menu options.	↩
Process Button	Press ON/OFF. Hold for 15 seconds to enter or exit commissioning procedure	

3. Main Display Settings and Buttons Operations

Role 1 - Service Engineer Menu Options			
The System Administrator can customize the main menu options for each user (Service Engineer, System Administrator, Lab Manager and Lab Technician) within the laptop software application in Roles. To customize the options for each user select 'Roles' then the name followed by the update button, ticking or unticking the available options for each user. See Section 7.9 for more details.			
Options	Description	Action	E-Sign
Change Password - Own Password	Software application option this is not displayed in the main menu. Allows the Service Engineer to change their own password.	Tick or untick.	No
Backup configuration - All Data User Log	Software application option this is not displayed on the main menu. Allows the Service Engineer to backup the user log.	Tick or untick.	Yes
Audit Trail - View Own Activity	Software application option this is not displayed in the main menu. Show the user their own activity in actions.	Tick or untick.	No
Audit Trail - View All Activity	Software application option this is not displayed in the main menu. Show all users activity in actions.	Tick or untick.	No
Dispenser Water	Software application option this is not displayed in the main menu. Stops water dispensing from the handset.	Tick or untick.	No
Set Language	Displays the available languages.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm.	Yes
Set Time	Setting the digital clock	Tick or untick. Volume dispense button toggles between hours and minutes. Press the up and down buttons to change the numbers and accept to confirm.	Yes
Set Sleep Time	This feature is for setting a sleep timer when the system will enter an energy saving, sleep mode.	Tick or untick. Volume dispense button toggles between hours and minutes. Press the up and down buttons to change the numbers and accept to confirm (Press any button to wake from sleep mode).	No
Display Units	Handset display units can be displayed in either Mega Ohms or Micro Siemens.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm your section.	Yes
Sanitization	There are three different types of sanitization cartridges that can be used LC236 CT1 Tablets (Not to be used in the USA) or LC236-M2 Effersan Tablets or LC271 Liquid Minicare. See section 8.6 for more details.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	No
Auto Volume Calibration	This feature calibrates the Auto Volume Dispense if you are getting an incorrect volume of water.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	Yes
Changing Purification Packs	LC232, LC244, LC245 and LC246 Purification Packs should be replaced every 12 months (8760 hours) or when water 'Purity Alarm Active' is activated affecting water quality. You will be prompted to change the Purification Packs and this message will be displayed in the scrolling information bar. "Cartridge Reminder. To maintain performance replace purification cartridges" See section 8.2 for more details.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	Yes

3. Main Display Settings and Buttons Operations

Options	Description	Action	E-Sig n
Auto Restart	'Auto-Restart' feature allows the selection of an auto or manual restart option (after power interruption).	Tick or untick. Press the up and down buttons to scroll and accept to confirm. Enable or Disable	No
Process Switch	It is a feature to allow the process on the complete system (in configuration), to be either ON or OFF, from the menu.	Tick or untick. Press the up and down buttons to scroll and accept to confirm.	No
Feedwater Selection	There are four types of feedwater options available RO Feed, DI Feed, SDI Feed and Reservoir Feed in this feature.	Tick or untick. Press the up and down buttons to scroll between the feedwaters and press accept to confirm your selection.	Yes
Set UV Lamp Reminder	Resets the UV Lamp timer for another 13140 hours.	Tick or untick. Press accept to confirm.	No
System Suitability Test	Procedure for confirming suitability of TOC monitor operation.	Tick or untick.	Yes
USB Diagnostics	A sub menu is displayed when a USB stick is inserted.	Tick or untick.	No
USB Data Logging	A sub menu is displayed when a USB stick is inserted.	Tick or untick	No
Commissioning Procedure	A water rinse cycle procedure to achieve full purity during setup / commissioning, purification pack change and replacing the UF filter module.	Tick or untick. Press the process button for 15 seconds to start this procedure, follow the on screen instructions.	Yes
Sensor Calibration	Software application option this is not displayed in the main menu.	Tick or untick.	Yes
Outlet Valve Adjustment	Software application option this is not displayed in the main menu.	Tick or untick.	No
System Qualification	Software application option this is not displayed in the main menu.	Tick or untick.	No
Replace Spare Parts - Pumps, Valves	Software application option this is not displayed in the main menu.	Tick or untick.	No
Replace Spare Parts - Sensors	Software application option this is not displayed in the main menu.	Tick or untick.	No
Replace Consumables	Software application option this is not displayed in the main menu.	Tick or untick.	No
Reset Reminders	Software application option this is not displayed in the main menu.	Tick or untick.	No
QC Test Procedure	Software application option this is not displayed in the main menu.	Tick or untick.	No
System Update	Software application option this is not displayed in the main menu.	Tick or untick.	No
Exit	Exits the Main Menu options on the handset dispenser.	Press the up and down buttons to scroll and accept to confirm.	No

3. Main Display Settings and Buttons Operations

Role 2 - System Administrator Menu Options			
The System Administrator can customize the main menu options for each user (Service Engineer, System Administrator, Lab Manager and Lab Technician) within the laptop software application in Roles. To customize the options for each user select 'Roles' then the name followed by the update button, ticking or unticking the available options for each user. See Section 7.9 for more details.			
Options	Description	Action	E-Sign
Create New Users	Software application option this is not displayed on the main menu. Allows the system admin to create new users.	Tick or untick.	Yes
Inactivate Users	Software application option this is not displayed on the main menu. Allows the system admin to deactivate users.	Tick or untick.	Yes
Activate Users	Software application option this is not displayed on the main menu. Allows the system admin to reactivate users.	Tick or untick.	Yes
Reset Passwords - All Users	Software application option this is not displayed on the main menu. Allows the system admin to reset all passwords.	Tick or untick.	Yes
Change Password - Own Password	Software application option this is not displayed on the main menu. Allows the system admin to change their own password.	Tick or untick.	No
Backup Configuration - All Data User Log	Software application option this is not displayed on the main menu. Allows the System Admin to backup the user log.	Tick or untick.	Yes
Restore Configuration	Software application option this is not displayed on the main menu.	Tick or untick.	Yes
Audit Trail - View Own Activity	Software application option this is not displayed on the main menu. Show the user their own activity in actions.	Tick or untick.	No
Audit Trail - View All Activity	Software application option this is not displayed on the main menu. Show all users activity in actions.	Tick or untick.	No
Audit Trail - E-Sign Records	Software application option this is not displayed on the main menu. Show all user E-signature activity in actions.	Tick or untick.	No
Audit Trail - Archive Records	Software application option this is not displayed on the main menu. Show archive list within actions.	Tick or untick.	No
Dispenser Water	Software application option this is not displayed in the main menu. Stops water dispensing from the handset.	Tick or untick.	No
Set Language	Displays the available languages.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm.	Yes
Set Alarms	Within this feature there are three alarms, Polisher Temperature (water temperature, default 30°C) Polisher Purity Alarm (treated water quality, default 15MΩ) and the TOC alarm. They can be adjusted within this feature.	Tick or untick. Press the accept button to confirm the alarm you want to adjust then scroll up and down to change the value. Press accept to confirm.	Yes
Set Time	Setting the digital clock.	Tick or untick. Volume dispense button toggles between hours and minutes. Press the up and down buttons to change the numbers and accept to confirm.	Yes

3. Main Display Settings and Buttons Operations

Options	Description	Action	E-Sign
Set Sleep Time	Setting the sleep timer.	Tick or untick. Volume dispense button toggles between hours and minutes. Press the up and down buttons to change the numbers and accept to confirm.	No
Display Units	Handset display units can be displayed in either Mega Ohms or Micro Siemens.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm your section.	Yes
Temperature Compensation	'Temperature Compensation' is the option of setting purity measurement as uncompensated for water temperature equivalent to 25°C.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm your section. Enable or Disable.	Yes
Sanitization	This is a sanitization procedure for PURELAB Pharma Compliance. There are three different types of sanitization cartridges that can be used LC236 CT1 Tablets (Not to be used in the USA) or LC236-M2 Effersan Tablets or LC271 Liquid Minicare. See section 8.6 'Sanitization Procedures' for more details.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	No
Auto Volume Calibration	This feature calibrates the Auto Volume Dispense if you are getting an incorrect volume of water.	Tick or untick. Place a 1000ml flask under the outlet (Dispenser tip) and press the dispense button to start calibration.	Yes
Changing Purification Packs	LC232, LC244, LC245 and LC246 Purification Packs should be replaced every 12 months (8760 hours) or when water 'Purity Alarm Active' is activated affecting water quality. You will be prompted to change the Purification Packs and this message will be displayed in the scrolling information bar. "Cartridge Reminder. To maintain performance replace purification cartridges" See section 8.2 for more details.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	Yes
Auto Restart	'Auto-Restart' feature allows the selection of an auto or manual restart option (after power interruption).	Tick or untick. Press the up and down buttons to scroll and accept to confirm. Enable or Disable.	No
Process Switch	It is a feature to allow the process on the complete system (in configuration), to be either ON or OFF, from the menu.	Tick or untick. Press the up and down buttons to scroll and accept to confirm.	No
Feedwater Selection	There are four types of feedwater options available RO Feed, DI Feed, SDI Feed and Reservoir Feed in this feature.	Tick or untick. Press the up and down buttons to scroll between the feedwaters and press accept to confirm your selection.	Yes
Set UV Lamp Reminder	Resets the UV Lamp timer for another 13140 hours.	Tick or untick. Press accept to confirm.	No
System Suitability Test	Procedure for confirming suitability of TOC monitor operation.	Tick or untick.	Yes
USB Diagnostics	A sub menu is displayed when a USB stick is inserted.	Tick or untick..	No

3. Main Display Settings and Buttons Operations

Options	Description	Action	E-Sign
USB Data Logging	A sub menu is displayed when a USB stick is inserted.	Tick or untick.	No
Commissioning Procedure	A water rinse cycle procedure to achieve full purity during setup / commissioning, purification pack change and replacing the UF filter module.	Tick or untick. Press the process button for 15 seconds to start this procedure, follow the on screen instructions.	Yes
Replace Consumables	Software application option this is not displayed on the main menu.	Tick or untick.	No
Reset Reminders	Software application option this is not displayed on the main menu.	Tick or untick.	No
System Update	Software application option this is not displayed on the main menu.	Tick or untick.	No
Exit	Exits the Main Menu options on the handset dispenser.	Press the up and down buttons to scroll and accept to confirm.	No

3. Main Display Settings and Buttons Operations

Role 3 - Laboratory Manager Menu Options			
The System Administrator can customize the main menu options for each user (Service Engineer, System Administrator, Lab Manager and Lab Technician) within the laptop software application in Roles. To customize the options for each user select 'Roles' then the name followed by the update button, ticking or unticking the available options for each user. See Section 7.9 for more details.			
Options	Description	Action	E-Sign
Change Password - Own Password	Software application option this is not displayed on the main menu. Allows the Lab Manager to change their own password.	Tick or untick.	No
Backup Configuration- All Data User Log	Software application option this is not displayed on the main menu. Allows the Lab Manager to backup the user log.	Tick or untick.	Yes
Audit Trail - View Own Activity	Software application option this is not displayed on the main menu. Show the user their own activity in actions.	Tick or untick.	No
Audit Trail - View All Activity	Software application option this is not displayed on the main menu. Show all users activity in actions.	Tick or untick.	No
Audit Trail - E-Sign Records	Software application option this is not displayed on the main menu. Show all user E-signature activity in actions.	Tick or untick.	No
Audit Trail - Archive Records	Software application option this is not displayed on the main menu. Show archive list within actions.	Tick or untick.	No
Dispenser Water	Software application option this is not displayed in the main menu. Stops water dispensing from the handset.	Tick or untick.	No
Set Language	Displays the available languages.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm.	Yes
Set Alarms	Within this feature there are three alarms, Polisher Temperature (water temperature, default 30.C) Polisher Purity Alarm (treated water quality, default 15MΩ) and the TOC alarm. They can be adjusted within this feature.	Tick or untick. Press the accept button to confirm the alarm you want to adjust then scroll up and down to change the value. Press accept to confirm.	Yes
Set Time	Setting the digital clock.	Tick or untick. Volume dispense button toggles between hours and minutes. Press the up and down buttons to change the numbers and accept to confirm.	Yes
Set Sleep Time	Setting the sleep timer.	Tick or untick. Volume dispense button toggles between hours and minutes. Press the up and down buttons to change the numbers and accept to confirm.	No
Display Units	Handset display units can be displayed in either Mega Ohms or Micro Siemens.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm your section.	Yes
Temperature Compensation	'Temperature Compensation' is the option of setting purity measurement as uncompensated for water temperature equivalent to 25°C.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm your section. Enable or Disable.	Yes

