LIFESAVER®

C2

ASSEMBLY & INSTRUCTION MANUAL

SLI0016-3

INDEX

HEALTH AND SAFETY ADVICE

The LifeSaver C2 uses air pressure as part of the filtration process.

Do not attempt to open any of the caps without releasing the pressure first using the pressure relief valve ring pull (located on the top fill cap). To release the pressure, pull the ring pull vertically upwards, wait for the rush of air to stop before removing the caps and/or pumps from the LifeSaver C2.

- Do not attempt to attach anything to the LifeSaver C2 tank or stands. This will invalidate the warranty and may cause health and safety issues.

Location of the LifeSaver C2
The C2 tank should be installed on a site that is 100% level and preferably in shade.

Heat
Do not expose the LifeSaver C2 tank to direct heat from fires or sunlight.

Standing/climbing
When installed, the tank is not a toy, please do not allow children to climb on the unit or stand on the taps. Please do not stand on the tank or frame when filling it with water.

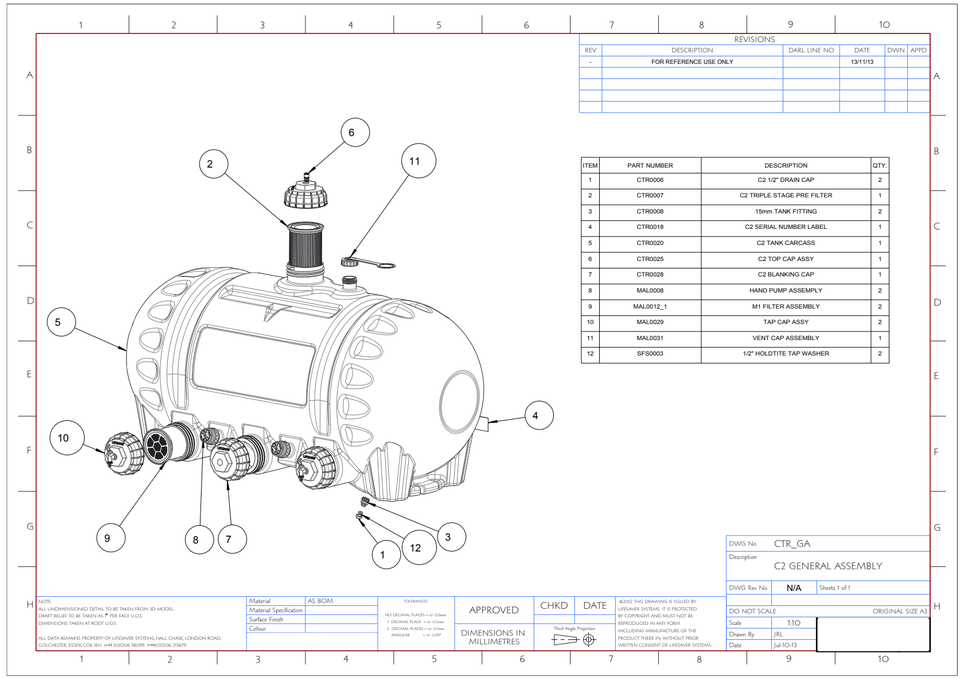
Plastic
The LifeSaver C2 tank is made of plastic, it will be vulnerable to scratches and damage if hit with metal or wooden objects.

Shade
The LifeSaver C2 should be kept in the shade wherever possible, this will ensure the drinking water is kept at a palatable temperature.

Pump handles
Do not hang items from the pump handles, or pull on the pump handles.

Do not leave taps running: drinking water is precious. The LifeSaver C2 is fitted with a safety cut off system, this stops water flow when the taps are left running for a sustained time.

Figure 1 - C2 tank diagram



C2 AND C2i

The C2 can be used as a stand-alone system or as part of an integrated C2i solution to provide clean drinking water to a community. As a stand-alone system the C2 can be filled through the triple stage filter by removing the top cap and bucketing or pumping water into the C2 tank as required. The C2 is pressurised using the hand pumps on the front of the tank, which push water through the filters.

As an integrated C2i system the C2 can be set up in several ways, these are discussed in more detail below:

Note: Water kept in the C2 tank needs to be kept moving as much as possible to minimise the chance of the water stagnating and algae growing in the tank. Where possible the use of the C2 should be little and often to avoid large amounts of water standing for extended periods.

Harvesting tank system
Water collected in a harvesting tank can be used to fill the C2 tank and will add pressure without the need to operate the hand pumps. This harvested water can come from a rainwater collection gutter or a solar pump from a lake. Regardless of water source this should be plumbed in to the C2 as an isolatable circuit using the optional quick release pipework kit CTR0055 – figure 30: page 34, see C2i connection schematic drawing figure 31: page 35 for a system layout. It can then be used in two ways.

1. As a standard C2 manually filled from a harvesting tank when required. Shut off the integration pipework using the lever handle ball valve after each fill and pressurise the tank using the hand pumps. As the level of the water drops in the C2 refill by venting* the C2 and opening the lever handle ball valve to the harvesting tank, see figure 2: page 6. Again shut off the integration pipework when the C2 is full and re-pressurise by hand.
2. As a plumbed in solution a head pressure is available, negating the need to operate the hand pumps. Pressure and flow can be calculated from the height of the water above the C2 within the harvesting tank. IMPORTANT the harvesting tank maximum operational head pressure is = 2250mm see C2i connection schematic figure 31: page 35. If the head pressure exceeds this, it will exceed the maximum operational limits of the C2 tank and the pressure relief valve on the C2 will run constantly, discharging water. THIS IS DANGEROUS and a set-up displaying these symptoms should be shut-off and re-configured.

   During normal operation the ball valve in the pipeline remains open at all times, the C2 will then automatically fill as the level drops. It is recommended to use a float valve in the harvesting tank so that it fills automatically and shuts of automatically. This means your head pressure will always remain at maximum. Otherwise the header tank level can be maintained manually by pumping water into the header tank as and when required.

If required the hand pumps can also be used to increase flow from the C2 (this may be useful when water levels are low). To do this, shut off the ball valve and add air pressure using the hand pumps, this however will then stop the C2 automatically filling and you will need to re-open the lever handle ball valve and bleed the air off the top of the tank by venting*.

*To initially fill the C2 all air must be removed from the system and the tank ‘vented’. Use either the vent cap or manually pull the ring pull on the pressure relief valve, (located on the top fill cap) until water overflows the PRV /vent cap meaning all air in the tank has been displaced. Release PRV or replace vent cap.

C2 AND C2i CONTINUED

Note: If using the 1/2” brass float valve supplied with the pipework to shut off the fill into the harvesting tank, ensure it is correctly adjusted. There is a brass wing nut allowing the shut off position of the float to be adjusted. To save water it should be trimmed to ensure shut-off is 100% before the overflow level of the tank is reached. In instances where the tank gauge is thin ensure a backing plate is used to support the weight of the moving float valve from splitting the tank.

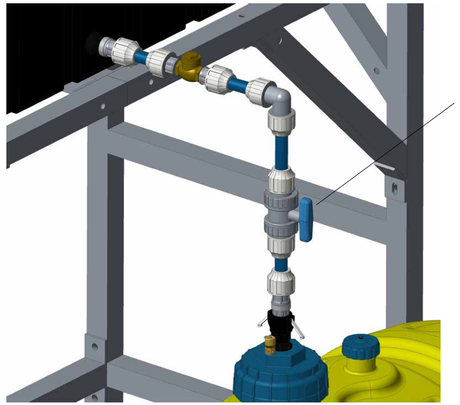
Note: The take-off from any harvesting tank should be 75mm MIN. from the bottom of the tank to allow sediment to settle. This sediment should be cleared from the tank as and when necessary to avoid it being drawn into the C2. A bottom drain point in the harvesting tank is useful for this use.

River water/reservoir systems – with/without harvesting tank
River water or reservoir sources can be manually bucketed or motor pumped directly into the C2 tank. Water can also be pumped first into a harvesting tank and set-up as discussed above. Due to the nature of river or reservoir water, we would recommend allowing the water to settle before transferring it into the C2 tank. This will allow the sediment to drop to the bottom of where it is contained. The cleaner water can then be used off the top of the container, and the turbid water at the bottom should be discarded. Due to the nature of river and reservoir water there is generally a higher level of turbidity and suspended debris in the water so we would recommend installing a cyclone filter and/or sand filter before the C2. We can recommend suitable filters on request. Please see C2i schematic drawing figure 31: page 35 for a typical installation.

