



Set Up and User Instructions for the MazWell® Single and Twin Motor Pump Units:

Suggested Equipment List:

The following list of suggested equipment allows for full and complete use of your Single or Twin Motor Pump Unit. Each set up can be customised to the individual needs of the end user and can be discussed with your MazWell® Representative.

Motor Pump Units:

MazWell Standard Twin Motor Pump
Item No: 709411

MazWell Standard Single Motor Pump
Item No: 709406

Injection Equipment:

10 litre pressure tank
Item No: 705544

5 litre pressure tank
Item no: 705545

Complete set of 9 taper fit arterial tubes

Item No: 707734

Set comprises of curved carotid tube, large curved tube, medium curved tube and small curved tube. Large straight arterial tube, medium straight tube, small straight tube, baby straight tube, maxillary straight tube, female taper socket, male taper plug and male taper adaptor.

Female Taper Socket
Item No: 707735

Male Taper Plug
Item No: 707736

Male Taper Adaptor
Item No: 707736

White Nylon Connector
Item No: 709316

Set of Plastic Injection and Drainage Tubes
Item No: 708950

(The white nylon connector and male adaptor can be used to make a connector fitting for the use of plastic injection tubes. The male taper adaptor is connected to a small length of injection drainage hose (item 761980) which is pushed onto the barbed end of the adaptor. The white nylon connector is pushed firmly into the other end. This will then connect to the female taper socket and allow for use of plastic tubes when needed.

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3 hole fixation forceps
Item No: 702894

2 Hole fixation forceps large
Item No: 702564

2 Hole fixation forceps Medium
Item No: 702565

2 Hole Fixation Forceps baby/ maxillary
Item No: 702566

UK Hypodermic Trocar Kit Complete
Item no: 706318

Aspiration:

2 litre aspiration jar
Item No: 705845
(2 recommended to protect pump from ingress of liquids)

Carry Cradle for 2 litre aspiration jars
Item No: 705475

4 litre aspiration jar
Item No: 705942
(2 recommended to protect pump from ingress of liquids)

6 meters of 14h injection/ drainage hose
Item No: 761980 (sold per meter)

18" trocar complete with cap and point
Item No: 706092

22" trocar complete with cap and point
Item No: 706095

Chuck Action Trocar Handle
Item No: 706098

UK Autopsy Aspirator
Item No: 701174

UK Nose and Throat Aspirator
Item No: 708811

Spare Tip for UK Nose and Throat Aspirator
Item No: 708811

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Metal Cavity Injector (complete with tubing and bottle)

Item No: 703577

Or

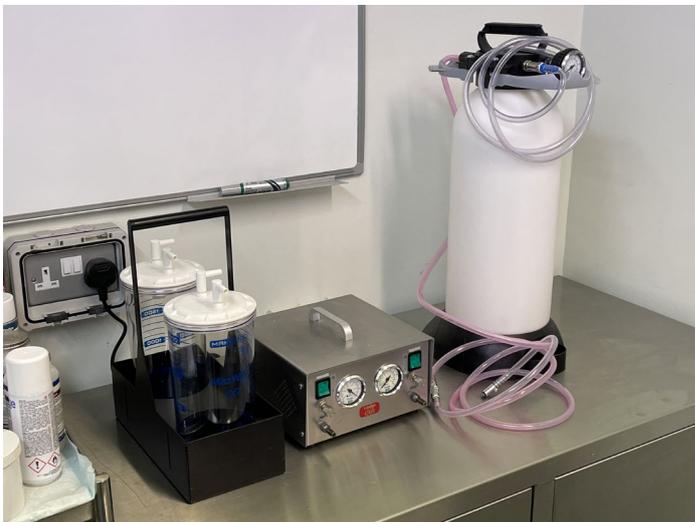
Evolution Cavity Injector with 7" Adaptor

Item No: 703420

5" Adaptor for Evolution Cavity Injector

Item No: 703425

Set Up Instructions, Injection:



The selected equipment is removed from its packaging and placed into its final position. In this case, on a fixed worktop within the embalming room. A mobile equipment trolley will also work very well. Here we see a twin motor pump, 10 litre pressure tank and dual 2 litre aspiration jars, in a carry cradle. The power cord should be removed from the box, plugged into the back of the Twin Motor Pump and then connected to a suitable electrical supply.