3. Main Display Settings and Buttons Operations

Options	Description	Action	E-Sign
Sanitization	This is a sanitization procedure for PURELAB Pharma Compliance. There are three different types of sanitization cartridges that can be used LC236 CT1 Tablets (Not to be used in the USA) or LC236-M2 Effersan Tablets or LC271 Liquid Minicare. See section 8.6 'Sanitization Procedures' for more details.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	No
Auto Volume Calibration	This feature calibrates the Auto Volume Dispense if you are getting an incorrect volume of water.	Tick or untick. Place a 1000ml flask under the outlet (Dispenser tip) and press the dispense button to start calibration.	Yes
Changing Purification Packs	LC232, LC244, LC245 and LC246 Purification Packs should be replaced every 12 months (8760 hours) or when water 'Purity Alarm Active' is activated affecting water quality. You will be prompted to change the Purification Packs and this message will be displayed in the scrolling information bar. "Cartridge Reminder. To maintain performance replace purification cartridges" See section 8.2 for more details.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	Yes
Auto Restart	'Auto-Restart' feature allows the selection of an auto or manual restart option (after power interruption).	Tick or untick. Press the up and down buttons to scroll and accept to confirm. Enable or Disable.	No
Process Switch	It is a feature to allow the process on the complete system (in configuration), to be either ON or OFF, from the menu.	Tick or untick. Press the up and down buttons to scroll and accept to confirm.	No
Feedwater Selection	There are four types of feedwater options available RO Feed, DI Feed, SDI Feed and Reservoir Feed in this feature.	Tick or untick. Press the up and down buttons to scroll between the feedwaters and press accept to confirm your selection.	Yes
Set UV Lamp Reminder	Resets the UV Lamp timer for another 13140 hours.	Tick or untick. Press accept to confirm.	No
System Suitability Test	Procedure for confirming suitability of TOC monitor operation.	Tick or untick.	Yes
USB Diagnostics	A sub menu is displayed when a USB stick is inserted.	Tick or untick.	No
USB Data Logging	A sub menu is displayed when a USB stick is inserted.	Tick or untick.	No
Commissioning Procedure	A water rinse cycle procedure to achieve full purity during setup / commissioning, purification pack change and replacing the UF filter module.	Tick or untick. Press the process button for 15 seconds to start this procedure, follow the on screen instructions.	Yes
Replace Consumables	Software application option this is not displayed on the main menu.	Tick or untick.	No
Reset Reminders	Software application option this is not displayed on the main menu.	Tick or untick.	No
Exit	Exits the Main Menu options on the handset dispenser.	Press the up and down buttons to scroll and accept to confirm.	No

3. Main Display Settings and Buttons Operations

Role 4 - Laboratory Technician Menu Options			
The System Administrator can customize the main menu options for each user (Service Engineer, System Administrator, Lab Manager and Lab Technician) within the laptop software application in Roles. To customize the options for each user select 'Roles' then the name followed by the update button, ticking or unticking the available options for each user. See Section 7.9 for more details.			
Options	Description	Action	E-Sign
Change Password - Own Password	Software application option this is not displayed on the main menu. Allows the Lab Technician to change their own password.	Tick or untick.	No
Backup Configuration- All Data User Log	Software application option this is not displayed on the main menu. Allows the Lab Technician to backup the user log.	Tick or untick.	Yes
Audit Trail - View Own Activity	Software application option this is not displayed on the main menu. Show the user their own activity in actions.	Tick or untick.	No
Audit Trail - View All Activity	Software application option this is not displayed on the main menu. Show all users activity in actions.	Tick or untick.	No
Audit Trail - E-Sign Records	Software application option this is not displayed on the main menu. Show all user E-signature activity in actions.	Tick or untick.	No
Audit Trail - Archive Records	Software application option this is not displayed on the main menu. Show archive list within actions.	Tick or untick.	No
Dispenser Water	Software application option this is not displayed in the main menu. Stops water dispensing from the handset.	Tick or untick.	No
Set Language	Displays the available languages.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm.	Yes
Set Alarms	Within this feature there are three alarms, Polisher Temperature (water temperature, default 30.C) Polisher Purity Alarm (treated water quality, default 15MΩ) and the TOC alarm. They can be adjusted within this feature.	Tick or untick. Press the accept button to confirm the alarm you want to adjust then scroll up and down to change the value. Press accept to confirm.	Yes
Set Time	Setting the digital clock	Tick or untick. Volume dispense button toggles between hours and minutes. Press the up and down buttons to change the numbers and accept to confirm.	Yes
Set Sleep Time	Setting the sleep timer.	Tick or untick. Volume dispense button toggles between hours and minutes. Press the up and down buttons to change the numbers and accept to confirm.	No
Display Units	Handset display units can be displayed in either Mega Ohms or Micro Siemens.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm your section.	Yes
Temperature Compensation	'Temperature Compensation' is the option of setting purity measurement as uncompensated for water temperature equivalent to 25°C.	Tick or untick. Press the up and down buttons to scroll and press accept to confirm your section. Enable or Disable.	Yes

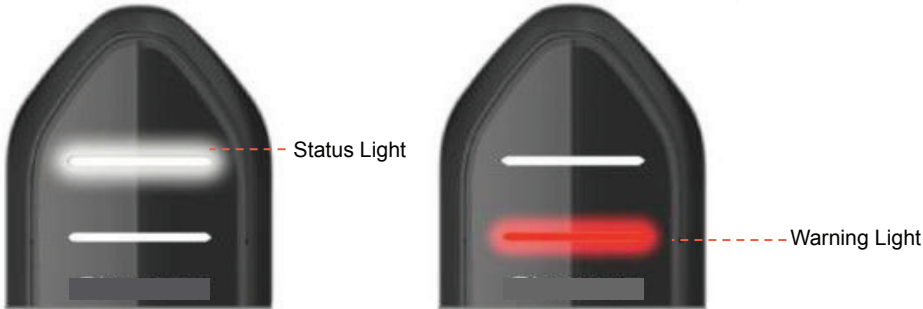
3. Main Display Settings and Buttons Operations

Options	Description	Action	E-Sign
Sanitization	This is a sanitization procedure for PURELAB Pharma Compliance. There are three different types of sanitization cartridges that can be used LC236 CT1 Tablets (Not to be used in the USA) or LC236-M2 Effersan Tablets or LC271 Liquid Minicare. See section 8.6 'Sanitization Procedures' for more details.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	No
Auto Volume Calibration	This feature calibrates the Auto Volume Dispense if you are getting an incorrect volume of water.	Tick or untick. Place a 1000ml flask under the outlet (Dispenser tip) and press the dispense button to start calibration.	Yes
Changing Purification Packs	LC232, LC244, LC245 and LC246 Purification Packs should be replaced every 12 months (8760 hours) or when water 'Purity Alarm Active' is activated affecting water quality. You will be prompted to change the Purification Packs and this message will be displayed in the scrolling information bar. "Cartridge Reminder. To maintain performance replace purification cartridges" See section 8.2 for more details.	Tick or untick. Press the accept button to start this procedure and follow the on screen instructions.	Yes
Auto Restart	'Auto-Restart' feature allows the selection of an auto or manual restart option (after power interruption).	Tick or untick. Press the up and down buttons to scroll and accept to confirm. Enable or Disable.	No
Process Switch	It is a feature to allow the process on the complete system (in configuration), to be either ON or OFF, from the menu.	Tick or untick. Press the up and down buttons to scroll and accept to confirm.	No
Feedwater Selection	There are four types of feedwater options available RO Feed, DI Feed, SDI Feed and Reservoir Feed in this feature.	Tick or untick. Press the up and down buttons to scroll between the feedwaters and press accept to confirm your selection.	Yes
Set UV Lamp Reminder	Resets the UV Lamp timer for another 13140 hours.	Tick or untick. Press accept to confirm.	No
System Suitability Test	Procedure for confirming suitability of TOC monitor operation.	Tick or untick.	Yes
USB Diagnostics	A sub menu is displayed when a USB stick is inserted.	Tick or untick.	No
USB Data Logging	A sub menu is displayed when a USB stick is inserted.	Tick or untick.	No
Commissioning Procedure	A water rinse cycle procedure to achieve full purity during setup / commissioning, purification pack change and replacing the UF filter module.	Tick or untick. Press the process button for 15 seconds to start this procedure, follow the on screen instructions.	Yes
Replace Consumables	Software application option this is not displayed on the main menu.	Tick or untick.	No
Reset Reminders	Software application option this is not displayed on the main menu.	Tick or untick.	No
Exit	Exits the Main Menu options on the handset dispenser.	Press the up and down buttons to scroll and accept to confirm.	No

3. Main Display Settings and Buttons Operations



Halo Light		
Status	Colour	System Status
Constant	White	Signifying water purity, unit is operating correctly
Blinking	White	Consumables are nearing the end of useful life
Constant	Red	System needs immediate attention (See the scrolling information bar for more details)
Blinking	Red	System in clean cycle (Commissioning or Sanitization)



Display Lights		
Status	Colour	System Status
Constant	White	Signifying water purity, unit is operating correctly
Blinking	White	Consumables are nearing the end of useful life
Constant	Red	System needs immediate attention (See the scrolling information bar for more details)
Blinking	Red	System in clean cycle (Commissioning or Sanitization)
Alternating	Red / White	USB Software Update

4. Product Consumables and Accessories

Consumables			
Part Number	Description	Typical Service Life*	Max. Shelf Life
LC134	Point-Of-Use Filter (POU)	3 Months	2 Years
LC151	Ultra Filtration Module (UF)	12 Months	2 Years
LC197	Point-Of-Use Biofilter (POU)	3 Months	2 Years
LC210	185 / 254nm UltraViolet Lamp (UV)	12 - 18 Months	2 Years
LC232	Purification Pack (DI) - RO FEED	12 Months	2 years
LC236	CT1 Tablet Sanitization Pack (Not for use in the USA)	12 Months	2 Years
LC236 - M2	Effersan Tablet Sanitization Pack	12 Month	2 Years
LC244	Purification Pack (DI) - SDI FEED	12 Months	2 Years
LC245	Purification Pack (DI) - LOW IONIC	12 Month	2 Years
LC246	Purification Pack (DI) - LOW TOC	12 Months	2 Years
LC271	Minicare Liquid Sanitization Pack	12 Months	2 Years
	Effersan Sanitization Tablets	> 8 Months	> 8 Months
	Minicare® Cold Sterilant		
*Consumable service life is an estimate only, and will depend on the application and feedwater quality.			
Accessoires			
LC233	Bypass Pack (Used with LC236 Sanitization Pack and LC271 Liquid Sanitization Pack)	N/A	N/A
LC272	Tablet Bypass Pack (Used with LC236-M2 Sanitization Pack)	N/A	N/A
LC296	Chemical Pack (Used for the TOC Monitor, System Suitability Test)	N/A	N/A
LA652	Pressure Regulator	N/A	N/A
LA732	Footswitch Dispense	N/A	N/A

4. Product Consumables and Accessories



LC134 and LC197 Point-of-Use Filters



LC296 Chemical Pack
(System Suitability Test - Procedure for confirming suitability of TOC monitor operation)



LC232, LC244, LC245 and LC246 Purification Packs



LC151 Ultra Filtration Module



LC210 185 / 254nm UltraViolet Lamp (UV)



LC236 Tablet Sanitization Pack & LC233 Bypass Pack - instructions are provided with this consumable. (Not for use in the USA).



LC271 Liquid Sanitization Pack & LC233 Bypass Pack - instructions are provided with this consumable. (Minnicare Cold Sterilant is registered with the US Environmental Protection Agency EPA Registration Number 52252-4).