IMPORTANT NOTES FOR ALL C2 INSTALLATIONS:

- Harvest tank maximum operational head pressure = 2250mm from the top of the C2 to the top of the harvested supply.
- Settlement tank and cyclone filter and/or sand filter fitted on influent for all river/reservoir installations. (Please contact your sales representative for further details).
- Maximum allowable influent turbidity = <15 NTU.
- See C2i schematic drawing figure 31: page 35 for an installation plan.

Figure 2



C2 OPTIONAL ITEMS

Stand Kit - CTR0051
A high-grade aluminium C2 stand kit, as per the LifeSaver stand drawing figure 20: page 24. Bolt together flat packaged assembly for ease of transportation. The stand kit is supplied with all required fixings and ground anchor bolts to fix the stand to the ground. Please see assembly instructions pages 23-26 for further details. Option to connect further optional harvesting tank stand or step kit.

Step Kit - CTR0050
A high-grade aluminium C2 step kit as per drawing figure 25: page 28. Bolt together flat packaged assembly for ease of transportation. The step kit is supplied with all required fixings and engineered to meet UK work at height regulations. Please see assembly instructions pages 27-29 for further details. The step kit is ideal for accessing the C2 in order to manually fill with water or for maintenance tasks. The step kit bolts directly to the stand kit.

- CANNOT BE USED IN CONJUNCTION WITH A RAINWATER HARVEST FRAME

Rainwater Harvest Frame - CTR0040
A high-grade aluminium rainwater harvest frame as per drawing figure 25: page 31. To be used when a harvesting tank is going to be used as a supply for the C2. The rainwater harvest frame allows for a tank of up to 750 litres capacity to be fitted with a footprint of 1850 x 800mm. Please see assembly instructions pages 31-32 for further details. Bolts directly to the stand kit.

- CANNOT BE USED IN CONJUNCTION WITH THE STEP KIT

Rainwater Harvest pipework Kit - CTR0055
MDPE pipework assembly kit terminated at 3/4” BSP tank fitting, pipework in Ø25mm MDPE to BS EN 12201. Includes associated components required to join the C2 to a header tank assembly. It allows detachment of the pipe work in seconds to readily allow easy access to the triple stage filter and tank. All fittings required included, pipework will need to be cut to length and assembled to suit each application.

Kit inventory as follows:

- 1 off quick release MDPE pipework assembly, see attached drawing figure 30: page 34.
- 1 off tank connector with 38mm hose tail – To enable connection of pumped water to harvesting tank. Or to act as an overflow for float valve shut off systems.
- 1 off 1/2” BSP Brass float valve – Harvesting tank feed shut off, to be fitted where supply allows auto shut off. 10 Bar maximum supply rating (please ensure supply pressure will not exceed this).
- 1 off PTFE tape – To be used on all threaded joints when assembling pipework.
- 1 off CTR0043 – Harvesting tank pipework top cap assembly, replaces standard top cap.
- 304 Stainless steel banding – For fastening harvesting tank to frame.
- 4 off S/S M8 Nuts and bolts – For fastening banding together.

C2 OPTIONAL ITEMS CONTINUED

Toolkit - PRD0060
Contains all the specialist tools required for the assembly of a C2 with optional frames and harvest pipework, kit inventory:

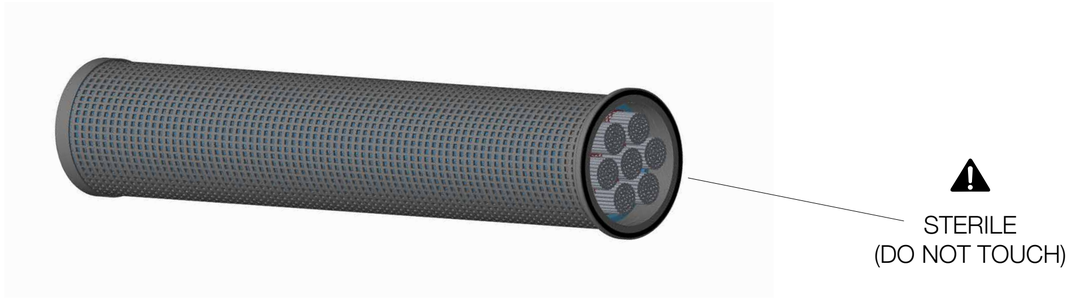
- 1 off general use 8” adjustable wrench.
- 1 off general use 300mm water pump pliers.
- 1 off 19mm spanner single – For assembling frames.
- 1 off 19mm ratchet spanner – For assembling frames.
- 1 off 42mm vinyl pipe cutter – For cutting adjoining harvesting tank pipework.
- 1 off hole saw set – For cutting apertures in harvesting tank.
- 1 off LifeSaver toolbox – To retain C2 specific tools for maintenance purpose.

FILTER ASSEMBLY - STEP 1

- Remove the transport cap from either the left or right port of the C2. (The centre port cannot be fitted with a filter).
- Ensure that the C2 tank is clean and free of debris.
- Remove the foil packaging from the filter assembly – Item 9 MAL0012.

CAUTION
- Handle each filter separately and carefully. Do not put the filters on the ground at any point during installation.
- Do not touch the open end of the filter - this area should remain sterile and is protected by a plastic cover that should remain in place until you are ready to start using the C2.

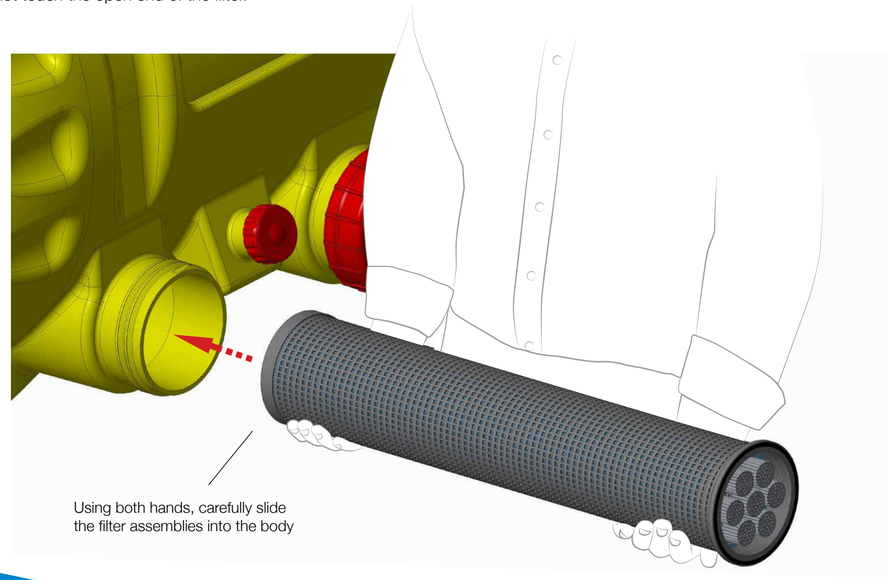
Figure 3



FILTER ASSEMBLY - STEP 2

- Supporting the filter assembly (MAL0012) with both hands, insert the filter into either the left or right port (The centre port cannot be fitted with a filter).
- Push the filter gently as far as it will go.
- CAUTION: Do not touch the open end of the filter.

