

# TEMPERATURE CONTROL FOR CANNABIS PROCESSING



The processing of cannabis from the plant to form a high-quality consistent cannabinoid oil involves several processes that require temperature control:



- **Extraction** techniques are used to separate the cannabis oils from the plant matrix using a solvent such as butane, ethanol or CO<sub>2</sub>. The extracted oil is effectively crude oil, which needs to be refined. During the ethanol extraction process, the plant material is placed in the solvent which is often heated to aid the extraction process.



- **Winterization** removes undesirable elements that were extracted from the plant and create a higher purity extract. The cannabis extract is taken to extremely low temperatures and held there to allow the waxes to precipitate out of the mixture. The extract is then filtered to remove the impurities.



- **Distillation** is used to separate and refine the oil concentrated cannabinoids while removing volatile components, terpenes and other undesirable components. Distillates can then be used in a variety of products, including vape cartridges and edibles. Some distillate is used in the production of CBD isolate. Vacuum distillation allows the components to be separated at lower temperatures to not degrade the product.

Choose LAUDA For All Your Temperature Control Solutions

-100 °C

Up to 340 kW

+500 °C

## TEMPERATURE CONTROL FOR CANNABIS PROCESSING



### LAUDA PRO

- 3.6 kW Heating Capacity
- 1.5 kW Cooling Capacity @ + 20 °C
- Pump Pressure Max. 0.7 bar
- Pump Flow Max. 22 L/min

-100 °C to 200 °C

### LAUDA VARIOCOOL

- 17 kW Heating Capacity
- 12 kW Cooling Capacity @ + 20 °C
  - Pump Pressure Max. 7.3 bar
  - Pump Flow Max. 75 L/min



-20 °C to 80 °C



### LAUDA INTEGRAL XT

- 24 kW Heating Capacity
- 25 kW Cooling Capacity @ + 20 °C
- Pump Pressure Max. up to 6 bar
- Pump Flow Max. 120 L/min

-90 °C to 220 °C

### LAUDA ECO

- 2.6 kW Heating Capacity
- 0.7 kW Cooling Capacity @ + 20 °C
  - Pump Pressure Max. 0.55 bar
  - Pump Flow Max. 22 L/min



-50 °C to 200 °C



### LAUDA ULTRACOOOL

- 336.9 kW Cooling Capacity @ + 20 °C
- Pump Pressure Max. 6.9 bar
- Pump Flow Max. 367 L/min

-10 °C to 35 °C