LC236-M2 Tablet Sanitization Pack & LC272 Tablet Bypass Pack - instructions are provided with this consumable. (Effersan is registered with the US Environmental Protection Agency EPA Registration Number 66570-2).



5. Register a Product

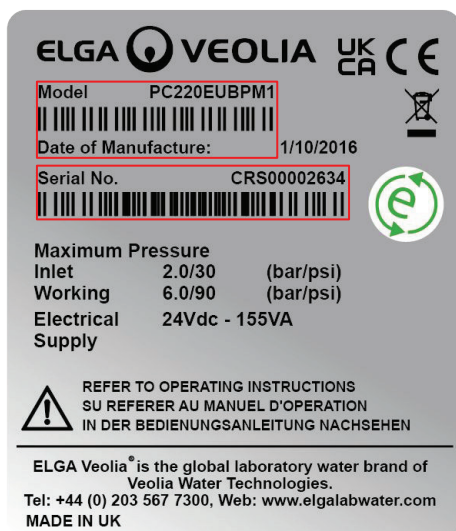
Taking the time now to register your product will mean that we can provide a better service to you in the future. We can contact you about the latest product accessories and validate your warranty.

Benefits of registration?

- Validate manufacturer warranty for your product
- Proof of registration
- Receive software updates for your products

How can I quickly register a product ?

The model number and serial number can be found on the rating plate, see the example below for details.



Enter your model number and serial number into the online registration form linked below:

<https://www.elgalabwater.com/support/register-a-product>

6. Quick Reference Guide

6.1 Manual Dispense



Press and hold the dispense button at anytime for manual dispense, release to stop dispensing.

Press lightly for 'drop by drop'.

6.2 Locked Dispense



Press Dispense Button adjusting the flow rate by the amount of pressure applied then press and release Accept Button to enable continuous dispensing. Release Dispense Button when 'Locked' appears on the Display.

Press Dispenser Button at anytime to exit this feature.

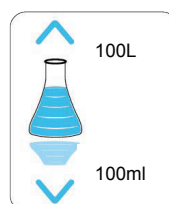
6.3 Auto Volume Dispense



Press auto volume dispense button at anytime to open this feature.
Note: In order to access this feature you need to ensure that you are not in the Main Menu.



Press up and down buttons, to scroll through the volumes.



To confirm press dispense button to start dispensing the water.

6. Quick Reference Guide

6.4 Deactivating Auto Volume Dispense



Press auto volume dispense button once to deactivate.

6.5 ON / OFF, Menu and Accept



Press and hold accept button for 2 seconds to enter the main menu.

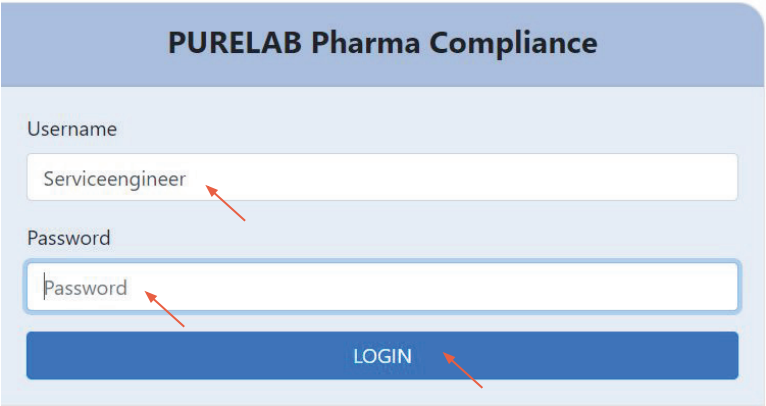


Press up and down buttons to scroll through the main menu options tabs, press accept button to confirm your selection.


7. Software Application Guide

7.1 Service Engineer - Home Screen

Service Engineer enters their Username and Password and selects Login Button > Service Engineer Home screen is displayed. It contains four options **Home**, **Actions**, **Alarms**, **System**.

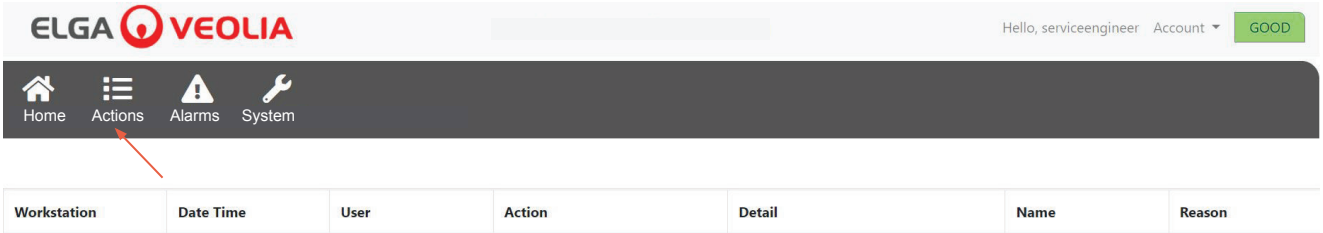


Service Engineer - Home Screen

 VEOLIA' header. On the right, it says 'Hello, serviceengineer' with an 'Account' dropdown and a green 'GOOD' status box. Below is a dark navigation bar with four icons: Home (house), Actions (list), Alarms (warning triangle), and System (wrench). Red arrows point to each of these four icons." data-bbox="93 387 926 448"/>

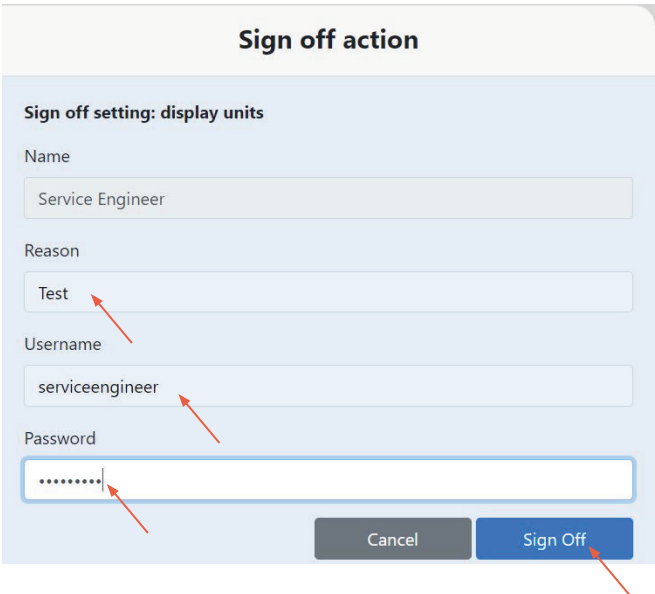
7.2 Service Engineer - Actions

Service Engineer selects Actions > Service Engineer can view all recorded and signed off (E-Sign) user actions.



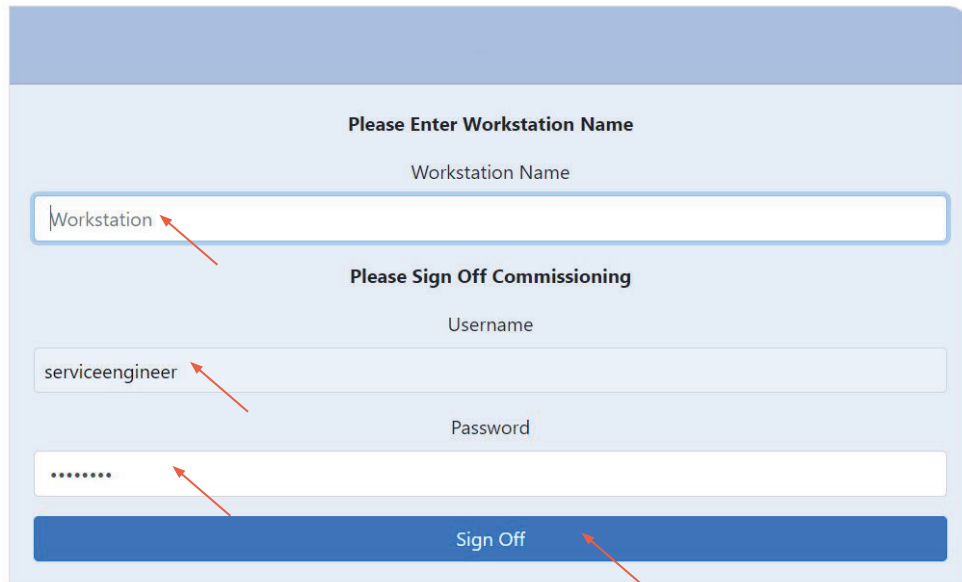
Workstation	Date Time	User	Action	Detail	Name	Reason
-------------	-----------	------	--------	--------	------	--------

Sign off action (E-Sign) are required after certain actions. Below is an example after changing the system displayed unit from Megohm to Microsiemens. For a full list of the sign off actions (E-sign) for each user see section 3.



7. Software Application Guide

Commissioning sign off example (A water rinse cycle procedure to achieve full purity during setup / commissioning, purification pack change and replacing the Ultra Filtration Module).



7.3 Service Engineer - Alarms

Service Engineer selects Alarms > Any active alarms should be displayed.



7.4 Service Engineer - System

Service Engineer selects System > All software updates will be displayed.
System is only available for a Service Engineer and System Administrator and not for other users.



7. Software Application Guide

7.5 System Administrator - Home Screen

System Administrator enters their unique Username and Password and selects Login Button > System Administrator Home screen is displayed. It contains six options **Home**, **Actions**, **Alarms**, **System**, **Roles** and **Users**.

System Administrator Home Screen

7.6 System Administrator - Actions

System Administrator selects Actions > System Administrator can view all recorded and signed off (E-Sign) user actions.

Sign off action (E-Sign) are required after certain actions. Below is an example after changing the system displayed unit from Megohm to Microsiemens. For a full list of the sign off actions (E-sign) for each user see section 3.

7. Software Application Guide

Commissioning sign off example (A water rinse cycle procedure to achieve full purity during setup / commissioning, purification pack change and replacing the Ultra Filtration Module).

Please Enter Workstation Name

Workstation Name

Workstation

Please Sign Off Commissioning

Username

Systemadministrator

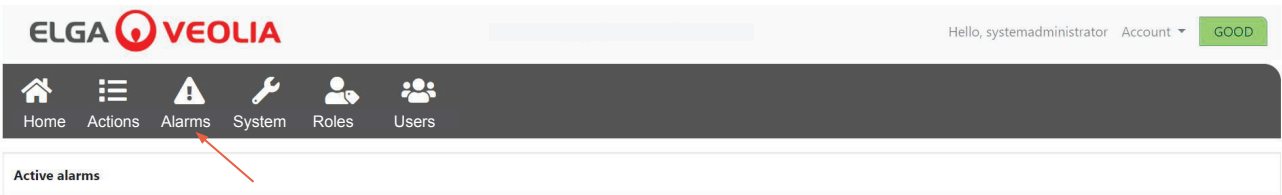
Password

.....

Sign Off

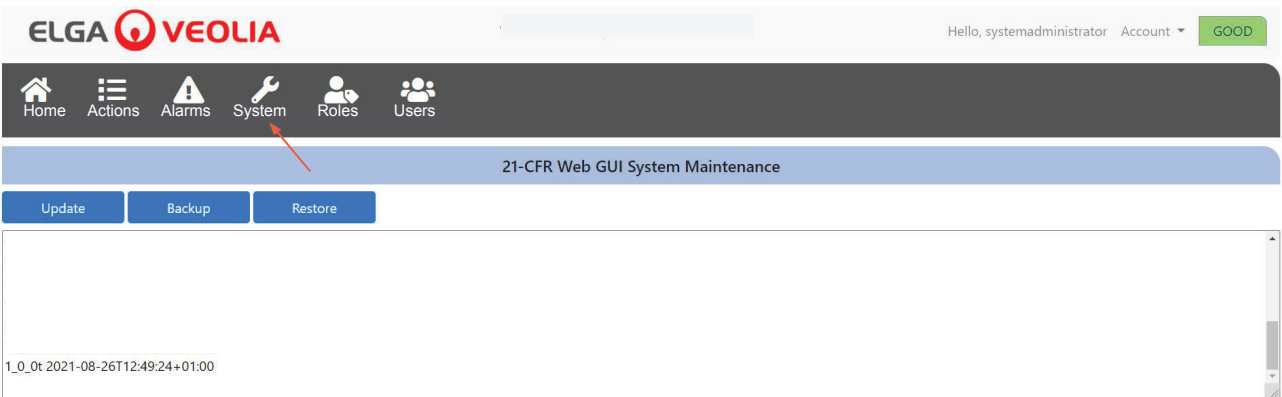
7.7 System Administrator - Alarms

System Administrator selects Alarms > Any active alarms should be displayed.