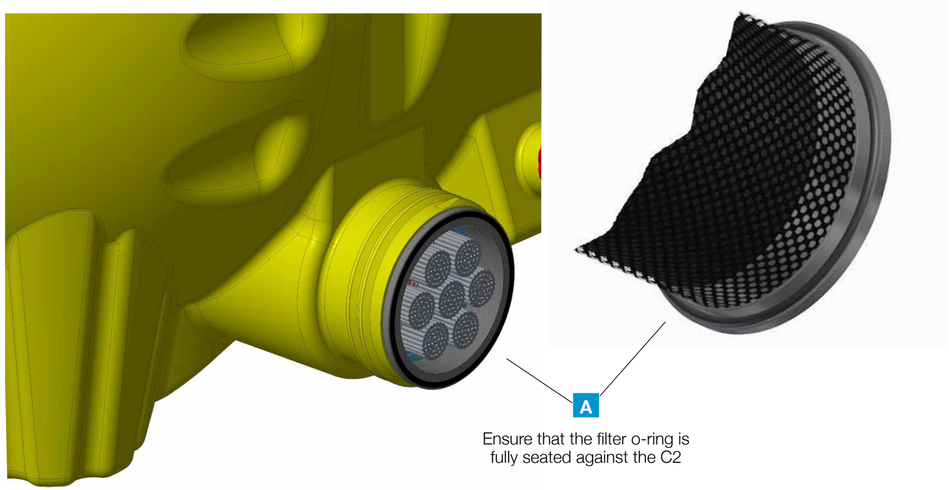
Figure 4



FILTER ASSEMBLY - STEP 3

- Position the filter so the o-ring abutts the tank as arrowed **A**
- You can now remove the protective plastic film from the face of the filter, avoid touching the sterile face of the filter.

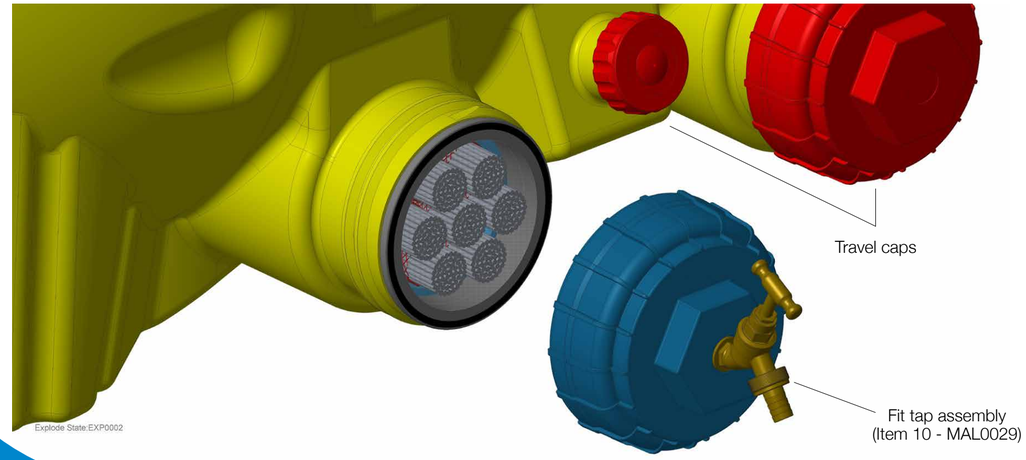
Figure 5



FILTER ASSEMBLY - STEP 4

- Fit tap assembly (Item 10 - MAL0029).
- Place the tap assembly over the end of the filter assembly and turn clockwise by hand until tight.
- CAUTION - Ensure the inside of the tap assembly is clean and avoid touching.

Figure 6



FILTER ASSEMBLY - STEP 5

- Using the supplied spanner (MAL0039) tighten the tap assembly (Item 10 MAL0029) as per figure 7.
- After tightening the tap assembly you may need to realign the taps into a vertical position, rotate them as required to straighten. As per figure 8.
- CAUTION: Do not overtighten the tap assembly (Item 10 MAL0029).
- Repeat for the opposite side filter installation.

Figure 7

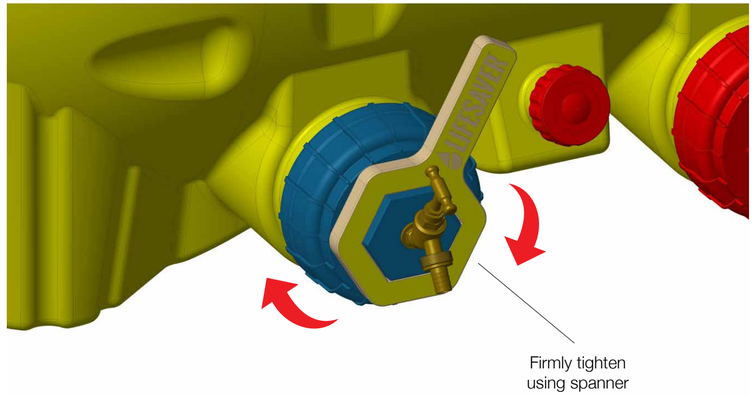
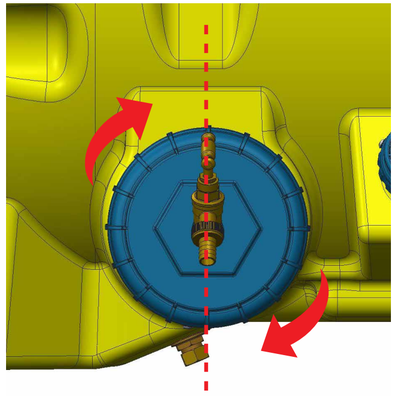


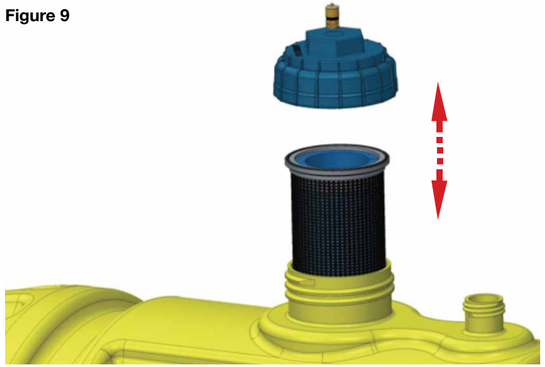
Figure 8



TRIPLE STAGE FILTER AND TOP CAP ASSEMBLY/DISASSEMBLY

- Assemble the triple stage filter and top cap into the C2 as per figure 9. Where a harvesting pipework kit is to be fitted use the supplied top cap with quick release pipe fitting as per figure 10.
- Use the supplied spanner (MAL0039) to tighten the top cap. Insert pipework into top cap socket and pull down locking arms to clamp as per figure 10.
- The removable triple stage filter can be taken out for cleaning when necessary. Where pipework is fitted disconnect as per figure 10.
- Unscrew the top cap (Item 6 – CTR0025) using the supplied spanner (MAL0039) and withdraw the filter from the tank as per figure 9.

Figure 9



- The filter can be broken down for efficient cleaning. Remove the mesh liner **D** complete with blue foam inside the outer basket. Once separated from the outer basket, remove the foam **E** from the mesh liner as per figure 11.
- All parts should be cleaned of silt, debris and any other contaminants. The meshes are designed to be backwashed for ease of cleaning.
- Reassemble the triple stage filter, top cap and pipework (if fitted) by reversing the disassembly process.
- CAUTION: Do not over tighten the top cap.

Figure 10

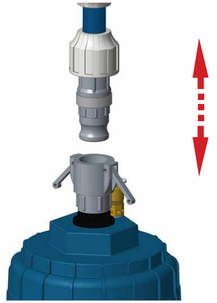
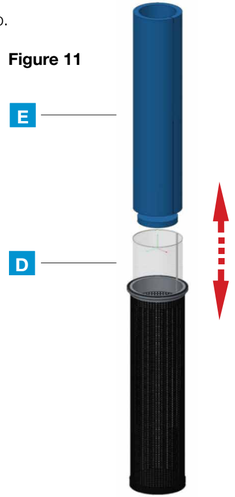


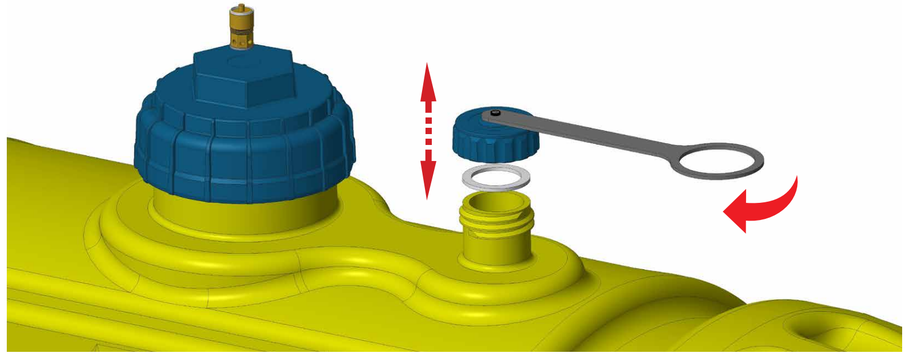
Figure 11



VENT CAP ASSEMBLY/DISASSEMBLY

- Fit the vent cap strap over the thread of the vent tube on the C2 to retain the cap.
- Fit the white flat seal into the vent cap and screw the vent cap up tight to seal the C2.
- The white flat seal is not retained so please be careful not to lose the seal when removing the vent cap.