The Twin Motor Pump features dual pump motors allowing injection and aspiration tasks to be performed at the same time. The outlet side of the pump unit will connect to the pressure tank for injection procedures. The Inlet side of the pump unit will connect to the aspiration jars for all aspiration procedures. Please note that no fluid should be run through either side of the unit.



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The front of the pressure tank features a pressure line, which is connected to the inlet of the pump unit and a pressure gauge. The pressure line also features a non-return valve to prevent ingress of fluid into the pump. The back of the pressure tank has a solution line and a pressure relief valve. The pressure relief valve with open at 3 bar/ 45psi.



To connect the pressure line of the pressure tank, to the outlet side of the motor pump, take the pressure line and immerse the end of it in hot tap water for a minute or two. This will soften the tube and make it easier to fit over the outlet connector.

Firmly push the pressure line on to the outlet connector of the motor pump. The pressure line should overlap by approximately 1cm to ensure a good fit and no risk of disconnecting during use.



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Once the pressure tank is connected to the motor pump, take the end of the solution line and immerse it in hot tap water for a minute or two and prepare to install the Female Taper Fit socket. The solution line should be pushed over the connector part of the Female Taper Fit Socket until the fourth ring is covered. This will ensure a secure fit that will not come loose. The Female Taper Fit Socket allows for the quick fitting of different arterial tubes as well as injection equipment like hypo trocars.

Taper Fit arterial tubes are easy to use once the Female Taper Fit Socket is in place. To attach an arterial tube, simply push it into the socket and twist. To remove an arterial tube, simply twist and pull it from the socket. Connected properly, the arterial tube will not come loose during use, until the embalmer is ready to change it.



For the connection of special items like Hypo Trocar valves, cut a small length of the injection/drainage hose (between 10cm and 15cm). Apply one end of the hose to the barbed fitting of the Hypo Trocar Valve and the other end to the barbed fitting of a Male Taper Fit Connector. A similar connector can be made with a white nylon spigot if the embalmer wishes to use plastic injection tubes.

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To fill the pressure tank with chemicals for injection, remove the central handle and plunger from the centre of the unit. Add the water to the tank first and then add the required arterial and co-injection chemicals. Once the required chemicals and water have been added, replace the central handle and plunger and ensure they are closed tightly to create a good seal. You may wish to shake the tank slightly to ensure everything is mixed prior to injection.



When you are ready to start injection, turn on the motor pump by the green rocker switch. The pressure can be adjusted by using the bleed valve underneath the rocker switch. Turning the valve to the right will increase the pressure. Turning the valve to the left will decrease it.



When injecting arterial fluid, the rate of flow can be controlled using the stop tap in the solution line. We also recommend the use of a smaller arterial tube to restrict flow. We always suggest the use of high pressure and low flow rate when injecting arterial fluid. This ensures good tissue penetration and even distribution of arterial chemicals.



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When injection is completed, turn off the motor pump, open the bleed valve, ensure the stop tap is closed and then release any pressure built up in the pressure tank by pulling the green pressure release valve. The tank should be de-pressurised after each use.

The MazWell Pressure Tank is fitted with a manual pump handle, that can be used to generate pressure in the event of a mechanical failure of the motor pump, electrical supply issues or in cases of remote working, such as in house cases. The handle is unclipped from the holder and raised and lowered repeatedly to create the desired pressure. As fluid leaves the tank, the pressure in the tank decreases and the handle must be pumped again to build up the required pressure.



The MazWell® Twin Motor Pump and Pressure Tank have been designed and built to provide years of trouble-free service. After use, we recommend that the Pressure Tank is emptied of any residual fluid and periodically rinsed out to avoid build-up of any chemical residues. The outside of the tank, pressure line and solution line should be wiped down using a MazWell® Disinfectant Wipe or damp cloth, soaked in a solution of MazWell® Disinfectant Concentrate. The outside casing of the Twin Motor Pump, On/ Off Switch and Bleed Valve should also be wiped and kept clean. When not in use, we recommend that the unit is disconnected from the electrical supply.