7.8 System Administrator - System

System Administrator selects System > All software updates will be displayed.
System is only available for a Service Engineer and System Administrator and not for other users.



7. Software Application Guide

7.9 System Administrator - Roles

System Administrator selects Roles > All users roles will be displayed.

The System Administrator can customize the menu options for each user by selecting the role followed by the update button, ticking or unticking the available options from the pop up permissions list.

ELGA VEOLIA

Hello, systemadministrator Account GOOD

Home Actions Alarms System Roles Users

Roles

Update

Show 10 entries

Search:

Name
ROLE_LM
ROLE_LT
ROLE_SA
ROLE_SE

Showing 1 to 4 of 4 entries

Previous 1 Next

Tick or untick the available menu options for each user, once confirmed the dispenser handset will reflect the changes.

ELGA VEOLIA

Hello, systemadministrator Account GOOD

Home Actions Alarms System Roles Users

Update

Show 10 entries

Search:

Name
ROLE_LM
ROLE_LT
ROLE_SA
ROLE_SE

Showing 1 to 4 of 4 entries

Previous 1 Next

Update Role Permissions

Permissions available for this Role:

- ☒ Change Password
- ☒ Backup Configuration
- ☒ Audit Trail - View Own activity
- ☒ Audit Trail - View All activity
- ☒ Dispense Water
- ☒ Set Language
- ☒ Set Time
- ☒ Display Units
- ☒ Sanitization
- ☒ Auto Volume Calibration
- ☒ Change Purification Pack
- ☒ Auto Restart

Cancel Save

7. Software Application Guide

7.10 System Administrator - Users

System Administrator selects Users > All users will be displayed.

This contains five feature buttons Create, Update, Reset Password, Toggle Disabled and Unlock Locked for creating, updating resetting or deleting users information.

Note: Only a System Administrator can use these feature buttons.



7.11 System Administrator - Create Button

System Administrator selects the Create button within Users > creating a Service Engineer, filling in the blank fields to create a new user.



Create a new user by filling in the blank fields, as shown in the example below.

Create/Update User

Username

serviceengineer

Password

.....

Name

Service Engineer

Role id

Role 1 - SE

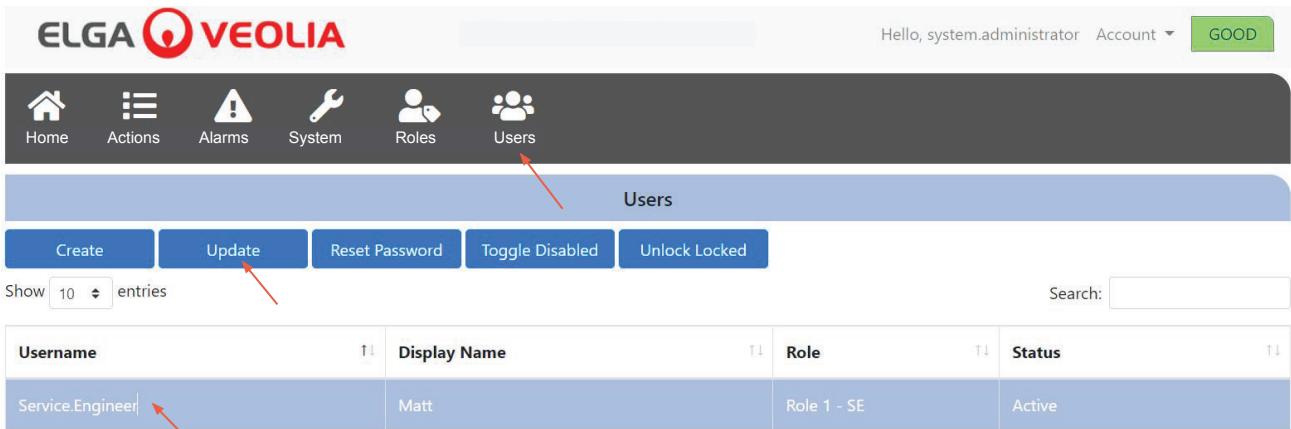
Cancel


Save


7. Software Application Guide

7.12 System Administrator - Update Button

System Administrator selects the Username and then the Update button within **Users** > System Administrator is able to edit/update existing users Role Id.



ELGA  VEOLIA

Hello, system.administrator Account 

Home Actions Alarms System Roles **Users**

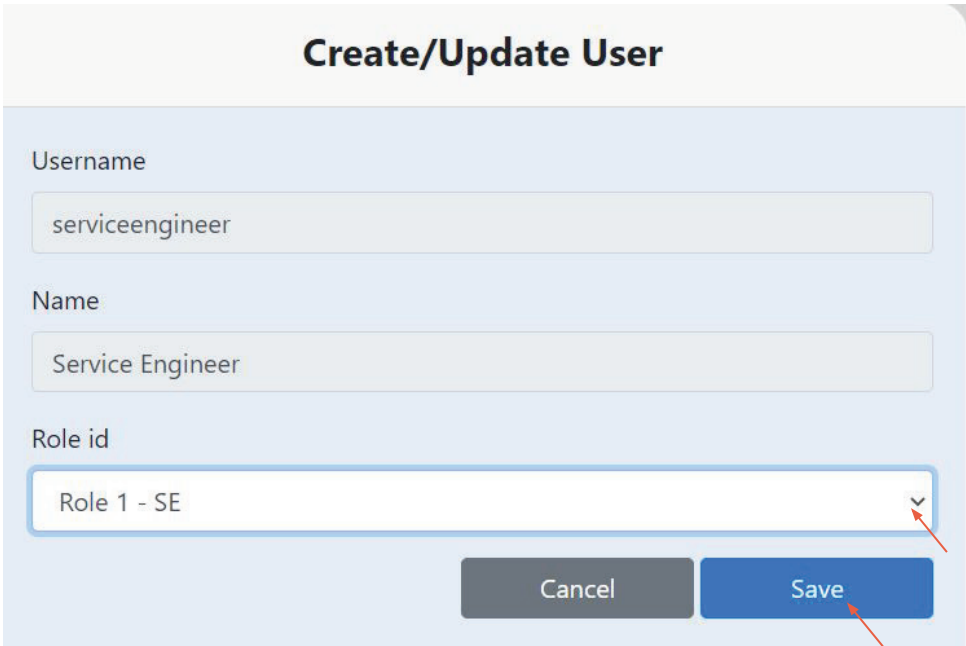
Users

Create Update Reset Password Toggle Disabled Unlock Locked

Show 10 entries Search:

Username	Display Name	Role	Status
Service.Engineer	Matt	Role 1 - SE	Active

Edit an existing users Role Id by amending the field as shown below.



Create/Update User

Username
serviceengineer

Name
Service Engineer

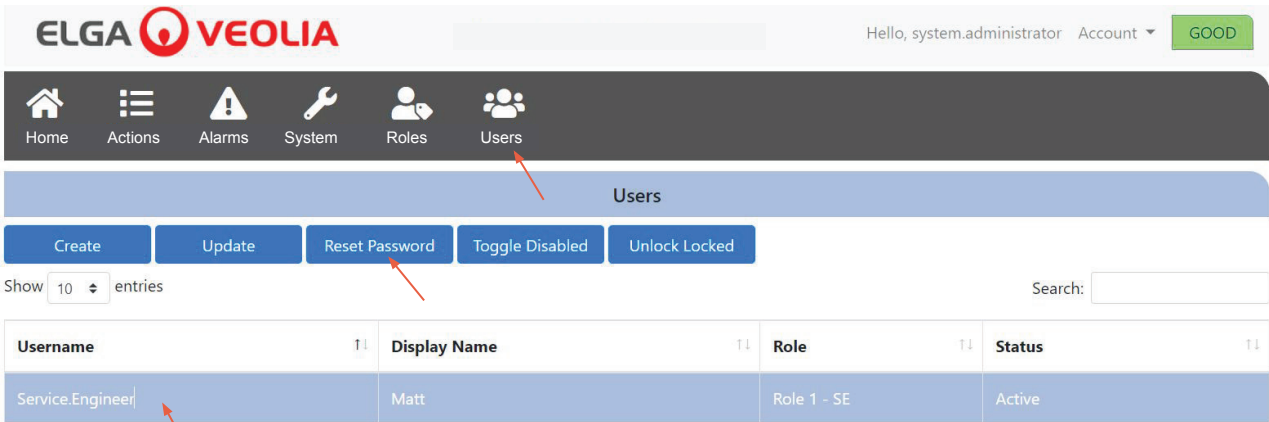
Role id
Role 1 - SE

Cancel Save

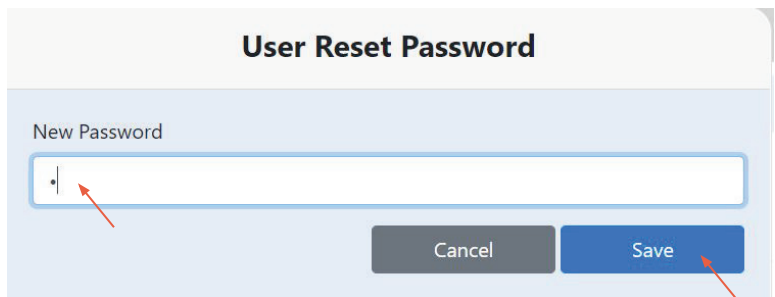
7. Software Application Guide

7.13 System Administrator - **Reset Password Button**

System Administrator selects the Username and then the Reset Password button within **Users** > System Administrator is able to create a new password.



Create a new password for a user.



7.14 System Administrator - **Resetting the System Administrator's Password**

System Administrator has forgotten their unique password.

Please contact Technical Support for more information on how to reset the system administrator's password.
Email: techsupport@elgalabwater.com or Telephone: 0203 567 7300

7.15 System Administrator - **Toggle Disabled Button**

System Administrator selects the username and then the toggle disabled button within **Users** > System Administrator is then able to lock the user account from accessing the software application.

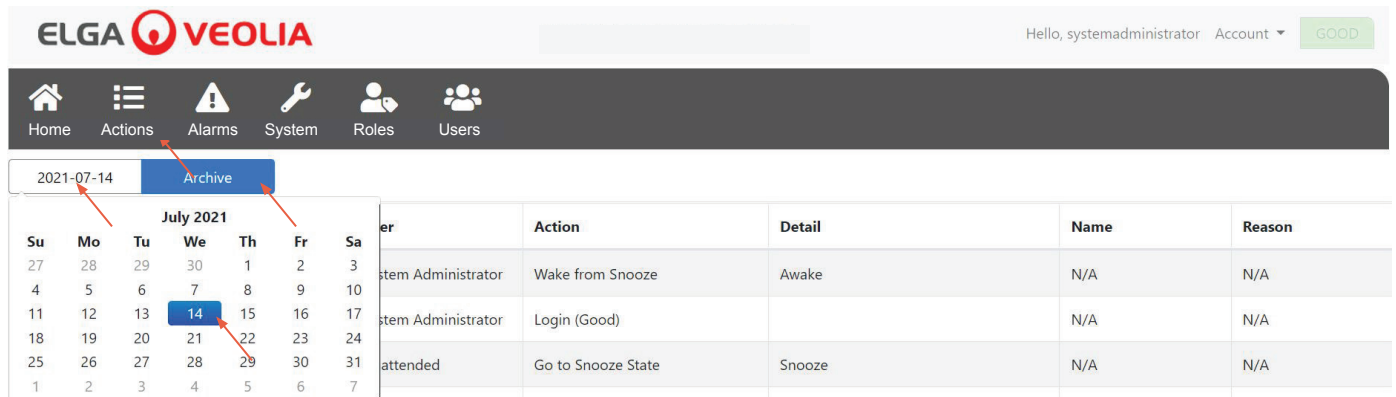
7.16 System Administrator - **Unlock Locked Button**

System Administrator selects the username and then the unlock locked button within **Users** > System Administrator is then able to unlock a locked user if they have enter their password in incorrectly three times.