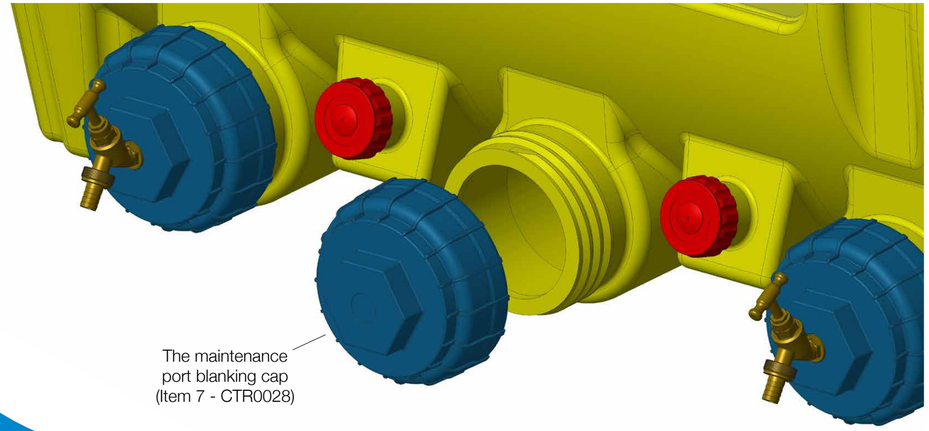
Figure 12



CENTRE MAINTENANCE PORT

- Remove the transport cap after delivery and replace with the maintenance port blanking cap (Item 7 - CTR0028).
- The centre cap can be removed to gain access to the tank without having to disturb the filters and risk introduction of bacteria to the clean side of the filter. You can tighten/loosen the cap with the supplied spanner (MAL0039). Use this port in conjunction with the drain ports underneath to wash the tank out periodically.
- The maintenance port blanking cap (Item 7 - CTR0028) uses a retained black rubber seal. Ensure this seal is clean and free of tears or splits whenever the port is used.

Figure 13



LOWER DRAIN PORTS

- Two lower drain ports are positioned at the bottom of the C2 for flushing the tank out. To drain the tank simply remove the screw cap as per figure 15. Be careful to retain the black rubber seal inside the cap. Ensure the seal is clean and free of tears or splits whenever the drain ports are used.

Figure 14

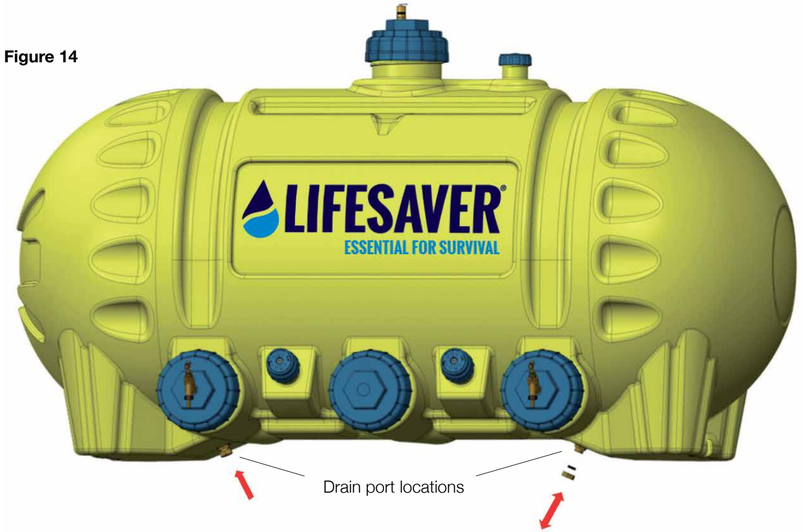
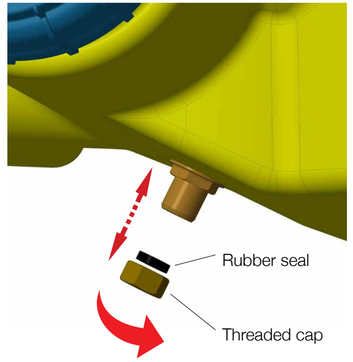


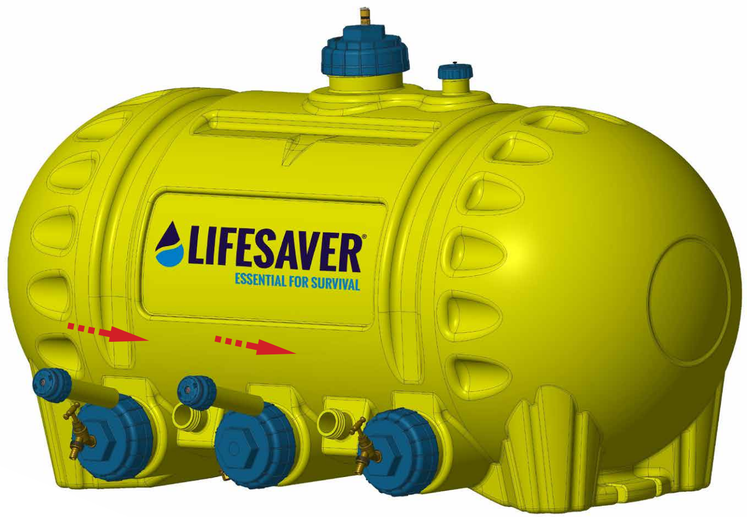
Figure 15



PUMP INSTALLATION

- Remove transport caps after delivery from pump housings.
- Fit the two pumps supplied as shown.

Figure 16



ANTI-TAMPER LOCKING SCREWS

- Once the tank has been filled, primed and you are happy there are no leaks, use the screwdriver caps and bit insert provided to tighten the safety screws on both caps **A** and pump handles **B** as pictured in figures 17 & 18.

Figure 17

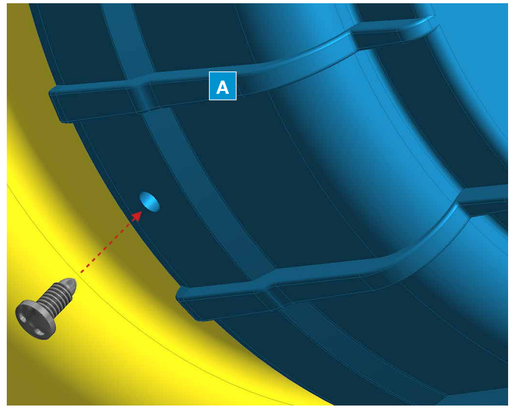
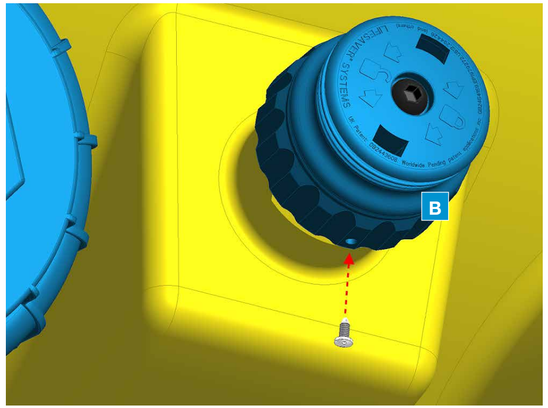


Figure 18



PRIMING THE LIFESAVER® C2

Priming is an essential step that must be performed within 3 years from the date of manufacture and before you start to use the C2 to drink from. The filter membranes are infused with glycerine during the manufacturing process to keep them hydrated up until the C2 is primed. During priming you are flushing water through the filters, which removes this glycerin. Glycerine is a natural food source and whilst the presence of glycerin is not harmful, you should not drink the water used for priming. It is imperative to follow the priming instructions to ensure that you flush all of the glycerin from the C2; this will mitigate the risk of bacteria forming on the output side of the filter.

