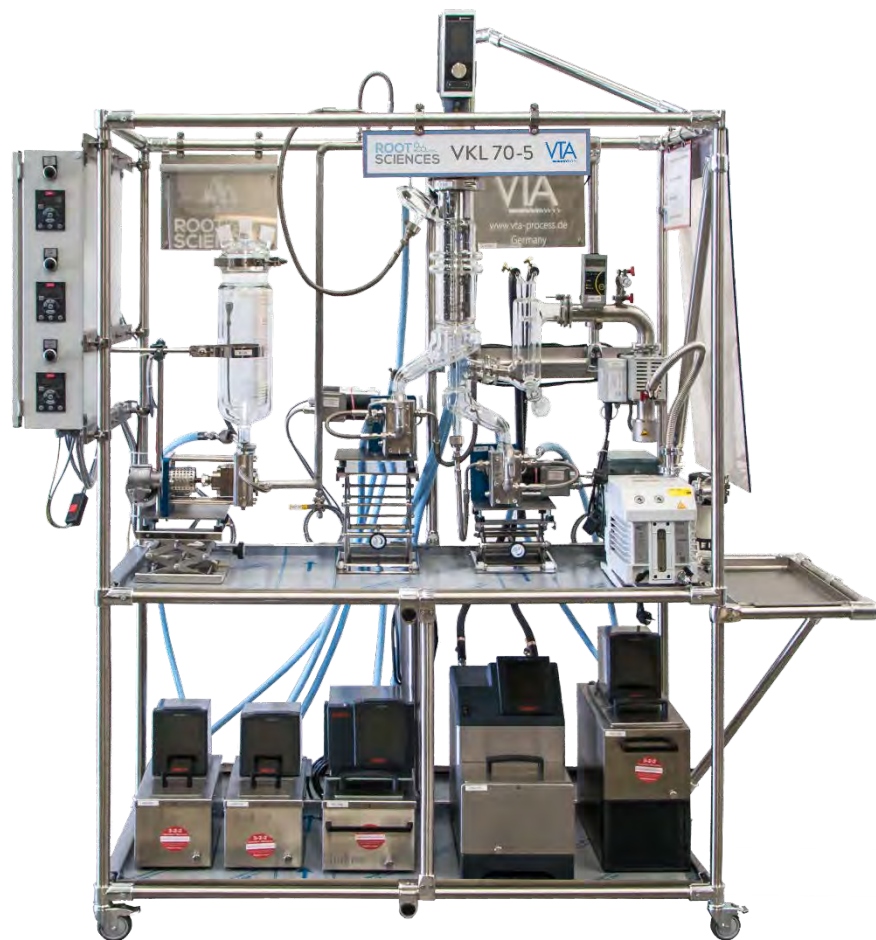


# ROOT SCIENCES

## SHORT PATH DISTILLATION PLANT VKL 70-5 RS

### KEY FEATURES

- **Throughput Capability**  
1,000-1,500 ml per hour
- **True Continuous Feed**  
Patented design allows for uninterrupted operation by continuously feeding cannabis oil into the feed tank and dispensing finished product out to atmosphere without breaking vacuum
- **Fully-Jacketed System**  
The VKL70-5RS is heated from start to finish, negating the use of heating tape or heat guns to keep product moving through the system
- **Fully Pump-Driven Operation**  
Integrated pumps provide full operator control over feed and discharge rates instead of relying on gravity type drip feed systems
- **Expert On-Site Training**  
Instruction on operation of equipment and proprietary parameters for producing distillate are included with purchase
- **Optimal Yields and Potency**  
Analytic results up to 99.85% total cannabinoids



<b>Feed</b> <ol style="list-style-type: none"> <li>1. Feed Tank in jacketed design with flanged lid with spare nozzles.</li> <li>2. Gear pump in jacketed design (design temperature 300°C), the speed of the pump is adjustable by frequency inverter.</li> <li>3. Feed line to evaporator is jacketed.</li> </ol>	
<b>Short-Path Evaporator</b> <ol style="list-style-type: none"> <li>1. Max evaporator temperature: 300 °C</li> <li>2. Borosilicate glass</li> <li>3. Internal condenser (coil)</li> <li>4. 3 wiper strands</li> <li>5. Digital display of wiper speed at motor drive</li> <li>6. Operating pressure (depending on product): 0.001 mbar</li> <li>7. Feed nozzle in jacketed design</li> <li>8. Residue nozzle in jacketed design</li> <li>9. Distillate nozzle in jacketed design</li> </ol>	
<b>Distillate &amp; Residue discharge pumps (2 pumps)</b> <ol style="list-style-type: none"> <li>1. Gear pump in jacketed design (design temperature 300°C), the speed of the pump is adjustable by frequency inverter</li> <li>2. Discharge siphon after gear pump is jacketed, which is used as a pressure lock against the atmosphere</li> </ol>	
<b>Vacuum System</b> <ol style="list-style-type: none"> <li>1. Vacuum pump equipped with vacuum pump oil. Leybold D16B Vacuum pump</li> <li>2. Diffusion vacuum pump for achieving stable vacuum conditions at low pressures (oil included)</li> <li>3. Flanged cold trap &amp; collection vessel for cold trap condensate</li> <li>4. Dosing valve for pressure adjustment &amp; for venting</li> <li>5. Digital gauge display measuring vacuum pressure</li> <li>6. All necessary connection pipes &amp; hoses for vacuum system</li> </ol>	
<b>Heating &amp; Cooling by Huber</b> <ol style="list-style-type: none"> <li>1. 1 independent heating unit for the evaporator</li> <li>2. 1 independent heating unit for the residue &amp; distillate line</li> <li>3. 1 independent heating unit for the feed tank</li> <li>4. 1 independent cooling unit for the cold trap</li> <li>5. 1 independent chilling unit for the internal condenser</li> </ol>	
<b>Rack/Frame</b> <ol style="list-style-type: none"> <li>1. Frame constructed of stainless steel with connection clamps for variable use and equipped with 4 wheels</li> </ol>	
<b>Power supply &amp; power distribution system</b> <ol style="list-style-type: none"> <li>1. Voltage: 240V</li> <li>2. Frequency: 60 Hz</li> <li>3. Number of Phases: 1 (two hot wires)</li> <li>4. Power distribution panel.</li> <li>5. Control panel for pumps.</li> </ol>	
<b>Included spare parts</b> <ol style="list-style-type: none"> <li>1. 1 set of tools</li> <li>2. 1 set of wiper blades</li> <li>3. 1 set of static gaskets</li> <li>4. 1 set of shaft sealing for rotary transmission</li> <li>5. 1 set of bearings for rotary transmission</li> <li>6. 1 set of O-rings</li> </ol>	
<b>Documentation</b> <ol style="list-style-type: none"> <li>1. Operating instructions</li> </ol>	
<b>Component CE Certifications</b> <ol style="list-style-type: none"> <li>1. Heaters &amp; Chillers</li> <li>2. Vacuum Pumps</li> <li>3. Gear Pumps</li> <li>4. Wiper Drive</li> <li>5. Power Box</li> <li>6. Frequency Box</li> <li>7. Pressure Gauge</li> </ol>	<b>Other Certifications</b> <ol style="list-style-type: none"> <li>1. AD 2000-Merckblatt HP 0 (Pressure vessels)</li> <li>2. ISO 14001 (Environmental management system)</li> <li>3. ISO 50001 (Energy management system)</li> </ol>