7. Software Application Guide

7.17 System Administrator - Downloading the Audit Trail (All Users Actions)

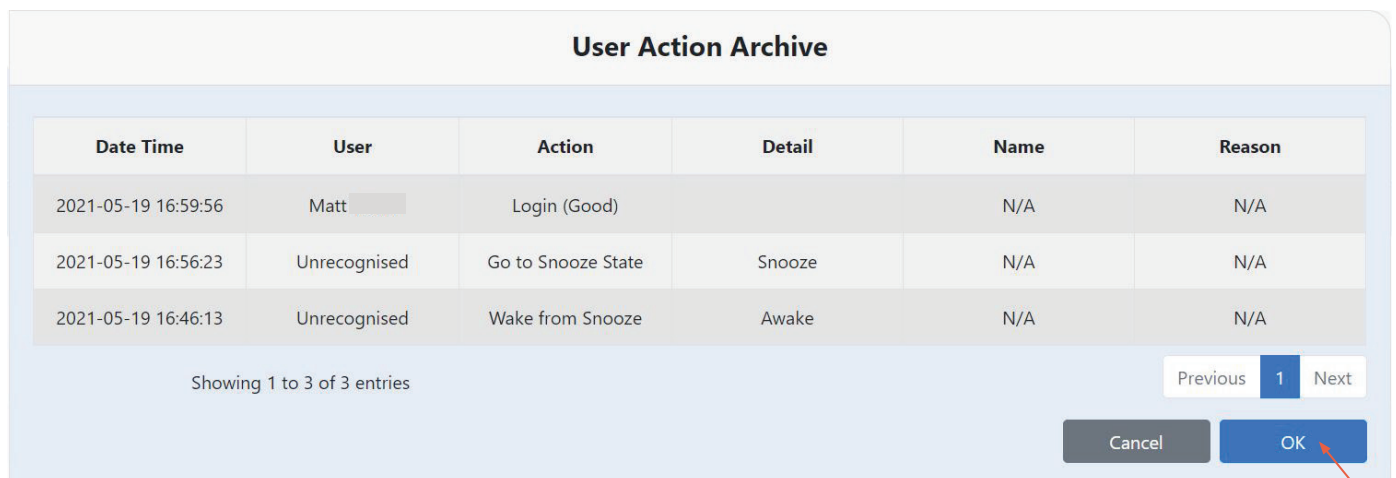
System Administrator selects **actions** > System Administrator selects the Up to Date button followed by the date the want the audit trail to start from, once the date is confirmed the System Administrator is then able to download a PDF document list by pressing the archive button.



The screenshot shows the ELGA VEOLIA System Administrator interface. At the top, there's a navigation bar with icons for Home, Actions, Alarms, System, Roles, and Users. Below this, there's a calendar for July 2021. The 'Archive' button is highlighted in blue. A table below the calendar shows user actions:

Date	User	Action	Detail	Name	Reason
2021-07-14	System Administrator	Wake from Snooze	Awake	N/A	N/A
2021-07-14	System Administrator	Login (Good)		N/A	N/A
2021-07-14	attended	Go to Snooze State	Snooze	N/A	N/A

Archive List - Selected User Actions

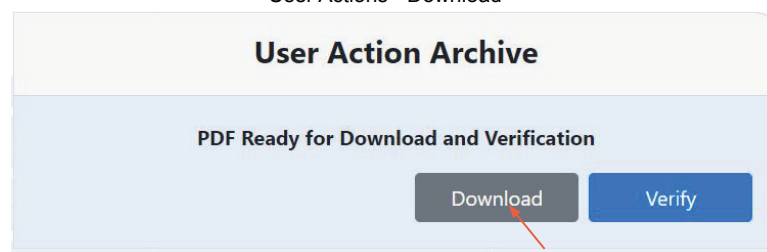


The screenshot shows the 'User Action Archive' dialog box. It contains a table with the following data:

Date Time	User	Action	Detail	Name	Reason
2021-05-19 16:59:56	Matt	Login (Good)		N/A	N/A
2021-05-19 16:56:23	Unrecognised	Go to Snooze State	Snooze	N/A	N/A
2021-05-19 16:46:13	Unrecognised	Wake from Snooze	Awake	N/A	N/A

Below the table, it says 'Showing 1 to 3 of 3 entries'. There are 'Previous', '1', and 'Next' buttons. At the bottom right, there are 'Cancel' and 'OK' buttons.

User Actions - Download



The screenshot shows the 'User Action Archive' dialog box with the message 'PDF Ready for Download and Verification'. There are two buttons: 'Download' and 'Verify'.

Download PDF Document

ELGA Accord - Archived User Actions

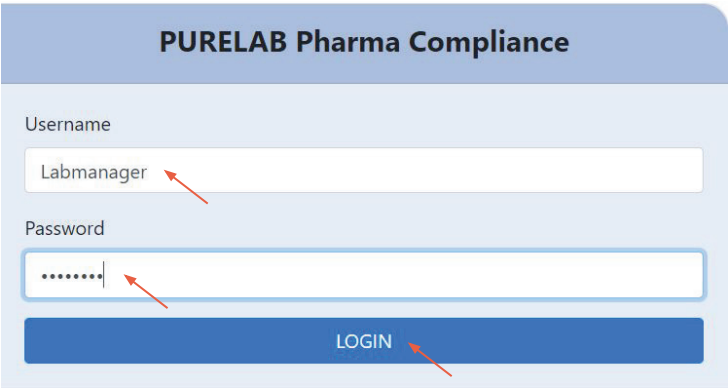
User Actions archived from the ELGA Accord system on 2021-05-19 17:04:34

Machine	Date / Time	User	Action	Detail	Name	Reason
Test	2021-05-19 16:59:56	Matt	Login (Good)		N/A	N/A
Test	2021-05-19 16:56:23	Unrecognised	Go to Snooze State	Snooze	N/A	N/A
Test	2021-05-19 16:46:13	Unrecognised	Wake from Snooze	Awake	N/A	N/A

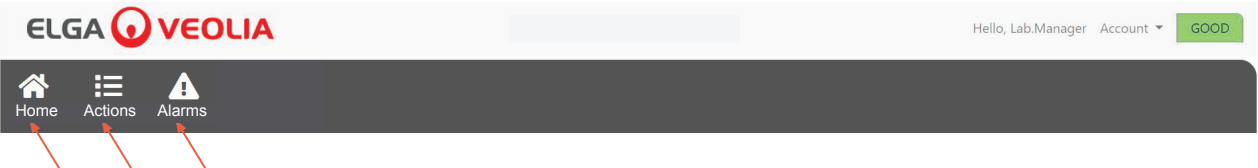
7. Software Application Guide

7.18 Laboratory Manager - Home Screen

Laboratory Manager enters their Username and Password and selects Login Button > Laboratory Manager Home screen is displayed. It contains three options **Home**, **Actions**, **Alarms**.

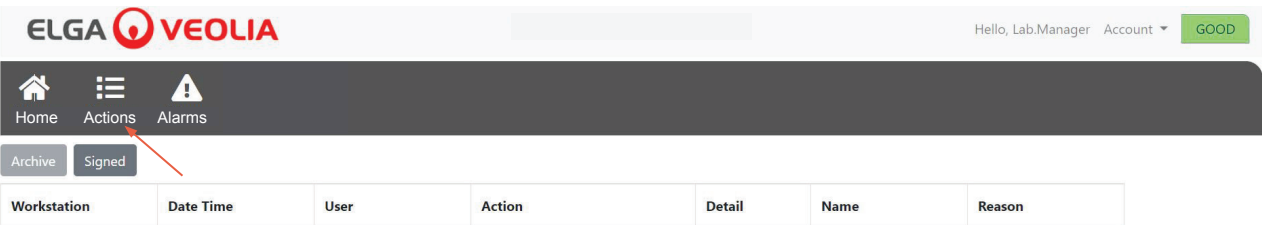


Laboratory Manager - Home Screen

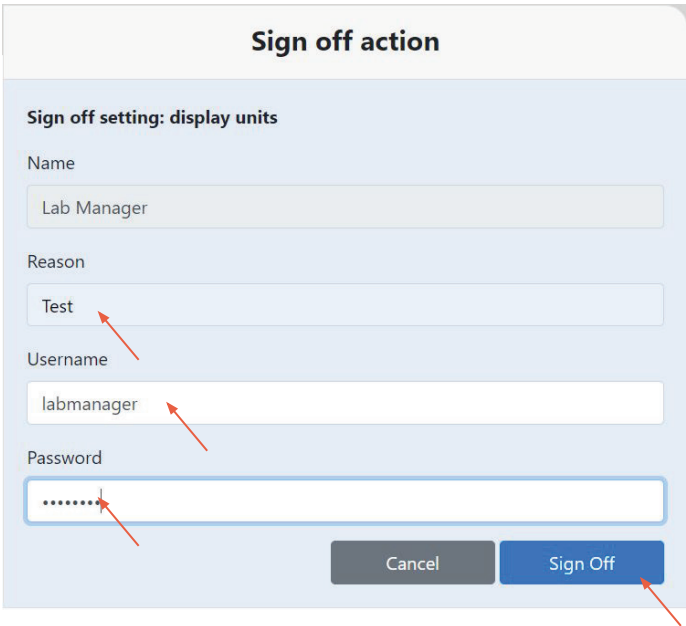


7.19 Laboratory Manager - Actions

Laboratory Manager selects Actions > Laboratory Manager can view all recorded and signed off (E-Sign) user actions.



Sign off action (E-Sign) are required after certain actions. Below is an example after changing the system displayed unit from Megohm to Microsiemens. For a full list of the sign off actions (E-sign) for each user see section 3.



7. Software Application Guide

Commissioning sign off example (a water rinse cycle procedure to achieve full purity during setup / commissioning, purification pack change and replacing the Ultra Filtration Module).

Please Enter Workstation Name

Workstation Name


Please Sign Off Commissioning

Username

Password

7.20 Laboratory Manager - Alarms


Laboratory Manager selects Alarms > Any active alarms should be displayed.

ELGA  VEOLIA

Hello, Lab.Manager Account

Home

Actions

 Alarms

Active alarms

7. Software Application Guide

7.21 Laboratory Technician - Home Screen

Laboratory Technician enters their Username and Password and selects Login Button > Laboratory Technician Home screen is displayed. It contains three options **Home**, **Actions**, **Alarms**.

PURELAB Pharma Compliance

Username


labtechnician

Password

.....

LOGIN

Laboratory Technician - Home Screen

ELGA  VEOLIA

Hello, Lab.Technician Account

GOOD


Home

Actions

Alarms

7.22 Laboratory Technician - Actions

Laboratory Technician selects Actions > Laboratory Technician can view all recorded and signed off (E-Sign) user actions.

ELGA  VEOLIA

Hello, labtechnician Account

GOOD

Home

Actions

Alarms

Workstation	Date Time	User	Action	Detail	Name	Reason
-------------	-----------	------	--------	--------	------	--------

Sign off action (E-Sign) are required after certain actions. Below is an example after changing the system displayed unit from Megohm to Microsiemens. For a full list of the sign off actions (E-sign) for each user see section 3.

Sign off action

Sign off setting: display units

Name

Lab Technician

Reason

Test

Username

labtechnician

Password

.....

Cancel

Sign Off

7. Software Application Guide

Commissioning sign off example (A water rinse cycle procedure to achieve full purity during setup / commissioning, purification pack change and replacing the Ultra Filtration Module).

Please Enter Workstation Name

Workstation Name


Please Sign Off Commissioning


Username


Password


7.23 Laboratory Technician - Alarms


Laboratory Technician selects the Alarms > Any active alarms should be displayed.

ELGA  VEOLIA

Hello, labtechnician Account  GOOD

 Home

 Actions

 Alarms

Active alarms

8. Maintenance

8.1 Replacing the Ultraviolet Lamp LC210

Note: LC210 UV Lamp should be replaced every 12 - 18 months (13140 hours) or when; lamp failure occurs affecting water quality. If either occurs you'll be prompted to change the UV Lamp and this message will be displayed in the scrolling information bar. "UV Lamp Reminder. To maintain performance replace the UV lamp" The LED Halo Light will also be a constant red indicating that the system needs attention.