Ensure that the C2 has been assembled in accordance with the information detailed in this C2 instruction manual.

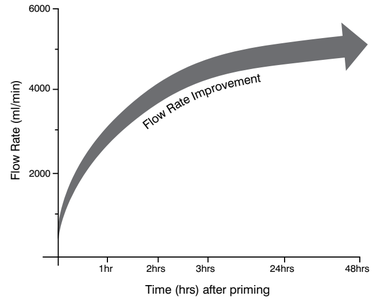
Priming the C2 – Before first use

1. Ensure each of the two filter taps are in the off position.
2. Remove the top cap assembly (or open pipework) and fill the tank with 300 litres of the cleanest water available through the triple stage pre-filter. This will roughly be when the water level is level with the LIFESAVER® logo on the front panel.
3. Screw the top cap assembly back onto the tank (or close off pipework); check the vent cap has been tightened. Allow at least an hour for the water to soak into the filters.
4. After soaking remove the drain plugs from the underside of the C2 (Page 17) and leave the C2 to drain completely for 2 hours.
5. Repeat steps 2-4 once again.
6. Now fill the tank to within 30cm of the top, replace all caps and tighten. Pressurise the system by using the two hand pumps on the front of the C2 (or use the head pressure from the harvest tank). When full pressure is reached by operating the hand pumps you will hear the pressure relief valve on the top cap hissing.
7. Open both taps simultaneously and allow the water to drain away, re-pressurising the tank using the hand pumps as necessary. Flow will improve gradually as more water is passed through the filters. Please see explanatory flow-graph below (Figure 19).
8. Once you have flushed a full tank through the filters, close the taps. Open the drain ports on the underside of the C2 (Page 17) and leave the C2 to drain completely for a further 2 hours. This allows any remaining glycerine rich water from the filters to completely drain also.
9. During these flushing cycles check all the o-ring seals for any signs of leaking.

The C2 is now primed and ready to be filled with water for on-going use.

10. IMPROVED FLOW RATE OF THE LIFESAVER C2 OVER TIME

Figure 19



SYSTEM CHLORINATION

To reduce the risks of bacteria forming on the output side of the system you should perform a system chlorination, particularly with installations in:

- Medical Centres
- Field Hospitals
- High infection areas

This should be conducted immediately after the system has been primed, and thereafter whenever the filtration side of the system has been opened.

System chlorination process:

- Fill the LifeSaver C2 with a minimum 400ltrs of the cleanest water available.
- Dose this water with chlorine to achieve a total of 50PPM of chlorine throughout the system.
- Pressurise the system.
- Open both the taps fully and allow water to flow until 50ppm of chlorine has been detected.
- DO NOT ALLOW THE WATER TO BE DRUNK.
- Turn the taps off.
- Allow the system to stand for a minimum of 60 minutes and no longer than 90 minutes.
- Empty the remaining water through the taps then drain the tank using the drain ports as per figure 15: page 17.
- Fill the LifeSaver C2 with fresh water and flush through until the chlorine is removed.
- The system is now ready for use.

CHECKLIST

- [ ] Stand and C2 tank are 100% level and securely fastened.
- [ ] All seals and o-rings have been checked, no air or water leaks are apparent when LifeSaver C2 is pressurised.
- [ ] De-brief and local training completed and signed off.
- [ ] Any integration pipe work is fully installed and without leaks.
- [ ] Both C2 taps discharge at the same rate when fully open.
- [ ] GPS coordinates are logged and site photographed. Record these details against the serial number of each unit below.
- [ ] LifeSaver C2 brass taps operate easily, opening and closing correctly.
- [ ] Anti tamper screws on the tap and filter housing are installed and tightened.

INSTALLATION RECORD INFORMATION

Serial number

GPS coordinates

Engineers name

Date of installation

Signature of installation engineer

ASSEMBLY OF OPTIONAL LIFESAVER® STAND

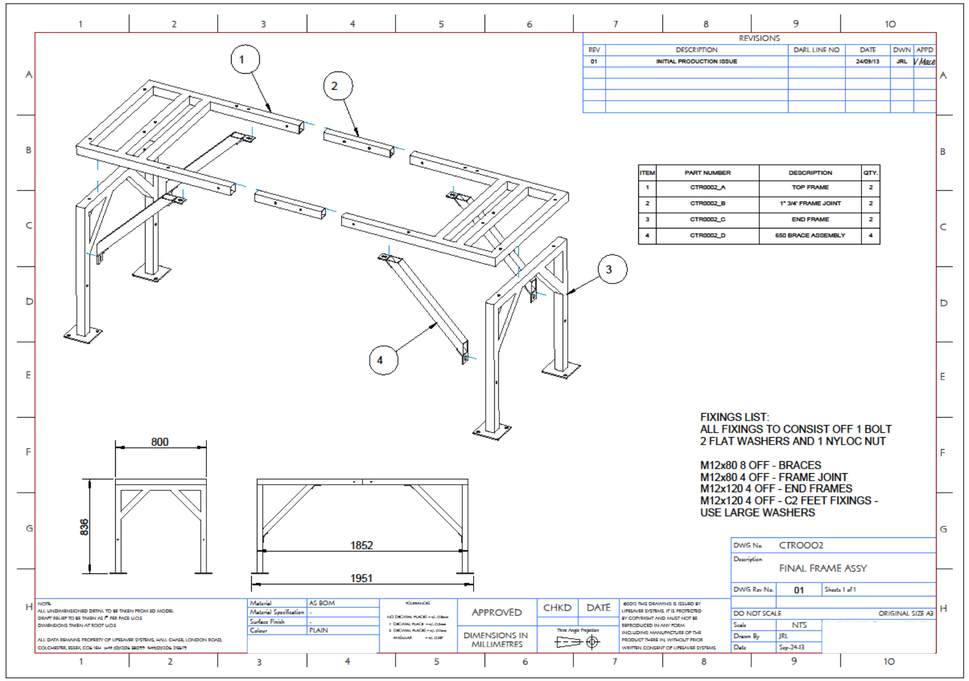
If you have purchased the optional stand it will arrive flat packed and will need to be assembled.

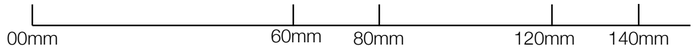
The following procedure details the method of assembly.

Where possible the assembly should be carried out on a flat surface.

Refer to assembly drawing as shown in figure 20: page 24.

Figure 20





Use for measuring bolts (1:1). Only use when document is printed at 100%.

- Lay the left hand frame item 1 and the right hand frame item 1 on the ground, slide the two frame joints item 2 into the left hand frame section.
- Loosely insert the fixing screws through the holes and secure using a nyloc nut, do not tighten up at this stage. Adopt the format as shown in figure 24: page 26 when fitting the fasteners.
- Slide the right hand base section onto the frame joint previously inserted into the left hand base section, secure in place with the fixing screws and nyloc nuts.
- With the base top frame now assembled slide one of the end frames item 3 under the base frame assembly as figure 21 and loosely fit the 2 off connecting screws M12 x 120 , nyloc nuts and washers.
- Lift the frame up until horizontal and fit the remaining end frame support as shown in figure 22 below.

Figure 21

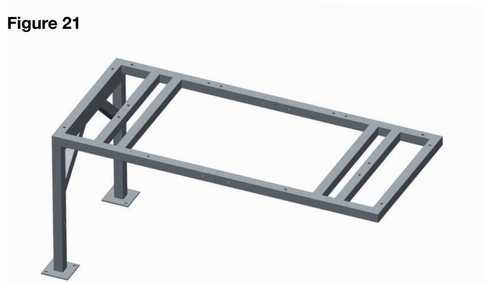


Figure 22

- Fit the 4 off brace assemblies item 4 as shown in figure 23 using the fasteners (8 off M12 x 80 screw, nyloc nuts and washers).
- Tighten all of the screws starting with the leg supports.
- Finally bolt the stand to the ground using the ground anchor nuts.

