

SPIRITS UNLIMITED LTD

ASSEMBLY INSTRUCTIONS

EURO 30K-0
EURO 30K-1
EURO 30K-2

Features

- ✓ Simple and quick assembly in under 2 hours.
- ✓ 304 Food grade stainless steel body, tower and condenser.
- ✓ Reflux flange, top and bottom plugs are high density polypropylene.
- ✓ Simple and efficient operation.
- ✓ Packaged for easy worldwide shipping.

MANUFACTURED BY

SPIRITS UNLIMITED LTD
PALMERSTON R. D. 2
EAST OTAGO
NEW ZEALAND

Website

www.spiritsunlimited.co.nz

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SPIRITS UNLIMITED EURO 30 ASSEMBLY INSTRUCTIONS

1 GETTING STARTED

Assembly of your Spirits Unlimited Euro Still is an easy and simple process and only requires some basic tools found in most homes. Depending on the model some steps are not required and this will be explained as assembly progresses.

Assembly should take approximately 2 hours with a further 48 hours required to allow the sealant to cure before the assembled Spirits Unlimited Euro Still can be used. The cure time can be avoided if you wish to have your still welded as explained in section 3. Please take careful note of the accompanying photographs as they show visually how to complete the assembly. Good luck and happy distilling.

2 PRE-ASSEMBLY CHECKS

<p>Make sure you have all the components, check from the photograph and the parts list.</p>		
<p>Top pot assembly Bottom pot assembly Heater element & power cord/s (only with the Euro30K-1 and Euro30K-2 models). Polypropylene reflux flange 12 stainless steel bolts 12 stainless steel washers 12 stainless steel nuts Nitril Gasket Sealant</p>	<p style="text-align: center;">Parts List</p> <p>Sealing band + 4 short sealing pieces. 9mm-3/8" stainless steel pipe 16mm-5/8" stainless steel pipe 8 grommets Nylon plug 4 cooling pipes 2 x stainless steel swarf Multi holed polypropylene plug. Stainless steel spring circlip.</p>	<p>Packet rumbled glass. Two holed polypropylene plug. Flange seal. PVC Hose. Thermometer. Rubber thermometer sleeve. Assembly Instructions. Operating Instructions.</p>

3 POT ASSEMBLY

Before the two part pot halves are permanently sealed together it is easier to install the elements first if you have the electric K1 or K2 version.

Fit the element and tighten do not use sealant.

Test with 12 litres or 2 1/2 gallons of boiling water, connect to power and test boil for 10 minutes. When you are satisfied disconnect the power, empty and dry thoroughly.



NOTE elements may vary from photo due to different voltages. 110 volt stills have only one element.
Euro30-1: 1 element, Euro30-2: 2 elements

Take the other pot half and fit the polypropylene reflux flange as follows.

Place bolts, with the nital gasket in the flange first. Place the pre bolt fitted flange into the pot and tighten the nuts with the spanner provided.



The next operation is to assemble the two pot halves together. This is best done by T.I.G. welding however if you are unable to source this service assemble as follows.

With help from a friend, dry fit the two pot halves which may be marked, if so line up the marks. It can help with alignment if you work the pot halves against the support created by a corner of your work area.



DO NOT test fit the 1.2mm (4 foot) long sealing band. Use the small pieces of sealing band, 25mm or 1" to act as temporary clamps. See photo.

Gently tap the pot edge with a small hammer if the pot halves need aligning. A small difference is O.K.

When you are satisfied how it is going to fit together take off the small pieces of sealing section and separate the two pot halves.

Thoroughly clean the mateing surfaces of the two pot rims ready for the sealant. A light scuff with sandpaper and you are ready to join the pot halves.

With element fitted 1/2 pot held steady on the table run a 1/4" or 5mm bead of sealant around the rim as per the photo, check this bead of sealant is continuous.



Never move glued still when hot.

On the other pot half [top] spread a thin 1mm [1 -16th] smear of sealant; you can use a knife to spread evenly.
See photo.

Line up the two pot halves and gently place the top half in position, this is when you need extra hands to stop the two pot halves sliding out of place which is to be avoided.



Gently as possible fit the four pieces of small rim seal at roughly equal positions around the rim. This will hold the two halves in place while you fit the permanent rim seal which must be done immediately. Study the photos.

It helps if you have stored the large permanent seal in a warm to hot **dry** area such as you hot water cylinder cupboard or in the sun.