WARNING!

UV-C RADIATION IS HARMFUL TO THE EYES AND SKIN UV LAMP SHOULD BE OPERATED IN THE HOUSING.



WARNING!

IT IS STRONGLY RECOMMENDED THAT DURING THE HANDLING OF THE UV LAMP CUT-RESISTANT GLOVES ARE WORN.



MERCURY HAZARD, DO NOT BREAK. THE UV LAMP CONTAINS A SMALL AMOUNT OF MERCURY. MAY CAUSE REDNESS OR IRRITATION AS A RESULT OF CONTACT WITH SKIN AND/OR EYES.

Step 1 - Switch Unit OFF

1. TURN OFF the unit by pressing the process button.
2. ISOLATE the electrical supply where the PURELAB Pharma Compliance power cable is connected to the mains electrical supply.
3. TURN OFF the water supply.
4. OPEN the right hand access door and unclip the black rubber fasteners around the UV lamp housing.

Step 2 - Remove UV Lamp

1. DISCONNECT the UV lamp connector fitting at the top of the UV lamp.
2. REMOVE the top JG push fit connector.
3. LOOSEN the two securing screws at the top of the UV lamp housing.
4. LIFT and remove the UV lamp from the UV lamp housing.
5. DISCARD the used UV lamp in accordance with local regulations.



Caution!

Hold onto the UV lamp carefully to ensure it doesn't break.

Step 3 - Replace the UV lamp



Caution!

Take care not to touch the surface of the glass, ideally wear gloves, handle with soft cloth and wipe the surface with alcohol before fitting into the housing.

1. UNPACK a new UV lamp.
2. SLIDE the new UV lamp into the UV lamp housing.
3. TIGHTEN the two securing screws at the top of the UV lamp housing.
4. RECONNECT the top JG push fit connector.
5. RECONNECT the UV lamp connector to the end of the UV lamp, making sure the connector is correctly aligned with the pins. (Use the black arrows for alignment).
6. ATTACH black rubber fasteners and close the right hand access door.

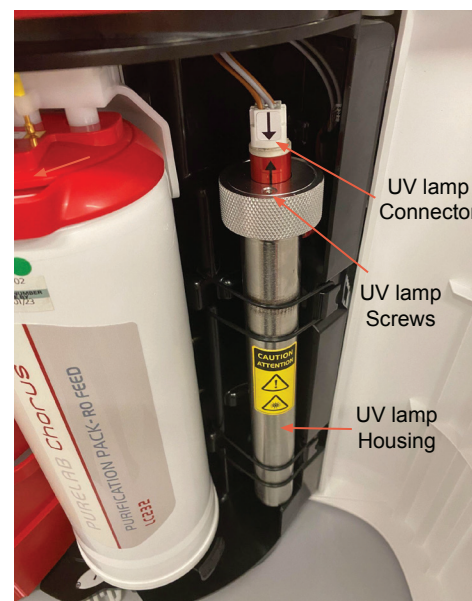
Step 4 - Switch ON the unit

1. TURN ON the water supply.
2. SWITCH ON the mains electrical supply and press the proceed button.
3. LOG IN to the software application.

Step 5 - Resetting the UV Reminder

1. ENTER the main menu option tabs by pressing and holding the handset accept button for 2 seconds.
2. SELECT 'SET UV REMINDER', press accept.
3. SELECT 'YES' and press accept to confirm.
4. LC210 UV Lamp has now been replaced and a reminder set for another 12 months.
5. Normal operation can now resume.

(It's recommended that a sanitization procedure should be completed after replacing the UV lamp, see section 8.6 for more details)



8. Maintenance

8.2 Replacing the LC232, LC244, LC245 and LC246 Purification Packs

Note: LC232, LC244, LC245 and LC246 Purification Packs should be replaced every 12 months (8760 hours) or when water 'Purity Alarm Active' is activated affecting water quality. You will be prompted to change the Purification Packs and this message will be displayed in the scrolling information bar. "Cartridge Reminder. To maintain performance replace purification cartridges" The LED Halo Light will also be a flashing white indicating that the consumables are nearing the end of useful life.

Step 1 - Main Menu 'Change Purification Pack'

1. PRESS and hold the accept button for 2 seconds to enter the Main Menu.
2. PRESS the up and down buttons to scroll through the options tabs and select 'Change Purification Packs' by pressing accept button.
3. SELECT Polisher within the sub menu and press accept to confirm.

Step 2 - Remove the purification packs

1. OPEN the right hand access door.
2. REMOVE the LC232 pack from position 1, by turning the pack handle to unlock, pulling down, tilting and remove the pack.
3. DISCARD the used Purification Pack in accordance with local regulations.
4. OPEN the left hand access door.
5. REMOVE the LC232 pack from position 2, by turning the pack handle to unlock, pulling down, tilting and remove the pack.

Step 3 - Replace the purification packs

1. FIT the removed LC232 pack from position 2 into position 1, turn and lock the handle.
2. CLOSE the right hand access door.
3. UNPACK a new LC232 pack and remove the red transit plugs.
4. FIT the new LC232 pack into position 2, turn and lock the handle.
5. CLOSE the the left hand access door.
6. PRESS the accept button when both packs are fitted.

Step 4 - Follow the on screen instructions

1. PLACE a 5L container under the dispense tip and press the dispense button to continue.
2. PURELAB Pharma Compliance will now rinse the pack for 1 hour.
3. FOLLOW the onscreen instructions.
4. Sign off (E-Sign) is required for completing the commissioning / changing the packs, please enter your credentials in the software application.
5. Normal operation can now resume.



8. Maintenance

8.3 Replacing the Ultra Filtration Module LC151

Note: LC151 Ultra Filtration Module should be replaced every 12 months (8760 hours)

There is no message displayed in the scrolling information bar for this consumable.

Step 1 - Switch Unit OFF

1. TURN OFF the unit by pressing the process button.
2. ISOLATE the electrical supply where the PURELAB Pharma Compliance power cable is connected to the mains electrical supply.
3. TURN OFF the water supply.
4. ENSURE pressure has dissipated from the unit, please wait a few minutes.
5. OPEN the left hand access door and remove the purification pack from position 2.

Step 2 - Remove Ultra Filtration Module

1. REMOVE the existing LC151 from the holding clips.
2. REMOVE the green locking clip from the quick connect.
3. RELEASE the side connection by pulling back the sleeve of the quick connect coupling.
4. UNSCREW the cap fitting from the DRAIN port at the top of the cartridge.
5. POUR the water from the filter into a suitable container.
6. UNSCREW the cap fitting from the INLET port at the bottom of the cartridge.
7. DISCARD the exhausted cartridge in accordance with your regulations.

Step 3 - Replace the Ultra Filtration Module

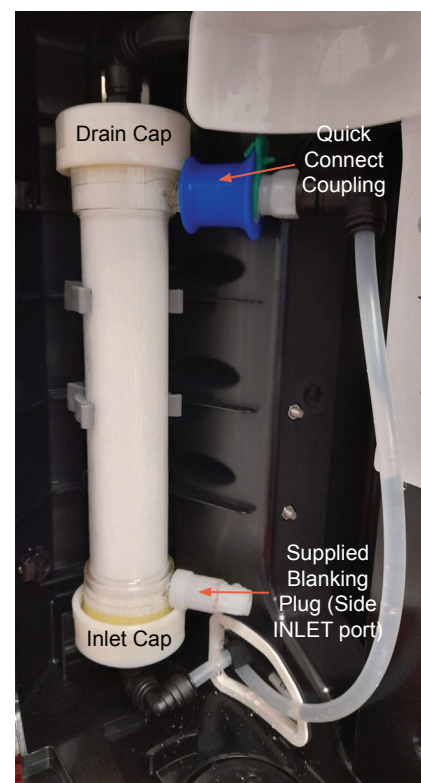
1. UNPACK the new LC151 and remove the all transit plugs and caps.
2. CONNECT the supplied blanking plug onto the side INLET port at the bottom of the cartridge.
3. SCREW the cap fitting onto the INLET at the bottom of the cartridge (**hand tight only**).
4. SCREW the cap fitting onto the DRAIN at the top of the cartridge (**hand tight only**).
5. RECONNECT the quick connect coupling.
6. INSERT the new LC151 into the holding clips.
7. FIT the Purification Pack back into position 2 turn and lock the handle, close the left hand access door.

Step 4 - Switch ON the unit

1. TURN ON the water supply.
2. SWITCH ON the mains electrical supply and press the proceed button.
3. LOG IN to the software application.

Step 5 - Rinse the Ultra Filtration Module

1. PRESS and HOLD the process button for 15 seconds and release.
2. The system should now enter rinse procedure and the red light will be flashing.
3. Follow the on screen instructions to complete this rinse procedure.
4. Sign Off (E-Sign) is required for completing the commissioning, please enter your credentials in the software application.



WARNING!

ULTRA FILTRATION MODULE WILL REQUIRE RINSING PRIOR TO USE.

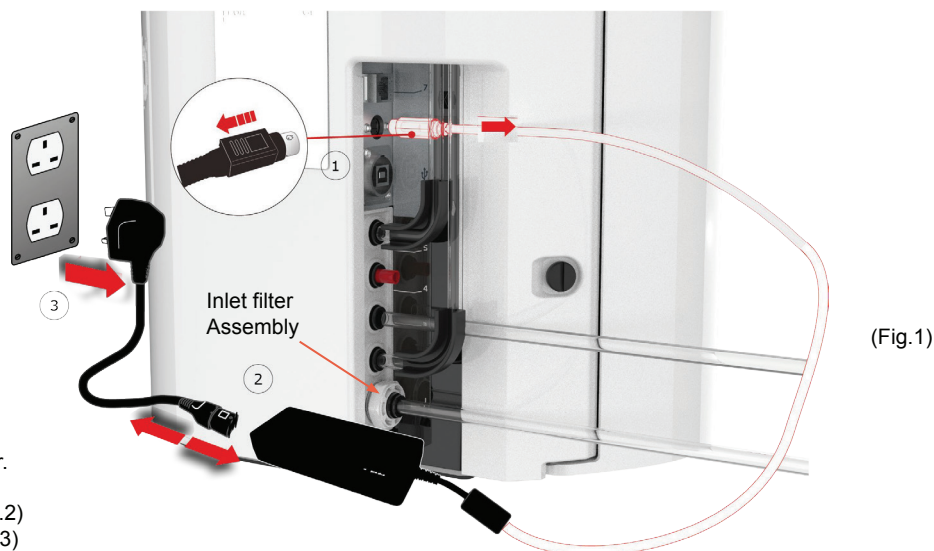
8. Maintenance

8.4 Cleaning the Inlet Mesh Filter Assembly

The PURELAB Pharma Compliance is fitted with an inlet filter to protect it from particles in the feed water supply which could affect performance. It's recommended that you periodically clean the inlet filter to ensure that it doesn't become blocked.

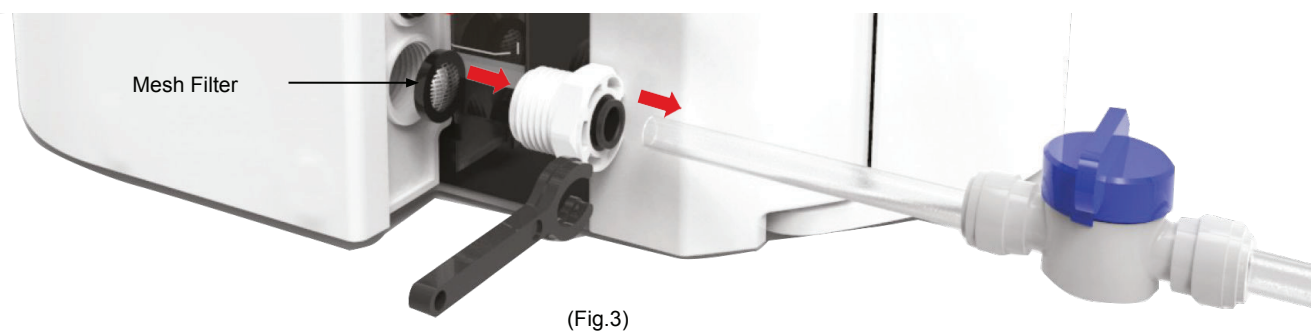
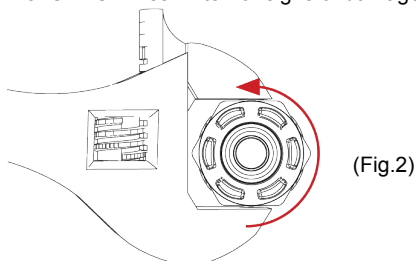
Step 1 - Isolate the Electrical Supply and Turn Off the Water.

