

Yellow Fields Oil

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EQUIPMENT FOR FILTERING COLD PRESSED OILS

There are 2 ways to filter your oil:

1) **Let it settle in a tank** for a week and then rack off the oil above the sediment and polish with a with a polishing filter. This is a great lower cost method and works fine for a throughput of up to about 1,000 litres per week. You can filter even more but with this method capacity is increased by increasing the volume of your settling tanks so you soon end up with a lot of oil in several tanks slowly settling.

OR

2) **Filtering with a filter aid powder.** This allows you to filter immediately. The process involves the addition of a filter aid (an inert, food grade powder) to the oil then pumping it through a depth filter. The filter catches the powder which builds up as a layer and it is this layer of filter aid powder does the filtering. With this method you don't need lots of settling tanks and you can even filter straight from the press.

Polishing filters (the settling method)

Polishing filters are used to polish oil that has been left to settle in a tank for a few days. The oil from these filters will be the crystal clear final product ready for bottling.

Oil is filtered through a set of disposable low cost cellulose fibre sheets clamped between plastic distribution/drainage plates. Clarity is determined by grade of sheet used.

Oil is pumped through the filter using a food grade pump that can handle suspended solids. Flow rate is controlled using a speed control and pressure bypass.

This system will draw unfiltered oil from the settling tank and discharge crystal clear oil into a tank ready for bottling.

20cm and 40cm plate sizes are most popular though other sizes are available. Units come with inlet and outlet valves, sight glasses, pressure gauge, drip tray and on a wheeled chassis.

The 40cm filter can typically filter 1,000 litres of settled oil before the filter sheets need to be changed. The 20cm will filter about 300 litres between sheet changes. These intervals can be extended substantially (even doubled) if the oil is left to settle for longer than a few days. Sheets cost around £20 per change (filtration therefore costs around 1p per 500ml bottle).



20 cm plate filter with pump



40 cm plate filter with pump

*20x20cm, 20-plate with variable speed flex vane pump
suitable for culinary oil, guide price: £1,850 +VAT*

*40x40cm, 20-plate with variable speed mono pump
suitable for culinary oil, guide price: £4,700 +VAT*

Depth filters

With these filters the oil does not need to be left to settle. Oil comes straight from the press into an intermediate tank. It is usually necessary to add a low cost filter aid powder (which is food grade) to the intermediate tank. The tank must be fitted with a slow moving stirrer to keep all of the solids suspended. The filter pump then sucks the oil from the intermediate tank and pushes it through the filter, after a few minutes of recirculation to build up a layer of solids on the filter cloth a valve is opened and clean oil from the filter is directed through into the clean oil tank ready for bottling.

These filters are fitted with automatic pressure control switches and will run continually. Once full the pump is turned off and the filter allowed to drain. It is then opened and the solids manually scraped from the sheets (an easy process that can be completed in a few minutes). The press is then closed again and filtration restarted.



20x20cm 10 plate depth filter
200 to 400 litres of oil can be filtered before sheets need to be cleaned

approx £3,000 with pump



35x35cm 15 plate depth filter
600 to 1,000 litres of oil can be filtered before sheets need to be cleaned.

*Approx £4,500 with pump
Culinary grade £800 extra*

47x47cm 10 plate depth filter
2,000+ litres of oil can be filtered before sheets need to be cleaned.
Can be increased to 15 plates.

*approx £6,500 with pump
culinary grade £800 extra*