Figure 23

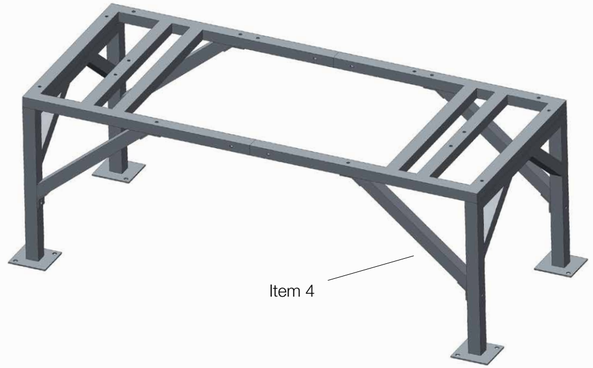
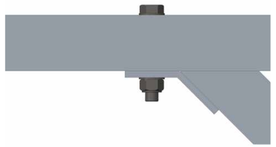


Figure 24



NOTE:
Once fully assembled and tightened the stand should be bolted down using the holes provided in the base plates.

ASSEMBLY OF OPTIONAL LIFESAVER® STEPS

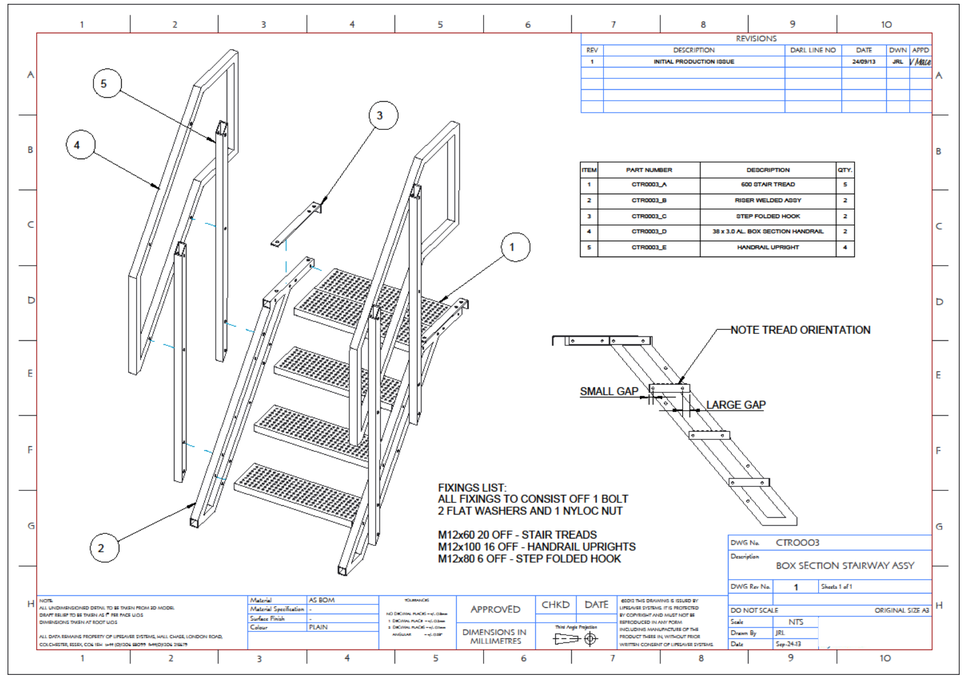
If you have purchased the optional steps they will arrive flat packed and will need to be assembled.

The following procedure details the method of assembly.

Where possible the assembly should be carried out on a flat surface.

Refer to assembly drawing as shown in figure 25: page 28.

Figure 25



ASSEMBLY INSTRUCTIONS

- Assemble the L/H handrail Item 4 onto handrail upright item 5 in 2 positions using 4 off M12 x 100 bolts and 8 off M12 washers and 4 off M12 nyloc nuts, ensure the nuts appear on the outside of the handrail.
- Repeat for the R/H handrail.
- Assemble the treads Item 1 to the riser assembly item 2 using 20 off M12 x 60 bolts 40 off M12 washers and 20 off M12 nyloc nuts, assemble with the nuts hidden under the step.
- Assemble the step folded hook item 3 onto the riser assembly item 2 using 2 off M12 x 80 bolts 4 off M12 washers and 2 off M12 nyloc nuts.
- Repeat for the opposite side.
- It will be easier to fit the step assembly onto the base frame at this point prior to fitting of the L/R hand rails.
- Use 2 off M12 x 80 bolts , 4 off M12 washers and 2 off M12 nyloc nuts.
- Fit the L/H Hand Rail Assembly to the riser assembly in 4 positions using 4 off M12 x 100 bolts , 8 off M12 washers and 4 off M12 nyloc nuts.
- Ensure the nuts appear on the outside of the handrail.
- Repeat for the R/hand rail assembly.
- Ensure all nuts are fully tightened before using the steps.

OPTIONAL LIFESAVER® HARVESTING TANK FRAME

If you have purchased the optional LifeSaver harvesting tank frame it will arrive flat packed and will need to be assembled.

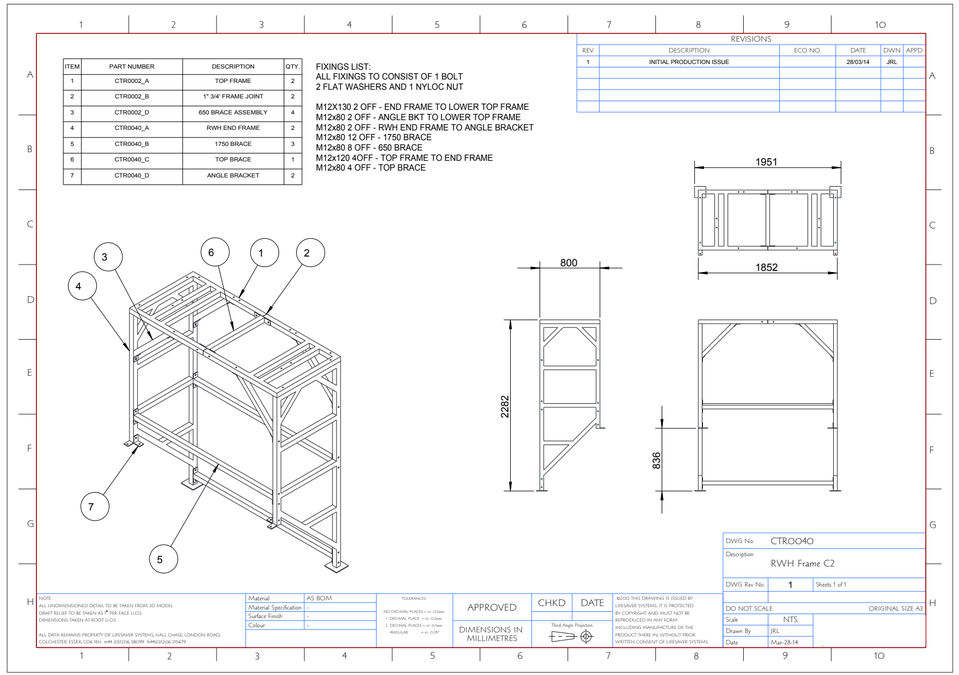
The following procedure details the method of assembly.

Assembly is a two person job.

Where possible the assembly should be carried out on a flat surface.

Refer to assembly drawing as shown in figure 26: page 31.

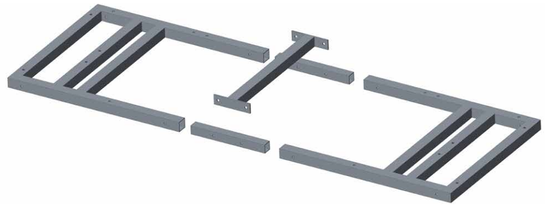
Figure 26



ASSEMBLY INSTRUCTIONS

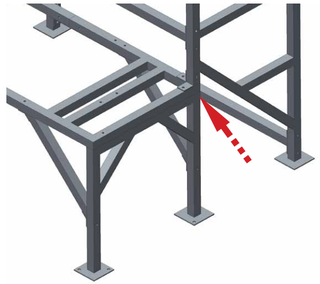
- Once the base frame CTR0002 is assembled CTR0040 can be added to support a harvesting tank that is fed by pump, rain water gutter, tap or any other water source that can be piped in.
- The frame must be fitted on a level strong base capable of loads up to 1600kg. It is recommended to loosely fit all bolts first and then tighten once all are fitted. Bolts should comprise of 1 bolt with a washer both sides and a nylon lock nut. See figure 24: page 26.
- CTR0040 should be assembled by first removing the rear most bolts holding the top frame to the end frame on CTR0002 base frame as pictured in figure 28.
- Fit the end frames item 4 using M12 x 130 fixing through the extended bracket that matches to the exposed hole in CTR0002, arrowed figure 28.