1. TURN OFF the unit by pressing the process button.
2. ISOLATE the electrical supply where the power cable is connected to the mains electrical supply.
2. TURN OFF the water supply.
3. LOCATE the inlet filter assembly at the rear of the PURELAB Pharma Compliance. (Fig.1)



Step 2 - Dismantle the Inlet Filter.

1. UNSCREW the inlet filter. (Fig.2)
2. REMOVE the mesh filter. (Fig.3)
3. CHECK mesh filter for signs of damage; replace or clean as necessary.



Step 3 - Reassemble the Inlet Filter

1. INSERT the mesh filter into its original position ensuring that it is facing the correct direction (Mesh dome facing outwards).
2. RE-ASSEMBLE the Inlet Filter Assembly.

Step 4 - Turn Unit On

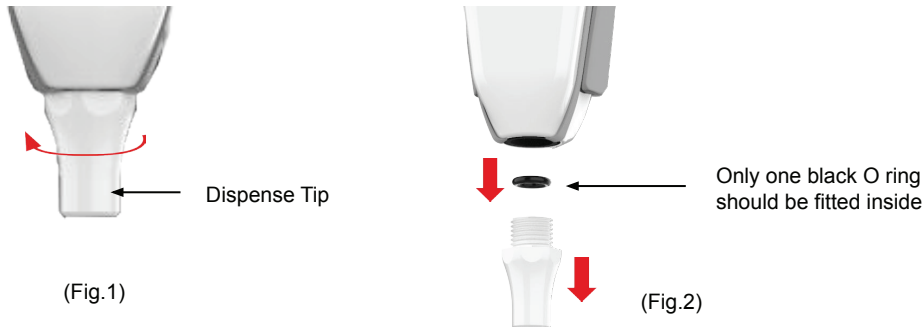
1. TURN ON the water supply.
2. SWITCH ON the mains electrical supply and press the proceed button.
3. LOG IN to the software application.
4. Normal operation can resume.

8. Maintenance

8.5 Replacing the LC134 or LC197 Point-Of-Use Filter

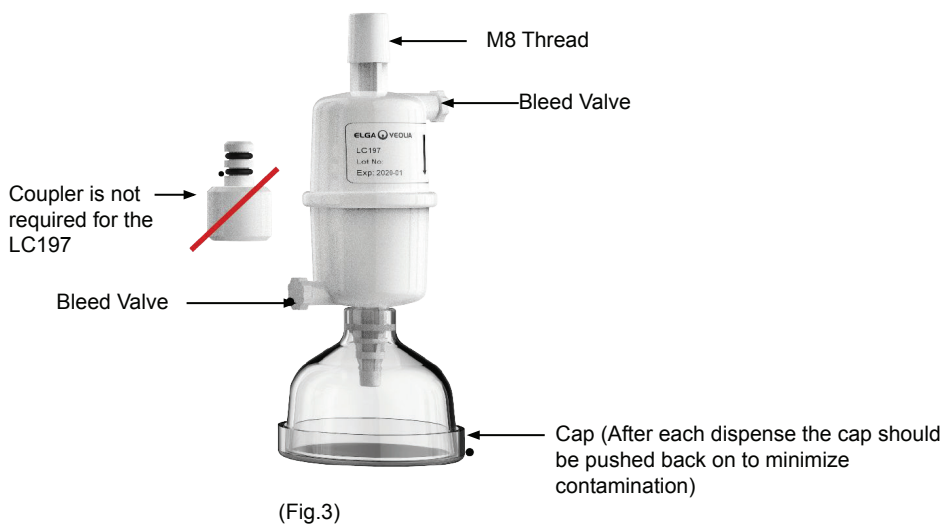
Step 1 - Removing the Dispense Tip

1. UNSCREW the dispense tip from underneath the handset. (Fig.1)
2. DO NOT dispose of the dispense tip this part is required for the sanitization procedure. (Fig.2)

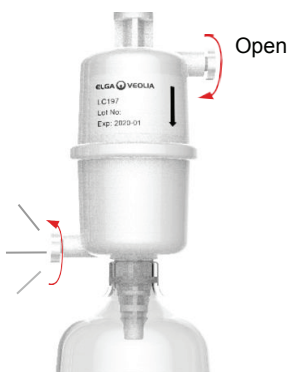


Step 2 - Unpacking and Installing the LC134 or LC197 Point-Of-Use Filter

1. UNPACK the new POU filter from the outer and inner packaging, remove the cap. (Fig.3)
2. Coupler is not required for PURELAB Pharma Compliance, screw in the Point-of-Use filter. (Fig.4)



3. SLIGHTLY open both bleed valves, before dispensing any water to release any trapped air. (Fig.5)
4. PRESS the dispense button, drawing water through and close both bleed valves. (Fig.6)
5. Installation is completed, normal operation can resume. (Fig.7)



8. Maintenance

8.6 Sanitization Procedures

A Sanitization procedure should be performed every 12 months or when lamp failure occurs affecting water quality. Please note that the PURELAB Chorus 1 Sanitization Packs will also sanitize a PURELAB Pharma Compliance.

LC236-M2 Tablet Sanitization Pack & 1 X LC272 Bypass Pack - Instructions are provided with this consumable.
(Effersan is registered with the US Environmental Protection Agency EPA Registration Number 66570-2).

(Authorization (Signature) will be required after completing this sanitization procedure. please enter your credentials in the software application)

or

LC236 CT1 Tablet Sanitization Pack & 1 X LC233 Bypass Pack - Instructions are provided with this consumable.
(CT1 Tablets can not be used in the USA).

(Authorization (Signature) will be required after completing this sanitization procedure. please enter your credentials in the software application)

or

LC271 Liquid Sanitization Pack & 1 X LC233 Bypass Pack - Instructions are provided with this consumable.
(Minncare Cold Sterilant is registered with the US Environmental Protection Agency EPA Registration Number 52252-4).

(Authorization (Signature) will be required after completing this sanitization procedure. please enter your credentials in the software application)

8. Maintenance

8.7 Suitability Test Chemical Preparation



WARNING!



Please take necessary safety precautions when handling hazardous chemicals detailed in this section. Material Safety Data Sheets (MSDS) provided for reagents to be used must be read and understood, and appropriate risk assessments completed, before carrying out the procedure.



Personal Protective Equipment should be worn (lab coat, chemical resistant gloves and safety goggles) at all times. Exact requirements for individual situations will be defined by your risk assessment.

Required Equipment	
Description	Qty
1L Calibrated Volumetric Flask with clean glass stopper	4
10 ml Calibrated Volumetric Flask or Measuring Pipette	2
LC296 Chemical Pack	2
USP 1,4 Benzoquinone Reference Standard (minimum 0.119g, (store at 4°C)	1
USP Sucrose Reference Standard (minimum 0.075g, store at 4°C)	1
Calibrated Balance Scales	1
Ultrasonic Water Bath	1
Reagent Water (Taken from the PURELAB Pharma Compliance system)	4L

These are 1,4, Benzoquinone and Sucrose dissolved in water taken from the PURELAB Pharma Compliance system to be validated; each solution must contain the chemical at a concentration that equates to 0.5mg/l of Carbon, respectively meaning 0.75mg/l as benzoquinone and 1.19mg/l as sucrose. Approximately 150ml of each solution will be required for each test but it is recommended that a minimum of 1 litre of each is made up to allow for rinsing of containers and multiple repeats of the test if required.

Experiment notes:

- Chemical solutions should be prepared no more than **30 minutes prior to the ELGA engineer starting to run the suitability test**; Ideally, 'System Suitability Solution' and 'Standard Solution' should be made up immediately prior to the test commencement.
- All glassware and wetted equipment to be used must be scrupulously cleaned of organic residues. A procedure to clean and prepare the glassware is provided in the current USP<1051>, this or an equivalent method must be followed to help prevent contamination of test solutions and inaccurate results. Water from the PURELAB Pharma Compliance system to be validated should be used as the final rinse water for all wetted equipment.
- Reagent Water: Use only freshly prepared ultra-pure water taken from the PURELAB Pharma Compliance as a solvent for all chemical dilutions. TOC of the Ultra-pure water from the ELGA purifier to be validated must be <100ppbC ideally <50ppbC. Ensure that volumetric flasks are promptly stoppered after filling to minimise contact with air. Ensure that each solution is mixed well to homogenise before use.

8. Maintenance

8.7 Suitability Test Chemical Preparation

- Where possible glassware should be used (rather than plasticware) in order to help reduce potential for contamination of test solutions.
- All equipment used for measuring and transferring volumes must be calibrated.
- Ensure LC296 is free from debris/contaminants prior to installation in order to prevent these from being introduced into the system.

Preparation of the Sucrose Solution

1. Add 0.119g of USP Sucrose Reference Standard to a 1L volumetric flask and fill to 1L using water from the PURELAB Pharma Compliance.
2. Using an ultrasonic bath, dissolve the sucrose by submerging the 1L volumetric flask for approximately 10 minutes in the bath.
3. Transfer 10 ml of the solution in a further 1L volumetric flask and fill to 1L using water from the PURELAB Pharma Compliance. Stopper the flask and thoroughly mix to homogenize the solution.
4. Immediately prior to starting the suitability test procedure, transfer 150ml of the standard solution into the container of the LC296 and secure the lid.

Preparation of the Benzoquinone Solution

1. Add 0.075g of USP Benzoquinone Reference Standard to a 1L volumetric flask and fill to 1L using water from the PURELAB Pharma Compliance.
2. Using an ultrasonic bath, dissolve the sucrose by submerging the 1L volumetric flask for approximately 10 minutes in the bath.
3. Transfer 10 ml of the solution in a further 1L volumetric flask and fill to 1L using water from the PURELAB Pharma Compliance. Stopper the flask and thoroughly mix to homogenize the solution.
4. Immediately prior to starting the suitability test procedure, transfer 150ml of the standard solution into the container of the LC296 and secure the lid.