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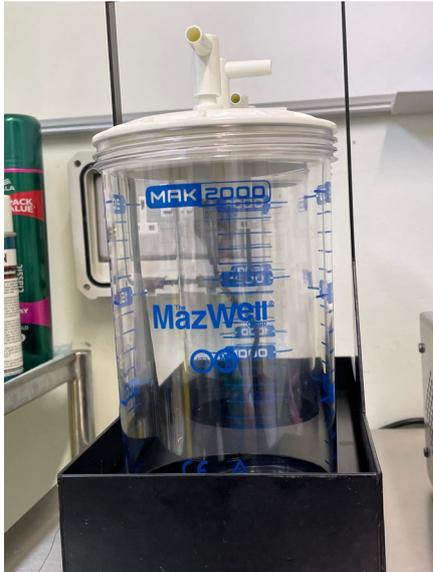
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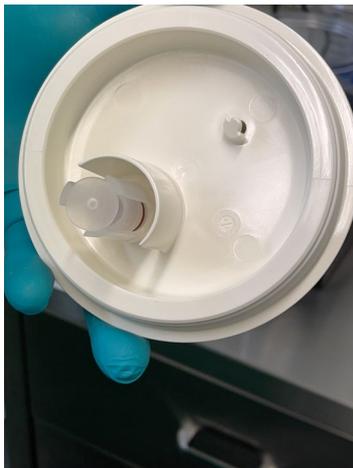


Set Up Instructions, Aspiration:

When used with either 2 litre or 4 litre aspiration jars, the MazWell® Twin Motor Pump generates suction for aspiration tasks. The jars collect all fluids and materials aspirated from the body and form a barrier between the instrument and the pump unit. We recommend that two jars be used and that the second jar is always only ever half filled. This further protects the motor pump from ingestion of foreign materials.



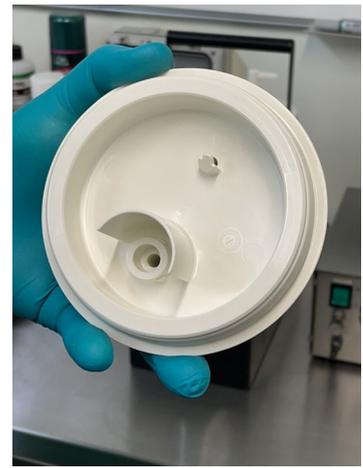
Unwrap the jars from their packaging and remove the instruction guide from within the jar as well as the 2 x plastic connection elbows. If using the 2 litre jars, we recommend the use of a jar cradle for stability. Place the jars into the cradle and prepare to connect the required suction tubing.



To allow the jars to be mounted in parallel, so that one fills and then the second jar fills, remove the safety shut off float from the first jar.

The safety shut off valve should be left in place in the second jar. Please note that whilst these valves are intended to help prevent pump ingestion, they will not guarantee against it.

This applies to the 4 litre aspiration jars as well.



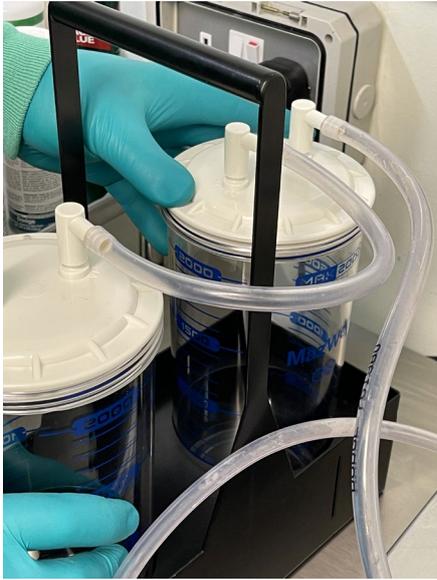
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Cut lengths of suction hose to attach the two aspiration jars together. The first piece of hose runs from the first jar, to the second jar. The second piece of hose runs from the second jar to the inlet port of the Twin Motor Pump. The suction hose running from the outlet of the second jar should be connected to the outlet with the safety cut off valve. This helps to prevent ingress of fluids into the motor pump.

