

SPIRITS UNLIMITED LTD

OPERATING INSTRUCTIONS

EURO 30-0 EURO 60-0
EURO 30-1 EURO 60-1
EURO 30-2 EURO 60-2



MANUFACTURED BY

SPIRITS UNLIMITED LTD
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EAST OTAGO
NEW ZEALAND

Website

www.spiritsunlimited.co.nz

SPIRITS UNLIMITED EURO 30/60 OPERATING INSTRUCTIONS

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1 GETTING STARTED

Welcome to the exciting world of home produced spirits. Using your Spirits Unlimited EURO Reflux Still you will be able to produce high quality spirits and liqueurs at a very low cost. Technical support is available at your local Spirits Unlimited stockist or the Spirits Unlimited website at www.spiritsunlimited.co.nz. Follow the instructions below to create clean, safe spirits. Happy distilling.

2 FIRST TIME USE

Pre-boil your new still to remove milling oils and any other dirt; it is not necessary to have the towers in place just flush with hot water. Fit the tower. Fit the thermometer in place at the top of the tower. You are now ready to fill your Euro Still and start distilling.

3 FILLING THE EURO STILL

Spirits Unlimited recommend the use of Spirits Unlimited Superbrew for fermenting the base wash for use in your Euro Still. Other specialist yeasts and nutrient mixes are available from your local Spirits Unlimited stockist or direct from our website at www.spiritsunlimited.co.nz.

3.1 Euro 30

Fill your Spirits Unlimited Euro 30 still with 25 litres of wash pre-fermented with Spirits Unlimited Superbrew at the rate of 6Kg of sugar to a total of 25 litres. Note the level in the still for future reference. It should be about 130mm from top of the flange, plus or minus 25mm is fine.

3.2 Euro 60

The capacity of the Euro 60 Still is twice that of the Euro 30, so prepare a double batch of wash as per section 3.1 for the Euro 30 Still.

Re-assemble the Euro Still by fitting the tower assembly and thermometer. Fit cold water connector to the tap and trial flow to fill hoses. Make sure the water flows freely as this is essential to proper cooling of the tower.

4 HEATING THE EURO STILL

Depending on the model of the Euro Still you have purchased will govern the heating method for your Still.

4.1 Euro30-0 or Euro60-0 Non Electric Still

The Euro30-0 and Euro60-0 Stills have no electric heating element and require an external heating source. Spirits Unlimited recommend the use of an electric hotplate with no thermostat

(this can cause surge boiling) as this is safer than a gas hotplate. **Caution the distillate produced from the Euro Still is highly flammable.**

4.2 Euro30-1 or Euro60-1 Electric Single Element Still

The Euro30-1 and Euro60-1 Stills have a single electric heating element. Connect the electric power to the heating element and proceed with distillation (see section 5).

4.3 Euro30-2 or Euro60-2 Electric Dual Element Still

The Euro30-2 and Euro60-2 Stills have dual electric heating elements. The first element is the booster element (usually the larger element) used to heat the wash quickly and the second is the continuous heating element (used to keep the wash heated during distillation). Connect the electric power to both the elements and proceed with distillation (see section 5).

5 START DISTILLING

Connect the heating elements to the power (as explained in section 4) and turn on or in the case of the non electric still provide external heat source. Turn on the cold water flow at a very slow rate, this is essential as when the tower heats up it will stop the PVC hoses from softening.

After approximately 50 minutes bring the water flow to about ½ - 1 liter per minute or before if the condenser starts steaming. If dual elements have been fitted turn off the booster element.

When the distillate starts to flow discard the first 60ml as this may contain a small proportion of methanol as this is discharged from the still before ethanol (the boiling point of methanol is lower than ethanol).

Adjust the water flow to hold the head temperature at 77.5°C. Spirit strength will be at a rate of 92-93% by volume and yield 3 litres after 2.5 hours (Euro30 Stills) or 6 litres after 5 hours (Euro60 Stills). The next hour will produce 300ml of 92% (Euro30 Stills) or 600ml of 92% over the next two hours (Euro60 Stills). You can distill another 150ml odd mls at about 92% over a further 50-70 minutes, however this spirit should be treated as tails (higher level of impurities and should be redistilled with another batch of wash).

6 DISTILLATION COMPLETED

On completion remove the heat source. Make sure any electric elements are disconnected from the electric power.

Lift off the tower using a dry towel and stand upright for preference, do not lay on side. Empty the still as described in section 7.

7 EMPTYING THE EURO STILL

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 rests 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.

8 CLEANING THE EURO STILL

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

9 QUICK TIPS FOR EFFICIENT DISTILLING

- (a). If you want to hasten the distilling cycle you can run the reflux head at a higher temperature, this will however reduce the percentage of the spirit and it's purity.
- (b). A good time to turn off one of the elements and start the water flow is when the top 50-75mm of the tower only is cool to touch.
- (c). During hot weather if you have difficulty in keeping the temperature down to 77-78°C try a small domestic fan directed mid way up the tower. This will reduce the head temperature very quickly.
- (d). Note: The temperature quoted may vary with minor inaccuracies due to the individual thermometers. Control the water flow to allow a good spirit flow.
- (e). The packing in the tower should be cleaned by flushing with hot water after use. With the thermometer removed hold the tower upside down in the sink and flush with hot water.