9. Troubleshooting

Pharma Compliance	
Issue	Action
Blank Display Screen	<ol style="list-style-type: none"> 1. Press any button to wake from sleep mode. or 2. Check the power supply is connected to the product, ensuring that all connections are securely fitted. (Turn the power OFF/ON) or 3. Check the plug socket fuse, replace if necessary.
Unable to Enter the Features in the Main Menu	<ol style="list-style-type: none"> 1. Check the product is turned ON. or 2. Make sure 'Auto volume dispense' is disabled. (See section 6.4 - Quick Reference Guide)
Incorrect Volume of Water	<ol style="list-style-type: none"> 1. Select 'Auto Volume Calibration' in the main menu.
Message Displayed - "Sanitization Reminder"	<ol style="list-style-type: none"> 1. Complete a Sanitization Procedure. (See section 8.6 Sanitization Procedures)
Message Displayed - "UV Lamp Warning"	<ol style="list-style-type: none"> 1. Complete a UV lamp change. (See Section 8.1 Replacing the Ultraviolet Lamp LC210) 2. Reset UV lamp reminder. (See Section 8.1 Replacing the Ultraviolet Lamp LC210) or 3. Remove the rear cover panel and check to see if there is a green LED active on the UV lamp ballast, if this deactivated call Technical Support for more assistance.
Message Displayed - "UV Lamp Reminder. To maintain performance replace the UV lamp"	<ol style="list-style-type: none"> 1. Complete a UV lamp change. (See Section 8.1 Replacing the Ultraviolet Lamp LC210) 2. Reset UV lamp reminder. (See Section 8.1 Replacing the Ultraviolet Lamp LC210)
Message Displayed - "High Temperature Alarm"	<ol style="list-style-type: none"> 1. Adjust the alarm points settings via Main Menu. or 2. Check the feedwater temperature (10 - 15°C). 3. Press the dispense button to draw some water through the system configuration, switch OFF and restart.
Reduced Dispensing Flow Rate	<ol style="list-style-type: none"> 1. Check the mesh feedwater inlet filter for blockages. (See section 8.4 Cleaning the Inlet Mesh Filter Assembly) or 2. Replace the Point-Of-Use Filter. or 3. Check the feedwater 8mm manual valves and pressure regulator are open.
Message Displayed - "Purity Alarm Active"	<ol style="list-style-type: none"> 1. Check the alarm points settings via Main Menu. or 2. Dispense water as normal, flush water through the system (This may take >10L) to see if the water quality improves. Check the feedwater supply valve is open. or 3. Replace the Purification Pack and wait for the cycle to complete. (See section 8.2 Replacing the LC232, LC244, LC245 and LC246 Purification Packs) <p>Note: Water Purity Alarm is active during commissioning procedure</p>

9. Troubleshooting

Issue	Action
Message Displayed - "System Configuration Not Valid"	<ol style="list-style-type: none"> 1. Check comms connections, ensure that the configuration is valid. (Follow the system configuration examples in the Quick Start Guide) or 2. Update your main system software via the USB port.
Message Displayed - "Purification Pack Error"	The data tags on the purification pack are not being recognised by the system the alarm will be deactivated once the system recognises valid data tags. This alarm will also appear if a new purification pack is incorrectly entered into position 1.
Red Warning Light - no message displayed	<p>System appears to be operating correctly but there is a red light without an alarm message in the scrolling information bar.</p> <ol style="list-style-type: none"> 1. Check all comms connections. (Follow the system configuration examples in the Quick Start Guide)
Pharma Compliance Software Application	
Software Application - Nothing is displayed in the web browser on the laptop	<ol style="list-style-type: none"> 1. Load the USB RNDIS application driver onto the laptop before entering the web address: http://pharmacompliance.local 2. Check USB 2.0 A-B cable is connected to the Pharma Compliance.
Software Application - Nothing is displayed in Actions	<ol style="list-style-type: none"> 1. System Admin to update individual user settings in roles, checking to see if all of the audit trail options are ticked or unticked on or off from the list. 2. Refresh the webpage <p>See section 7.9 System Administrator - Roles for more information.</p>
Software Application - Laptop enters sleep mode or powers down during a procedure	<ol style="list-style-type: none"> 1. Please close the software application window and log back in to the application to resume operation.

10. Technical Specifications

PURELAB Pharma Compliance - VCLSDM1	
Dimensions and Weights	
Shipping Dimensions	H 860mm W 605mm D 755mm
Shipping Weight	37KG
Operating Weight	22KG
Installation	Worktop
Electrical Requirements	
Mains Input	100-240 VAC, 50-60 Hz
Power Required (Excluding Pump and UV)	24V DC
Power Consumption	90 VA
Noise Output	<40 dBA
Environment	
Temperature	5 - 40 °C (Recommended 15 - 25 °C)
Altitude	Up to 2000m
Humidity	Non-condensing. Humidity Max 80%
Surroundings	Indoor use only (Clean laboratory environment)
Pipe Connections	
Inlet	8mm (5/16) OD Tube
Return	8mm (5/16) OD Tube
Drain	8mm (5/16) OD Tube

10. Technical Specifications

PURELAB Pharma Compliance - VCLSDM1	
Purified Type 1 Treated Water Output Specifications	
Resistivity	18.2 MΩ-cm
Dispenser flow-rate	up to 2 L/min
Total Organic Carbon (TOC)	1-3 ppb
Bacterial Endotoxin	<0.001 EU/ml with a LC197 Point-of Use Biofilter fitted
Bacterial Spec	<0.001 Cfu/ml with a LC134 or LC145 or LC197 Point-of Use 0.2µm Micron filter fitted
DNases	<5 pg/ml
RNases	<1 pg/ml
Particles	<0.01 µm
Recirculation Mode	During periods of non-use the unit will automatically operate in intermittent (10 minutes every 1 hours) re-circulation mode to maintain water purity with maximum efficiency.
Feedwater Requirements	
Water Source	Pre-treated preferably RO, SDI or distilled
Fouling Index (max)	1 for all models. A 5 - 10 micron pre-filter is recommend for all non RO feeds
Service Deionization (SDI)	1MΩ.cm minimum at exhaustion
Reverse Osmosis (RO)	Recommend <30 µs/cm
Free Chlorine (max)	0.05 ppm
TOC	0.05 ppm max
Carbon Dioxide	30 ppm max
Silica	2 ppm max
Particulates	Filtration down to 0.2 micron advisable
Temperature	1 - 40°C (Recommended 10 - 15°C)
Feedwater Pressure and Flowrate	
Maximum Inlet Pressure	0.7 bar (10 psi) Fit a LA652 Pressure Regulator where feedwater exceeds specified limits
Minimum Inlet Pressure	0.07 bar (1 psi)
Flowrate	130 l/hr (34 USG)
Drain Requirements	Up to 2 l/min (0.5 USG) (Gravity fall with air gap) Maximum during service

10. Technical Specifications

PURELAB Pharma Compliance - VCLSMD1	
Minimum Laptop or Tablet Requirements (Not supplied)	
USB Ports	Minimum of 1X USB port available with USB 2.0 driver installed.
Web Browser	Laptop can support a web browser.
Hard drive	>16GB
Memory (RAM)	>2GB
Processor Speed	2.0GHz
Operating System	Windows 10 or Mac OS

11. Warranty / Condition of Sale

Warranty / Condition of Sale

ELGA LabWater is a trading name of VWS (UK) Ltd.

General Limited Warranty

VWS (UK) Ltd. warrants the products manufactured by it against defects in materials and workmanship when used in accordance with applicable instructions for a period of one year from the date of shipment for the products. VWS (UK) Ltd. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED. THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The warranty provided herein and the data, specifications and descriptions of the VWS (UK) Ltd. products appearing in VWS (UK) Ltd. published catalogues and product literature may not be altered except by express written agreement signed by an officer of VWS (UK) Ltd. Representations, oral or written, which are inconsistent with this warranty or such publications are not authorized and, if given, should not be relied upon. In the event of a breach of the foregoing warranty, VWS (UK) Ltd. sole obligation shall be to repair or replace, at its option, any product or part thereof that proves to be defective in materials or workmanship within the warranty period, provided the customer notifies VWS (UK) Ltd. promptly of any such defect. The exclusive remedy provided herein shall not be deemed to have failed of its essential purpose so long as VWS (UK) Ltd. is willing and able to repair or replace any nonconforming VWS (UK) Ltd. product or part. VWS (UK) shall not be liable for consequential, incidental, special or any other indirect damages resulting from economic loss or property damage sustained by any customer from the use of its products.

Water System Limited Warranty

VWS (UK) Ltd. warrants the water systems manufactured by it, BUT EXCLUDING MEMBRANES AND PURIFICATION PACKS, against defects in materials and workmanship when used in accordance with the applicable instructions and within the operating conditions specified for the systems for a period of one year from the earlier of: the date of installation, or the 120th day following the date of shipment.

VWS (UK) LTD. MAKES NO OTHER WARRANTY, EXPRESSED OR IMPLIED. THERE IS NO WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The warranty provided herein and the data, specifications and descriptions of the VWS (UK) Ltd. systems appearing in VWS (UK) Ltd. published catalogues and product literature may not be altered except by express written agreement signed by an officer VWS (UK) Ltd. Representations, oral or written, which are inconsistent with this warranty or such publications are not authorised and, if given, should not be relied upon.

In the event of a breach of the foregoing warranty, VWS (UK) Ltd. sole obligation shall be to repair or replace, at its option, any product or part thereof that proves to be defective in materials or workmanship within the warranty period, provided the customer notifies VWS (UK) Ltd. promptly of any such defect. The cost of labour for the first ninety (90) days of the above warranty period is included in the warranty; thereafter, labour cost shall be at the customer's expense. The exclusive remedy provided herein shall not be deemed to have failed of its essential purpose so long as VWS (UK) Ltd. is willing and able to repair or replace any nonconforming VWS (UK) Ltd. system or component part. VWS (UK) Ltd. shall not be liable for consequential, incidental, special or any other indirect damages resulting from economic loss or property damage sustained by any customer from the use of its process systems.

Products or components manufactured by companies other than VWS (UK) Ltd. or its affiliates ("Non - VWS (UK) Ltd. products") are covered by the warranty, if any, extended by the Product manufacturer. VWS (UK) Ltd. hereby assigns to the purchaser any such warranty; however VWS (UK) LTD. EXPRESSLY DISCLAIMS ANY WARRANTY WHETHER EXPRESSED OR IMPLIED, THAT THE NON - VWS (UK) Ltd. PRODUCTS ARE MERCHANTABLE OR FIT FOR A PARTICULAR PURPOSE.

NOTICE

VWS (UK) Ltd. is constantly striving to improve its products and services. Consequently, the information in this document is subject to change without notice and should not be construed as a commitment by VWS (UK) Ltd.

Also VWS (UK) Ltd. assumes no responsibility for any errors that may appear in this document. This manual is believed to be complete and accurate at the time of publication. In no event shall VWS (UK) Ltd. be liable for incidental or consequential damages in connection with or arising from the use of this manual.

VWS (UK) Ltd. warrants its products against defects in materials and workmanship as described in the Warranty statement on the preceding pages.

11. Warranty / Condition of Sale

11.1 Lithium Ion Battery Removal



WARNING!

If you are returning the PURELAB Pharma Compliance for a warranty claim, please ensure that the lithium ion battery is removed before returning this product. Please follow the instructions below.

Step 1 - Switch Unit OFF

1. TURN OFF the unit by pressing the process button.
2. ISOLATE the electrical supply where the PURELAB Pharma Compliance power cable is connected to the mains electrical supply.
3. TURN OFF the water supply.
4. OPEN the left and right hand access doors.

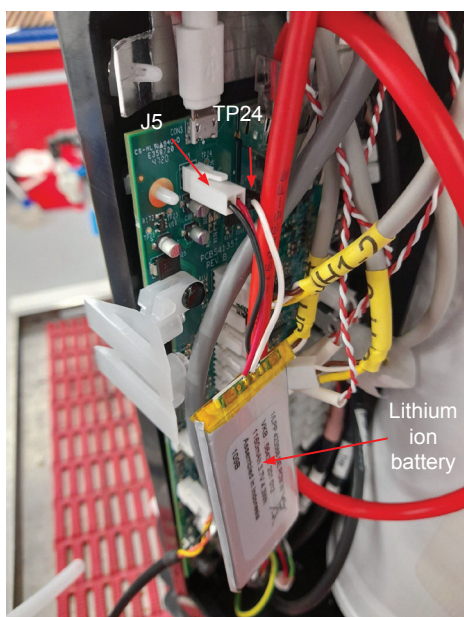
Step 2 - Remove the Lithium ion battery

1. UNDO the two black quarter turn fasteners and carefully remove the front trim panel.
2. UNCLIP the lithium ion battery from J5 and TP24 connections on the main PCB board.
3. DISCARD the lithium ion battery in accordance with local regulations marked Weee waste.

Step 3 - Returning the PURELAB Pharma Compliance

1. If possible try to use the supplied product packaging and cardboard internal fitments for protection.
2. Contact technical support to organise a warranty claim.
3. Warranty returns address:

ELGA LabWater - Global Operations Centre
 Lane End Industrial Park
 High Wycombe
 Bucks HP14 3BY
 UK
 Tel: +44 (0) 203 567 7300



Languages

Please scan the QR Code or use the URL below to view or download the language files.

Authentication Pin Number:1937

<https://www.elgalabwater.com/purelab-pharma>



The Labwater Specialists

ELGA VEOLIA is the global laboratory water brand name of Veolia. The information contained in this document is the property of VWS (UK) Ltd, trading as ELGA Veolia, and is supplied without liability for errors or omissions.
© VWS (UK) Ltd.

2022 - All right reserved. ELGA® , PURELAB® are registered trademarks of VWS (UK) Ltd.



Tel: +44 203 567 7300 Email: info@elgalabwater.com Web: www.elgalabwater.com