



Explorer Options list

2021



Here is the list of options currently available for the Explorer and some in prototyping phase. We try to keep everything in stock, especially the most popular options but some of them may have to be built on demand which could take a few weeks. Please contact us to check the availability and if you have any questions.

Explorer option	Description
Online thermometer	<p>Comprises 2 x 6'' tri-clamp extension (one with thermometer), 1.5'' diameter with PTFE gaskets and clamps.</p> <p>One extension comprises a stainless thermometer to get the accurate temperature of the vapor or condensate before or after the condenser. The insert with the thermometer can be placed between the lid and the column to get the temperature of the vapors escaping the tank; before the condenser to know the temperature of the vapors reaching the condenser; or after the condenser to get a more accurate temperature of the condensate than those obtained with the little thermometer included with the <i>Explorer</i>. The other extension can be placed on the column or the condenser side to compensate the additional height.</p> <p>This option can be used with any other options but is a great addition to the column extensions (the following item) to perform fractional distillation.</p>
Column extensions	<p>Comprises 2 x 22'' extension, 1.5'' diameter with PTFE gaskets and clamps.</p> <p>One column extension can be placed between the lid and the column to have a higher ascending column which can be interesting for fractional distillation. The other extension can be place just above the condenser to compensate the height and get the condenser at the same level as with no extension. If the unit is stabilized, the second extension can also be placed on the column side (in this configuration the condenser is much higher) to get a more efficient fractionation.</p> <p>This option can be used with any other options but is a great addition to the online thermometer (described above) to perform fractional distillation. It can also be filled with copper or stainless rings to improve the separation efficiency.</p>
Tank extension	<p>Comprises the tank extension (40 L) with M6 screws, nuts and thumb nuts, a black Buna-N O-ring, a stainless grid, a cohobation tube extension with screws and nut to be attached to the tank extension and a spare set of screw, nut and thumb nut.</p> <p>This option can be used to double the initial capacity of the <i>Explorer</i> and get 80 L of available space for the plant material. However, it can only be used for steam distillation, not water distillation.</p> <p>It can be used with the insulation kit (which we recommend when using the extension)</p>

Insulation kit	<p>Comprises a two-layer insulating piece for the tank and a single-layer insulating piece for the lid.</p> <p>The insulating pieces are made from wool treated with a flame retardant and are designed to reduce the reflux in the still as well as providing a better energetic efficiency.</p> <p>It can be used with almost all the other options (even the propane burner) but the lid insulating piece cannot be used with the modified lid for agitation</p>
Modified lid for agitation	<p>Comprises a thicker lid for the <i>Explorer</i> with a detachable stand pole for an overhead stirrer, a 2" sight glass, a 4" tri-clamp cap with bearing for the agitator shaft and a peripheral outlet for the steam.</p> <p>This option is designed to work with most of the overhead stirrer. The stirrer itself is not included in the option but we can guide you to find a good stirrer that would work for your application. The modified lid (+stirrer) allows to perform agitated water distillation which can be interesting to avoid the plant material to settle at the bottom of the still before or during the distillation or crushing soft plant material during a water distillation. It is particularly useful for oleoresin or gum-oleoresin distillation.</p> <p>It can be used with various other options except the tank extension which is not designed for water distillation.</p>
Propeller	<p>Composed of a 5" propeller and a 10 mm shaft. 100 % stainless</p> <p>This propeller can be used with the modified lid and most of the overhead stirrers.</p>
Soxhlet Kit	<p>This optional kit comprises everything to transform the <i>Explorer</i> into a pilot scale Soxhlet. With 3 different replaceable siphoning devices, the extraction chamber (the plant compartment) volume can be set at 5, 10 or 15 L.</p> <p>Given that Soxhlet extraction is usually performed with organic (flammable) solvents, this kit should not be used with a propane burner as heating source.</p>
Upgraded burner	<p>Heavy duty 65 000 Btu/h propane burner with a stainless baffle to get a better energetic efficiency and a protect the flame from the wind. It comes with 4 feet of hose, a regulator and a green ACME fitting. The propane tank is not included.</p> <p>This burner is designed to work outside for steam and water distillation only.</p>
Copper spirals	<p>Comprise 5 lab-grade copper spirals designed to be introduced in the condenser tubes. This option is designed to compare the results by distilling in stainless and copper (stainless + copper).</p>
Vacuum Kit	<p>Coming soon</p>
Infrared heater	<p>Coming soon</p>