Figure 27



- Keep both end frames supported until item 5, 1750 braces are all fitted to hold the frames vertically together use M12 x 80 fixings.
- Assemble the top frame components 2 off Item1, jointed with 2 off Item 2 and top brace item 6 as pictured figure 27 use M12 x 80 fixings. This should then be fitted on top of the end frames item 4, bolting in place loosely with M12 x 120 fixings.
- Fit corner braces item 3 with M12 x80.
- Tighten all nuts and bolts and ensure the feet are level and grounded. The unit can now facilitate a harvesting tank to a maximum capacity of 750 litres. This should be fixed in place on the upper top frame using the stainless banding and corresponding M8 nuts and bolts supplied.

Figure 28



PIPEWORK ASSEMBLY INSTRUCTIONS

Pipe and fitting preparation

- Cut the pipe square and remove any burrs.
- Unscrew the nut to the last thread and leave it on the fitting.

Pipe Insertion

- Twist the pipe into the fitting up until the first stop. The pipe has then reached the pipe guide and seal. The pipe guide aids pipe insertion ensuring that the seal is correctly located
- Push the pipe through the pipe guide and seat until it reaches the stop within the body.

Pipe size	Insertion depth
25mm	55mm

Screwing the nut

- Tighten the nut by hand.

Figure 29

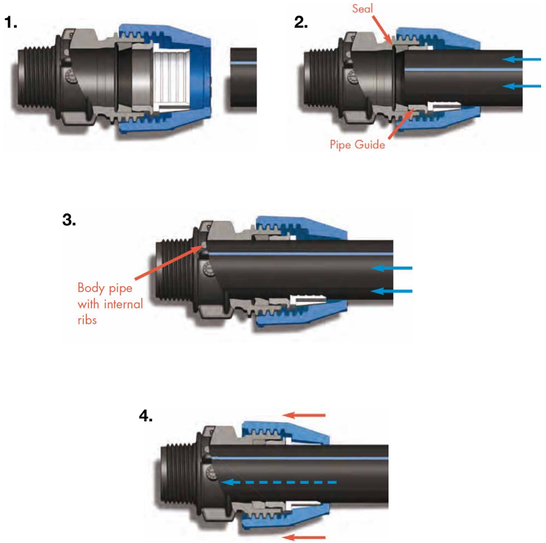


Figure 30 - Quick release pipework kit - CTR0055

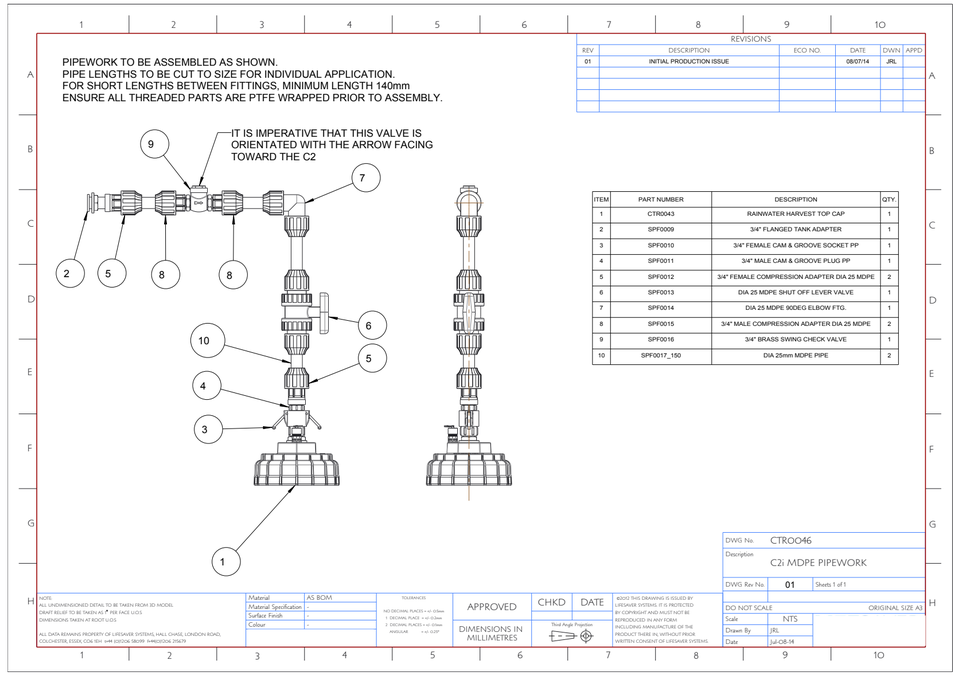
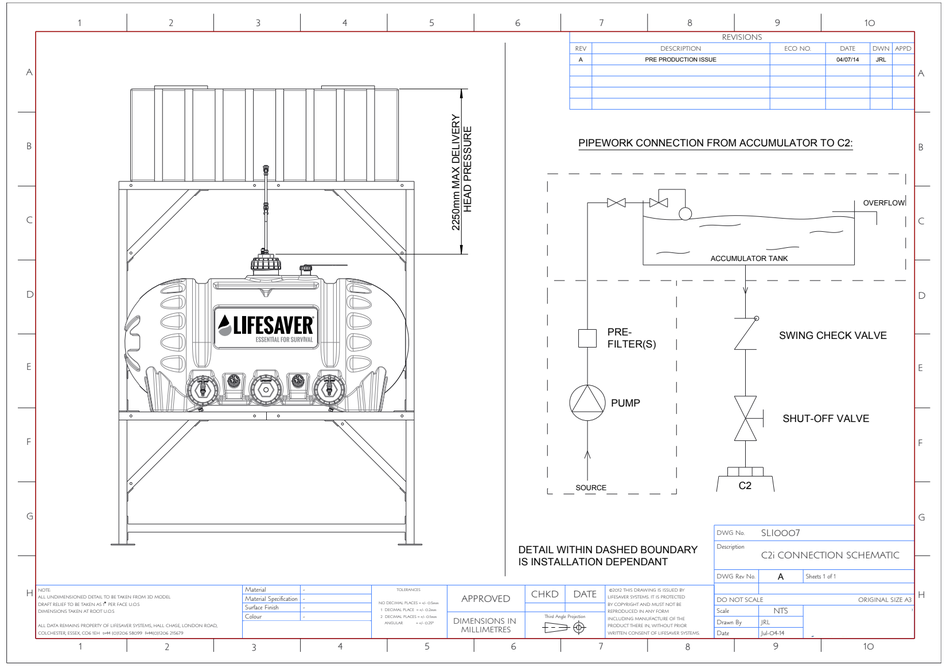
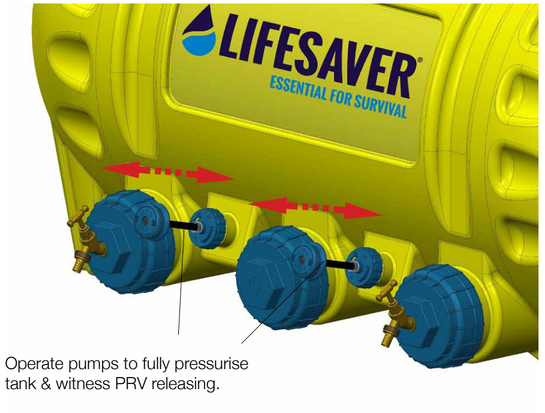


Figure 31 - C2i connection schematic



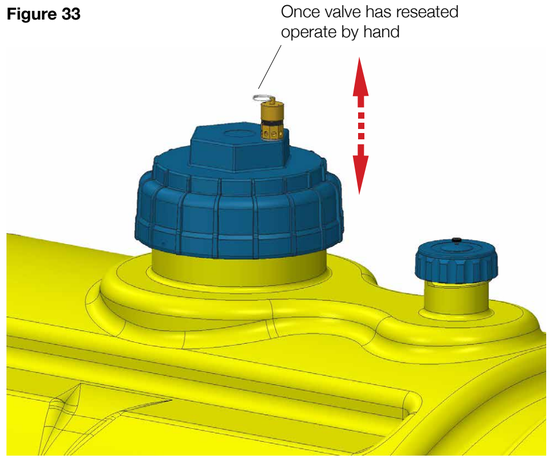
C2 SERVICE REGIME

Figure 32



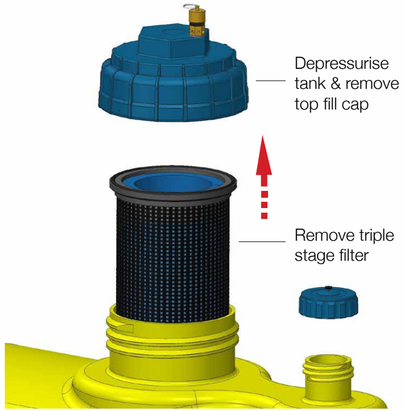
1. Check safe operation of pressure relief valve (PRV) in the top fill cap by fully pressurising the C2 tank with the hand pumps and witnessing the PRV release at the set pressure.