With your helper holding everything steady start pressing the rim seal in place making sure the sections is fitted as consistently as possible.

Press fit on about 25mm or inch a time bending the rim seal as per photo, working the seal around the rim removing the temporary small pieces as you go.

Before cutting off the surplus use a small hammer or a block of wood and starting at about the middle gently tap the seal to ensure a neat fit, work from side to side as per the photo. Cut off the surplus and using a generous amount of sealant join the rim seal ends. If you expose a metal clip when cutting, remove clip and discard.

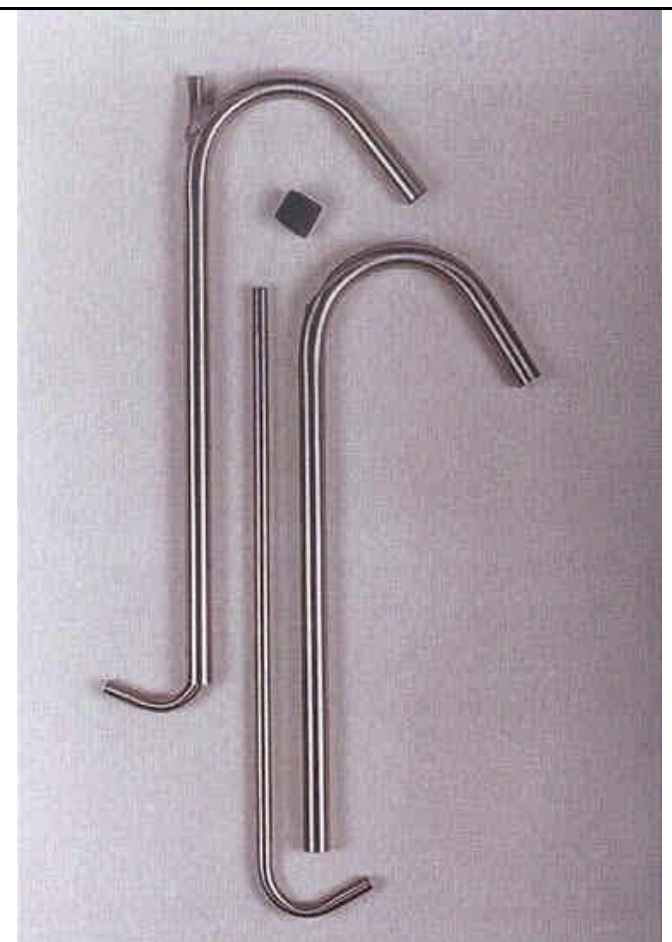
Put the pot aside to cure for 48 hours.



4 CONDENSER ASSEMBLY

Look at the photo and you will see how the smaller 9mm 3/8" pipe fits up into the larger 16mm 5/8" pipe. Push the smaller pipe hard up in place then with the sealant seal the joint with a 2 - 3mm 1/8" bead of sealant. Leave 4 - 12 hours and then add a further - 4mm 1/4" bead of sealant over the first and put aside for 2 days to cure.

If you wish to tidy up the glue, slip the heat shrink plastic tube in place and apply heat with a hair drier or heat gun. Do not overheat or you will melt the sealant.



5 TOWER ASSEMBLY

Put the 8 grommets in hot water to soften then push in place as per the photo.

Using the nylon plug on the end of a cooling pipe push through from one side to the other, check by eye they are evenly spaced it looks better if they are.



Place a pad a stainless steel swarf in the bottom of the tower (the end with the three cooling pipes), place the multi holed polypropylene plug into the 50mm reflux tower on top of the swarf and tap into place with your hairbrush, hammer or wooden block, making sure the plug is square at all times. Insert this plug 5mm or 1/4" past flush.



Push the spring circlip into place to retain the polypropylene plug.

With the tower upright or on a slight angle gently pour in the rumbled glass fill to within 35 - 50mm 1 1/2 - 2" of the top, place the wad of stainless steel swarf on top of the glass tower packing and fit the top polypropylene plug using the same method as with the bottom multi hole plug, align the large hole with the cooling tubes.



If at any time this top plug should become loose it can easily be made secure with a smear of sealant and a self tapping screw.

6 FITTING THE FLANGE SEAL

Wet the rubber seal and slide onto the tower, place the tower into the polypropylene flange all the way until it hits the stop then press down on the rubber seal to ensure a good fit. After the still has heated and dried out the water you used to help slide the rubber seal in place it will stay in place and not need to be adjusted again.