To attach the suction hose to the motor pump inlet, first warm the hose in hot water. This will make it easier to push onto the fitting. Ensure a tight fit by making sure at least 1 cm of the suction hose overlaps with the inlet connector.

Cut the required length of suction hose and attached one end to the white elbow of the first aspiration jar. We recommend a length of 3 to 4 meters for ease of movement and use.

Heat the end of the hose in hot water and then apply a Female Taper Fit Socket. Ensure a secure fit. This will allow you to make quick connects/ disconnects to all aspiration instruments for ease of use.

Follow the instructions for injection set up, for additional instruments (Hypo Trocar Valve) to make quick connects for your trocar, autopsy aspirator, nose and throat aspirator as required.



Examples of quick connect fittings made for the Trocar, Autopsy Aspirator and Nasal and Throat Aspirator. These fittings allow for quick change of instruments, without damaging and stretching the suction hose leading to poor connections and seals.

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To use the Twin Motor Pump for aspiration, turn the unit on by the green rocker switch at the top left-hand side of the pump face. Use the bleed valve to increase or decrease the vacuum pressure of the pump. Turn the bleed valve to the right to increase vacuum pressure and the left to decrease it. The vacuum pressure will be shown on the left-hand pressure gauge. For atrial drainage you may wish to reduce the vacuum pressure so as not to collapse the atrium before all drainage is evacuated. For general aspiration use maximum vacuum pressure. Once aspiration is completed, turn the bleed valve to the left to release the vacuum pressure in the jars prior to emptying and cleaning.

Once used for aspiration, a disinfectant solution should be drawn through the suction hose. This will clean the inside of the hose and keep it free of any build-up of residues. Trocars and other aspiration equipment should be cleaned and disinfected after each use. A trocar brush should be used to ensure there is no build-up of residue inside the barrel of the Trocar. A dirty Trocar can be a risk of transferring bacteria responsible for 'Tissue Gas' to other remains if disinfection is not thorough and completed after every use.

The aspiration jars should be emptied after each use and cleaned and disinfected. Prior to aspiration MazWell Disinfectant Concentrate should be added to each jar. This will disinfect the aspirated material prior to its disposal in clinical waste or down the sanitary sewer. For a 2litre jar, add approximately 300mls of concentrated disinfectant. For 4litre jars, add approximately 600mls of concentrated disinfectant.



We offer a 4litre aspiration jar for increased capacity during aspirating procedures. This is very useful for cases with oedema, asities and autopsy cases.

For smaller facilities and less frequent use, we offer a 5litre pressure tank. This is also idea for trade embalmers who must travel with equipment. This functions in exactly the same way as the 10litre pressure tank and instructions for set up and use are as above.



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We are pleased to offer the MazWell® Single Motor pump as an alternative to the Twin Motor Pump unit. This pump may be used when either pressure or suction is required, such as in a facility where a pressure tank is used for injection and Hydro Aspirator for aspiration. If an embalming machine is used, the Single Motor Pump unit can be used for aspiration.

To use the single Motor Pump unit, remove the unit from the packaging, remove the dust cover caps from the inlet and outlet ports and connect the unit to a suitable electrical supply. Connect the pressure tank to the outlet side of the unit and the aspiration equipment to the inlet side of the pump.

For injection, turn the bleed valve of the inlet side to the left and open position. Turn the unit on and set the required pressure using the bleed valve on the outlet side of the unit. The pressure gauge will show the pressure. Carry out the injection of arterial chemicals as required.

For aspiration, turn the bleed valve on the outlet side to the left and open position. Turn the bleed valve on the inlet side to the right and closed position. There is no pressure gauge to show vacuum pressure on this pump unit. Carry out aspiration as required. When finished, ensure that both bleed valves are left open and ready to be set for the next embalming.

For more information, help and advice, please contact your MazWell® Sales Consultant or Distributor.

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