°LAUDA

TEMPERATURE CONTROL FOR CANNABIS PROCESSING

World Market Leader In Temperature Control Solutions

-150 °C ← Up to 365 kW → +550 °C

EXTRACTION

Extraction process is used to extract cannabinoids like THC and CBD as well as terpenes from the biomass using solvent such as butane, ethanol, or CO_2. The biomass is soaked in the solvent and often heated to aid the extraction process which is where the LAUDA process circulators can be used offering units with a wide range of heating capabilities.

WINTERIZATION

Winterization removes undesirable elements that were extracted from the biomass to create a higher purity extract. The cannabis extract is taken to extremely low temperatures, as low as -40 °C and held there to allow the waxes to precipitate out of the mixture. The LAUDA process circulators can accurately maintain these low temperatures to +/- 0.05 °C in order to achieve the best results for this process. The extract is then filtered to remove the impurities.

DISTILLATION

Distillation is used to separate and refine the oil concentrated cannabinoids while removing volatile components, terpenes and other undesirable components. Vacuum distillation using a LAUDA process circulator allows the components to be separated at lower temperatures to prevent any product degradation and produce the highest yield results. Distillates can then be used in the production of CBD isolate or in a variety of products, including vape cartridges and edibles.

LAUDA PRO
- Up to 3.6 kW Heating Capacity
- Up to 1.5 kW Cooling Capacity*
- Pump Pressure Max. 0.7 bar
- Pump Flow Max. 22 L/min
- NRTL Certified*

-100°C to 200°C

LAUDA INTEGRAL XT
- Up to 24 kW Heating Capacity
- Up to 25 kW Cooling Capacity*
- Pump Pressure Max. up to 6 bar
- Pump Flow Max. 120 L/min
- NRTL Certified

-90°C to 320°C

LAUDA VARIOCOOL
- Up to 17 kW Heating Capacity
- Up to 12 kW Cooling Capacity*
- Pump Pressure Max. 7.3 bar
- Pump Flow Max. 75 L/min
- NRTL Certified

-20°C to 80°C

LAUDA ULTRACOOL
- Up to 336.9 kW Cooling Capacity*
- Pump Pressure Max. 6.9 bar
- Pump Flow Max. 1170 L/min

-10°C to 35°C

*Cooling Capacity @ +20°C

LAUDA-Brinkmann, LP. | (856) 764-7300 | info@lauda-brinkmann.com | www.lauda-brinkmann.com