



Sample Automation



CRM 21.01

Diamond Mining System

Produce high purity crystals safely and efficiently in the shortest time-period

Sample Automation has developed the first Smart Diamond Miner available to the cannabis processing industry. With simple automation to increase efficiency and reduce processing time, it is ideal for processors interested in growing high quality cannabis crystals with the added bonuses of industry standard compliance and self-generated data. The Crown Miner can help to safely produce high purity crystals formed in the shortest amount of time. It is designed to comply with all current safety standards and its modular construction allows for it to be easily reconfigured to match future regulations as the industry evolves and processors expand. All components on the Crown Miner are C1D1 hazardous approved, with a Peer Review set for early 2022.



100% Traceable Stainless-Steel Construction



ASME Approved Jacketed Tanks



Bespoke Monitoring Software

The Crown Miner's **DeviceManager** monitoring and control software allows the user to create **growth recipes** that are tailored for the different strains of cannabis being processed. The Device Manager can be configured for **fully automatic** operation or full **user interaction** mode. The user interaction mode allows the operator to gain experience in what pressure, temperature and time parameters are best before saving them into a growth recipe. The use of these stored recipes allows for crystals to be reproducibly grown in the most time efficient and highest quality manner.

The Device Manager includes a data logging function for all the measured parameters to be saved in the computer's memory for future analysis of the crystal growth process. There is a three-day data logging backup feature fitted to the miner controller electronics in case of PC shut down. Power Banks and additional accessories can be provided for all levels of power cuts or additional compliance required.



Main Software Features

- Multi parameter trend screen with lines for multi day presentation
- Windows based
- Operate up to 8 vessels with one license
- User settable parameters: Discharge, Temperature, Pressure and Water Bath
- Data logging to neutral .xls files and Roll Reporting for end of process consolidation

Crown Miner Features

- Continuous monitoring and automatic adjustment of tank pressure and temperature
- ASME approved Jacketed Tanks
- Dual windows for viewability of crystal growth
- Quick disconnect of vessel for liquor input and removal of crystals
- Manual and Automatic PRV valves



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