Figure 33



2. Operate the PRV by hand using the ring pull and ensure a smooth operation. Remove any debris or dirt from around the PRV release face.

Figure 34



3. Release all pressure. Remove the top fill cap and extract the triple pre-stage filter. Back wash the debris basket and mesh liners with clean water to remove any algae and mildew. Replace with new blue foam pieces. Check both o-ring seals on the debris basket for any splits/cracks etc. Replace as necessary.

Figure 35

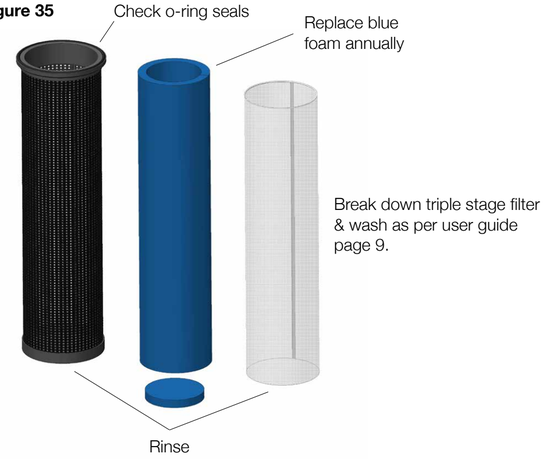
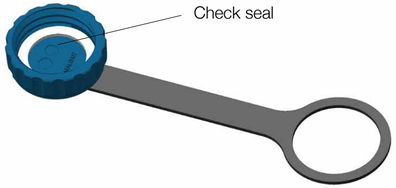
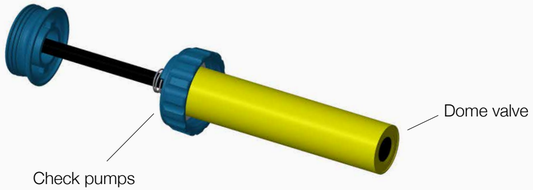


Figure 36



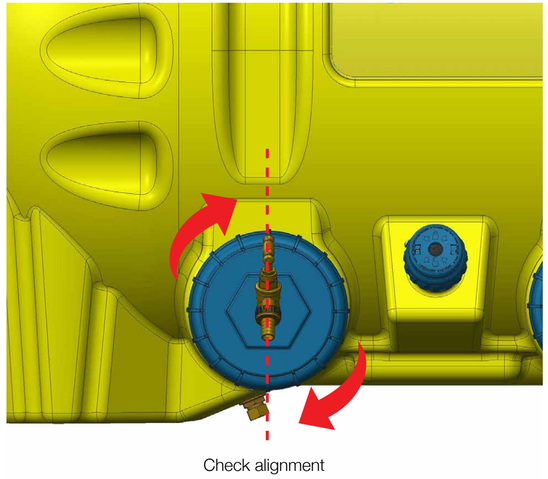
4. Remove vent cap and make a visual check of the flat seal. Check for any splits/cracks etc. Replace as necessary.

Figure 37



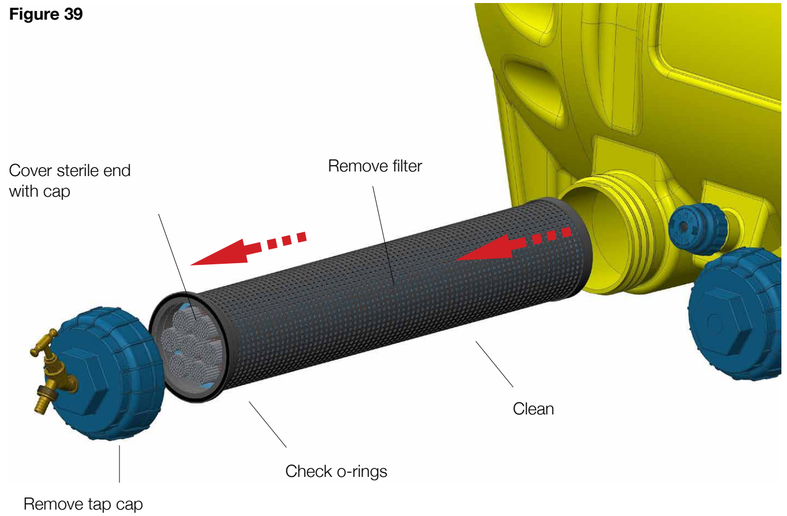
5. Check operation of hand pumps are smooth and fully functional. Remove the pumps and visually check and externally clean the pumps. Replace the dome valve with parts from the spares kit as a matter of course. If there are any defects with the pumping mechanism replace the complete pump assembly.

Figure 38



6. Check alignment of taps. If re-alignment is required, do so carefully by twisting the tap. Check operation of all taps, ensuring they shut off and open correctly. If a tap is faulty replace with a complete tap cap assembly.

Figure 39

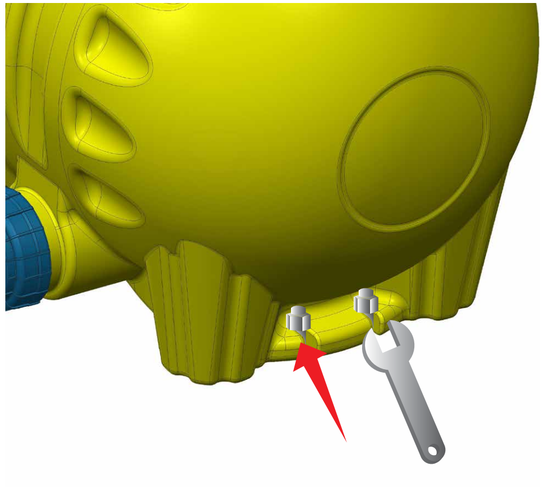


7. Drain the tank using the drain ports as per figure 15: page 17. Remove tap cap assembly (clean these whilst removed) and use filter end caps to cover the sterile open end of the filter. Carefully remove the filter from the tank and soak in clean water. CAUTION: DO NOT ALLOW THESE FILTERS TO DRY OUT. Agitate the water to clean the filter of any mildew and algae. Rinse thoroughly. Check the two o-rings at the sterile end of the filter for any splits/cracks etc.A faulty o-ring will require the filter assembly to be replaced completely. Allow the filter to stand and drain in the shade for 1 hour before re-fitting. After refitting the filter into the tank remove the end cap fitted earlier and use a suitable anti-bacterial wipe/spray on the face before re-fitting the tap cap assembly.

Figure 40

8. When the filters are removed and top fill cap and debris basket are also removed, the tank should be cleaned internally. Wash the tanks out with as clean a water source as possible using a sponge or alike accessing the tank through the filter ports to scrub any algae or mildew. Wash through thoroughly.

Figure 41



9. Check fixings that secure the C2 tank to the stand and ensure the nuts and bolts are tight. Make a visual inspection of the stand structure and in particular the footing of the stand to check for subsidence or land slip.

CONTACT INFORMATION

If you have any questions about the use of the LifeSaver C2 or if you wish to purchase any additional parts, please contact us.

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