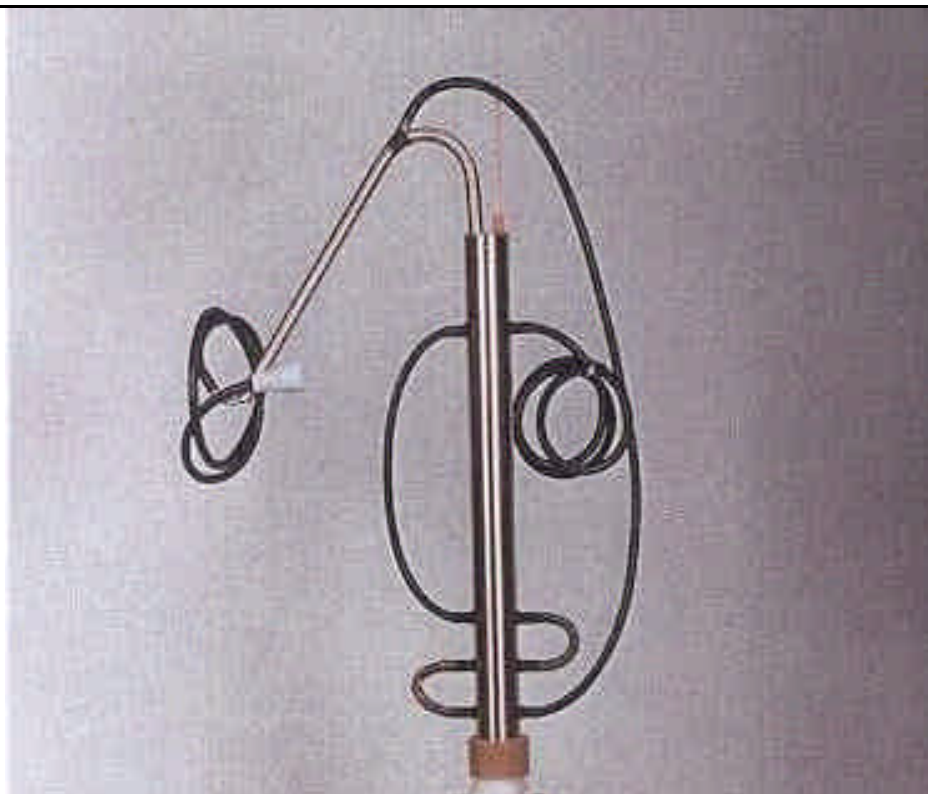
7 FINAL ASSEMBLY

Using the 8mm P.V.C. hose in the kit cut 2 pieces 200mm (8") and 1 piece at 370mm (14.5 inches) and 1 at 840mm (33 inches). After softening the ends in hot water fit to cooling tubes as per the photo.

Slide the condenser in place on the top of the tower it should go in 15 - 20mm (5/8 - 3/4") no more, use the sealant to secure if loose.

Heat both ends of the pre cut 840mm of 8mm P.V.C. hose and fit to the top of the condenser to the bottom 9mm cooling pipe, check the photo if unsure.

Lastly after heating one end fit the remaining piece of hose to the top pipe of the 4 cooling pipes and this is the hose which will go to your nearest drain point.



Wet thermometer red end with cold water and or the rubber thermometer sleeve. Fit the sleeve so as the red bulb extends through the bottom on the sleeve about 15mm (3/4"). See photo



Place the thermometer with sleeve in the hole provided in the top of the tower and assembly is completed.

CAUTION

If you have the electric element model you will need to place the still on non combustible surface. When operating the heat will mark standard bench tops.

8 CLEANING

DO NOT clean your still with Sodium Metabisulphite. Flushing your stainless steel still with hot water only is all that is necessary.

9 HOW TO EMPTY HOT USED WASH

By using a short piece of garden hose it is easy to siphon out the used boiling wash. Use 2 meters (6") of any diameter hose, insert hose into the still until it hits the bottom, place the other end under the cold tap (faucet) and back flow cold water into the still until all the air in the hose has been displaced.

Drop the tap end of the hose into the sink and the wash will back siphon into the drain. If you have a problem with the hot wash collapsing the hose profile when it rest on top of still flange, slip a nut or washer over the hose at this point and the hose will retain its shape. This also acts as a depth gauge when you place the hose into the still.

DO NOT attempt to empty your hot still by tipping, it is dangerous also if you have the Euro 30K the heat softened sealant, can shear and cause seam leaks.